

MAPS AND COMMANDS FOR LEGRAND ELECTRONIC CIRCUIT BREAKERS DMX³ AND DPX³

Revision of the present document:

REVISION: 1.0.0
DATE: 17/12/2024

Product involved:

- DMX³ 1600/2500/4000/6300 MP2/MP4
- DMX³ 4000 1000V MP2/MP4
- DMX-SP 2500/4000 MP2/MP4
- DPX³ 630/1600 S10
- DPX³ 250HP S10
- DPX³ 250 S2/Sg
- DPX³/EMS interface

Revisions:

REVISION	RELEASE DATE	REMARKS
1.0.0	17/12/2024	First release

Index

General information.....	3
AIR CIRCUIT BREAKERS ACB DMX3 / DMX-SP.....	6
<i>Protection units associated.....</i>	6
<i>Standard function codes.....</i>	7
<i>Possible maps per configurations.....</i>	7
<i>Map lists.....</i>	8
MOLDED CASE CIRCUIT BREAKER MCCB DPX3630/1600" S10	35
<i>Products associated.....</i>	35
<i>Standard function codes.....</i>	36
<i>Possible maps per configurations.....</i>	36
<i>Map lists.....</i>	37
MOLDED CASE CIRCUIT BREAKER MCCB DPX3 250HP S10	78
<i>Products associated.....</i>	78
<i>Standard function codes.....</i>	79
<i>Possible maps per configurations.....</i>	79
<i>Map lists.....</i>	80
MOLDED CASE CIRCUIT BREAKER MCCB DPX3 250 S2/Sg.....	142
<i>Products associated.....</i>	142
<i>Standard function codes.....</i>	143
<i>Possible maps per configurations.....</i>	143
<i>Map lists.....</i>	144
INTERFACE DPX3/EMS	240
<i>Products associated.....</i>	240
<i>Standard function codes.....</i>	240
<i>Map lists.....</i>	241

GENERAL INFORMATION

MODBUS OVER SERIAL DETAILS

Physical Layer	Standard EIA/TIA 485 (RS-485) two-wire configuration
Device Addressing	1÷247 (1 default)
Transmission Modes	RTU / ASCII (RTU default)
Baud Rates (bit/s)	Programmable 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 (19200 default)
Data Bits	8 (default)
Data bits trasmission sequence	Least significant bit first
Parity	NONE / ODD / EVEN (NONE default)
Stop Bits	1 / 2 (1 default)

MASTER/SLAVE COMMUNICATION TIMING

Timer Description	Timer Value (msec)
Inter-character time-out	< 1,5 character times
Response delay (from master request)	-
Delay Time (between two master trasmissions)	-

TIME OUT INTERFACE DEVICES

Legrand Device	Time out [ms] (Default)	Programmable
Web Server	1200	YES
Gateway	1000	YES
Interface RS485 / EMS	850	NO
Interface circuit breaker/ EMS	500	NO
Interface RS485 / MODBUS	800	NO

GENERAL INFORMATION

(2 of 3)

MODBUS PROTOCOL DETAILS

Function Code (HEX)	Exception Codes (HEX)
02 (Read Discrete Inputs)	01, 02, 03
01 (Read Coils)	01, 02, 03
05 / 0F (Write Single / Multiple Coils)	01, 02, 03
04 (Read Input Registers)	01, 02, 03
03 (Read Holding register)	01, 02, 03
06 / 10 (Write Single / Multiple Holding register)	01, 02, 03
Data Encoding	Big Endian (most significant byte first)

MODBUS COMMUNICATION ERROR TABLE

Error Code (hex)	Description
01	Function not implemented
02	Data address not implemented
03	Wrong data value
04	Error in function execution (NACK)
05	ACK for longer operations
06	Device is busy
08	“Memory Parity Error”
0A	Gateway: gateway path unavailable
0B	Gateway: target device failed to response
10*	Session already in the requested state
11*	Checksum Error (Firmware update)
12*	Writing error (Memory total reset)
13*	Wrong packet number
14*	Request of re-sending packet

* internal errors

STRUCTURE

[ADDR] [80h+Function Code] [Error code] [DATA1] [DATA2] [CKS]

NOTE

With error codes 11h, 12h and 13h,

[DATA1] and [DATA2] contain the address of last accepted packet.

If the packet is the first, default value is 0xFFFFFFFF

NUMERIC CODING

DESCRIPTION

All the registers containing numerical values are expressed as "whole with sign".

Any factors of scale can be indicated in the notes of the mapping together with units of measurement.

CODING

- The most significant bit attributes the sign to the magnitude;
- the remaining bits define the value;
- the significance of the "non-available parameter" (N/A) is attributed to the value corresponding to "0" (zero negative);

The rules indicated above are valid for all the registers regardless of their size (1,2,3 or n-word)

Example 1 word

Sign (1bit, 1="-")	Value (15 bit, 0000 to 7FFF)

If the parameter is not available (N/A) the value will be:

1000000000000000b = 0x8000h

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS

Revision of Support maps and Commands

REVISION: 3.0.0

DATE: 29/10/2024

Revision of Support maps and Commands for ACB devices

REVISION: 1.1.2

DATE: 29/11/2024

Product involved:

- DMX³ 1600/2500/4000/6300
- DMX³ 4000 1000V
- DMX-SP 2500/4000

Protection units associated:

PROTECTION UNIT	DESCRIPTION	COMPATIBILITY	OBJECT CODE
LG-028300	MP2.10 integrated LED matrix screen to show electrical values and settings Adjustment via rotating encoder		0x0008
LG-028301	MP2.10 integrated LED matrix screen to show electrical values and settings Adjustment via rotating encoder With measure function	DMX ³ 1600 DMX-SP 2500	0x0007
LG-028302	MP4.10 integrated LCD screen for displaying electrical values, settings and log Equipped with batteries for powering in case of mains fault or when the breaker is open or not connected		0x0006
LG-028303	MP4.10 integrated LCD screen for displaying electrical values, settings and log Equipped with batteries for powering in case of mains fault or when the breaker is open or not connected With measure function		0x0005
LG-028304	MP2.10 integrated LED matrix screen to show electrical values and settings Adjustment via rotating encoder		0x0008
LG-028305	MP2.10 integrated LED matrix screen to show electrical values and settings Adjustment via rotating encoder With measure function	DMX ³ 2500 DMX3 4000 DMX ³ 4000 1000V DMX ³ 6300 DMX-SP 4000	0x0007
LG-028306	MP4.10 integrated LCD screen for displaying electrical values, settings and log Equipped with batteries for powering in case of mains fault or when the breaker is open or not connected		0x0006
LG-028307	MP4.10 integrated LCD screen for displaying electrical values, settings and log Equipped with batteries for powering in case of mains fault or when the breaker is open or not connected With measure function		0x0005

Standard function codes

COMMUNICATION CHANNEL →		EMS	USB	REMARKS		
COMMANDS ↓						
Read coils (0x01)		x	x			
Read discrete inputs (0x02)		x	x			
Read holding register (0x03)		x	x			
Read input register (0x04)		x	x			
Write single coil (0x05)		x	x			
Write single register (0x06)		x	x			
Write multiple coils (0x0F)		x	x			
Write multiple registers (0x10)		x	x			

Possible maps per configurations

PROTECTION UNIT →		LG-028300 LG-028304			LG-028301 LG-028305			LG-028302 LG-028306			LG-028303 LG-028307		
OBJECT CODE →		0x0008			0x0007			0x0006			0x0005		
CONFIGURATION →		3 poles	4 poles	3 Poles +N _{ext}	3 poles	4 poles	3 Poles +N _{ext}	3 poles	4 poles	3 Poles +N _{ext}	3 poles	4 poles	3 Poles +N _{ext}
MAP↓	N°												
Calendar Settings B	[1]	X	X	X	X	X	X	X	X	X	X	X	X
Switch Status B	[2]	X	X	X				X	X	X			
Switch Status B + Measure	[3]				X	X	X				X	X	X
3-Phase Measure E 3P + Measure	[4]				X						X		
3-Phase Measure E 4P + Measure	[5]					X	X					X	X
3-Phase Measure E 3P	[6]	X						X					
3-Phase Measure E 4P	[7]		X	X					X	X			
3-Phase Elect Proct S 3P	[8]	X			X			X			X		
3-Phase Elect Proct S 4P	[9]		X	X		X	X		X	X		X	X
Thermal Measurement B	[10]	X	X	X	X	X	X	X	X	X	X	X	X

Map lists

[N°1] - Calendar Settings B (Calendar Settings Functionality) - BASE

RETURN TO TABLE
OF MAPS

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
144	0090	3	Current date and time		(1),(5)	x

REMARKS:

(1)	DEFAULT (0001 010C 0000h) WORD2 : chronology, "year" (MSB) and "month" (LSB); is the word that is returned first of the three words – Most significant word WORD1 : chronology, "day" (MSB) and "hour" (LSB) WORD0 : chronology, "minutes" (MSB) and "seconds" (LSB)
(5)	Register value when is not available: 0x800000000000

ADDITIONAL INFORMATION:

Rules are checked every minute and executed starting from rule 1 to rule 10 (1 rule every second).
The rule with the highest ID (1-10) is the last to be executed and then has the highest priority.

[N°2] - Switch Status B (switch Status Functionality) - BASE

**RETURN TO TABLE
OF MAPS**

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	Open		(1)	
16385	4001	1	Closed		(1)	
16386	4002	1	Single tripped switch/ Tripped group of switches		(1),(2)	

REMARKS:

(1)	the information shown here "autorestores" when the condition that has generated it is lost (E.G.: TRIPPED is the faithful response of the device's mechanical contact Where there is a MAN/AUT operating mode selector switch, this notification can only persist if MAN is set);
(2)	if this functionality is used in switch group tripped mode (panel tripped), the bit contains the OR of the tripped of the switches belonging to the group.

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16385	4001	1	Intervention Meter (total, cannot be reset at zero by the customer)			x
16386	4002	1	Maximum Manoeuvre Number (cannot be configured by the customer)			x
16387	4003	1	Switch Features – Rated current	[A]	(1)	x
16388	4004	1	Switch features – Type/Poles		(2)	x
16389	4005	1	Switch features – Breaking capacity	[kA]/100	(3)	x

REMARKS:

(1)	RATED CURRENT (numeric coding, [A])
(2)	TYPE/POLES •MSB – DEVICE TYPE bit 0=insulator (0)/int. Automatic (1), bit 1=repulsive switch (0)/ not repulsive switch (1) bit 7-2="0" •LSB – POLES bit 0 to 3: Number of poles: numeric value (1 to 4) bit 4 Neutral position (left(1)/right(0)) bit 5 :Neutral external (1) (only 3 poles) bit 7-6= "0"
(3)	BREAKING CAPACITY: (numeric coding, [kA/100]. Example: 4,5kA is coded in "hundredths of kA", therefore 4.5 becomes 450)

[N°3] - Switch Status B + Measure (switch Status Functionality) - BASE

RETURN TO TABLE
OF MAPS

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	Open		(1)	
16385	4001	1	Closed		(1)	
16386	4002	1	Single tripped switch/ Tripped group of switches		(1),(2)	

REMARKS:

(1)	the information shown here "autorestores" when the condition that has generated it is lost (E.G.: TRIPPED is the faithful response of the device's mechanical contact Where there is a MAN/AUT operating mode selector switch, this notification can only persist if MAN is set);
(2)	if this functionality is used in switch group tripped mode (panel tripped), the bit contains the OR of the tripped of the switches belonging to the group.

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	Direction of switch supply (if the direction is HIGH -> LOW the bit is = 0, default; if it is LOW -> HIGH the bit is = 1)			x

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16385	4001	1	Intervention Meter (total, cannot be reset at zero by the customer)			x
16386	4002	1	Maximum Manoeuvre Number (cannot be configured by the customer)			x
16387	4003	1	Switch Features – Rated current	[A]	(1)	x
16388	4004	1	Switch features – Type/Poles		(2)	x
16389	4005	1	Switch features – Breaking capacity	[kA]/100	(3)	x

REMARKS:

(1)	RATED CURRENT (numeric coding, [A])
(2)	TYPE/POLES •MSB – DEVICE TYPE bit 0=insulator (0)/int. Automatic (1), bit 1=repulsive switch (0)/ not repulsive switch (1) bit 7-2=“0” •LSB – POLES bit 0 to 3: Number of poles: numeric value (1 to 4) bit 4 Neutral position (left(1)/right(0)) bit 5 :Neutral external (1) (only 3 poles) bit 7-6= “0”
(3)	BREAKING CAPACITY: (numeric coding, [kA/100]). Example: 4,5kA is coded in “hundredths of kA”, therefore 4.5 becomes 450)

[N°4] - 3-Phase Measure E 3P + Measure (Three-phase Electrical Measurement Functionality ("PMD I")) - EVOLVED

RETURN TO TABLE OF MAPS

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Measurement 1 alarm/event			
20481	5001	1	Measurement 2 alarm/event			
20482	5002	1	Measurement 3 alarm/event			
20483	5003	1	Measurement 4 alarm/event			
20484	5004	1	Measurement 5 alarm/event			
20485	5005	1	Measurement 6 alarm/event			
20486	5006	1	Measurement 7 alarm/event			
20487	5007	1	Measurement 8 alarm/event			
20488	5008	1	Measurement 9 alarm/event			
20489	5009	1	Measurement 10 alarm/event			
20490	500A	1	Error on voltage phase sequence			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	0x8000		(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	
20485	5005	1	0x8000		(2)	
20486	5006	1	0x8000		(2)	
20487	5007	1	0x8000		(2)	x
20488	5008	1	0x8000		(2)	x
20489	5009	1	0x8000		(1)	
20490	500A	1	0x8000		(1)	
20491	500B	1	0x8000		(1)	
20492	500C	1	0x8000		(1)	
20493	500D	1	0x8000		(1)	x
20494	500E	1	0x8000		(2),(4)	
20495	500F	1	0x8000		(2),(4)	
20496	5010	1	0x8000		(2),(4)	
20497	5011	1	Voltage 1-2	[V]	(2),(4)	
20498	5012	1	Voltage1-3	[V]	(2),(4)	
20499	5013	1	Voltage 2-3	[V]	(2),(4)	
20500	5014	1	0x8000		(2)	
20501	5015	1	0x8000		(2)	
20502	5016	1	0x8000		(2)	x
20503	5017	1	0x8000		(2)	x
20504	5018	1	0x8000		(1)	
20505	5019	1	0x8000		(1)	
20506	501A	1	0x8000		(1)	
20507	501B	1	0x8000		(1)	x
20508	501C	1	0x8000		(1)	
20509	501D	1	0x8000		(1)	
20510	501E	1	0x8000		(1)	
20511	501F	1	0x8000		(1)	x
20512	5020	1	THD Phase 1 (R) vs. fundamental current	%	(2)	
20513	5021	1	THD Phase 2 (S) vs. fundamental current	%	(2)	
20514	5022	1	THD Phase 3 (T) vs. fundamental current	%	(2)	
20515	5023	1	0x8000		(2)	
20516	5024	1	0x8000		(2)	
20517	5025	1	0x8000		(2)	

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(7 of 29)

20518	5026	1	0x8000		(2)	
20519	5027	1	THD Voltage 1-2 vs. fundamental	%	(2)	
20520	5028	1	THD Voltage 1-3 vs. fundamental	%	(2)	
20521	5029	1	THD Voltage 2-3 vs. fundamental	%	(2)	
20522	502A	1	Three-phase active power	[kW]	(1),(4)	
20523	502B	1	Three-phase reactive power	[kVar]	(1),(4)	
20524	502C	1	0x8000		(1)	
20525	502D	1	0x8000		(2)	
20526	502E	1	Three-phase Apparent Power	[kVA]	(1),(4)	
20527	502F	1	Three-phase power factor (PF)	1/100	(1),(3)	
20528	5030	1	0x8000		(1),(3)	
20529	5031	1	Three-phase Frequency	[Hz]/100	(1),(3)	
20530	5032	2	0x80000000		(1)	x
20532	5034	2	Positive Three-phase Active Energy	[kWh]	(2),(4)	x
20534	5036	2	Negative Three-phase Active Energy	[kWh]	(2),(4)	x
20536	5038	2	0x80000000		(1)	x
20538	503A	2	Positive Three-phase Reactive Energy	[kVar]	(2),(4)	x
20540	503C	2	Negative Three-phase Reactive Energy	[kVar]	(2),(4)	x
20542	503E	2	0x80000000		(2)	x
20544	5040	1	Phase 1 Active Power (R)	[kW]	(1),(4)	
20545	5041	1	Phase 2 Active Power (S)	[kW]	(1),(4)	
20546	5042	1	Phase 3 active power (T)	[kW]	(1),(4)	
20547	5043	1	Reactive Power phase 1 (R)	[kVar]	(1),(4)	
20548	5044	1	Reactive Power phase 2 (S)	[kVar]	(1),(4)	
20549	5045	1	Reactive Power phase 3 (T)	[kVar]	(1),(4)	
20550	5046	1	0x8000		(1)	
20551	5047	1	0x8000		(1)	
20552	5048	1	0x8000		(1)	
20553	5049	1	0x8000		(2)	
20554	504A	1	0x8000		(2)	
20555	504B	1	0x8000		(2)	
20556	504C	1	Apparent Power Phase 1 (R)	[kVA]	(1),(4)	
20557	504D	1	Apparent Power Phase 2 (S)	[kVA]	(1),(4)	
20558	504E	1	Apparent Power Phase 3 (T)	[kVA]	(1),(4)	
20559	504F	1	0x8000		(1),(3)	
20560	5050	1	0x8000		(1),(3)	
20561	5051	1	0x8000		(1),(3)	
20562	5052	1	0x8000		(1),(3)	
20563	5053	1	0x8000		(1),(3)	
20564	5054	1	0x8000		(1),(3)	
20565	5055	2	Active Energy phase 1 (R) Positive	[kWh]	(2),(4)	x
20567	5057	2	Active Energy phase 2 (S) Positive	[kWh]	(2),(4)	x
20569	5059	2	Active Energy phase 3 (T) Positive	[kWh]	(2),(4)	x
20571	505B	2	Active Energy phase 1 (R) Negative	[kWh]	(2),(4)	x
20573	505D	2	Active Energy phase 2 (S) Negative	[kWh]	(2),(4)	x
20575	505F	2	Active Energy phase 3 (T) Negative	[kWh]	(2),(4)	x
20577	5061	2	Reactive Energy phase 1 (R) Positive	[kVarh]	(2),(4)	x
20579	5063	2	Reactive Energy phase 2 (S) Positive	[kVarh]	(2),(4)	x
20581	5065	2	Reactive Energy phase 3 (T) Positive	[kVarh]	(2),(4)	x
20583	5067	2	Reactive Energy phase 1 (R) Negative	[kVarh]	(2),(4)	x
20585	5069	2	Reactive Energy phase 2 (S) Negative	[kVarh]	(2),(4)	x
20587	506B	2	Reactive Energy phase 3 (T) Negative	[kVarh]	(2),(4)	x
20589	506D	1	0x8000		(2)	x
20590	506E	1	0x8000		(2)	x
20591	506F	1	0x8000		(2)	x
20592	5070	1	0x8000		(2)	x
20593	5071	1	0x8000		(2)	x
20594	5072	1	0x8000		(2)	x
20595	5073	1	0x8000		(2)	x
20596	5074	1	0x8000		(2)	x
20597	5075	1	0x8000		(1)	x

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(8 of 29)

20598	5076	1	0x8000		(1)	x
20599	5077	1	0x8000		(1)	x
20600	5078	1	0x8000		(1)	x
20601	5079	1	0x8000		(2)	x
20602	507A	1	0x8000		(2)	x
20603	507B	1	harmonic I1 row 3	%	(2)	x
20604	507C	1	harmonic I2 row 3	%	(2)	x
20605	507D	1	harmonic I3 row 3	%	(2)	x
20606	507E	1	0x8000		(2)	x
20607	507F	1	harmonic I1 row 5	%	(2)	x
20608	5080	1	harmonic I2 row 5	%	(2)	x
20609	5081	1	harmonic I3 row 5	%	(2)	x
20610	5082	1	0x8000		(2)	x
20611	5083	1	harmonic I1 row 7	%	(2)	x
20612	5084	1	harmonic I2 row 7	%	(2)	x
20613	5085	1	harmonic I3 row 7	%	(2)	x
20614	5086	1	0x8000		(2)	x
20615	5087	1	harmonic I1 row 9	%	(2)	x
20616	5088	1	harmonic I2 row 9	%	(2)	x
20617	5089	1	harmonic I3 row 9	%	(2)	x
20618	508A	1	0x8000		(2)	x
20619	508B	1	harmonic I1 row 11	%	(2)	x
20620	508C	1	harmonic I2 row 11	%	(2)	x
20621	508D	1	harmonic I3 row 11	%	(2)	x
20622	508E	1	0x8000		(2)	x
20623	508F	1	harmonic I1 row 13	%	(2)	x
20624	5090	1	harmonic I2 row 13	%	(2)	x
20625	5091	1	harmonic I3 row 13	%	(2)	x
20626	5092	1	0x8000		(2)	x
20627	5093	1	harmonic I1 row 15	%	(2)	x
20628	5094	1	harmonic I2 row 15	%	(2)	x
20629	5095	1	harmonic I3 row 15	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(4)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Measurement System Features		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x80000000		(7)	x
20487	5007	1	Voltage multiplication factor		(1)	x
20488	5008	1	Current multiplication factor		(1)	x

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(9 of 29)

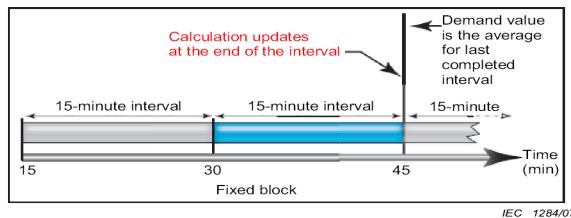
20489	5009	1	Total Power multiplication factor		(1)	x
20490	500A	1	Phase Power multiplication factor		(1)	x
20491	500B	1	Total Energy multiplication factor		(1)	x
20492	500C	1	Phase Energy multiplication factor		(1)	x
20493	500D	1	Alarm/event 1 magnitude		(5)	x
20494	500E	2	alarm/event threshold 1		(1),(4)	x
20496	5010	1	Delay alarm/event 1	s	(1)	x
20497	5011	1	Alarm/event 1 hysteresis	0.1%	(1)	x
20498	5012	1	Event type 1		(6)	x
20499	5013	1	Alarm/event 2 magnitude		(5)	x
20500	5014	2	Alarm/event 2 threshold		(1),(4)	x
20502	5016	1	Alarm/event 2 delay	s	(1)	x
20503	5017	1	Alarm/event 2 hysteresis	0.1%	(1)	x
20504	5018	1	Event type 2		(6)	x
20505	5019	1	Alarm/event 3 magnitude		(5)	x
20506	501A	2	Alarm/event 3 threshold		(1),(4)	x
20508	501C	1	Alarm/event 3 delay	s	(1)	x
20509	501D	1	Alarm/event 3 hysteresis	0.1%	(1)	x
20510	501E	1	Event type 3		(6)	x
20511	501F	1	Alarm/event 4 magnitude		(5)	x
20512	5020	2	Alarm/event 4 threshold		(1),(4)	x
20514	5022	1	Alarm/event 4 delay	s	(1)	x
20515	5023	1	Alarm/event 4 hysteresis	0.1%	(1)	x
20516	5024	1	Event type 4		(6)	x
20517	5025	1	Alarm/event 5 magnitude		(5)	x
20518	5026	2	Alarm/event 5 threshold		(1),(4)	x
20520	5028	1	Alarm/event 5 delay	s	(1)	x
20521	5029	1	Alarm/event 5 hysteresis	0.1%	(1)	x
20522	502A	1	Event type 5		(6)	x
20523	502B	1	Alarm/event 6 magnitude		(5)	x
20524	502C	2	threshold alarm/event 6		(1),(4)	x
20526	502E	1	Delay alarm/event 6	s	(1)	x
20527	502F	1	hysteresis alarm/event 6	0.1%	(1)	x
20528	5030	1	Type event 6		(6)	x
20529	5031	1	Magnitude alarm/event 7		(5)	x
20530	5032	2	Alarm/event 7 threshold		(1),(4)	x
20532	5034	1	Alarm/event 7 delay	s	(1)	x
20533	5035	1	Alarm/event 7 hysteresis	0.1%	(1)	x
20534	5036	1	Event 7 type		(6)	x
20535	5037	1	Alarm/event 8 magnitude		(5)	x
20536	5038	2	alarm/event 8 threshold		(1),(4)	x
20538	503A	1	Alarm/event 8 delay	s	(1)	x
20539	503B	1	Alarm/event 8 hysteresis	0.1%	(1)	x
20540	503C	1	Event type 8		(6)	x
20541	503D	1	Alarm/event magnitude 9		(5)	x
20542	503E	2	alarm/event 9 threshold		(1),(4)	x
20544	5040	1	Alarm/event delay 9	s	(1)	x
20545	5041	1	Alarm/event 9 hysteresis	0.1%	(1)	x
20546	5042	1	Event 9 type		(6)	x
20547	5043	1	Alarm/event 10 magnitude		(5)	x
20548	5044	2	Alarm/event 10 threshold		(1),(4)	x
20550	5046	1	Alarm/event 10 delay	s	(1)	x
20551	5047	1	Alarm/event 10 hysteresis	0.1%	(1)	x
20552	5048	1	Event 10 type		(6)	x

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(10 of 29)

REMARKS:

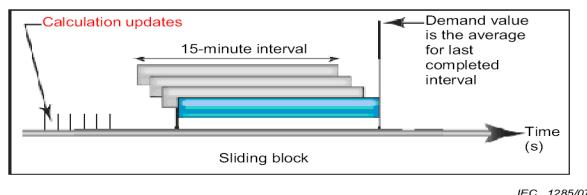
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[N°5] - 3-Phase Measure E 4P + Measure (Three-phase Electrical Measurement Functionality ("PMD I")) - EVOLVED

RETURN TO TABLE OF MAPS

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Measurement 1 alarm/event			
20481	5001	1	Measurement 2 alarm/event			
20482	5002	1	Measurement 3 alarm/event			
20483	5003	1	Measurement 4 alarm/event			
20484	5004	1	Measurement 5 alarm/event			
20485	5005	1	Measurement 6 alarm/event			
20486	5006	1	Measurement 7 alarm/event			
20487	5007	1	Measurement 8 alarm/event			
20488	5008	1	Measurement 9 alarm/event			
20489	5009	1	Measurement 10 alarm/event			
20490	500A	1	Error on voltage phase sequence			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)		(2),(4)	
20482	5002	1	Phase 3 Current Value (T)		(2),(4)	
20483	5003	1	Neutral Current Value		(2),(4)	
20484	5004	1	Earth Current Value		(2)	
20485	5005	1	0x8000		(2)	
20486	5006	1	0x8000		(2)	
20487	5007	1	0x8000		(2)	x
20488	5008	1	0x8000		(2)	x
20489	5009	1	0x8000		(1)	
20490	500A	1	0x8000		(1)	
20491	500B	1	0x8000		(1)	
20492	500C	1	0x8000		(1)	
20493	500D	1	0x8000		(1)	x
20494	500E	1	Voltage 1-N		(2),(4)	
20495	500F	1	Voltage 2-N		(2),(4)	
20496	5010	1	Voltage 3-N		(2),(4)	
20497	5011	1	Voltage 1-2		(2),(4)	
20498	5012	1	Voltage1-3		(2),(4)	
20499	5013	1	Voltage 2-3		(2),(4)	
20500	5014	1	0x8000		(2)	
20501	5015	1	0x8000		(2)	
20502	5016	1	0x8000		(2)	x
20503	5017	1	0x8000		(2)	x
20504	5018	1	0x8000		(1)	
20505	5019	1	0x8000		(1)	
20506	501A	1	0x8000		(1)	
20507	501B	1	0x8000		(1)	x
20508	501C	1	0x8000		(1)	
20509	501D	1	0x8000		(1)	
20510	501E	1	0x8000		(1)	
20511	501F	1	0x8000		(1)	x
20512	5020	1	THD Phase 1 (R) vs. fundamental current		(2)	
20513	5021	1	THD Phase 2 (S) vs. fundamental current		(2)	
20514	5022	1	THD Phase 3 (T) vs. fundamental current		(2)	
20515	5023	1	THD Neutral vs. fundamental current		(2)	
20516	5024	1	THD Voltage 1-N vs. fundamental		(2)	

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(12 of 29)

20517	5025	1	THD Voltage 2-N vs. fundamental		(2)	
20518	5026	1	THD Voltage 3-N vs. fundamental		(2)	
20519	5027	1	0x8000		(2)	
20520	5028	1	0x8000		(2)	
20521	5029	1	0x8000		(2)	
20522	502A	1	Three-phase active power		(1),(4)	
20523	502B	1	Three-phase reactive power		(1),(4)	
20524	502C	1	0x8000		(1)	
20525	502D	1	0x8000		(2)	
20526	502E	1	Three-phase Apparent Power		(1),(4)	
20527	502F	1	Three-phase power factor (PF)		(1),(3)	
20528	5030	1	0x8000		(1),(3)	
20529	5031	1	Three-phase Frequency		(1),(3)	
20530	5032	2	0x80000000		(1)	x
20532	5034	2	Positive Three-phase Active Energy		(2),(4)	x
20534	5036	2	Negative Three-phase Active Energy		(2),(4)	x
20536	5038	2	0x80000000		(1)	x
20538	503A	2	Positive Three-phase Reactive Energy		(2),(4)	x
20540	503C	2	Negative Three-phase Reactive Energy		(2),(4)	x
20542	503E	2	0x80000000		(2)	x
20544	5040	1	Phase 1 Active Power (R)		(1),(4)	
20545	5041	1	Phase 2 Active Power (S)		(1),(4)	
20546	5042	1	Phase 3 active power (T)		(1),(4)	
20547	5043	1	Reactive Power phase 1 (R)		(1),(4)	
20548	5044	1	Reactive Power phase 2 (S)		(1),(4)	
20549	5045	1	Reactive Power phase 3 (T)		(1),(4)	
20550	5046	1	0x8000		(1)	
20551	5047	1	0x8000		(1)	
20552	5048	1	0x8000		(1)	
20553	5049	1	0x8000		(2)	
20554	504A	1	0x8000		(2)	
20555	504B	1	0x8000		(2)	
20556	504C	1	Apparent Power Phase 1 (R)		(1),(4)	
20557	504D	1	Apparent Power Phase 2 (S)		(1),(4)	
20558	504E	1	Apparent Power Phase 3 (T)		(1),(4)	
20559	504F	1	0x8000		(1),(3)	
20560	5050	1	0x8000		(1),(3)	
20561	5051	1	0x8000		(1),(3)	
20562	5052	1	0x8000		(1),(3)	
20563	5053	1	0x8000		(1),(3)	
20564	5054	1	0x8000		(1),(3)	
20565	5055	2	Active Energy phase 1 (R) Positive		(2),(4)	x
20567	5057	2	Active Energy phase 2 (S) Positive		(2),(4)	x
20569	5059	2	Active Energy phase 3 (T) Positive		(2),(4)	x
20571	505B	2	Active Energy phase 1 (R) Negative		(2),(4)	x
20573	505D	2	Active Energy phase 2 (S) Negative		(2),(4)	x
20575	505F	2	Active Energy phase 3 (T) Negative		(2),(4)	x
20577	5061	2	Reactive Energy phase 1 (R) Positive		(2),(4)	x
20579	5063	2	Reactive Energy phase 2 (S) Positive		(2),(4)	x
20581	5065	2	Reactive Energy phase 3 (T) Positive		(2),(4)	x
20583	5067	2	Reactive Energy phase 1 (R) Negative		(2),(4)	x
20585	5069	2	Reactive Energy phase 2 (S) Negative		(2),(4)	x
20587	506B	2	Reactive Energy phase 3 (T) Negative		(2),(4)	x
20589	506D	1	0x8000		(2)	x
20590	506E	1	0x8000		(2)	x
20591	506F	1	0x8000		(2)	x
20592	5070	1	0x8000		(2)	x
20593	5071	1	0x8000		(2)	x
20594	5072	1	0x8000		(2)	x
20595	5073	1	0x8000		(2)	x
20596	5074	1	0x8000		(2)	x
20597	5075	1	0x8000		(1)	x
20598	5076	1	0x8000		(1)	x

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(13 of 29)

20599	5077	1	0x8000		(1)	x
20600	5078	1	0x8000		(1)	x
20601	5079	1	0x8000		(2)	x
20602	507A	1	0x8000		(2)	x
20603	507B	1	harmonic I1 row 3		(2)	x
20604	507C	1	harmonic I2 row 3		(2)	x
20605	507D	1	harmonic I3 row 3		(2)	x
20606	507E	1	harmonic IN row 3		(2)	x
20607	507F	1	harmonic I1 row 5		(2)	x
20608	5080	1	harmonic I2 row 5		(2)	x
20609	5081	1	harmonic I3 row 5		(2)	x
20610	5082	1	harmonic IN row 5		(2)	x
20611	5083	1	harmonic I1 row 7		(2)	x
20612	5084	1	harmonic I2 row 7		(2)	x
20613	5085	1	harmonic I3 row 7		(2)	x
20614	5086	1	harmonic IN row 7		(2)	x
20615	5087	1	harmonic I1 row 9		(2)	x
20616	5088	1	harmonic I2 row 9		(2)	x
20617	5089	1	harmonic I3 row 9		(2)	x
20618	508A	1	harmonic IN row 9		(2)	x
20619	508B	1	harmonic I1 row 11		(2)	x
20620	508C	1	harmonic I2 row 11		(2)	x
20621	508D	1	harmonic I3 row 11		(2)	x
20622	508E	1	harmonic IN row 11		(2)	x
20623	508F	1	harmonic I1 row 13		(2)	x
20624	5090	1	harmonic I2 row 13		(2)	x
20625	5091	1	harmonic I3 row 13		(2)	x
20626	5092	1	harmonic IN row 13		(2)	x
20627	5093	1	harmonic I1 row 15		(2)	x
20628	5094	1	harmonic I2 row 15		(2)	x
20629	5095	1	harmonic I3 row 15		(2)	x
20630	5096	1	harmonic IN row 15		(2)	x
20631	5097	1	0x8000		(2)	x
20632	5098	1	0x8000		(2)	x
20633	5099	1	0x8000		(2)	x
20634	509A	1	0x8000		(2)	x
20635	509B	1	0x8000		(2)	x
20636	509C	1	0x8000		(2)	x
20637	509D	1	0x8000		(2)	x
20638	509E	1	0x8000		(2)	x
20639	509F	1	0x8000		(2)	x
20640	50A0	1	0x8000		(2)	x
20641	50A1	1	0x8000		(2)	x
20642	50A2	1	0x8000		(2)	x
20643	50A3	1	0x8000		(2)	x
20644	50A4	1	0x8000		(2)	x
20645	50A5	1	0x8000		(2)	x
20646	50A6	1	0x8000		(2)	x
20647	50A7	1	0x8000		(2)	x
20648	50A8	1	0x8000		(2)	x
20649	50A9	1	0x8000		(2)	x
20650	50AA	1	0x8000		(2)	x
20651	50AB	1	0x8000		(2)	x
20652	50AC	1	0x8000		(2)	x
20653	50AD	1	0x8000		(2)	x
20654	50AE	1	0x8000		(2)	x
20655	50AF	1	0x8000		(2)	x
20656	50B0	1	0x8000		(2)	x
20657	50B1	1	0x8000		(2)	x
20658	50B2	1	0x8000		(2)	x
20659	50B3	1	0x8000		(2)	x
20660	50B4	1	0x8000		(2)	x
20661	50B5	1	0x8000		(2)	x

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(14 of 29)

20662	50B6	1	0x8000		(2)	x
20663	50B7	1	0x8000		(2)	x
20664	50B8	1	0x8000		(2)	x
20665	50B9	1	0x8000		(2)	x
20666	50BA	1	0x8000		(2)	x
20667	50BB	1	0x8000		(2)	x
20668	50BC	1	0x8000		(2)	x
20669	50BD	1	0x8000		(2)	x
20670	50BE	1	0x8000		(2)	x
20671	50BF	1	0x8000		(2)	x
20672	50C0	1	0x8000		(2)	x
20673	50C1	1	0x8000		(2)	x
20674	50C2	1	0x8000		(2)	x
20675	50C3	1	0x8000		(2)	x
20676	50C4	1	0x8000		(2)	x
20677	50C5	1	0x8000		(2)	x
20678	50C6	1	0x8000		(2)	x
20679	50C7	1	0x8000		(2)	x
20680	50C8	1	0x8000		(2)	x
20681	50C9	1	0x8000		(2)	x
20682	50CA	1	0x8000		(2)	x
20683	50CB	1	0x8000		(2)	x
20684	50CC	1	0x8000		(2)	x
20685	50CD	1	0x8000		(2)	x
20686	50CE	1	0x8000		(2)	x
20687	50CF	1	harmonic V1 row 3		(2)	x
20688	50D0	1	harmonic V2 row 3		(2)	x
20689	50D1	1	harmonic V3 row 3		(2)	x
20690	50D2	1	harmonic V1 row 5		(2)	x
20691	50D3	1	harmonic V2 row 5		(2)	x
20692	50D4	1	harmonic V3 row 5		(2)	x
20693	50D5	1	harmonic V1 row 7		(2)	x
20694	50D6	1	harmonic V2 row 7		(2)	x
20695	50D7	1	harmonic V3 row 7		(2)	x
20696	50D8	1	harmonic V1 row 9		(2)	x
20697	50D9	1	harmonic V2 row 9		(2)	x
20698	50DA	1	harmonic V3 row 9		(2)	x
20699	50DB	1	harmonic V1 row 11		(2)	x
20700	50DC	1	harmonic V2 row 11		(2)	x
20701	50DD	1	harmonic V3 row 11		(2)	x
20702	50DE	1	harmonic V1 row 13		(2)	x
20703	50DF	1	harmonic V2 row 13		(2)	x
20704	50EO	1	harmonic V3 row 13		(2)	x
20705	50E1	1	harmonic V1 row 15		(2)	x
20706	50E2	1	harmonic V2 row 15		(2)	x
20707	50E3	1	harmonic V3 row 15		(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(4)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(15 of 29)

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Measurement System Features		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x80000000		(7)	x
20487	5007	1	Voltage multiplication factor		(1)	x
20488	5008	1	Current multiplication factor		(1)	x
20489	5009	1	Total Power multiplication factor		(1)	x
20490	500A	1	Phase Power multiplication factor		(1)	x
20491	500B	1	Total Energy multiplication factor		(1)	x
20492	500C	1	Phase Energy multiplication factor		(1)	x
20493	500D	1	Alarm/event 1 magnitude		(5)	x
20494	500E	2	alarm/event threshold 1		(1),(4)	x
20496	5010	1	Delay alarm/event 1	s	(1)	x
20497	5011	1	Alarm/event 1 hysteresis	0.1%	(1)	x
20498	5012	1	Event type 1		(6)	x
20499	5013	1	Alarm/event 2 magnitude		(5)	x
20500	5014	2	Alarm/event 2 threshold		(1),(4)	x
20502	5016	1	Alarm/event 2 delay	s	(1)	x
20503	5017	1	Alarm/event 2 hysteresis	0.1%	(1)	x
20504	5018	1	Event type 2		(6)	x
20505	5019	1	Alarm/event 3 magnitude		(5)	x
20506	501A	2	Alarm/event 3 threshold		(1),(4)	x
20508	501C	1	Alarm/event 3 delay	s	(1)	x
20509	501D	1	Alarm/event 3 hysteresis	0.1%	(1)	x
20510	501E	1	Event type 3		(6)	x
20511	501F	1	Alarm/event 4 magnitude		(5)	x
20512	5020	2	Alarm/event 4 threshold		(1),(4)	x
20514	5022	1	Alarm/event 4 delay	s	(1)	x
20515	5023	1	Alarm/event 4 hysteresis	0.1%	(1)	x
20516	5024	1	Event type 4		(6)	x
20517	5025	1	Alarm/event 5 magnitude		(5)	x
20518	5026	2	Alarm/event 5 threshold		(1),(4)	x
20520	5028	1	Alarm/event 5 delay	s	(1)	x
20521	5029	1	Alarm/event 5 hysteresis	0.1%	(1)	x
20522	502A	1	Event type 5		(6)	x
20523	502B	1	Alarm/event 6 magnitude		(5)	x
20524	502C	2	threshold alarm/event 6		(1),(4)	x
20526	502E	1	Delay alarm/event 6	s	(1)	x
20527	502F	1	hysteresis alarm/event 6	0.1%	(1)	x
20528	5030	1	Type event 6		(6)	x
20529	5031	1	Magnitude alarm/event 7		(5)	x
20530	5032	2	Alarm/event 7 threshold		(1),(4)	x
20532	5034	1	Alarm/event 7 delay	s	(1)	x
20533	5035	1	Alarm/event 7 hysteresis	0.1%	(1)	x
20534	5036	1	Event 7 type		(6)	x
20535	5037	1	Alarm/event 8 magnitude		(5)	x
20536	5038	2	alarm/event 8 threshold		(1),(4)	x
20538	503A	1	Alarm/event 8 delay	s	(1)	x
20539	503B	1	Alarm/event 8 hysteresis	0.1%	(1)	x
20540	503C	1	Event type 8		(6)	x
20541	503D	1	Alarm/event magnitude 9		(5)	x
20542	503E	2	alarm/event 9 threshold		(1),(4)	x
20544	5040	1	Alarm/event delay 9	s	(1)	x
20545	5041	1	Alarm/event 9 hysteresis	0.1%	(1)	x
20546	5042	1	Event 9 type		(6)	x
20547	5043	1	Alarm/event 10 magnitude		(5)	x
20548	5044	2	Alarm/event 10 threshold		(1),(4)	x
20550	5046	1	Alarm/event 10 delay	s	(1)	x

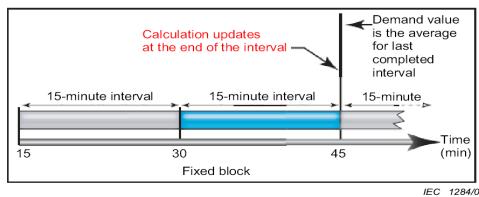
"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(16 of 29)

20551	5047	1	Alarm/event 10 hysteresis	0.1%	(1)	x
20552	5048	1	Event 10 type		(6)	x

REMARKS:

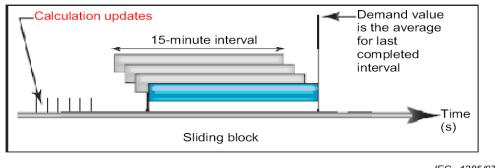
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[N°6] - 3-Phase Measure E 3P (Three-phase Electrical Measurement Functionality ("PMD I")) - EVOLVED

RETURN TO TABLE OF MAPS

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	0x8000		(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(4)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

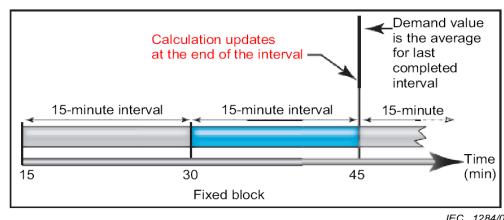
Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20488	5008	1	Current multiplication factor		(1)	X

REMARKS:

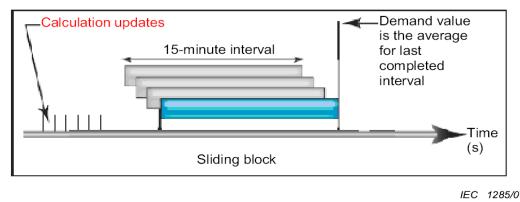
(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
-----	---

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

**[7] - 3-Phase Measure E 4P (Three-phase Electrical Measurement
Functionality ("PMD I")) - EVOLVED**

**RETURN TO TABLE
OF MAPS**

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	Neutral Current Value	[A]	(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(4)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 /

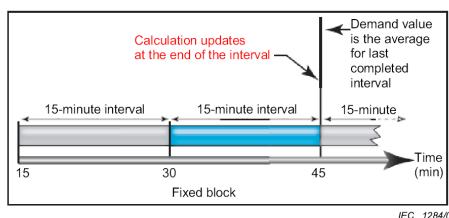
Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20488	5008	1	Current multiplication factor		(1)	X

REMARKS:

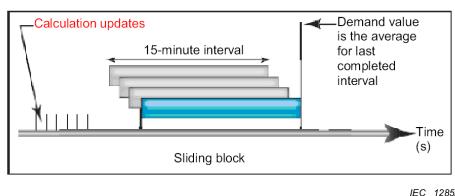
(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
-----	---

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[8] - 3-Phase Elect Proct S 3P (Three-phase ("3P+N") Electrical

RETURN TO TABLE
OF MAPS

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	Overload Prealarm (>threshold I1)		(1)	
29185	7201	1	Overload alarm (>thresholdI2)		(1)	
29186	7202	1	0		(1)	
29187	7203	1	0		(1)	
29188	7204	1	Alarm 1 Overtemperature (>threshold T)		(1)	
29189	7205	1	0		(1)	
29190	7206	1	0		(1)	
29191	7207	1	0		(1)	
29192	7208	1	Alarm 2 Overtemperature (>threshold2)		(1)	
29193	7209	1	Overload Tripped relay P. (no indication of phase)		(2)	x
29194	720A	1	Short-circuit Tripped relay P. (no indications of phase)		(2)	x
29195	720B	1	Device Protection Tripped relay ("III element", no indications of phase)		(2)	x
29196	720C	1	Earth Tripped relay P.		(2)	x
29197	720D	1	Tripped relay P. Overtemperature		(2)	x
29198	720E	1	Phase 1 Overload Tripped relay P.		(2)	x
29199	720F	1	Phase Overload Tripped relay P 2		(2)	x
29200	7210	1	Phase Overload Tripped relay P 3		(2)	x
29201	7211	1	0		(2)	x
29202	7212	1	Tripped relay P. delayable short-circuit phase 1		(2)	x
29203	7213	1	Delayable Short-circuit Tripped relay P phase 2		(2)	x
29204	7214	1	Delayable Short-circuit Tripped relay P. phase 3		(2)	x
29205	7215	1	0		(2)	x
29206	7216	1	Instantaneous Short-circuit Tripped relay phase 1		(2)	x
29207	7217	1	Instantaneous Short-circuit Tripped relay phase 2		(2)	x
29208	7218	1	Instantaneous Short-circuit Tripped relay phase 3		(2)	x
29209	7219	1	0		(2)	x
29210	721A	1	Device Tripped relay protection phase 1("III element")		(2)	x
29211	721B	1	Device Tripped relay protection phase 2 ("III element")		(2)	x
29212	721C	1	Device Tripped relay Protection phase 3 ("III element")		(2)	x
29213	721D	1	0		(2)	x
29214	721E	1	0		(2)	x
29215	721F	1	0		(2)	x
29216	7220	1	0		(2)	x
29217	7221	1	0		(2)	x
29218	7222	1	0		(2)	x
29219	7223	1	0		(2)	x
29220	7224	1	0		(2)	x
29221	7225	1	0		(1)	
29222	7226	1	0		(1)	
29223	7227	1	0		(1)	
29224	7228	1	0		(1)	

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(20 of 29)

29225	7229	1	0		(1)	
29226	722A	1	Deactivated instantaneous Short-circuit Alarm P. (li=lcw)		(1)	
29227	722B	1	0		(1)	
29228	722C	1	Deactivated Earth Alarm P.(lg=OFF)		(1)	
29229	722D	1	0		(1)	
29230	722E	1	Deactivated Overload Alarm P. (only magnetic)		(1)	
29231	722F	1	Alarm P. delayable short-circuit deactivated (Im=10In)		(1)	

REMARKS:

(1)	The information shown here "restores" itself when the condition that has generated it no longer applies
(2)	<p>The information shown here applies even when the condition generating it has disappeared. the "restore" conditions can be (equivalent, alternatively):</p> <ul style="list-style-type: none"> •the measurement of the Closed Status of the Device •the measurement of a minimum current value on the phases. <p>The Switch Status Functionality is therefore not binding (Example : if the switch is returned to Open => the Tripped relay notification must be kept until the restore condition kicks in).</p>
(3)	<p>It indicates that an anomaly has been detected in the "Dual Setting" settings, in particular one or more levels have been found to be greater than the corresponding "Main Setting".</p>

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29194	720A	1	Overload Tripped relay P counter (total) (no indication of phase)			x
29195	720B	1	Delayable Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29196	720C	1	Instantaneous Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29197	720D	1	Device protection Tripped relay counter (total) ("III element", no indications of phase)			x
29198	720E	1	Earth Tripped relay P counter (total)			x
29199	720F	1	Overtemperature Tripped relay P counter (total)			x
29200	7210	10	Last Release Data Buffer		(2),(9)	x
29210	721A	10	Last 20 (most recent) Releases Data Buffer		(2),(9)	x
29220	7224	10	Last 20 Releases Data Buffer		(2),(9)	x
29230	722E	10	Last 20 Releases Data Buffer		(2),(9)	x
29240	7238	10	Last 20 Releases Data Buffer		(2),(9)	x
29250	7242	10	Last 20 Releases Data Buffer		(2),(9)	x
29260	724C	10	Last 20 Releases Data Buffer		(2),(9)	x
29270	7256	10	Last 20 Releases Data Buffer		(2),(9)	x
29280	7260	10	Last 20 Releases Data Buffer		(2),(9)	x
29290	726A	10	Last 20 Releases Data Buffer		(2),(9)	x
29300	7274	10	Last 20 Releases Data Buffer		(2),(9)	x

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(21 of 29)

29310	727E	10	Last 20 Releases Data Buffer		(2),(9)	x
29320	7288	10	Last 20 Releases Data Buffer		(2),(9)	x
29330	7292	10	Last 20 Releases Data Buffer		(2),(9)	x
29340	729C	10	Last 20 Releases Data Buffer		(2),(9)	x
29350	72A6	10	Last 20 Releases Data Buffer		(2),(9)	x
29360	72B0	10	Last 20 Releases Data Buffer		(2),(9)	x
29370	72BA	10	Last 20 Releases Data Buffer		(2),(9)	x
29380	72C4	10	Last 20 Releases Data Buffer		(2),(9)	x
29390	72CE	10	Last 20 releases data buffer		(2),(9)	x
29400	72D8	10	Last 20 releases data buffer (less recent)		(2),(9)	x
29410	72E2	1	G1 ("main setting")- Overload: levels	[A]/[%]	(1),(3)	x
29411	72E3	1	G1 - Overload: Times	[msec]	(1)	x
29412	72E4	1	G1 - Overload: options		(3)	x
29413	72E5	2	G1 - delayable short-circuit: levels	[A]/[%]	(1),(4)	x
29415	72E7	1	G1 - delayable short-circuit: Times	[msec]	(1)	x
29416	72E8	1	G1 - delayable short-circuit: options		(4)	x
29417	72E9	2	G1 - instantaneous short-circuit: levels	[A]/[%]	(1),(5)	x
29419	72EB	1	G1 - instantaneous short-circuit: Times	[msec]	(1)	x
29420	72EC	1	G1 - instantaneous short-circuit: options		(5)	x
29421	72ED	2	G1 - device protection: levels	[A]	(1),(6)	x
29423	72EF	1	G1 - device protection: Times	[msec]	(1)	x
29424	72F0	1	G1 - device protection: options		(6)	x
29425	72F1	1	G1 - earth: levels	[A]/[%]	(1),(7)	x
29426	72F2	1	G1 - earth: times	[msec]	(1)	x
29427	72F3	1	G1 - earth: options		(7)	x
29428	72F4	1	0x8000	[%]	(1),(8)	x
29429	72F5	1	0x8000	[msec]	(1)	x
29430	72F6	1	0x8000		(8)	x
29431	72F7	1	G1 - overtemperature protection: levels	[°C]	(1)	x

REMARKS:

(1)	Expressed in "numeric coding"
	<p>DATA BUFFER Last releases: by reading all the ten words the values are returned in the values indicated below</p> <ul style="list-style-type: none"> •WORD9 : chronology, "year" (MSB) and "month" (LSB); it is the word that is returned first of all in the 10 – MSW block. •WORD8: chronology, "day" (MSB) and "time" (LSB) •WORD7: chronology, "minutes" (MSB) and "seconds" (LSB) •WORD6 and 5: current interrupted or temperature ("numeric coding" , [mA] or [°C], WORD6 is returned before WORD5) •WORD4: detail of protection settings that has caused the Trip (reply read only register of the "levels" type, see note (1)) •WORD3: detail of protection settings that has caused the Trip (reply Read Only register of the "Times" type , see note (1)) •WORD2: detail of protection settings that has caused the Trip (reply Read Only register of the "options" type, see note (3)to(6)) •WORD1: reply Read Only Bit of the "Tripped" type •WORD0: reply Read Only Bit of the "Tripped" type <p>N.B.: WORDs FROM 2 to 4 constitute a single datum and must be read and written in a block. The same applies to WORD 5 and 6, for WORD 7-8-9 and for WORD 0-1.</p> <p>WORD 1:</p> <ul style="list-style-type: none"> •Bit0 Instantaneous short-circuit relay tripped neutral •Bit1 Device Protection Relay Tripped phase 1 ("III element") •Bit2 Device Protection Relay Tripped phase 2 ("III element") •Bit3 Device Protection Relay Tripped phase 3 ("III element") •Bit4 Device Protection Relay Tripped neutral ("III element") •Bit5 Tripped relay in "Main Setting" Mode •Bit6 Tripped relay in "Dual Setting" Mode •Bit7 Tripped relay in "MEM=OFF" Mode on Overload •Bit8 Tripped relay in "I₂t=k" mode on delayable short-circuit •Bit 9 Tripped relay in "Logic Selectivity" mode on delayable short-circuit (intervention performed with Tm Delay) •Bit 10 Tripped relay in "Logic Selectivity" Mode on device protection (intervention carried out with Delay •SEL=High) •Bit 11 Tripped relay in "I₂t=k" Mode on earth •Bit 12 Earth leakage Tripped •Bit 13 ND •Bit 14 ND •Bit 15 Test Tripped (if Electronic Test only Bit15, if Earth Leakeage Test Bit15 and Bit12) <p>WORD 0:</p> <ul style="list-style-type: none"> •Bit0 Overload Tripped relay P. (no indication of phase) •Bit1 Short-circuit Tripped relay P. (no indications of phase) •Bit2 Device Protection Tripped relay ("III element", no indications of phase) •Bit3 Earth Tripped relay P. •Bit4 Overtemperature Tripped relay P. •Bit5 Overload phase 1 Tripped relay P. •Bit6 Overload phase 2 Tripped relay P. •Bit7 Overload phase 3 Tripped relay P. •Bit8 Overload neutral Tripped relay P. •Bit9 Delayable short-circuit phase 1 Tripped relay P. •Bit10 Delayable short-circuit phase 2 Tripped relay P. •Bit11 Delayable short-circuit phase 3 Tripped relay P. •Bit12 Delayable short-circuit neutral Tripped relay P. •Bit13 Instantaneous short-circuit phase 1 Tripped relay •Bit14 Instantaneous short-circuit Tripped relay phase 2 •Bit15 Instant short-circuit phase 3 Tripped relay
(2)	

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(23 of 29)

(3)	Overload options •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)%In(0) •Bit4 to 2=I _{2t} =k MEM OFF(001)/I _{2t} =k MEM ON(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I _{2t} , multiple of I _r)
(4)	Delayable short-circuit options •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)%Ir(0) •Bit4 to 2=curve t=k(001)/I _{2t} =k(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I _{2t} , multiple of I _r)
(5)	Instantaneous short-circuit options •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)%In(0) •Bit4 to 2=curve t=k(001)/I _{2t} =k(000)/Not Defined(111) •Bit5= absolute val. divided by 10(1)/absolute value(0) •Bit7 to 6= "0" •Bit15 to 8=work point for curve I _{2t} , multiple of In)
(6)	Device Protection options •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)%In(0) •Bit4 to 2= "0" •Bit5= absolute val. divided by 10(1)/absolute value(0)
(7)	Earth Options •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)%In(0) •Bit4 to 2=curve t=k(001)/I _{2t} =k(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I _{2t} , multiple of I _g)
(8)	Neutral options •Bit0=disabled(1)/active(0) •Bit1="0" (%phase) •Bit4 to 2="0" (curve phase) •Bit7 to 5= "0" •Bit15 to 8="0")
(9)	If number of faults < 20, fill the chronology word with 0x0000

[9] - 3-Phase Elect Proct S 4P (Three-phase ("3P+N") Electrical Protection Functionality) - STANDARD

RETURN TO TABLE OF MAPS

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	Overload Prealarm (>threshold I1)		(1)	
29185	7201	1	Overload alarm (>thresholdI2)		(1)	
29186	7202	1	0		(1)	
29187	7203	1	0		(1)	
29188	7204	1	Alarm 1 Overtemperature (>threshold T)		(1)	
29189	7205	1	0		(1)	
29190	7206	1	0		(1)	
29191	7207	1	0		(1)	
29192	7208	1	Alarm 2 Overtemperature (>threshold2)		(1)	
29193	7209	1	Overload Tripped relay P. (no indication of phase)		(2)	x
29194	720A	1	Short-circuit Tripped relay P. (no indications of phase)		(2)	x
29195	720B	1	Device Protection Tripped relay ("III element", no indications of phase)		(2)	x
29196	720C	1	Earth Tripped relay P.		(2)	x
29197	720D	1	Tripped relay P. Overtemperature		(2)	x
29198	720E	1	Phase 1 Overload Tripped relay P.		(2)	x
29199	720F	1	Phase Overload Tripped relay P 2		(2)	x
29200	7210	1	Phase Overload Tripped relay P 3		(2)	x
29201	7211	1	Overload Tripped relay P neutral		(2)	x
29202	7212	1	Tripped relay P. delayable short-circuit phase 1		(2)	x
29203	7213	1	Delayable Short-circuit Tripped relay P phase 2		(2)	x
29204	7214	1	Delayable Short-circuit Tripped relay P phase 3		(2)	x
29205	7215	1	Delayable Short-circuit Tripped relay P neutral		(2)	x
29206	7216	1	Instantaneous Short-circuit Tripped relay phase 1		(2)	x
29207	7217	1	Instantaneous Short-circuit Tripped relay phase 2		(2)	x
29208	7218	1	Instantaneous Short-circuit Tripped relay phase 3		(2)	x
29209	7219	1	Instantaneous Short-circuit Tripped relay P neutral		(2)	x
29210	721A	1	Device Tripped relay protection phase 1("III element")		(2)	x
29211	721B	1	Device Tripped relay protection phase 2 ("III element")		(2)	x
29212	721C	1	Device Tripped relay Protection phase 3 ("III element")		(2)	x
29213	721D	1	Tripped relay device protection neutral("III element")		(2)	x
29214	721E	1	0		(2)	x
29215	721F	1	0		(2)	x
29216	7220	1	0		(2)	x
29217	7221	1	0		(2)	x
29218	7222	1	0		(2)	x
29219	7223	1	0		(2)	x
29220	7224	1	0		(2)	x

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(25 of 29)

29221	7225	1	Deactivated Neutral Protection Alarm (neutral=non protected)		(1)	
29222	7226	1	0		(1)	
29223	7227	1	0		(1)	
29224	7228	1	0		(1)	
29225	7229	1	0		(1)	
29226	722A	1	Deactivated instantaneous Short-circuit Alarm P. (li=lcw)		(1)	
29227	722B	1	0		(1)	
29228	722C	1	Deactivated Earth Alarm P.(lg=OFF)		(1)	
29229	722D	1	0		(1)	
29230	722E	1	Deactivated Overload Alarm P. (only magnetic)		(1)	
29231	722F	1	Alarm P. delayable short-circuit deactivated (Im=10In)			

REMARKS:

(1)	The information shown here "restores" itself when the condition that has generated it no longer applies
(2)	<p>The information shown here applies even when the condition generating it has disappeared. the "restore" conditions can be (equivalent, alternatively):</p> <ul style="list-style-type: none"> •the measurement of the Closed Status of the Device •the measurement of a minimum current value on the phases. <p>The Switch Status Functionality is therefore not binding (Example : if the switch is returned to Open => the Tripped relay notification must be kept until the restore condition kicks in).</p>
(3)	It indicates that an anomaly has been detected in the "Dual Setting" settings, in particular one or more levels have been found to be greater than the corresponding "Main Setting".

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29194	720A	1	Overload Tripped relay P counter (total) (no indication of phase)			x
29195	720B	1	Delayable Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29196	720C	1	Instantaneous Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29197	720D	1	Device protection Tripped relay counter (total) ("III element", no indications of phase)			x
29198	720E	1	Earth Tripped relay P counter (total)			x
29199	720F	1	Overtemperature Tripped relay P counter (total)			x
29200	7210	10	Last Release Data Buffer		(2),(9)	x
29210	721A	10	Last 20 (most recent) Releases Data Buffer		(2),(9)	x
29220	7224	10	Last 20 Releases Data Buffer		(2),(9)	x
29230	722E	10	Last 20 Releases Data Buffer		(2),(9)	x
29240	7238	10	Last 20 Releases Data Buffer		(2),(9)	x
29250	7242	10	Last 20 Releases Data Buffer		(2),(9)	x
29260	724C	10	Last 20 Releases Data Buffer		(2),(9)	x
29270	7256	10	Last 20 Releases Data Buffer		(2),(9)	x
29280	7260	10	Last 20 Releases Data Buffer		(2),(9)	x
29290	726A	10	Last 20 Releases Data Buffer		(2),(9)	x
29300	7274	10	Last 20 Releases Data Buffer		(2),(9)	x

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(26 of 29)

29310	727E	10	Last 20 Releases Data Buffer		(2),(9)	x
29320	7288	10	Last 20 Releases Data Buffer		(2),(9)	x
29330	7292	10	Last 20 Releases Data Buffer		(2),(9)	x
29340	729C	10	Last 20 Releases Data Buffer		(2),(9)	x
29350	72A6	10	Last 20 Releases Data Buffer		(2),(9)	x
29360	72B0	10	Last 20 Releases Data Buffer		(2),(9)	x
29370	72BA	10	Last 20 Releases Data Buffer		(2),(9)	x
29380	72C4	10	Last 20 Releases Data Buffer		(2),(9)	x
29390	72CE	10	Last 20 releases data buffer		(2),(9)	x
29400	72D8	10	Last 20 releases data buffer (less recent)		(2),(9)	x
29410	72E2	1	G1 ("main setting")- Overload: levels	[A]/[%]	(1),(3)	x
29411	72E3	1	G1 - Overload: Times	[msec]	(1)	x
29412	72E4	1	G1 - Overload: options		(3)	x
29413	72E5	2	G1 - delayable short-circuit: levels	[A]/[%]	(1),(4)	x
29415	72E7	1	G1 - delayable short-circuit: Times	[msec]	(1)	x
29416	72E8	1	G1 - delayable short-circuit: options		(4)	x
29417	72E9	2	G1 - instantaneous short-circuit: levels	[A]/[%]	(1),(5)	x
29419	72EB	1	G1 - instantaneous short-circuit: Times	[msec]	(1)	x
29420	72EC	1	G1 - instantaneous short-circuit: options		(5)	x
29421	72ED	2	G1 - device protection: levels	[A]	(1),(6)	x
29423	72EF	1	G1 - device protection: Times	[msec]	(1)	x
29424	72F0	1	G1 - device protection: options		(6)	x
29425	72F1	1	G1 - earth: levels	[A]/[%]	(1),(7)	x
29426	72F2	1	G1 - earth: times	[msec]	(1)	x
29427	72F3	1	G1 - earth: options		(7)	x
29428	72F4	1	G1 - neutral protection: levels	[%]	(1),(8)	x
29429	72F5	1	0x8000	[msec]	(1)	x
29430	72F6	1	G1 - neutral protection: options		(8)	x
29431	72F7	1	G1 - overtemperature protection: levels	[°C]	(1)	x

REMARKS:

(1)	<p>Expressed in "numeric coding"</p> <p>DATA BUFFER Last releases: by reading all the ten words the values are returned in the values indicated below</p> <ul style="list-style-type: none"> •WORD9 : chronology, "year" (MSB) and "month" (LSB); it is the word that is returned first of all in the 10 – MSW block. •WORD8: chronology, "day" (MSB) and "time" (LSB) •WORD7: chronology, "minutes" (MSB) and "seconds" (LSB) •WORD6 and 5: current interrupted or temperature ("numeric coding" , [mA] or [°C], WORD6 is returned before WORD5) •WORD4: detail of protection settings that has caused the Trip (reply read only register of the "levels" type, see note (1)) •WORD3: detail of protection settings that has caused the Trip (reply Read Only register of the "Times" type , see note (1)) •WORD2: detail of protection settings that has caused the Trip (reply Read Only register of the "options" type, see note (3)to(6)) •WORD1: reply Read Only Bit of the "Tripped" type •WORD0: reply Read Only Bit of the "Tripped" type <p>N.B.: WORDs FROM 2 to 4 constitute a single datum and must be read and written in a block. The same applies to WORD 5 and 6, for WORD 7-8-9 and for WORD 0-1.</p> <p>WORD 1:</p> <ul style="list-style-type: none"> •Bit0 Instantaneous short-circuit relay tripped neutral •Bit1 Device Protection Relay Tripped phase 1 ("III element") •Bit2 Device Protection Relay Tripped phase 2 ("III element") •Bit3 Device Protection Relay Tripped phase 3 ("III element") •Bit4 Device Protection Relay Tripped neutral ("III element") •Bit5 Tripped relay in "Main Setting" Mode •Bit6 Tripped relay in "Dual Setting" Mode •Bit7 Tripped relay in "MEM=OFF" Mode on Overload •Bit8 Tripped relay in "I₂t=k" mode on delayable short-circuit •Bit 9 Tripped relay in "Logic Selectivity" mode on delayable short-circuit (intervention performed with Tm Delay) •Bit 10 Tripped relay in "Logic Selectivity" Mode on device protection (intervention carried out with Delay •SEL=High) •Bit 11 Tripped relay in "I₂t=k" Mode on earth •Bit 12 Earth leakage Tripped •Bit 13 ND •Bit 14 ND •Bit 15 Test Tripped (if Electronic Test only Bit15, if Earth Leakeage Test Bit15 and Bit12) <p>WORD 0:</p> <ul style="list-style-type: none"> •Bit0 Overload Tripped relay P. (no indication of phase) •Bit1 Short-circuit Tripped relay P. (no indications of phase) •Bit2 Device Protection Tripped relay ("III element", no indications of phase) •Bit3 Earth Tripped relay P. •Bit4 Overtemperature Tripped relay P. •Bit5 Overload phase 1 Tripped relay P. •Bit6 Overload phase 2 Tripped relay P. •Bit7 Overload phase 3 Tripped relay P. •Bit8 Overload neutral Tripped relay P. •Bit9 Delayable short-circuit phase 1 Tripped relay P. •Bit10 Delayable short-circuit phase 2 Tripped relay P. •Bit11 Delayable short-circuit phase 3 Tripped relay P. •Bit12 Delayable short-circuit neutral Tripped relay P. •Bit13 Instantaneous short-circuit phase 1 Tripped relay •Bit14 Instantaneous short-circuit Tripped relay phase 2 •Bit15 Instant short-circuit phase 3 Tripped relay
(2)	

"AIR CIRCUIT BREAKER ACB" MAPS AND COMMANDS
(28 of 29)

(3)	Overload options •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)%In(0) •Bit4 to 2=I _{2t} =k MEM OFF(001)/I _{2t} =k MEM ON(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I _{2t} , multiple of I _r)
(4)	Delayable short-circuit options •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)%Ir(0) •Bit4 to 2=curve t=k(001)/I _{2t} =k(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I _{2t} , multiple of I _r)
(5)	Instantaneous short-circuit options •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)%In(0) •Bit4 to 2=curve t=k(001)/I _{2t} =k(000)/Not Defined(111) •Bit5= absolute val. divided by 10(1)/absolute value(0) •Bit7 to 6= "0" •Bit15 to 8=work point for curve I _{2t} , multiple of In)
(6)	Device Protection options •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)%In(0) •Bit4 to 2= "0" •Bit5= absolute val. divided by 10(1)/absolute value(0)
(7)	Earth Options •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)%In(0) •Bit4 to 2=curve t=k(001)/I _{2t} =k(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I _{2t} , multiple of Ig)
(8)	Neutral options •Bit0=disabled(1)/active(0) •Bit1="0" (%phase) •Bit4 to 2="0" (curve phase) •Bit7 to 5= "0" •Bit15 to 8="0")
(9)	If number of faults < 20, fill the chronology word with 0x0000

[10] - Thermal Measurement B (Single Channel Thermal Measurement Functionality ("from IC Probe") - BASE

RETURN TO
TABLE OF MAPS

Read Only Bit - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
32768	8000	1	Sensor 1 temperature value	[°C]	(1)	

REMARKS:

(1)	Expressed in "numeric coding"
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"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600 S10" MAPS AND COMMANDS

Revision of Support maps and Commands

REVISION: 1.0.0
DATE: 04/07/2022

Revision of Support maps and Commands for MCCB DPX³ 630/1600 S10 devices

- DPX³ 630 S10

REVISION: 1.0.1
DATE: 01/09/2023

- DPX³ 1600 S10

REVISION: 1.0.3
DATE: 01/09/2023

Product involved:

- DPX³ 630/1600 S10

Products associated:

PRODUCT ITEMS	DESCRIPTION	OBJECT CODE
422820; 422821; 422822; 422823; 422824; 422825; 422826; 422827; 422828; 422829; 422830; 422831; 422832; 422833; 422834; 422835; 422836; 422837; 422838; 422839; 422840; 422841; 422842; 422843; 422844; 422845; 422846; 422847; 422848; 422849; 422850; 422851; 422852; 422853; 422854; 422855; 422856; 422857; 422858; 422859	All circuit breakers DPX ³ 630 with selective electronic S10, and earth fault protection	0x1209
422860; 422861; 422862; 422863; 422864; 422865; 422866; 422867; 422868; 422869; 422870; 422871; 422872; 422873; 422874; 422875; 422876; 422877; 422878; 422879; 422880; 422881; 422882; 422883; 422884; 422885; 422886; 422887; 422888; 422889; 422890; 422891; 422892; 422893; 422894; 422895; 422896; 422897; 422898; 422899	All circuit breakers DPX ³ 630 with selective electronic S10, and earth fault protection With measure function	0x120A
422920; 422921; 422922; 422923; 422924; 422925; 422926; 422927; 422928; 422929; 422930; 422931; 422932; 422933; 422934; 422935; 422936; 422937; 422938; 422939; 422940; 422941; 422942; 422943; 422944; 422945; 422946; 422947; 422948; 422949; 422950; 422951; 422952; 422953; 422955; 422956; 422957; 422958; 422900; 422901; 422902; 422903; 422904; 422905; 422906; 422907	All circuit breakers DPX ³ 1600 with selective electronic S10, and earth fault protection	0x1109
422960; 422961; 422962; 422963; 422964; 422965; 422966; 422967; 422968; 422969; 422970; 422971; 422972; 422973; 422974; 422975; 422976; 422977; 422978; 422979; 422980; 422981; 422982; 422983; 422984; 422985; 422986; 422987; 422988; 422989; 422990; 422991; 422992; 422993; 422995; 422996; 422997; 422998; 422908; 422909; 422910; 422911; 422912; 422913; 422914; 422915	All circuit breakers DPX ³ 1600 with selective electronic S10, and earth fault protection With measure function	0x110A

Standard function codes

COMMUNICATION CHANNEL → COMMANDS ↓	EMS	USB	REMARKS
Read discrete inputs (0x02)	x	x	
Read holding register (0x03)	x	x	
Read input register (0x04)	x	x	
Write multiple coils (0x0F)	x	x	

Possible maps per configurations

OBJECT CODE →		0x1209 / 0x1109		0x120A / 0x110A	
CONFIGURATION →		3 poles	4 poles	3 poles	4 poles
MAP↓	N°				
Switch Status B	[1]*	X	X	X	X
3-Phase Elect Proct S 3P	[2]*	X		X	
3-Phase Measure E 3P	[3]*	X			
3-Phase Elect Proct S 4P	[4]*		X		X
3-Phase Measure E 4P	[5]*		X		
3-Phase Measure M 3P	[6]*			X	
3-Phase Measure M 4P	[7]*				X
Thermal Measurement B	[8]*	X	X	X	X

* Maps from [1] to [8] are identical to the corresponding ones for DPX³ 250HP. However, for easy of consultation, they are listed here also.

Map lists

[N°1] - Switch Status B (switch Status Functionality) - BASE

[RETURN TO
TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	Open		(1)	
16385	4001	1	Closed		(1)	
16386	4002	1	Single tripped switch/ Tripped group of		(1),(2)	
16387	4003	1	0		(1)	
16388	4004	1	0		(1)	

REMARKS:

(1)	the information shown here "autorestores" when the condition that has generated it is lost (E.G.: TRIPPED is the faithful response of the device's mechanical contact Where there is a MAN/AUT operating mode selector switch, this notification can only persist if MAN is set);
(5)	if this functionality is used in switch group tripped mode (panel tripped), the bit contains the OR of the tripped of the switches belonging to the group.

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	0			X

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	0x8000			X
16385	4001	1	Intervention Meter (total, cannot be reset at zero by the customer)			X
16386	4002	1	Maximum Manoeuvre Number (cannot			X
16387	4003	1	Switch Features – Rated current	[A]	(1)	X
16388	4004	1	Switch features – Type/Poles		(2)	X
16389	4005	1	Switch features – Breaking capacity	[kA]/100	(3)	X

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
 (4 of 43)

REMARKS:

(1)	RATED CURRENT (numeric coding, [A])
(2)	TYPE/POLES •MSB – DEVICE TYPE bit 0=insulator (0)/int. Automatic (1), bit 1=repulsive switch (0)/ not repulsive switch (1) bit 7-2= "0" •LSB – POLES bit 0 to 3: Number of poles: numeric value (1 to 4) bit 4 Neutral position (left(1)/right(0)) bit 5 :Neutral external (1) (only 3 poles) bit 7-6= "0"
(3)	BREAKING CAPACITY: (numeric coding, [kA/100]. Example: 4,5kA is coded in "hundredths of kA", therefore 4.5 becomes 450)

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	0x8000		(1)	X

REMARKS:

(1)	bit 0: Open Status active high = 0, input active low = 1 (default = 0) bit 1: Closed Status active high = 0, input active low = 1 (default = 0) bit 2: Tripped Status active high = 0, input active low = 1 (default = 0) bit 3: Alarm on Status Open active = 1, deactivated = 0 (default = 0) bit 4: Alarm on Status Closed active = 1, deactivated = 0 (default = 0) bit 5: Alarm on Tripped Status active = 1, deactivated = 0 (default = 1) bit 15-6 : Not used
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[N°2] - 3-Phase Elect Proct S 3P

RETURN TO
TABLE OF MAPS

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	Overload Prealarm (>threshold I1)		(1)	
29185	7201	1	Overload alarm (>threshold I2)		(1)	
29186	7202	1	0		(1)	
29187	7203	1	0		(1)	
29188	7204	1	Alarm 1 Overtemperature (>threshold T)		(1)	
29189	7205	1	0		(1)	
29190	7206	1	0		(1)	
29191	7207	1	0		(1)	
29192	7208	1	0		(1)	
29193	7209	1	Overload Tripped relay P. (no indication of phase)		(2)	x
29194	720A	1	Short-circuit Tripped relay P. (no indications of phase)		(2)	x
29195	720B	1	Device Protection Tripped relay ("III element", no indications of phase)		(2)	x
29196	720C	1	Earth Tripped relay P.		(2)	x
29197	720D	1	Tripped relay P. Overtemperature		(2)	x
29198	720E	1	0		(2)	x
29199	720F	1	0		(2)	x
29200	7210	1	0		(2)	x
29201	7211	1	0		(2)	x
29202	7212	1	0		(2)	x
29203	7213	1	0		(2)	x
29204	7214	1	0		(2)	x
29205	7215	1	0		(2)	x
29206	7216	1	0		(2)	x
29207	7217	1	0		(2)	x
29208	7218	1	0		(2)	x
29209	7219	1	0		(2)	x
29210	721A	1	0		(2)	x
29211	721B	1	0		(2)	x
29212	721C	1	0		(2)	x
29213	721D	1	0		(2)	x
29214	721E	1	0		(2)	x
29215	721F	1	0		(2)	x
29216	7220	1	0		(2)	x
29217	7221	1	0		(2)	x
29218	7222	1	0		(2)	x
29219	7223	1	0		(2)	x
29220	7224	1	0		(2)	x
29221	7225	1	0		(1)	
29222	7226	1	0		(1)	
29223	7227	1	0		(1)	
29224	7228	1	0		(1)	
29225	7229	1	0		(1)	
29226	722A	1	0		(1)	
29227	722B	1	0		(1)	
29228	722C	1	0		(1)	
29229	722D	1	0		(1)	
29230	722E	1	0		(1)	
29231	722F	1	0		(1)	
29232	7230	1	0		(3)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(6 of 43)

REMARKS:

(1)	The information shown here "restores" itself when the condition that has generated it no longer applies
(2)	<p>The information shown here applies even when the condition generating it has disappeared. the "restore" conditions can be (equivalent, alternatively):</p> <ul style="list-style-type: none"> •the measurement of the Closed Status of the Device •the measurement of a minimum current value on the phases. <p>The Switch Status Functionality is therefore not binding (Example : if the switch is returned to Open => the Tripped relay notification must be kept until the restore condition kicks in).</p>
(3)	It indicates that an anomaly has been detected in the "Dual Setting" settings, in particular one or more levels have been found to be greater than the corresponding "Main Setting".

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	0			
29185	7201	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	2	0x8000	[A ²]	(1)	
29186	7202	2	0x8000	[A ²]	(1)	
29188	7204	2	0x8000	[A ²]	(1)	
29190	7206	2	0x8000	[A ²]	(1)	
29192	7208	2	0x8000	[A ²]	(1)	
29194	720A	1	Overload Tripped relay P counter (total) (no indication of phase)			x
29195	720B	1	Delayable Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29196	720C	1	Instantaneous Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29197	720D	1	Device protection Tripped relay counter (total) ("III element", no indications of phase)			x
29198	720E	1	Earth Tripped relay P counter (total)			x
29199	720F	1	Overtemperature Tripped relay P counter (total)			x
29200	7210	10	Last Release Data Buffer		(2), (9)	x
29210	721A	10	Last 20 (most recent) Releases Data Buffer		(2), (9)	x
29220	7224	10	Last 20 Releases Data Buffer		(2), (9)	x
29230	722E	10	Last 20 Releases Data Buffer		(2), (9)	x
29240	7238	10	Last 20 Releases Data Buffer		(2), (9)	x
29250	7242	10	Last 20 Releases Data Buffer		(2), (9)	x
29260	724C	10	Last 20 Releases Data Buffer		(2), (9)	x
29270	7256	10	Last 20 Releases Data Buffer		(2), (9)	x
29280	7260	10	Last 20 Releases Data Buffer		(2), (9)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(7 of 43)

29290	726A	10	Last 20 Releases Data Buffer		(2), (9)	x
29300	7274	10	Last 20 Releases Data Buffer		(2), (9)	x
29310	727E	10	0x8000		(2), (9)	x
29320	7288	10	0x8000		(2), (9)	x
29330	7292	10	0x8000		(2), (9)	x
29340	729C	10	0x8000		(2), (9)	x
29350	72A6	10	0x8000		(2), (9)	x
29360	72B0	10	0x8000		(2), (9)	x
29370	72BA	10	0x8000		(2), (9)	x
29380	72C4	10	0x8000		(2), (9)	x
29390	72CE	10	0x8000		(2), (9)	x
29400	72D8	10	0x8000		(2), (9)	x
29410	72E2	1	G1 ("main setting")- Overload: levels	[A]/[%]	(1), (3)	x
29411	72E3	1	G1 - Overload: Times	[msec]	(1)	x
29412	72E4	1	G1 - Overload: options		(3)	x
29413	72E5	2	G1 - delayable short-circuit: levels	[A]/[%]	(1), (4)	x
29415	72E7	1	G1 - delayable short-circuit: Times	[msec]	(1)	x
29416	72E8	1	G1 - delayable short-circuit: options		(4)	x
29417	72E9	2	G1 - instantaneous short-circuit: levels	[A]/[%]	(1), (5)	x
29419	72EB	1	G1 - instantaneous short-circuit: Times	[msec]	(1)	x
29420	72EC	1	G1 - instantaneous short-circuit: options		(5)	x
29421	72ED	2	G1 - device protection: levels	[A]	(1), (6)	x
29423	72EF	1	G1 - device protection: Times	[msec]	(1)	x
29424	72F0	1	G1 - device protection: options		(6)	x
29425	72F1	1	G1 - earth: levels	[A]/[%]	(1), (7)	x
29426	72F2	1	G1 - earth: times	[msec]	(1)	x
29427	72F3	1	G1 - earth: options		(7)	x
29428	72F4	1	0x8000	[%]	(1), (8)	x
29429	72F5	1	0x8000	[msec]	(1)	x
29430	72F6	1	0x8000		(8)	x
29431	72F7	1	G1 - overtemperature protection: levels	[°C]	(1)	x
29432	72F8	1	0x8000	[msec]	(1)	x
29433	72F9	1	0x8000	[A]/[%]	(1), (3)	x
29434	72FA	1	0x8000	[msec]	(1)	x
29435	72FB	2	0x8000	[A]/[%]	(1), (4)	x
29437	72FD	1	0x8000	[msec]	(1)	x
29438	72FE	2	0x8000	[A]/[%]	(1), (5)	x
29440	7300	1	0x8000	[msec]	(1)	x
29441	7301	1	0x8000	[A]/[%]	(1), (7)	x
29442	7302	1	0x8000	[msec]	(1)	x

REMARKS:

(1)	Expressed in "numeric coding"
(2)	<p>DATA BUFFER Last releases: by reading all the ten words the values are returned in the values indicated below</p> <ul style="list-style-type: none"> •WORD9 : chronology, "year" (MSB) and "month" (LSB); it is the word that is returned first of all in the 10 – MSW block. •WORD8: chronology, "day" (MSB) and "time" (LSB) •WORD7: chronology, "minutes" (MSB) and "seconds" (LSB) •WORD6 and 5: current interrupted or temperature ("numeric coding" , [mA] or [°C], WORD6 is returned before WORD5) •WORD4: detail of protection settings that has caused the Trip (reply read only register of the of the "levels" type, see note (1)) •WORD3: detail of protection settings that has caused the Trip (reply Read Only register of the "Times" type , see note (1)) •WORD2: detail of protection settings that has caused the Trip (reply Read Only register of the "options" type, see note (3)to(6)) •WORD1: reply Read Only Bit of the "Tripped" type •WORD0: reply Read Only Bit of the "Tripped" type <p>N.B.: WORDs FROM 2 to 4 constitute a single datum and must be read and written in a block. The same applies to WORD 5 and 6, for WORD 7-8-9 and for WORD 0-1.</p> <p>WORD 1:</p> <ul style="list-style-type: none"> •Bit0 Instantaneous short-circuit relay tripped neutral •Bit1 Device Protection Relay Tripped phase 1 ("III element") •Bit2 Device Protection Relay Tripped phase 2 ("III element") •Bit3 Device Protection Relay Tripped phase 3 ("III element") •Bit4 Device Protection Relay Tripped neutral ("III element") •Bit5 Tripped relay in "Main Setting" Mode •Bit6 Tripped relay in "Dual Setting" Mode •Bit7 Tripped relay in "MEM=OFF" Mode on Overload •Bit8 Tripped relay in "I_{2t}=k" mode on delayable short-circuit •Bit 9 Tripped relay in "Logic Selectivity" mode on delayable short-circuit (intervention performed with Tm Delay) •Bit 10 Tripped relay in "Logic Selectivity" Mode on device protection (intervention carried out with with Delay •SEL=High) •Bit 11 Tripped relay in "I_{2t}=k" Mode on earth •Bit 12 Earth leakage Tripped •Bit 13 ND •Bit 14 ND •Bit 15 Test Tripped (if Electronic Test only Bit15, if Earth Lekeage Test Bit15 and Bit12) <p>WORD 0:</p> <ul style="list-style-type: none"> •Bit0 Overload Tripped relay P. (no indication of phase) •Bit1 Short-circuit Tripped relay P. (no indications of phase) •Bit2 Device Protection Tripped relay ("III element", no indications of phase) •Bit3 Earth Tripped relay P. •Bit4 Overtemperature Tripped relay P. •Bit5 Overload phase 1 Tripped relay P. •Bit6 Overload phase 2 Tripped relay P. •Bit7 Overload phase 3 Tripped relay P. •Bit8 Overload neutral Tripped relay P. •Bit9 Delayable short-circuit phase 1 Tripped relay P. •Bit10 Delayable short-circuit phase 2 Tripped relay P. •Bit11 Delayable short-circuit phase 3 Tripped relay P. •Bit12 Delayable short-circuit neutral Tripped relay P. •Bit13 Instantaneous short-circuit phase 1 Tripped relay •Bit14 Instantaneous short-circuit Tripped relay phase 2 •Bit15 Instant short-circuit phase 3 Tripped relay
	Overload options

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(9 of 43)

(3)	<ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=I2t=k MEM OFF(001)/I2t=k MEM ON(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I2t, multiple of Ir)
(4)	<p>Delayable short-circuit options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*Ir(0) •Bit4 to 2=curve t=k(001)/I2t=k(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I2t, multiple of Ir)
(5)	<p>Instantaneous short-circuit options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=curve t=k(001)/I2t=k(000)/Not Defined(111) •Bit5= absolute val. divided by 10(1)/absolute value(0) •Bit7 to 6= "0" •Bit15 to 8=work point for curve I2t, multiple of In)
(6)	<p>Device Protection options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2= "0" •Bit5= absolute val. divided by 10(1)/absolute value(0)
(7)	<p>Earth Options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=curve t=k(001)/I2t=k(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I2t, multiple of Ig)
(8)	<p>Neutral options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1="0" (%phase) •Bit4 to 2="0" (curve phase) •Bit7 to 5= "0" •Bit15 to 8="0")
(9)	If number of faults < 20, fill the chronology word with 0x0000

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	0x8000	[sec]	(1)	X

REMARKS:

(1)	<p>"Dual Setting" Command Configuration</p> <ul style="list-style-type: none"> •Bit10 to 0=activation time ("default"=60 sec, "0"=infinite) •Bit11 to 15="0"
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[N°3] - 3-Phase Measure E 3P - EVOLVED

[RETURN TO
TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	0x8000	[A]	(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	0x8000	[V]	(2),(4)	
20495	500F	1	0x8000	[V]	(2),(4)	
20496	5010	1	0x8000	[V]	(2),(4)	
20497	5011	1	0x8000	[V]	(2),(4)	
20498	5012	1	0x8000	[V]	(2),(4)	
20499	5013	1	0x8000	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(11 of 43)

20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	0x8000	%	(2)	
20513	5021	1	0x8000	%	(2)	
20514	5022	1	0x8000	%	(2)	
20515	5023	1	0x8000	%	(2)	
20516	5024	1	0x8000	%	(2)	
20517	5025	1	0x8000	%	(2)	
20518	5026	1	0x8000	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	0x8000	[kW]	(1),(4)	
20523	502B	1	0x8000	[kvar]	(1),(4)	
20524	502C	1	0x8000	[kvar]	(1)	
20525	502D	1	0x8000	[kvar]	(2)	
20526	502E	1	0x8000	[kVA]	(1),(4)	
20527	502F	1	0x8000	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	0x8000	[Hz]/100	(1),(3)	
20530	5032	2	0x8000	[kWh]	(1)	x
20532	5034	2	0x8000	[kWh]	(2),(4)	x
20534	5036	2	0x8000	[kWh]	(2),(4)	x
20536	5038	2	0x8000	[kvarh]	(1)	x
20538	503A	2	0x8000	[kvarh]	(2),(4)	x
20540	503C	2	0x8000	[kvarh]	(2),(4)	x
20542	503E	2	0x8000	[kVAh]	(2)	x
20544	5040	1	0x8000	[kW]	(1),(4)	
20545	5041	1	0x8000	[kW]	(1),(4)	
20546	5042	1	0x8000	[kW]	(1),(4)	
20547	5043	1	0x8000	[kvar]	(1),(4)	
20548	5044	1	0x8000	[kvar]	(1),(4)	
20549	5045	1	0x8000	[kvar]	(1),(4)	
20550	5046	1	0x8000	[kvar]	(1)	
20551	5047	1	0x8000	[kvar]	(1)	
20552	5048	1	0x8000	[kvar]	(1)	
20553	5049	1	0x8000	[kvar]	(2)	
20554	504A	1	0x8000	[kvar]	(2)	
20555	504B	1	0x8000	[kvar]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x8000	[kWh]	(2),(4)	x
20567	5057	2	0x8000	[kWh]	(2),(4)	x
20569	5059	2	0x8000	[kWh]	(2),(4)	x
20571	505B	2	0x8000	[kWh]	(2),(4)	x
20573	505D	2	0x8000	[kWh]	(2),(4)	x
20575	505F	2	0x8000	[kWh]	(2),(4)	x
20577	5061	2	0x8000	[kvarh]	(2),(4)	x
20579	5063	2	0x8000	[kvarh]	(2),(4)	x
20581	5065	2	0x8000	[kvarh]	(2),(4)	x
20583	5067	2	0x8000	[kvarh]	(2),(4)	x
20585	5069	2	0x8000	[kvarh]	(2),(4)	x
20587	506B	2	0x8000	[kvarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(12 of 43)

20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kvar]	(1)	x
20600	5078	1	0x8000	[kvar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x
20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(13 of 43)

20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x
20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(14 of 43)

20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50FO	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(5)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(4)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x8000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	Current multiplication factor		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x8000		(1)(4)	x
20496	5010	1	0x8000	sec.	(1)	x
20497	5011	1	0x8000	0.1 %	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x8000		(1)(4)	x
20502	5016	1	0x8000	sec.	(1)	x
20503	5017	1	0x8000	0.1 %	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x8000		(1)(4)	x
20508	501C	1	0x8000	sec.	(1)	x
20509	501D	1	0x8000	0.1 %	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x8000		(1)(4)	x
20514	5022	1	0x8000	sec.	(1)	x
20515	5023	1	0x8000	0.1 %	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x8000		(1)(4)	x
20520	5028	1	0x8000	sec.	(1)	x
20521	5029	1	0x8000	0.1 %	(1)	x
20522	502A	1	0x8000		(6)	x
20523	502B	1	0x8000		(5)	x
20524	502C	2	0x8000		(1)(4)	x

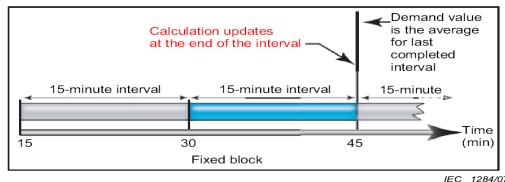
"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(15 of 43)

20526	502E	1	0x8000		sec.	(1)	x
20527	502F	1	0x8000	0.1 %	(1)	x	
20528	5030	1	0x8000		(6)	x	
20529	5031	1	0x8000		(5)	x	
20530	5032	2	0x8000		(1)(4)	x	
20532	5034	1	0x8000	sec.	(1)	x	
20533	5035	1	0x8000	0.1 %	(1)	x	
20534	5036	1	0x8000		(6)	x	
20535	5037	1	0x8000		(5)	x	
20536	5038	2	0x8000		(1)(4)	x	
20538	503A	1	0x8000	sec.	(1)	x	
20539	503B	1	0x8000	0.1 %	(1)	x	
20540	503C	1	0x8000		(6)	x	
20541	503D	1	0x8000		(5)	x	
20542	503E	2	0x8000		(1)(4)	x	
20544	5040	1	0x8000	sec.	(1)	x	
20545	5041	1	0x8000	0.1 %	(1)	x	
20546	5042	1	0x8000		(6)	x	
20547	5043	1	0x8000		(5)	x	
20548	5044	2	0x8000		(1)(4)	x	
20550	5046	1	0x8000	sec.	(1)	x	
20551	5047	1	0x8000	0.1 %	(1)	x	
20552	5048	1	0x8000		(6)	x	
20553	5049	2	0x8000	[kWh]	(1)	x	
20555	504B	2	0x8000	[kWh]	(2)	x	
20557	504D	2	0x8000	[kWh]	(2)	x	
20559	504F	2	0x8000	[kvarh]	(1)	x	
20561	5051	2	0x8000	[kvarh]	(2)	x	
20563	5053	2	0x8000	[kvarh]	(2)	x	
20565	5055	2	0x8000	[kVAh]	(2)	x	
20567	5057	2	0x8000	[kWh]	(2)	x	
20569	5059	2	0x8000	[kWh]	(2)	x	
20571	505B	2	0x8000	[kWh]	(2)	x	
20573	505D	2	0x8000	[kWh]	(2)	x	
20575	505F	2	0x8000	[kWh]	(2)	x	
20577	5061	2	0x8000	[kWh]	(2)	x	
20579	5063	2	0x8000	[kvarh]	(2)	x	
20581	5065	2	0x8000	[kvarh]	(2)	x	
20583	5067	2	0x8000	[kvarh]	(2)	x	
20585	5069	2	0x8000	[kvarh]	(2)	x	
20587	506B	2	0x8000	[kvarh]	(2)	x	
20589	506D	2	0x8000	[kvarh]	(2)	x	

REMARKS:

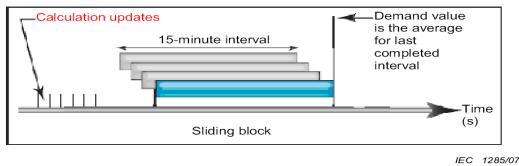
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[N°4] - 3-Phase Elect Proct S 4P - STANDARD

[RETURN TO
TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	Overload Prealarm (>threshold I1)		(1)	
29185	7201	1	Overload alarm (>threshold I2)		(1)	
29186	7202	1	0		(1)	
29187	7203	1	0		(1)	
29188	7204	1	Alarm 1 Overtemperature (>threshold T)		(1)	
29189	7205	1	0		(1)	
29190	7206	1	0		(1)	
29191	7207	1	0		(1)	
29192	7208	1	0		(1)	
29193	7209	1	Overload Tripped relay P. (no indication of phase)		(2)	x
29194	720A	1	Short-circuit Tripped relay P. (no indications of phase)		(2)	x
29195	720B	1	Device Protection Tripped relay ("III element", no indications of phase)		(2)	x
29196	720C	1	Earth Tripped relay P.		(2)	x
29197	720D	1	Tripped relay P. Overtemperature		(2)	x
29198	720E	1	0		(2)	x
29199	720F	1	0		(2)	x
29200	7210	1	0		(2)	x
29201	7211	1	0		(2)	x
29202	7212	1	0		(2)	x
29203	7213	1	0		(2)	x
29204	7214	1	0		(2)	x
29205	7215	1	0		(2)	x
29206	7216	1	0		(2)	x
29207	7217	1	0		(2)	x
29208	7218	1	0		(2)	x
29209	7219	1	0		(2)	x
29210	721A	1	0		(2)	x
29211	721B	1	0		(2)	x
29212	721C	1	0		(2)	x
29213	721D	1	0		(2)	x
29214	721E	1	0		(2)	x
29215	721F	1	0		(2)	x
29216	7220	1	0		(2)	x
29217	7221	1	0		(2)	x
29218	7222	1	0		(2)	x
29219	7223	1	0		(2)	x
29220	7224	1	0		(2)	x
29221	7225	1	0		(1)	
29222	7226	1	0		(1)	
29223	7227	1	0		(1)	
29224	7228	1	0		(1)	
29225	7229	1	0		(1)	
29226	722A	1	0		(1)	
29227	722B	1	0		(1)	
29228	722C	1	0		(1)	
29229	722D	1	0		(1)	
29230	722E	1	0		(1)	
29231	722F	1	0		(1)	
29232	7230	1	0		(3)	

REMARKS:

(1)	The information shown here "restores" itself when the condition that has generated it no longer applies
(2)	<p>The information shown here applies even when the condition generating it has disappeared. the "restore" conditions can be (equivalent, alternatively):</p> <ul style="list-style-type: none"> •the measurement of the Closed Status of the Device •the measurement of a minimum current value on the phases. <p>The Switch Status Functionality is therefore not binding (Example : if the switch is returned to Open => the Tripped relay notification must be kept until the restore condition kicks in).</p>
(3)	<p>It indicates that an anomaly has been detected in the "Dual Setting" settings, in particular one or more levels have been found to be greater than the corresponding "Main Setting".</p>

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	0		0	
29185	7201	1	0		(1)	

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	2	0x8000	[A ²]	(1)	
29186	7202	2	0x8000	[A ²]	(1)	
29188	7204	2	0x8000	[A ²]	(1)	
29190	7206	2	0x8000	[A ²]	(1)	
29192	7208	2	0x8000	[A ²]	(1)	
29194	720A	1	Overload Tripped relay P counter (total) (no indication of phase)			x
29195	720B	1	Delayable Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29196	720C	1	Instantaneous Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29197	720D	1	Device protection Tripped relay counter (total) ("III element", no indications of phase)			x
29198	720E	1	Earth Tripped relay P counter (total)			x
29199	720F	1	Overtemperature Tripped relay P counter (total)			x
29200	7210	10	Last Release Data Buffer		(2), (9)	x
29210	721A	10	Last 20 (most recent) Releases Data Buffer		(2), (9)	x
29220	7224	10	Last 20 Releases Data Buffer		(2), (9)	x
29230	722E	10	Last 20 Releases Data Buffer		(2), (9)	x
29240	7238	10	Last 20 Releases Data Buffer		(2), (9)	x
29250	7242	10	Last 20 Releases Data Buffer		(2), (9)	x
29260	724C	10	Last 20 Releases Data Buffer		(2), (9)	x
29270	7256	10	Last 20 Releases Data Buffer		(2), (9)	x
29280	7260	10	Last 20 Releases Data Buffer		(2), (9)	x
29290	726A	10	Last 20 Releases Data Buffer		(2), (9)	x
29300	7274	10	Last 20 Releases Data Buffer		(2), (9)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(19 of 43)

29310	727E	10	0x8000		(2), (9)	x
29320	7288	10	0x8000		(2), (9)	x
29330	7292	10	0x8000		(2), (9)	x
29340	729C	10	0x8000		(2), (9)	x
29350	72A6	10	0x8000		(2), (9)	x
29360	72B0	10	0x8000		(2), (9)	x
29370	72BA	10	0x8000		(2), (9)	x
29380	72C4	10	0x8000		(2), (9)	x
29390	72CE	10	0x8000		(2), (9)	x
29400	72D8	10	0x8000		(2), (9)	x
29410	72E2	1	G1 ("main setting")- Overload: levels	[A]/[%]	(1), (3)	x
29411	72E3	1	G1 - Overload: Times	[msec]	(1)	x
29412	72E4	1	G1 - Overload: options		(3)	x
29413	72E5	2	G1 - delayable short-circuit: levels	[A]/[%]	(1), (4)	x
29415	72E7	1	G1 - delayable short-circuit: Times	[msec]	(1)	x
29416	72E8	1	G1 - delayable short-circuit: options		(4)	x
29417	72E9	2	G1 - instantaneous short-circuit: levels	[A]/[%]	(1), (5)	x
29419	72EB	1	G1 - instantaneous short-circuit: Times	[msec]	(1)	x
29420	72EC	1	G1 - instantaneous short-circuit: options		(5)	x
29421	72ED	2	G1 - device protection: levels	[A]	(1), (6)	x
29423	72EF	1	G1 - device protection: Times	[msec]	(1)	x
29424	72F0	1	G1 - device protection: options		(6)	x
29425	72F1	1	G1 - earth: levels	[A]/[%]	(1), (7)	x
29426	72F2	1	G1 - earth: times	[msec]	(1)	x
29427	72F3	1	G1 - earth: options		(7)	x
29428	72F4	1	G1 - neutral protection: levels	[%]	(1), (8)	x
29429	72F5	1	0x8000	[msec]	(1)	x
29430	72F6	1	G1 - neutral protection: options		(8)	x
29431	72F7	1	G1 - overtemperature protection: levels	[°C]	(1)	x
29432	72F8	1	0x8000	[msec]	(1)	x
29433	72F9	1	0x8000	[A]/[%]	(1), (3)	x
29434	72FA	1	0x8000	[msec]	(1)	x
29435	72FB	2	0x8000	[A]/[%]	(1), (4)	x
29437	72FD	1	0x8000	[msec]	(1)	x
29438	72FE	2	0x8000	[A]/[%]	(1), (5)	x
29440	7300	1	0x8000	[msec]	(1)	x
29441	7301	1	0x8000	[A]/[%]	(1), (7)	x
29442	7302	1	0x8000	[msec]	(1)	x

REMARKS:

(1)	Expressed in "numeric coding"
(2)	<p>DATA BUFFER Last releases: by reading all the ten words the values are returned in the values indicated below</p> <ul style="list-style-type: none"> •WORD9 : chronology, "year" (MSB) and "month" (LSB); it is the word that is returned first of all in the 10 – MSW block. •WORD8: chronology, "day" (MSB) and "time" (LSB) •WORD7: chronology, "minutes" (MSB) and "seconds" (LSB) •WORD6 and 5: current interrupted or temperature ("numeric coding" , [mA] or [°C], WORD6 is returned before WORD5) •WORD4: detail of protection settings that has caused the Trip (reply read only register of the "levels" type, see note (1)) •WORD3: detail of protection settings that has caused the Trip (reply Read Only register of the "Times" type , see note (1)) •WORD2: detail of protection settings that has caused the Trip (reply Read Only register of the "options" type, see note (3)to(6)) •WORD1: reply Read Only Bit of the "Tripped" type •WORD0: reply Read Only Bit of the "Tripped" type <p>N.B.: WORDs FROM 2 to 4 constitute a single datum and must be read and written in a block. The same applies to WORD 5 and 6, for WORD 7-8-9 and for WORD 0-1.</p> <p>WORD 1:</p> <ul style="list-style-type: none"> •Bit0 Instantaneous short-circuit relay tripped neutral •Bit1 Device Protection Relay Tripped phase 1 ("III element") •Bit2 Device Protection Relay Tripped phase 2 ("III element") •Bit3 Device Protection Relay Tripped phase 3 ("III element") •Bit4 Device Protection Relay Tripped neutral ("III element") •Bit5 Tripped relay in "Main Setting" Mode •Bit6 Tripped relay in "Dual Setting" Mode •Bit7 Tripped relay in "MEM=OFF" Mode on Overload •Bit8 Tripped relay in "I₂t=k" mode on delayable short-circuit •Bit 9 Tripped relay in "Logic Selectivity" mode on delayable short-circuit (intervention performed with Tm Delay) •Bit 10 Tripped relay in "Logic Selectivity" Mode on device protection (intervention carried out with Delay •SEL=High) •Bit 11 Tripped relay in "I₂t=k" Mode on earth •Bit 12 Earth leakage Tripped •Bit 13 ND •Bit 14 ND •Bit 15 Test Tripped (if Electronic Test only Bit15, if Earth Leakeage Test Bit15 and Bit12) <p>WORD 0:</p> <ul style="list-style-type: none"> •Bit0 Overload Tripped relay P. (no indication of phase) •Bit1 Short-circuit Tripped relay P. (no indications of phase) •Bit2 Device Protection Tripped relay ("III element", no indications of phase) •Bit3 Earth Tripped relay P. •Bit4 Overtemperature Tripped relay P. •Bit5 Overload phase 1 Tripped relay P. •Bit6 Overload phase 2 Tripped relay P. •Bit7 Overload phase 3 Tripped relay P. •Bit8 Overload neutral Tripped relay P. •Bit9 Delayable short-circuit phase 1 Tripped relay P. •Bit10 Delayable short-circuit phase 2 Tripped relay P. •Bit11 Delayable short-circuit phase 3 Tripped relay P. •Bit12 Delayable short-circuit neutral Tripped relay P. •Bit13 Instantaneous short-circuit phase 1 Tripped relay •Bit14 Instantaneous short-circuit Tripped relay phase 2 •Bit15 Instant short-circuit phase 3 Tripped relay

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(21 of 43)

(3)	Overload options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%In(0) • Bit4 to 2=I_{2t}=k MEM OFF(001)/I_{2t}=k MEM ON(000)/Not Defined(111) • Bit7 to 5= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of I_r)
(4)	Delayable short-circuit options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%Ir(0) • Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) • Bit7 to 5= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of I_r)
(5)	Instantaneous short-circuit options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%In(0) • Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) • Bit5= absolute val. divided by 10(1)/absolute value(0) • Bit7 to 6= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of In)
(6)	Device Protection options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%In(0) • Bit4 to 2= "0" • Bit5= absolute val. divided by 10(1)/absolute value(0)
(7)	Earth Options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%In(0) • Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) • Bit7 to 5= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of Ig)
(8)	Neutral options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1="0" (%phase) • Bit4 to 2="0" (curve phase) • Bit7 to 5= "0" • Bit15 to 8="0")
(9)	If number of faults < 20, fill the chronology word with 0x0000

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	0x8000	[sec]	(1)	X

REMARKS:

(1)	"Dual Setting" Command Configuration <ul style="list-style-type: none"> • Bit10 to 0=activation time ("default"=60 sec, "0"=infinite) • Bit11 to 15="0"
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[5] - 3-Phase Measure E 4P - EVOLVED

[RETURN TO
TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	Neutral Current Value	[A]	(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	0x8000	[V]	(2),(4)	
20495	500F	1	0x8000	[V]	(2),(4)	
20496	5010	1	0x8000	[V]	(2),(4)	
20497	5011	1	0x8000	[V]	(2),(4)	
20498	5012	1	0x8000	[V]	(2),(4)	
20499	5013	1	0x8000	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(23 of 43)

20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	0x8000	%	(2)	
20513	5021	1	0x8000	%	(2)	
20514	5022	1	0x8000	%	(2)	
20515	5023	1	0x8000	%	(2)	
20516	5024	1	0x8000	%	(2)	
20517	5025	1	0x8000	%	(2)	
20518	5026	1	0x8000	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	0x8000	[kW]	(1),(4)	
20523	502B	1	0x8000	[kvar]	(1),(4)	
20524	502C	1	0x8000	[kvar]	(1)	
20525	502D	1	0x8000	[kvar]	(2)	
20526	502E	1	0x8000	[kVA]	(1),(4)	
20527	502F	1	0x8000	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	0x8000	[Hz]/100	(1),(3)	
20530	5032	2	0x8000	[kWh]	(1)	x
20532	5034	2	0x8000	[kWh]	(2),(4)	x
20534	5036	2	0x8000	[kWh]	(2),(4)	x
20536	5038	2	0x8000	[kvarh]	(1)	x
20538	503A	2	0x8000	[kvarh]	(2),(4)	x
20540	503C	2	0x8000	[kvarh]	(2),(4)	x
20542	503E	2	0x8000	[kVAh]	(2)	x
20544	5040	1	0x8000	[kW]	(1),(4)	
20545	5041	1	0x8000	[kW]	(1),(4)	
20546	5042	1	0x8000	[kW]	(1),(4)	
20547	5043	1	0x8000	[kvar]	(1),(4)	
20548	5044	1	0x8000	[kvar]	(1),(4)	
20549	5045	1	0x8000	[kvar]	(1),(4)	
20550	5046	1	0x8000	[kvar]	(1)	
20551	5047	1	0x8000	[kvar]	(1)	
20552	5048	1	0x8000	[kvar]	(1)	
20553	5049	1	0x8000	[kvar]	(2)	
20554	504A	1	0x8000	[kvar]	(2)	
20555	504B	1	0x8000	[kvar]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x8000	[kWh]	(2),(4)	x
20567	5057	2	0x8000	[kWh]	(2),(4)	x
20569	5059	2	0x8000	[kWh]	(2),(4)	x
20571	505B	2	0x8000	[kWh]	(2),(4)	x
20573	505D	2	0x8000	[kWh]	(2),(4)	x
20575	505F	2	0x8000	[kWh]	(2),(4)	x
20577	5061	2	0x8000	[kvarh]	(2),(4)	x
20579	5063	2	0x8000	[kvarh]	(2),(4)	x
20581	5065	2	0x8000	[kvarh]	(2),(4)	x
20583	5067	2	0x8000	[kvarh]	(2),(4)	x
20585	5069	2	0x8000	[kvarh]	(2),(4)	x
20587	506B	2	0x8000	[kvarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(24 of 43)

20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kvar]	(1)	x
20600	5078	1	0x8000	[kvar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x
20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(25 of 43)

20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50EO	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x
20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(26 of 43)

20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(3)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x8000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	Current multiplication factor		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x8000		(1)(4)	x
20496	5010	1	0x8000	sec.	(1)	x
20497	5011	1	0x8000	0.1 %	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x8000		(1)(4)	x
20502	5016	1	0x8000	sec.	(1)	x
20503	5017	1	0x8000	0.1 %	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x8000		(1)(4)	x
20508	501C	1	0x8000	sec.	(1)	x
20509	501D	1	0x8000	0.1 %	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x8000		(1)(4)	x
20514	5022	1	0x8000	sec.	(1)	x
20515	5023	1	0x8000	0.1 %	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x8000		(1)(4)	x
20520	5028	1	0x8000	sec.	(1)	x
20521	5029	1	0x8000	0.1 %	(1)	x
20522	502A	1	0x8000		(6)	x
20523	502B	1	0x8000		(5)	x
20524	502C	2	0x8000		(1)(4)	x
20526	502E	1	0x8000	sec.	(1)	x

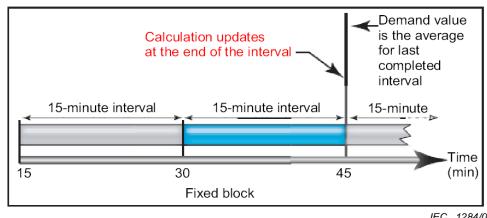
"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(27 of 43)

20527	502F	1	0x8000	0.1 %	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x8000		(1)(4)	x
20532	5034	1	0x8000	sec.	(1)	x
20533	5035	1	0x8000	0.1 %	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x8000		(1)(4)	x
20538	503A	1	0x8000	sec.	(1)	x
20539	503B	1	0x8000	0.1 %	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x8000		(1)(4)	x
20544	5040	1	0x8000	sec.	(1)	x
20545	5041	1	0x8000	0.1 %	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x8000		(1)(4)	x
20550	5046	1	0x8000	sec.	(1)	x
20551	5047	1	0x8000	0.1 %	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x8000	[kWh]	(1)	x
20555	504B	2	0x8000	[kWh]	(2)	x
20557	504D	2	0x8000	[kWh]	(2)	x
20559	504F	2	0x8000	[kvarh]	(1)	x
20561	5051	2	0x8000	[kvarh]	(2)	x
20563	5053	2	0x8000	[kvarh]	(2)	x
20565	5055	2	0x8000	[kVAh]	(2)	x
20567	5057	2	0x8000	[kWh]	(2)	x
20569	5059	2	0x8000	[kWh]	(2)	x
20571	505B	2	0x8000	[kWh]	(2)	x
20573	505D	2	0x8000	[kWh]	(2)	x
20575	505F	2	0x8000	[kWh]	(2)	x
20577	5061	2	0x8000	[kWh]	(2)	x
20579	5063	2	0x8000	[kvarh]	(2)	x
20581	5065	2	0x8000	[kvarh]	(2)	x
20583	5067	2	0x8000	[kvarh]	(2)	x
20585	5069	2	0x8000	[kvarh]	(2)	x
20587	506B	2	0x8000	[kvarh]	(2)	x
20589	506D	2	0x8000	[kvarh]	(2)	x

REMARKS:

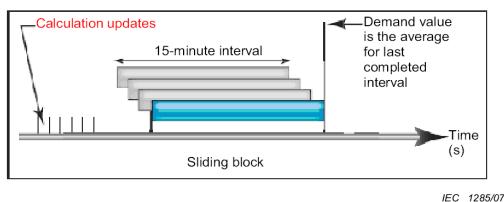
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) <ul style="list-style-type: none"> • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) <ul style="list-style-type: none"> • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode <ul style="list-style-type: none"> • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[6] - 3-Phase Measure M 3P - EVOLVED

[RETURN TO
TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	0x8000	[A]	(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	0x8000	[V]	(2),(4)	
20495	500F	1	0x8000	[V]	(2),(4)	
20496	5010	1	0x8000	[V]	(2),(4)	
20497	5011	1	Voltage 1-2	[V]	(2),(4)	
20498	5012	1	Voltage1-3	[V]	(2),(4)	
20499	5013	1	Voltage 2-3	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(30 of 43)

20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	THD Phase 1 (R) vs. fundamental current	%	(2)	
20513	5021	1	THD Phase 2 (S) vs. fundamental current	%	(2)	
20514	5022	1	THD Phase 3 (T) vs. fundamental current	%	(2)	
20515	5023	1	0x8000	%	(2)	
20516	5024	1	0x8000	%	(2)	
20517	5025	1	0x8000	%	(2)	
20518	5026	1	0x8000	%	(2)	
20519	5027	1	THD Voltage 1-2 vs. fundamental	%	(2)	
20520	5028	1	THD Voltage 1-3 vs. fundamental	%	(2)	
20521	5029	1	THD Voltage 2-3 vs. fundamental	%	(2)	
20522	502A	1	Three-phase active power	[kW]	(1),(4)	
20523	502B	1	Three-phase reactive power	[kvar]	(1),(4)	
20524	502C	1	0x8000	[kvar]	(1)	
20525	502D	1	0x8000	[kvar]	(2)	
20526	502E	1	Three-phase Apparent Power	[kVA]	(1),(4)	
20527	502F	1	Three-phase power factor (PF)	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	Three-phase Frequency	[Hz]/100	(1),(3)	
20530	5032	2	0x8000	[kWh]	(1)	x
20532	5034	2	Positive Three-phase Active Energy	[kWh]	(2),(4)	x
20534	5036	2	Negative Three-phase Active Energy	[kWh]	(2),(4)	x
20536	5038	2	0x8000	[kvarh]	(1)	x
20538	503A	2	Positive Three-phase Reactive Energy	[kvarh]	(2),(4)	x
20540	503C	2	Negative Three-phase Reactive Energy	[kvarh]	(2),(4)	x
20542	503E	2	0x8000	[kVAh]	(2)	x
20544	5040	1	Phase 1 Active Power (R)	[kW]	(1),(4)	
20545	5041	1	Phase 2 Active Power (S)	[kW]	(1),(4)	
20546	5042	1	Phase 3 active power (T)	[kW]	(1),(4)	
20547	5043	1	Reactive Power phase 1 (R)	[kvar]	(1),(4)	
20548	5044	1	Reactive Power phase 2 (S)	[kvar]	(1),(4)	
20549	5045	1	Reactive Power phase 3 (T)	[kvar]	(1),(4)	
20550	5046	1	0x8000	[kvar]	(1)	
20551	5047	1	0x8000	[kvar]	(1)	
20552	5048	1	0x8000	[kvar]	(1)	
20553	5049	1	0x8000	[kvar]	(2)	
20554	504A	1	0x8000	[kvar]	(2)	
20555	504B	1	0x8000	[kvar]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x8000	[kWh]	(2),(4)	x
20567	5057	2	0x8000	[kWh]	(2),(4)	x
20569	5059	2	0x8000	[kWh]	(2),(4)	x
20571	505B	2	0x8000	[kWh]	(2),(4)	x
20573	505D	2	0x8000	[kWh]	(2),(4)	x
20575	505F	2	0x8000	[kWh]	(2),(4)	x
20577	5061	2	0x8000	[kvarh]	(2),(4)	x
20579	5063	2	0x8000	[kvarh]	(2),(4)	x
20581	5065	2	0x8000	[kvarh]	(2),(4)	x
20583	5067	2	0x8000	[kvarh]	(2),(4)	x
20585	5069	2	0x8000	[kvarh]	(2),(4)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(31 of 43)

20587	506B	2	0x8000	[kvarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x
20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kvar]	(1)	x
20600	5078	1	0x8000	[kvar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(32 of 43)

20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x
20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(33 of 43)

20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x
20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(3)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Measurement System Features		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x8000		(7)	x
20487	5007	1	Voltage multiplication factor		(1)	x
20488	5008	1	Current multiplication factor		(1)	x
20489	5009	1	Total Power multiplication factor		(1)	x
20490	500A	1	Phase Power multiplication factor		(1)	x
20491	500B	1	Total Energy multiplication factor		(1)	x
20492	500C	1	Phase Energy multiplication factor		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x8000		(1)(4)	x
20496	5010	1	0x8000	sec.	(1)	x
20497	5011	1	0x8000	0.1 %	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x8000		(1)(4)	x
20502	5016	1	0x8000	sec.	(1)	x
20503	5017	1	0x8000	0.1 %	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x8000		(1)(4)	x
20508	501C	1	0x8000	sec.	(1)	x
20509	501D	1	0x8000	0.1 %	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x8000		(1)(4)	x
20514	5022	1	0x8000	sec.	(1)	x
20515	5023	1	0x8000	0.1 %	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x8000		(1)(4)	x
20520	5028	1	0x8000	sec.	(1)	x
20521	5029	1	0x8000	0.1 %	(1)	x
20522	502A	1	0x8000		(6)	x

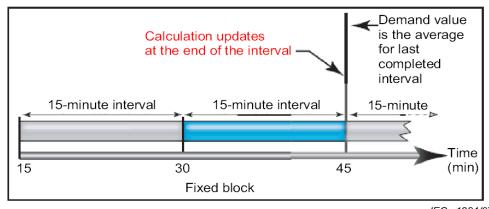
"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(34 of 43)

20523	502B	1	0x8000		(5)	x
20524	502C	2	0x8000		(1)(4)	x
20526	502E	1	0x8000	sec.	(1)	x
20527	502F	1	0x8000	0.1 %	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x8000		(1)(4)	x
20532	5034	1	0x8000	sec.	(1)	x
20533	5035	1	0x8000	0.1 %	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x8000		(1)(4)	x
20538	503A	1	0x8000	sec.	(1)	x
20539	503B	1	0x8000	0.1 %	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x8000		(1)(4)	x
20544	5040	1	0x8000	sec.	(1)	x
20545	5041	1	0x8000	0.1 %	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x8000		(1)(4)	x
20550	5046	1	0x8000	sec.	(1)	x
20551	5047	1	0x8000	0.1 %	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x8000	[kWh]	(1)	x
20555	504B	2	0x8000	[kWh]	(2)	x
20557	504D	2	0x8000	[kWh]	(2)	x
20559	504F	2	0x8000	[kvarh]	(1)	x
20561	5051	2	0x8000	[kvarh]	(2)	x
20563	5053	2	0x8000	[kvarh]	(2)	x
20565	5055	2	0x8000	[kVAh]	(2)	x
20567	5057	2	0x8000	[kWh]	(2)	x
20569	5059	2	0x8000	[kWh]	(2)	x
20571	505B	2	0x8000	[kWh]	(2)	x
20573	505D	2	0x8000	[kWh]	(2)	x
20575	505F	2	0x8000	[kWh]	(2)	x
20577	5061	2	0x8000	[kWh]	(2)	x
20579	5063	2	0x8000	[kvarh]	(2)	x
20581	5065	2	0x8000	[kvarh]	(2)	x
20583	5067	2	0x8000	[kvarh]	(2)	x
20585	5069	2	0x8000	[kvarh]	(2)	x
20587	506B	2	0x8000	[kvarh]	(2)	x
20589	506D	2	0x8000	[kvarh]	(2)	x

REMARKS:

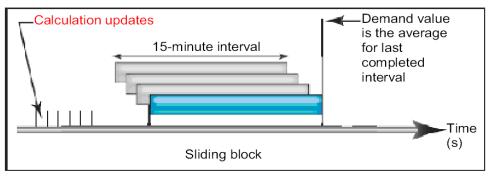
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[7] - 3-Phase Measure M 4P - EVOLVED

RETURN TO
TABLE OF MAPS

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	Neutral Current Value	[A]	(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	Voltage 1-N	[V]	(2),(4)	
20495	500F	1	Voltage 2-N	[V]	(2),(4)	
20496	5010	1	Voltage 3-N	[V]	(2),(4)	
20497	5011	1	Voltage 1-2	[V]	(2),(4)	
20498	5012	1	Voltage1-3	[V]	(2),(4)	
20499	5013	1	Voltage 2-3	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(37 of 43)

20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	THD Phase 1 (R) vs. fundamental current	%	(2)	
20513	5021	1	THD Phase 2 (S) vs. fundamental current	%	(2)	
20514	5022	1	THD Phase 3 (T) vs. fundamental current	%	(2)	
20515	5023	1	THD Neutral vs. fundamental current	%	(2)	
20516	5024	1	THD Voltage 1-N vs. fundamental	%	(2)	
20517	5025	1	THD Voltage 2-N vs. fundamental	%	(2)	
20518	5026	1	THD Voltage 3-N vs. fundamental	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	Three-phase active power	[kW]	(1),(4)	
20523	502B	1	Three-phase reactive power	[kvar]	(1),(4)	
20524	502C	1	0x8000	[kvar]	(1)	
20525	502D	1	0x8000	[kvar]	(2)	
20526	502E	1	Three-phase Apparent Power	[kVA]	(1),(4)	
20527	502F	1	Three-phase power factor (PF)	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	Three-phase Frequency	[Hz]/100	(1),(3)	
20530	5032	2	0x8000	[kWh]	(1)	x
20532	5034	2	Positive Three-phase Active Energy	[kWh]	(2),(4)	x
20534	5036	2	Negative Three-phase Active Energy	[kWh]	(2),(4)	x
20536	5038	2	0x8000	[kvarh]	(1)	x
20538	503A	2	Positive Three-phase Reactive Energy	[kvarh]	(2),(4)	x
20540	503C	2	Negative Three-phase Reactive Energy	[kvarh]	(2),(4)	x
20542	503E	2	0x8000	[kVAh]	(2)	x
20544	5040	1	Phase 1 Active Power (R)	[kW]	(1),(4)	
20545	5041	1	Phase 2 Active Power (S)	[kW]	(1),(4)	
20546	5042	1	Phase 3 active power (T)	[kW]	(1),(4)	
20547	5043	1	Reactive Power phase 1 (R)	[kvar]	(1),(4)	
20548	5044	1	Reactive Power phase 2 (S)	[kvar]	(1),(4)	
20549	5045	1	Reactive Power phase 3 (T)	[kvar]	(1),(4)	
20550	5046	1	0x8000	[kvar]	(1)	
20551	5047	1	0x8000	[kvar]	(1)	
20552	5048	1	0x8000	[kvar]	(1)	
20553	5049	1	0x8000	[kvar]	(2)	
20554	504A	1	0x8000	[kvar]	(2)	
20555	504B	1	0x8000	[kvar]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x8000	[kWh]	(2),(4)	x
20567	5057	2	0x8000	[kWh]	(2),(4)	x
20569	5059	2	0x8000	[kWh]	(2),(4)	x
20571	505B	2	0x8000	[kWh]	(2),(4)	x
20573	505D	2	0x8000	[kWh]	(2),(4)	x
20575	505F	2	0x8000	[kWh]	(2),(4)	x
20577	5061	2	0x8000	[kvarh]	(2),(4)	x
20579	5063	2	0x8000	[kvarh]	(2),(4)	x
20581	5065	2	0x8000	[kvarh]	(2),(4)	x
20583	5067	2	0x8000	[kvarh]	(2),(4)	x
20585	5069	2	0x8000	[kvarh]	(2),(4)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(38 of 43)

20587	506B	2	0x8000	[kvarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x
20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kvar]	(1)	x
20600	5078	1	0x8000	[kvar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(39 of 43)

20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x
20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(40 of 43)

20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x
20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(3)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Measurement System Features		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x8000		(7)	x
20487	5007	1	Voltage multiplication factor		(1)	x
20488	5008	1	Current multiplication factor		(1)	x
20489	5009	1	Total Power multiplication factor		(1)	x
20490	500A	1	Phase Power multiplication factor		(1)	x
20491	500B	1	Total Energy multiplication factor		(1)	x
20492	500C	1	Phase Energy multiplication factor		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x8000		(1)(4)	x
20496	5010	1	0x8000	sec.	(1)	x
20497	5011	1	0x8000	0.1 %	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x8000		(1)(4)	x
20502	5016	1	0x8000	sec.	(1)	x
20503	5017	1	0x8000	0.1 %	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x8000		(1)(4)	x
20508	501C	1	0x8000	sec.	(1)	x
20509	501D	1	0x8000	0.1 %	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x8000		(1)(4)	x
20514	5022	1	0x8000	sec.	(1)	x
20515	5023	1	0x8000	0.1 %	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x8000		(1)(4)	x
20520	5028	1	0x8000	sec.	(1)	x
20521	5029	1	0x8000	0.1 %	(1)	x
20522	502A	1	0x8000		(6)	x

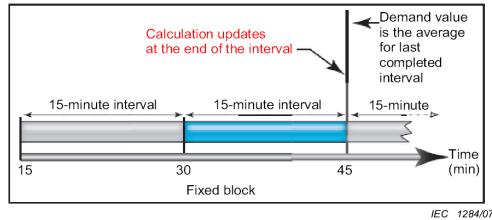
"MOLDED CASE CIRCUIT BREAKER DPX³ 630/1600" S10 MAPS AND COMMANDS
(41 of 43)

20523	502B	1	0x8000		(5)	x
20524	502C	2	0x8000		(1)(4)	x
20526	502E	1	0x8000	sec.	(1)	x
20527	502F	1	0x8000	0.1 %	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x8000		(1)(4)	x
20532	5034	1	0x8000	sec.	(1)	x
20533	5035	1	0x8000	0.1 %	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x8000		(1)(4)	x
20538	503A	1	0x8000	sec.	(1)	x
20539	503B	1	0x8000	0.1 %	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x8000		(1)(4)	x
20544	5040	1	0x8000	sec.	(1)	x
20545	5041	1	0x8000	0.1 %	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x8000		(1)(4)	x
20550	5046	1	0x8000	sec.	(1)	x
20551	5047	1	0x8000	0.1 %	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x8000	[kWh]	(1)	x
20555	504B	2	0x8000	[kWh]	(2)	x
20557	504D	2	0x8000	[kWh]	(2)	x
20559	504F	2	0x8000	[kvarh]	(1)	x
20561	5051	2	0x8000	[kvarh]	(2)	x
20563	5053	2	0x8000	[kvarh]	(2)	x
20565	5055	2	0x8000	[kVAh]	(2)	x
20567	5057	2	0x8000	[kWh]	(2)	x
20569	5059	2	0x8000	[kWh]	(2)	x
20571	505B	2	0x8000	[kWh]	(2)	x
20573	505D	2	0x8000	[kWh]	(2)	x
20575	505F	2	0x8000	[kWh]	(2)	x
20577	5061	2	0x8000	[kWh]	(2)	x
20579	5063	2	0x8000	[kvarh]	(2)	x
20581	5065	2	0x8000	[kvarh]	(2)	x
20583	5067	2	0x8000	[kvarh]	(2)	x
20585	5069	2	0x8000	[kvarh]	(2)	x
20587	506B	2	0x8000	[kvarh]	(2)	x
20589	506D	2	0x8000	[kvarh]	(2)	x

REMARKS:

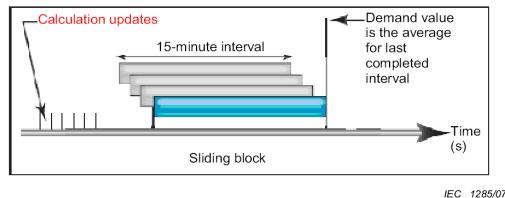
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) <ul style="list-style-type: none"> • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) <ul style="list-style-type: none"> • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode <ul style="list-style-type: none"> • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[8] - Thermal Measurement B - BASE

[RETURN TO
TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
32768	8000	1	0	[°C]	(1)	
32769	8000	1	0	[°C]		

REMARKS:

(1)	The relative address register 0 MUST NOT BE USED to prevent the corresponding absolute address ("default" position of the Thermal Measurement Functionality = 8000h) coinciding with the "non implemented/non significant" value in the Automation Functionality (always 8000h)
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Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
32768	8000	1	0			
32769	8000	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
32768	8000	1	Sensor 1 temperature value	[°C]	(1)	

REMARKS:

(1)	Expressed in "numeric coding"
-----	-------------------------------

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
32768	8000	1	0x8000			
32769	8001	1	0x8000			

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS

Revision of Support maps and Commands

REVISION: 1.0.0

DATE: 04/07/2022

Revision of Support maps and Commands for MCCB DPX³ 250HP S10 devices

- DPX³ 250HP S10

REVISION: 1.2.0

DATE: 17/12/2022

Product involved:

- DPX³ 250HP S10

Products associated:

PRODUCT ITEMS	DESCRIPTION	OBJECT CODE
423400; 423401; 423402; 423403; 423405; 423406; 423407; 423408; 423420; 423421; 423422; 423423; 423425; 423426; 423427; 423428; 423440; 423441; 423442; 423443; 423445; 423446; 423447; 423448; 423450; 423451; 423452; 423453; 423455; 423456; 423457; 423458	All DPX ³ 250HP without earth leakage protection (display version)	0x1302
423410; 423411; 423412; 423413; 423415; 423416; 423417; 423418; 423430; 423431; 423432; 423433; 423435; 423436; 423437; 423438	All DPX ³ 250HP with earth leakage protection (display version)	0x1304
423460; 423461; 423462; 423463; 423465; 423466; 423467; 423468; 423480; 423481; 423482; 423483; 423485; 423486; 423487; 423488; 423500; 423501; 423502; 423503; 423505; 423506; 423507; 423508; 423510; 423511; 423512; 423513; 423515; 423516; 423517; 423518	All DPX ³ 250HP without earth leakage protection (display version) + measurement	0x1305
423470; 423471; 423472; 423473; 423475; 423476; 423477; 423478; 423490; 423491; 423492; 423493; 423495; 423496; 423497; 423498	All DPX ³ 250HP with earth leakage protection (display version) + measurement	0x1306

Standard function codes

COMMUNICATION CHANNEL → COMMANDS ↓	EMS	USB	REMARKS
Read discrete inputs (0x02)	x	x	
Read holding register (0x03)	x	x	
Read input register (0x04)	x	x	
Write multiple coils (0x0F)	x	x	

Possible maps per configurations

OBJECT CODE →	0x1302		0x1304	0x1305		0x1306
CONFIGURATION →	3 poles	4 poles	4 poles	3 poles	4 poles	4 poles
MAP↓	N°					
Switch Status B	[1]*	X	X	X	X	X
3-Phase Elect Proct S 3P	[2]*	X		X		
3-Phase Measure E 3P	[3]*	X				
3-Phase Elect Proct S 4P	[4]*		X		X	
3-Phase Measure E 4P	[5]*		X			
3-Phase Measure M 3P	[6]*			X		
3-Phase Measure M 4P	[7]*					X
Thermal Measurement B	[8]*	X	X	X	X	X
3-Phase Elect Proct S D	[9]			X		X
3-Phase Measure E ED	[10]			X		
3-Phase Measure E MD	[11]			X		X
Earth leakage Elec. Protec. B	[12]					X

* Maps from [1] to [8] are identical to the corresponding ones for DPX³ 630/1600. However, for easy of consultation, they are listed here also.

Map lists

[N°1] - Switch Status B (switch Status Functionality) - BASE

[RETURN TO
TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	Open		(1)	
16385	4001	1	Closed		(1)	
16386	4002	1	Single tripped switch/ Tripped group of		(1),(2)	
16387	4003	1	0		(1)	
16388	4004	1	0		(1)	

REMARKS:

(1)	the information shown here "autorestores" when the condition that has generated it is lost (E.G.: TRIPPED is the faithful response of the device's mechanical contact Where there is a MAN/AUT operating mode selector switch, this notification can only persist if MAN is set);
(5)	if this functionality is used in switch group tripped mode (panel tripped), the bit contains the OR of the tripped of the switches belonging to the group.

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	0			X

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	0x8000			X
16385	4001	1	Intervention Meter (total, cannot be reset at zero by the customer)			X
16386	4002	1	Maximum Manoeuvre Number (cannot			X
16387	4003	1	Switch Features – Rated current	[A]	(1)	X
16388	4004	1	Switch features – Type/Poles		(2)	X
16389	4005	1	Switch features – Breaking capacity	[kA]/100	(3)	X

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(4 of 64)

REMARKS:

(1)	RATED CURRENT (numeric coding, [A])
(2)	<p>TYPE/POLES</p> <ul style="list-style-type: none"> •MSB – DEVICE TYPE <p>bit 0=insulator (0)/int. Automatic (1), bit 1=repulsive switch (0)/ not repulsive switch (1) bit 7-2=“0”</p> <ul style="list-style-type: none"> •LSB – POLES <p>bit 0 to 3: Number of poles: numeric value (1 to 4) bit 4 Neutral position (left(1)/right(0)) bit 5 :Neutral external (1) (only 3 poles) bit 7-6= “0”</p>
(3)	BREAKING CAPACITY: (numeric coding, [kA/100]. Example: 4,5kA is coded in “hundredths of kA”, therefore 4.5 becomes 450)

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	0x8000		(1)	X

REMARKS:

(1)	<p>bit 0: Open Status active high = 0, input active low = 1 (default = 0) bit 1: Closed Status active high = 0, input active low = 1 (default = 0) bit 2: Tripped Status active high = 0, input active low = 1 (default = 0) bit 3: Alarm on Status Open active = 1, deactivated = 0 (default = 0) bit 4: Alarm on Status Closed active = 1, deactivated = 0 (default = 0) bit 5: Alarm on Tripped Status active = 1, deactivated = 0 (default = 1) bit 15-6 : Not used</p>
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[N°2] - 3-Phase Elect Proct S 3P

RETURN TO
TABLE OF MAPS

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	Overload Prealarm (>threshold I1)		(1)	
29185	7201	1	Overload alarm (>threshold I2)		(1)	
29186	7202	1	0		(1)	
29187	7203	1	0		(1)	
29188	7204	1	Alarm 1 Overtemperature (>threshold T)		(1)	
29189	7205	1	0		(1)	
29190	7206	1	0		(1)	
29191	7207	1	0		(1)	
29192	7208	1	0		(1)	
29193	7209	1	Overload Tripped relay P. (no indication of phase)		(2)	x
29194	720A	1	Short-circuit Tripped relay P. (no indications of phase)		(2)	x
29195	720B	1	Device Protection Tripped relay ("III element", no indications of phase)		(2)	x
29196	720C	1	Earth Tripped relay P.		(2)	x
29197	720D	1	Tripped relay P. Overtemperature		(2)	x
29198	720E	1	0		(2)	x
29199	720F	1	0		(2)	x
29200	7210	1	0		(2)	x
29201	7211	1	0		(2)	x
29202	7212	1	0		(2)	x
29203	7213	1	0		(2)	x
29204	7214	1	0		(2)	x
29205	7215	1	0		(2)	x
29206	7216	1	0		(2)	x
29207	7217	1	0		(2)	x
29208	7218	1	0		(2)	x
29209	7219	1	0		(2)	x
29210	721A	1	0		(2)	x
29211	721B	1	0		(2)	x
29212	721C	1	0		(2)	x
29213	721D	1	0		(2)	x
29214	721E	1	0		(2)	x
29215	721F	1	0		(2)	x
29216	7220	1	0		(2)	x
29217	7221	1	0		(2)	x
29218	7222	1	0		(2)	x
29219	7223	1	0		(2)	x
29220	7224	1	0		(2)	x
29221	7225	1	0		(1)	
29222	7226	1	0		(1)	
29223	7227	1	0		(1)	
29224	7228	1	0		(1)	
29225	7229	1	0		(1)	
29226	722A	1	0		(1)	
29227	722B	1	0		(1)	
29228	722C	1	0		(1)	
29229	722D	1	0		(1)	
29230	722E	1	0		(1)	
29231	722F	1	0		(1)	
29232	7230	1	0		(3)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(6 of 64)

REMARKS:

(1)	The information shown here "restores" itself when the condition that has generated it no longer applies
(2)	<p>The information shown here applies even when the condition generating it has disappeared. the "restore" conditions can be (equivalent, alternatively):</p> <ul style="list-style-type: none"> •the measurement of the Closed Status of the Device •the measurement of a minimum current value on the phases. <p>The Switch Status Functionality is therefore not binding (Example : if the switch is returned to Open => the Tripped relay notification must be kept until the restore condition kicks in).</p>
(3)	<p>It indicates that an anomaly has been detected in the "Dual Setting" settings, in particular one or more levels have been found to be greater than the corresponding "Main Setting".</p>

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	0			
29185	7201	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	2	0x8000	[A ²]	(1)	
29186	7202	2	0x8000	[A ²]	(1)	
29188	7204	2	0x8000	[A ²]	(1)	
29190	7206	2	0x8000	[A ²]	(1)	
29192	7208	2	0x8000	[A ²]	(1)	
29194	720A	1	Overload Tripped relay P counter (total) (no indication of phase)			x
29195	720B	1	Delayable Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29196	720C	1	Instantaneous Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29197	720D	1	Device protection Tripped relay counter (total) ("III element", no indications of phase)			x
29198	720E	1	Earth Tripped relay P counter (total)			x
29199	720F	1	Overtemperature Tripped relay P counter (total)			x
29200	7210	10	Last Release Data Buffer		(2), (9)	x
29210	721A	10	Last 20 (most recent) Releases Data Buffer		(2), (9)	x
29220	7224	10	Last 20 Releases Data Buffer		(2), (9)	x
29230	722E	10	Last 20 Releases Data Buffer		(2), (9)	x
29240	7238	10	Last 20 Releases Data Buffer		(2), (9)	x
29250	7242	10	Last 20 Releases Data Buffer		(2), (9)	x
29260	724C	10	Last 20 Releases Data Buffer		(2), (9)	x
29270	7256	10	Last 20 Releases Data Buffer		(2), (9)	x
29280	7260	10	Last 20 Releases Data Buffer		(2), (9)	x
29290	726A	10	Last 20 Releases Data Buffer		(2), (9)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS

(7 of 64)

29300	7274	10	Last 20 Releases Data Buffer		(2), (9)	x
29310	727E	10	0x8000		(2), (9)	x
29320	7288	10	0x8000		(2), (9)	x
29330	7292	10	0x8000		(2), (9)	x
29340	729C	10	0x8000		(2), (9)	x
29350	72A6	10	0x8000		(2), (9)	x
29360	72B0	10	0x8000		(2), (9)	x
29370	72BA	10	0x8000		(2), (9)	x
29380	72C4	10	0x8000		(2), (9)	x
29390	72CE	10	0x8000		(2), (9)	x
29400	72D8	10	0x8000		(2), (9)	x
29410	72E2	1	G1 ("main setting")- Overload: levels	[A]/[%]	(1), (3)	x
29411	72E3	1	G1 - Overload: Times	[msec]	(1)	x
29412	72E4	1	G1 - Overload: options		(3)	x
29413	72E5	2	G1 - delayable short-circuit: levels	[A]/[%]	(1), (4)	x
29415	72E7	1	G1 - delayable short-circuit: Times	[msec]	(1)	x
29416	72E8	1	G1 - delayable short-circuit: options		(4)	x
29417	72E9	2	G1 - instantaneous short-circuit: levels	[A]/[%]	(1), (5)	x
29419	72EB	1	G1 - instantaneous short-circuit: Times	[msec]	(1)	x
29420	72EC	1	G1 - instantaneous short-circuit: options		(5)	x
29421	72ED	2	G1 - device protection: levels	[A]	(1), (6)	x
29423	72EF	1	G1 - device protection: Times	[msec]	(1)	x
29424	72F0	1	G1 - device protection: options		(6)	x
29425	72F1	1	G1 - earth: levels	[A]/[%]	(1), (7)	x
29426	72F2	1	G1 - earth: times	[msec]	(1)	x
29427	72F3	1	G1 - earth: options		(7)	x
29428	72F4	1	0x8000	[%]	(1), (8)	x
29429	72F5	1	0x8000	[msec]	(1)	x
29430	72F6	1	0x8000		(8)	x
29431	72F7	1	G1 - overtemperature protection: levels	[°C]	(1)	x
29432	72F8	1	0x8000	[msec]	(1)	x
29433	72F9	1	0x8000	[A]/[%]	(1), (3)	x
29434	72FA	1	0x8000	[msec]	(1)	x
29435	72FB	2	0x8000	[A]/[%]	(1), (4)	x
29437	72FD	1	0x8000	[msec]	(1)	x
29438	72FE	2	0x8000	[A]/[%]	(1), (5)	x
29440	7300	1	0x8000	[msec]	(1)	x
29441	7301	1	0x8000	[A]/[%]	(1), (7)	x
29442	7302	1	0x8000	[msec]	(1)	x

REMARKS:

(1)	Expressed in "numeric coding"
(2)	<p>DATA BUFFER Last releases: by reading all the ten words the values are returned in the values indicated below</p> <ul style="list-style-type: none"> •WORD9 : chronology, "year" (MSB) and "month" (LSB); it is the word that is returned first of all in the 10 – MSW block. •WORD8: chronology, "day" (MSB) and "time" (LSB) •WORD7: chronology, "minutes" (MSB) and "seconds" (LSB) •WORD6 and 5: current interrupted or temperature ("numeric coding" , [mA] or [°C], WORD6 is returned before WORD5) •WORD4: detail of protection settings that has caused the Trip (reply read only register of the "levels" type, see note (1)) •WORD3: detail of protection settings that has caused the Trip (reply Read Only register of the "Times" type , see note (1)) •WORD2: detail of protection settings that has caused the Trip (reply Read Only register of the "options" type, see note (3)to(6)) •WORD1: reply Read Only Bit of the "Tripped" type •WORD0: reply Read Only Bit of the "Tripped" type <p>N.B.: WORDs FROM 2 to 4 constitute a single datum and must be read and written in a block. The same applies to WORD 5 and 6, for WORD 7-8-9 and for WORD 0-1.</p> <p>WORD 1:</p> <ul style="list-style-type: none"> •Bit0 Instantaneous short-circuit relay tripped neutral •Bit1 Device Protection Relay Tripped phase 1("III element") •Bit2 Device Protection Relay Tripped phase 2 ("III element") •Bit3 Device Protection Relay Tripped phase 3 ("III element") •Bit4 Device Protection Relay Tripped neutral ("III element") •Bit5 Tripped relay in "Main Setting" Mode •Bit6 Tripped relay in "Dual Setting" Mode •Bit7 Tripped relay in "MEM=OFF" Mode on Overload •Bit8 Tripped relay in "I₂t=k" mode on delayable short-circuit •Bit 9 Tripped relay in "Logic Selectivity" mode on delayable short-circuit (intervention performed with Tm Delay) •Bit 10 Tripped relay in "Logic Selectivity" Mode on device protection (intervention carried out with Delay •SEL=High) •Bit 11 Tripped relay in "I₂t=k" Mode on earth •Bit 12 Earth leakage Tripped •Bit 13 ND •Bit 14 ND •Bit 15 Test Tripped (if Electronic Test only Bit15, if Earth Leakeage Test Bit15 and Bit12) <p>WORD 0:</p> <ul style="list-style-type: none"> •Bit0 Overload Tripped relay P. (no indication of phase) •Bit1 Short-circuit Tripped relay P. (no indications of phase) •Bit2 Device Protection Tripped relay ("III element", no indications of phase) •Bit3 Earth Tripped relay P. •Bit4 Overtemperature Tripped relay P. •Bit5 Overload phase 1 Tripped relay P. •Bit6 Overload phase 2 Tripped relay P. •Bit7 Overload phase 3 Tripped relay P. •Bit8 Overload neutral Tripped relay P. •Bit9 Delayable short-circuit phase 1 Tripped relay P. •Bit10 Delayable short-circuit phase 2 Tripped relay P. •Bit11 Delayable short-circuit phase 3 Tripped relay P. •Bit12 Delayable short-circuit neutral Tripped relay P. •Bit13 Instantaneous short-circuit phase 1 Tripped relay •Bit14 Instantaneous short-circuit Tripped relay phase 2 •Bit15 Instant short-circuit phase 3 Tripped relay
	Overload options

(3)	<ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=I_{2t}=k MEM OFF(001)/I_{2t}=k MEM ON(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I_{2t}, multiple of I_r)
(4)	<p>Delayable short-circuit options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*I_r(0) •Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I_{2t}, multiple of I_r)
(5)	<p>Instantaneous short-circuit options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) •Bit5= absolute val. divided by 10(1)/absolute value(0) •Bit7 to 6= "0" •Bit15 to 8=work point for curve I_{2t}, multiple of In)
(6)	<p>Device Protection options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2= "0" •Bit5= absolute val. divided by 10(1)/absolute value(0)
(7)	<p>Earth Options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I_{2t}, multiple of I_g)
(8)	<p>Neutral options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1="0" (%phase) •Bit4 to 2="0" (curve phase) •Bit7 to 5= "0" •Bit15 to 8="0")
(9)	If number of faults < 20, fill the chronology word with 0x0000

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	0x8000	[sec]	(1)	X

REMARKS:

(1)	<p>"Dual Setting" Command Configuration</p> <ul style="list-style-type: none"> •Bit10 to 0=activation time ("default"=60 sec, "0"=infinite) •Bit11 to 15="0"
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[N°3] - 3-Phase Measure E 3P - EVOLVED

**RETURN TO
TABLE OF MAPS**

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	0x8000	[A]	(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	0x8000	[V]	(2),(4)	
20495	500F	1	0x8000	[V]	(2),(4)	
20496	5010	1	0x8000	[V]	(2),(4)	
20497	5011	1	0x8000	[V]	(2),(4)	
20498	5012	1	0x8000	[V]	(2),(4)	
20499	5013	1	0x8000	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(11 of 64)

20508	501C	1	0x8000	%	(1)	
20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	0x8000	%	(2)	
20513	5021	1	0x8000	%	(2)	
20514	5022	1	0x8000	%	(2)	
20515	5023	1	0x8000	%	(2)	
20516	5024	1	0x8000	%	(2)	
20517	5025	1	0x8000	%	(2)	
20518	5026	1	0x8000	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	0x8000	[kW]	(1),(4)	
20523	502B	1	0x8000	[kvar]	(1),(4)	
20524	502C	1	0x8000	[kvar]	(1)	
20525	502D	1	0x8000	[kvar]	(2)	
20526	502E	1	0x8000	[kVA]	(1),(4)	
20527	502F	1	0x8000	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	0x8000	[Hz]/100	(1),(3)	
20530	5032	2	0x8000	[kWh]	(1)	x
20532	5034	2	0x8000	[kWh]	(2),(4)	x
20534	5036	2	0x8000	[kWh]	(2),(4)	x
20536	5038	2	0x8000	[kvarh]	(1)	x
20538	503A	2	0x8000	[kvarh]	(2),(4)	x
20540	503C	2	0x8000	[kvarh]	(2),(4)	x
20542	503E	2	0x8000	[kVAh]	(2)	x
20544	5040	1	0x8000	[kW]	(1),(4)	
20545	5041	1	0x8000	[kW]	(1),(4)	
20546	5042	1	0x8000	[kW]	(1),(4)	
20547	5043	1	0x8000	[kvar]	(1),(4)	
20548	5044	1	0x8000	[kvar]	(1),(4)	
20549	5045	1	0x8000	[kvar]	(1),(4)	
20550	5046	1	0x8000	[kvar]	(1)	
20551	5047	1	0x8000	[kvar]	(1)	
20552	5048	1	0x8000	[kvar]	(1)	
20553	5049	1	0x8000	[kvar]	(2)	
20554	504A	1	0x8000	[kvar]	(2)	
20555	504B	1	0x8000	[kvar]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x8000	[kWh]	(2),(4)	x
20567	5057	2	0x8000	[kWh]	(2),(4)	x
20569	5059	2	0x8000	[kWh]	(2),(4)	x
20571	505B	2	0x8000	[kWh]	(2),(4)	x
20573	505D	2	0x8000	[kWh]	(2),(4)	x
20575	505F	2	0x8000	[kWh]	(2),(4)	x
20577	5061	2	0x8000	[kvarh]	(2),(4)	x
20579	5063	2	0x8000	[kvarh]	(2),(4)	x
20581	5065	2	0x8000	[kvarh]	(2),(4)	x
20583	5067	2	0x8000	[kvarh]	(2),(4)	x
20585	5069	2	0x8000	[kvarh]	(2),(4)	x
20587	506B	2	0x8000	[kvarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(12 of 64)

20590	506E	1	0x8000	[A]	(2)	x
20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kvar]	(1)	x
20600	5078	1	0x8000	[kvar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x
20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(13 of 64)

20653	50AD	1	0x8000	%	(2)	x
20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x
20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(14 of 64)

20716	50EC	1	0x8000	%	(2)	x
20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(5)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(4)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x8000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	Current multiplication factor		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x8000		(1)(4)	x
20496	5010	1	0x8000	sec.	(1)	x
20497	5011	1	0x8000	0.1 %	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x8000		(1)(4)	x
20502	5016	1	0x8000	sec.	(1)	x
20503	5017	1	0x8000	0.1 %	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x8000		(1)(4)	x
20508	501C	1	0x8000	sec.	(1)	x
20509	501D	1	0x8000	0.1 %	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x8000		(1)(4)	x
20514	5022	1	0x8000	sec.	(1)	x
20515	5023	1	0x8000	0.1 %	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x8000		(1)(4)	x
20520	5028	1	0x8000	sec.	(1)	x
20521	5029	1	0x8000	0.1 %	(1)	x
20522	502A	1	0x8000		(6)	x
20523	502B	1	0x8000		(5)	x

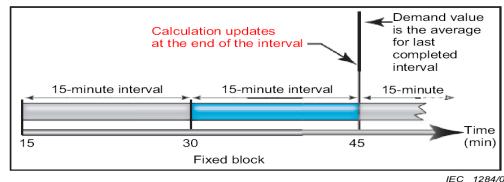
"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(15 of 64)

20524	502C	2	0x8000		(1)(4)	x
20526	502E	1	0x8000	sec.	(1)	x
20527	502F	1	0x8000	0.1 %	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x8000		(1)(4)	x
20532	5034	1	0x8000	sec.	(1)	x
20533	5035	1	0x8000	0.1 %	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x8000		(1)(4)	x
20538	503A	1	0x8000	sec.	(1)	x
20539	503B	1	0x8000	0.1 %	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x8000		(1)(4)	x
20544	5040	1	0x8000	sec.	(1)	x
20545	5041	1	0x8000	0.1 %	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x8000		(1)(4)	x
20550	5046	1	0x8000	sec.	(1)	x
20551	5047	1	0x8000	0.1 %	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x8000	[kWh]	(1)	x
20555	504B	2	0x8000	[kWh]	(2)	x
20557	504D	2	0x8000	[kWh]	(2)	x
20559	504F	2	0x8000	[kvarh]	(1)	x
20561	5051	2	0x8000	[kvarh]	(2)	x
20563	5053	2	0x8000	[kvarh]	(2)	x
20565	5055	2	0x8000	[kVAh]	(2)	x
20567	5057	2	0x8000	[kWh]	(2)	x
20569	5059	2	0x8000	[kWh]	(2)	x
20571	505B	2	0x8000	[kWh]	(2)	x
20573	505D	2	0x8000	[kWh]	(2)	x
20575	505F	2	0x8000	[kWh]	(2)	x
20577	5061	2	0x8000	[kWh]	(2)	x
20579	5063	2	0x8000	[kvarh]	(2)	x
20581	5065	2	0x8000	[kvarh]	(2)	x
20583	5067	2	0x8000	[kvarh]	(2)	x
20585	5069	2	0x8000	[kvarh]	(2)	x
20587	506B	2	0x8000	[kvarh]	(2)	x
20589	506D	2	0x8000	[kvarh]	(2)	x

REMARKS:

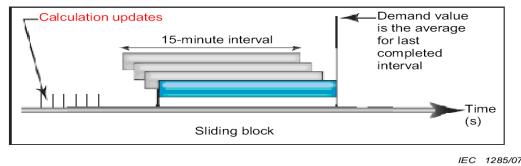
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[N°4] - 3-Phase Elect Proct S 4P - STANDARD

[RETURN TO
TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	Overload Prealarm (>threshold I1)		(1)	
29185	7201	1	Overload alarm (>threshold I2)		(1)	
29186	7202	1	0		(1)	
29187	7203	1	0		(1)	
29188	7204	1	Alarm 1 Overtemperature (>threshold T)		(1)	
29189	7205	1	0		(1)	
29190	7206	1	0		(1)	
29191	7207	1	0		(1)	
29192	7208	1	0		(1)	
29193	7209	1	Overload Tripped relay P. (no indication of phase)		(2)	x
29194	720A	1	Short-circuit Tripped relay P. (no indications of phase)		(2)	x
29195	720B	1	Device Protection Tripped relay ("III element", no indications of phase)		(2)	x
29196	720C	1	Earth Tripped relay P.		(2)	x
29197	720D	1	Tripped relay P. Overtemperature		(2)	x
29198	720E	1	0		(2)	x
29199	720F	1	0		(2)	x
29200	7210	1	0		(2)	x
29201	7211	1	0		(2)	x
29202	7212	1	0		(2)	x
29203	7213	1	0		(2)	x
29204	7214	1	0		(2)	x
29205	7215	1	0		(2)	x
29206	7216	1	0		(2)	x
29207	7217	1	0		(2)	x
29208	7218	1	0		(2)	x
29209	7219	1	0		(2)	x
29210	721A	1	0		(2)	x
29211	721B	1	0		(2)	x
29212	721C	1	0		(2)	x
29213	721D	1	0		(2)	x
29214	721E	1	0		(2)	x
29215	721F	1	0		(2)	x
29216	7220	1	0		(2)	x
29217	7221	1	0		(2)	x
29218	7222	1	0		(2)	x
29219	7223	1	0		(2)	x
29220	7224	1	0		(2)	x
29221	7225	1	0		(1)	
29222	7226	1	0		(1)	
29223	7227	1	0		(1)	
29224	7228	1	0		(1)	
29225	7229	1	0		(1)	
29226	722A	1	0		(1)	
29227	722B	1	0		(1)	
29228	722C	1	0		(1)	
29229	722D	1	0		(1)	
29230	722E	1	0		(1)	
29231	722F	1	0		(1)	
29232	7230	1	0		(3)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(18 of 64)

REMARKS:

(1)	The information shown here "restores" itself when the condition that has generated it no longer applies
(2)	<p>The information shown here applies even when the condition generating it has disappeared. the "restore" conditions can be (equivalent, alternatively):</p> <ul style="list-style-type: none"> •the measurement of the Closed Status of the Device •the measurement of a minimum current value on the phases. <p>The Switch Status Functionality is therefore not binding (Example : if the switch is returned to Open => the Tripped relay notification must be kept until the restore condition kicks in).</p>
(3)	<p>It indicates that an anomaly has been detected in the "Dual Setting" settings, in particular one or more levels have been found to be greater than the corresponding "Main Setting".</p>

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	0			
29185	7201	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	2	0x8000	[A ²]	(1)	
29186	7202	2	0x8000	[A ²]	(1)	
29188	7204	2	0x8000	[A ²]	(1)	
29190	7206	2	0x8000	[A ²]	(1)	
29192	7208	2	0x8000	[A ²]	(1)	
29194	720A	1	Overload Tripped relay P counter (total) (no indication of phase)			x
29195	720B	1	Delayable Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29196	720C	1	Instantaneous Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29197	720D	1	Device protection Tripped relay counter (total) ("III element", no indications of phase)			x
29198	720E	1	Earth Tripped relay P counter (total)			x
29199	720F	1	Overtemperature Tripped relay P counter (total)			x
29200	7210	10	Last Release Data Buffer		(2), (9)	x
29210	721A	10	Last 20 (most recent) Releases Data Buffer		(2), (9)	x
29220	7224	10	Last 20 Releases Data Buffer		(2), (9)	x
29230	722E	10	Last 20 Releases Data Buffer		(2), (9)	x
29240	7238	10	Last 20 Releases Data Buffer		(2), (9)	x
29250	7242	10	Last 20 Releases Data Buffer		(2), (9)	x
29260	724C	10	Last 20 Releases Data Buffer		(2), (9)	x
29270	7256	10	Last 20 Releases Data Buffer		(2), (9)	x
29280	7260	10	Last 20 Releases Data Buffer		(2), (9)	x
29290	726A	10	Last 20 Releases Data Buffer		(2), (9)	x
29300	7274	10	Last 20 Releases Data Buffer		(2), (9)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(19 of 64)

29310	727E	10	0x8000		(2), (9)	x
29320	7288	10	0x8000		(2), (9)	x
29330	7292	10	0x8000		(2), (9)	x
29340	729C	10	0x8000		(2), (9)	x
29350	72A6	10	0x8000		(2), (9)	x
29360	72B0	10	0x8000		(2), (9)	x
29370	72BA	10	0x8000		(2), (9)	x
29380	72C4	10	0x8000		(2), (9)	x
29390	72CE	10	0x8000		(2), (9)	x
29400	72D8	10	0x8000		(2), (9)	x
29410	72E2	1	G1 ("main setting")- Overload: levels	[A]/[%]	(1), (3)	x
29411	72E3	1	G1 - Overload: Times	[msec]	(1)	x
29412	72E4	1	G1 - Overload: options		(3)	x
29413	72E5	2	G1 - delayable short-circuit: levels	[A]/[%]	(1), (4)	x
29415	72E7	1	G1 - delayable short-circuit: Times	[msec]	(1)	x
29416	72E8	1	G1 - delayable short-circuit: options		(4)	x
29417	72E9	2	G1 - instantaneous short-circuit: levels	[A]/[%]	(1), (5)	x
29419	72EB	1	G1 - instantaneous short-circuit: Times	[msec]	(1)	x
29420	72EC	1	G1 - instantaneous short-circuit: options		(5)	x
29421	72ED	2	G1 - device protection: levels	[A]	(1), (6)	x
29423	72EF	1	G1 - device protection: Times	[msec]	(1)	x
29424	72F0	1	G1 - device protection: options		(6)	x
29425	72F1	1	G1 - earth: levels	[A]/[%]	(1), (7)	x
29426	72F2	1	G1 - earth: times	[msec]	(1)	x
29427	72F3	1	G1 - earth: options		(7)	x
29428	72F4	1	G1 - neutral protection: levels	[%]	(1), (8)	x
29429	72F5	1	0x8000	[msec]	(1)	x
29430	72F6	1	G1 - neutral protection: options		(8)	x
29431	72F7	1	G1 - overtemperature protection: levels	[°C]	(1)	x
29432	72F8	1	0x8000	[msec]	(1)	x
29433	72F9	1	0x8000	[A]/[%]	(1), (3)	x
29434	72FA	1	0x8000	[msec]	(1)	x
29435	72FB	2	0x8000	[A]/[%]	(1), (4)	x
29437	72FD	1	0x8000	[msec]	(1)	x
29438	72FE	2	0x8000	[A]/[%]	(1), (5)	x
29440	7300	1	0x8000	[msec]	(1)	x
29441	7301	1	0x8000	[A]/[%]	(1), (7)	x
29442	7302	1	0x8000	[msec]	(1)	x

REMARKS:

(1)	Expressed in "numeric coding"
(2)	<p>DATA BUFFER Last releases: by reading all the ten words the values are returned in the values indicated below</p> <ul style="list-style-type: none"> •WORD9 : chronology, "year" (MSB) and "month" (LSB); it is the word that is returned first of all in the 10 – MSW block. •WORD8: chronology, "day" (MSB) and "time" (LSB) •WORD7: chronology, "minutes" (MSB) and "seconds" (LSB) •WORD6 and 5: current interrupted or temperature ("numeric coding" , [mA] or [°C], WORD6 is returned before WORD5) •WORD4: detail of protection settings that has caused the Trip (reply read only register of the "levels" type, see note (1)) •WORD3: detail of protection settings that has caused the Trip (reply Read Only register of the "Times" type , see note (1)) •WORD2: detail of protection settings that has caused the Trip (reply Read Only register of the "options" type, see note (3)to(6)) •WORD1: reply Read Only Bit of the "Tripped" type •WORD0: reply Read Only Bit of the "Tripped" type <p>N.B.: WORDs FROM 2 to 4 constitute a single datum and must be read and written in a block. The same applies to WORD 5 and 6, for WORD 7-8-9 and for WORD 0-1.</p> <p>WORD 1:</p> <ul style="list-style-type: none"> •Bit0 Instantaneous short-circuit relay tripped neutral •Bit1 Device Protection Relay Tripped phase 1("III element") •Bit2 Device Protection Relay Tripped phase 2 ("III element") •Bit3 Device Protection Relay Tripped phase 3 ("III element") •Bit4 Device Protection Relay Tripped neutral ("III element") •Bit5 Tripped relay in "Main Setting" Mode •Bit6 Tripped relay in "Dual Setting" Mode •Bit7 Tripped relay in "MEM=OFF" Mode on Overload •Bit8 Tripped relay in "I₂t=k" mode on delayable short-circuit •Bit 9 Tripped relay in "Logic Selectivity" mode on delayable short-circuit (intervention performed with Tm Delay) •Bit 10 Tripped relay in "Logic Selectivity" Mode on device protection (intervention carried out with Delay •SEL=High) •Bit 11 Tripped relay in "I₂t=k" Mode on earth •Bit 12 Earth leakage Tripped •Bit 13 ND •Bit 14 ND •Bit 15 Test Tripped (if Electronic Test only Bit15, if Earth Leakeage Test Bit15 and Bit12) <p>WORD 0:</p> <ul style="list-style-type: none"> •Bit0 Overload Tripped relay P. (no indication of phase) •Bit1 Short-circuit Tripped relay P. (no indications of phase) •Bit2 Device Protection Tripped relay ("III element", no indications of phase) •Bit3 Earth Tripped relay P. •Bit4 Overtemperature Tripped relay P. •Bit5 Overload phase 1 Tripped relay P. •Bit6 Overload phase 2 Tripped relay P. •Bit7 Overload phase 3 Tripped relay P. •Bit8 Overload neutral Tripped relay P. •Bit9 Delayable short-circuit phase 1 Tripped relay P. •Bit10 Delayable short-circuit phase 2 Tripped relay P. •Bit11 Delayable short-circuit phase 3 Tripped relay P. •Bit12 Delayable short-circuit neutral Tripped relay P. •Bit13 Instantaneous short-circuit phase 1 Tripped relay •Bit14 Instantaneous short-circuit Tripped relay phase 2 •Bit15 Instant short-circuit phase 3 Tripped relay

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(21 of 64)

(3)	Overload options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%In(0) • Bit4 to 2=I_{2t}=k MEM OFF(001)/I_{2t}=k MEM ON(000)/Not Defined(111) • Bit7 to 5= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of I_r)
(4)	Delayable short-circuit options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%I_r(0) • Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) • Bit7 to 5= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of I_r)
(5)	Instantaneous short-circuit options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%In(0) • Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) • Bit5= absolute val. divided by 10(1)/absolute value(0) • Bit7 to 6= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of In)
(6)	Device Protection options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%In(0) • Bit4 to 2= "0" • Bit5= absolute val. divided by 10(1)/absolute value(0)
(7)	Earth Options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%In(0) • Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) • Bit7 to 5= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of I_g)
(8)	Neutral options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1="0" (%phase) • Bit4 to 2="0" (curve phase) • Bit7 to 5= "0" • Bit15 to 8="0")
(9)	If number of faults < 20, fill the chronology word with 0x0000

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	0x8000	[sec]	(1)	X

REMARKS:

(1)	"Dual Setting" Command Configuration <ul style="list-style-type: none"> • Bit10 to 0=activation time ("default"=60 sec, "0"=infinite) • Bit11 to 15="0"
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[5] - 3-Phase Measure E 4P - EVOLVED

[RETURN TO
TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	Neutral Current Value	[A]	(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	0x8000	[V]	(2),(4)	
20495	500F	1	0x8000	[V]	(2),(4)	
20496	5010	1	0x8000	[V]	(2),(4)	
20497	5011	1	0x8000	[V]	(2),(4)	
20498	5012	1	0x8000	[V]	(2),(4)	
20499	5013	1	0x8000	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(23 of 64)

20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	0x8000	%	(2)	
20513	5021	1	0x8000	%	(2)	
20514	5022	1	0x8000	%	(2)	
20515	5023	1	0x8000	%	(2)	
20516	5024	1	0x8000	%	(2)	
20517	5025	1	0x8000	%	(2)	
20518	5026	1	0x8000	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	0x8000	[kW]	(1),(4)	
20523	502B	1	0x8000	[kvar]	(1),(4)	
20524	502C	1	0x8000	[kvar]	(1)	
20525	502D	1	0x8000	[kvar]	(2)	
20526	502E	1	0x8000	[kVA]	(1),(4)	
20527	502F	1	0x8000	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	0x8000	[Hz]/100	(1),(3)	
20530	5032	2	0x8000	[kWh]	(1)	x
20532	5034	2	0x8000	[kWh]	(2),(4)	x
20534	5036	2	0x8000	[kWh]	(2),(4)	x
20536	5038	2	0x8000	[kvarh]	(1)	x
20538	503A	2	0x8000	[kvarh]	(2),(4)	x
20540	503C	2	0x8000	[kvarh]	(2),(4)	x
20542	503E	2	0x8000	[kVAh]	(2)	x
20544	5040	1	0x8000	[kW]	(1),(4)	
20545	5041	1	0x8000	[kW]	(1),(4)	
20546	5042	1	0x8000	[kW]	(1),(4)	
20547	5043	1	0x8000	[kvar]	(1),(4)	
20548	5044	1	0x8000	[kvar]	(1),(4)	
20549	5045	1	0x8000	[kvar]	(1),(4)	
20550	5046	1	0x8000	[kvar]	(1)	
20551	5047	1	0x8000	[kvar]	(1)	
20552	5048	1	0x8000	[kvar]	(1)	
20553	5049	1	0x8000	[kvar]	(2)	
20554	504A	1	0x8000	[kvar]	(2)	
20555	504B	1	0x8000	[kvar]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x8000	[kWh]	(2),(4)	x
20567	5057	2	0x8000	[kWh]	(2),(4)	x
20569	5059	2	0x8000	[kWh]	(2),(4)	x
20571	505B	2	0x8000	[kWh]	(2),(4)	x
20573	505D	2	0x8000	[kWh]	(2),(4)	x
20575	505F	2	0x8000	[kWh]	(2),(4)	x
20577	5061	2	0x8000	[kvarh]	(2),(4)	x
20579	5063	2	0x8000	[kvarh]	(2),(4)	x
20581	5065	2	0x8000	[kvarh]	(2),(4)	x
20583	5067	2	0x8000	[kvarh]	(2),(4)	x
20585	5069	2	0x8000	[kvarh]	(2),(4)	x
20587	506B	2	0x8000	[kvarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(24 of 64)

20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kvar]	(1)	x
20600	5078	1	0x8000	[kvar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x
20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(25 of 64)

20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50EO	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x
20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(26 of 64)

20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(3)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x8000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	Current multiplication factor		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x8000		(1)(4)	x
20496	5010	1	0x8000	sec.	(1)	x
20497	5011	1	0x8000	0.1 %	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x8000		(1)(4)	x
20502	5016	1	0x8000	sec.	(1)	x
20503	5017	1	0x8000	0.1 %	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x8000		(1)(4)	x
20508	501C	1	0x8000	sec.	(1)	x
20509	501D	1	0x8000	0.1 %	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x8000		(1)(4)	x
20514	5022	1	0x8000	sec.	(1)	x
20515	5023	1	0x8000	0.1 %	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x8000		(1)(4)	x
20520	5028	1	0x8000	sec.	(1)	x
20521	5029	1	0x8000	0.1 %	(1)	x
20522	502A	1	0x8000		(6)	x
20523	502B	1	0x8000		(5)	x
20524	502C	2	0x8000		(1)(4)	x
20526	502E	1	0x8000	sec.	(1)	x

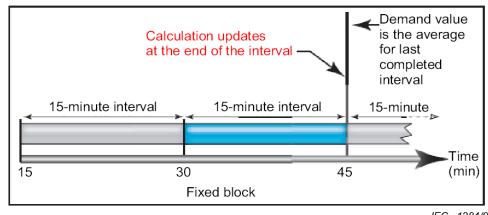
"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(27 of 64)

20527	502F	1	0x8000	0.1 %	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x8000		(1)(4)	x
20532	5034	1	0x8000	sec.	(1)	x
20533	5035	1	0x8000	0.1 %	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x8000		(1)(4)	x
20538	503A	1	0x8000	sec.	(1)	x
20539	503B	1	0x8000	0.1 %	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x8000		(1)(4)	x
20544	5040	1	0x8000	sec.	(1)	x
20545	5041	1	0x8000	0.1 %	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x8000		(1)(4)	x
20550	5046	1	0x8000	sec.	(1)	x
20551	5047	1	0x8000	0.1 %	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x8000	[kWh]	(1)	x
20555	504B	2	0x8000	[kWh]	(2)	x
20557	504D	2	0x8000	[kWh]	(2)	x
20559	504F	2	0x8000	[kvarh]	(1)	x
20561	5051	2	0x8000	[kvarh]	(2)	x
20563	5053	2	0x8000	[kvarh]	(2)	x
20565	5055	2	0x8000	[kVAh]	(2)	x
20567	5057	2	0x8000	[kWh]	(2)	x
20569	5059	2	0x8000	[kWh]	(2)	x
20571	505B	2	0x8000	[kWh]	(2)	x
20573	505D	2	0x8000	[kWh]	(2)	x
20575	505F	2	0x8000	[kWh]	(2)	x
20577	5061	2	0x8000	[kWh]	(2)	x
20579	5063	2	0x8000	[kvarh]	(2)	x
20581	5065	2	0x8000	[kvarh]	(2)	x
20583	5067	2	0x8000	[kvarh]	(2)	x
20585	5069	2	0x8000	[kvarh]	(2)	x
20587	506B	2	0x8000	[kvarh]	(2)	x
20589	506D	2	0x8000	[kvarh]	(2)	x

REMARKS:

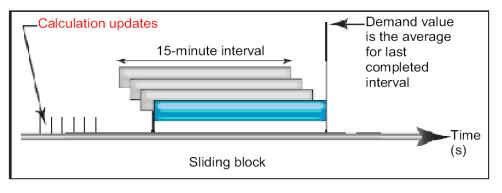
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) <ul style="list-style-type: none"> • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) <ul style="list-style-type: none"> • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB): calculation mode <ul style="list-style-type: none"> • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB): calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[6] - 3-Phase Measure M 3P - EVOLVED

RETURN TO
 TABLE OF MAPS

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	0x8000	[A]	(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	0x8000	[V]	(2),(4)	
20495	500F	1	0x8000	[V]	(2),(4)	
20496	5010	1	0x8000	[V]	(2),(4)	
20497	5011	1	Voltage 1-2	[V]	(2),(4)	
20498	5012	1	Voltage1-3	[V]	(2),(4)	
20499	5013	1	Voltage 2-3	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(30 of 64)

20508	501C	1	0x8000	%	(1)	
20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	THD Phase 1 (R) vs. fundamental current	%	(2)	
20513	5021	1	THD Phase 2 (S) vs. fundamental current	%	(2)	
20514	5022	1	THD Phase 3 (T) vs. fundamental current	%	(2)	
20515	5023	1	0x8000	%	(2)	
20516	5024	1	0x8000	%	(2)	
20517	5025	1	0x8000	%	(2)	
20518	5026	1	0x8000	%	(2)	
20519	5027	1	THD Voltage 1-2 vs. fundamental	%	(2)	
20520	5028	1	THD Voltage 1-3 vs. fundamental	%	(2)	
20521	5029	1	THD Voltage 2-3 vs. fundamental	%	(2)	
20522	502A	1	Three-phase active power	[kW]	(1),(4)	
20523	502B	1	Three-phase reactive power	[kvar]	(1),(4)	
20524	502C	1	0x8000	[kvar]	(1)	
20525	502D	1	0x8000	[kvar]	(2)	
20526	502E	1	Three-phase Apparent Power	[kVA]	(1),(4)	
20527	502F	1	Three-phase power factor (PF)	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	Three-phase Frequency	[Hz]/100	(1),(3)	
20530	5032	2	0x8000	[kWh]	(1)	x
20532	5034	2	Positive Three-phase Active Energy	[kWh]	(2),(4)	x
20534	5036	2	Negative Three-phase Active Energy	[kWh]	(2),(4)	x
20536	5038	2	0x8000	[kvarh]	(1)	x
20538	503A	2	Positive Three-phase Reactive Energy	[kvarh]	(2),(4)	x
20540	503C	2	Negative Three-phase Reactive Energy	[kvarh]	(2),(4)	x
20542	503E	2	0x8000	[kVAh]	(2)	x
20544	5040	1	Phase 1 Active Power (R)	[kW]	(1),(4)	
20545	5041	1	Phase 2 Active Power (S)	[kW]	(1),(4)	
20546	5042	1	Phase 3 active power (T)	[kW]	(1),(4)	
20547	5043	1	Reactive Power phase 1 (R)	[kvar]	(1),(4)	
20548	5044	1	Reactive Power phase 2 (S)	[kvar]	(1),(4)	
20549	5045	1	Reactive Power phase 3 (T)	[kvar]	(1),(4)	
20550	5046	1	0x8000	[kvar]	(1)	
20551	5047	1	0x8000	[kvar]	(1)	
20552	5048	1	0x8000	[kvar]	(1)	
20553	5049	1	0x8000	[kvar]	(2)	
20554	504A	1	0x8000	[kvar]	(2)	
20555	504B	1	0x8000	[kvar]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x8000	[kWh]	(2),(4)	x
20567	5057	2	0x8000	[kWh]	(2),(4)	x
20569	5059	2	0x8000	[kWh]	(2),(4)	x
20571	505B	2	0x8000	[kWh]	(2),(4)	x
20573	505D	2	0x8000	[kWh]	(2),(4)	x
20575	505F	2	0x8000	[kWh]	(2),(4)	x
20577	5061	2	0x8000	[kvarh]	(2),(4)	x
20579	5063	2	0x8000	[kvarh]	(2),(4)	x
20581	5065	2	0x8000	[kvarh]	(2),(4)	x
20583	5067	2	0x8000	[kvarh]	(2),(4)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(31 of 64)

20585	5069	2	0x8000	[kvarh]	(2),(4)	x
20587	506B	2	0x8000	[kvarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x
20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kvar]	(1)	x
20600	5078	1	0x8000	[kvar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(32 of 64)

20650	50AA	1	0x8000	%	(2)	x
20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x
20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(33 of 64)

20713	50E9	1	0x8000	%	(2)	x
20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x
20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(3)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Measurement System Features		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x8000		(7)	x
20487	5007	1	Voltage multiplication factor		(1)	x
20488	5008	1	Current multiplication factor		(1)	x
20489	5009	1	Total Power multiplication factor		(1)	x
20490	500A	1	Phase Power multiplication factor		(1)	x
20491	500B	1	Total Energy multiplication factor		(1)	x
20492	500C	1	Phase Energy multiplication factor		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x8000		(1)(4)	x
20496	5010	1	0x8000	sec.	(1)	x
20497	5011	1	0x8000	0.1 %	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x8000		(1)(4)	x
20502	5016	1	0x8000	sec.	(1)	x
20503	5017	1	0x8000	0.1 %	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x8000		(1)(4)	x
20508	501C	1	0x8000	sec.	(1)	x
20509	501D	1	0x8000	0.1 %	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x8000		(1)(4)	x
20514	5022	1	0x8000	sec.	(1)	x
20515	5023	1	0x8000	0.1 %	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x8000		(1)(4)	x
20520	5028	1	0x8000	sec.	(1)	x
20521	5029	1	0x8000	0.1 %	(1)	x

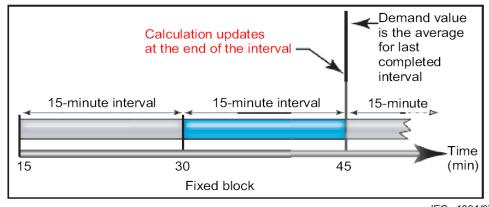
"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(34 of 64)

20522	502A	1	0x8000		(6)	x
20523	502B	1	0x8000		(5)	x
20524	502C	2	0x8000		(1)(4)	x
20526	502E	1	0x8000	sec.	(1)	x
20527	502F	1	0x8000	0.1 %	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x8000		(1)(4)	x
20532	5034	1	0x8000	sec.	(1)	x
20533	5035	1	0x8000	0.1 %	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x8000		(1)(4)	x
20538	503A	1	0x8000	sec.	(1)	x
20539	503B	1	0x8000	0.1 %	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x8000		(1)(4)	x
20544	5040	1	0x8000	sec.	(1)	x
20545	5041	1	0x8000	0.1 %	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x8000		(1)(4)	x
20550	5046	1	0x8000	sec.	(1)	x
20551	5047	1	0x8000	0.1 %	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x8000	[kWh]	(1)	x
20555	504B	2	0x8000	[kWh]	(2)	x
20557	504D	2	0x8000	[kWh]	(2)	x
20559	504F	2	0x8000	[kvarh]	(1)	x
20561	5051	2	0x8000	[kvarh]	(2)	x
20563	5053	2	0x8000	[kvarh]	(2)	x
20565	5055	2	0x8000	[kVAh]	(2)	x
20567	5057	2	0x8000	[kWh]	(2)	x
20569	5059	2	0x8000	[kWh]	(2)	x
20571	505B	2	0x8000	[kWh]	(2)	x
20573	505D	2	0x8000	[kWh]	(2)	x
20575	505F	2	0x8000	[kWh]	(2)	x
20577	5061	2	0x8000	[kWh]	(2)	x
20579	5063	2	0x8000	[kvarh]	(2)	x
20581	5065	2	0x8000	[kvarh]	(2)	x
20583	5067	2	0x8000	[kvarh]	(2)	x
20585	5069	2	0x8000	[kvarh]	(2)	x
20587	506B	2	0x8000	[kvarh]	(2)	x
20589	506D	2	0x8000	[kvarh]	(2)	x

REMARKS:

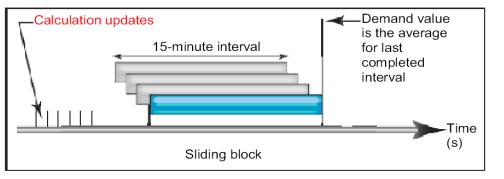
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[7] - 3-Phase Measure M 4P - EVOLVED

RETURN TO
TABLE OF MAPS

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	Neutral Current Value	[A]	(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	Voltage 1-N	[V]	(2),(4)	
20495	500F	1	Voltage 2-N	[V]	(2),(4)	
20496	5010	1	Voltage 3-N	[V]	(2),(4)	
20497	5011	1	Voltage 1-2	[V]	(2),(4)	
20498	5012	1	Voltage1-3	[V]	(2),(4)	
20499	5013	1	Voltage 2-3	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(37 of 64)

20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	THD Phase 1 (R) vs. fundamental current	%	(2)	
20513	5021	1	THD Phase 2 (S) vs. fundamental current	%	(2)	
20514	5022	1	THD Phase 3 (T) vs. fundamental current	%	(2)	
20515	5023	1	THD Neutral vs. fundamental current	%	(2)	
20516	5024	1	THD Voltage 1-N vs. fundamental	%	(2)	
20517	5025	1	THD Voltage 2-N vs. fundamental	%	(2)	
20518	5026	1	THD Voltage 3-N vs. fundamental	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	Three-phase active power	[kW]	(1),(4)	
20523	502B	1	Three-phase reactive power	[kvar]	(1),(4)	
20524	502C	1	0x8000	[kvar]	(1)	
20525	502D	1	0x8000	[kvar]	(2)	
20526	502E	1	Three-phase Apparent Power	[kVA]	(1),(4)	
20527	502F	1	Three-phase power factor (PF)	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	Three-phase Frequency	[Hz]/100	(1),(3)	
20530	5032	2	0x8000	[kWh]	(1)	x
20532	5034	2	Positive Three-phase Active Energy	[kWh]	(2),(4)	x
20534	5036	2	Negative Three-phase Active Energy	[kWh]	(2),(4)	x
20536	5038	2	0x8000	[kvarh]	(1)	x
20538	503A	2	Positive Three-phase Reactive Energy	[kvarh]	(2),(4)	x
20540	503C	2	Negative Three-phase Reactive Energy	[kvarh]	(2),(4)	x
20542	503E	2	0x8000	[kVAh]	(2)	x
20544	5040	1	Phase 1 Active Power (R)	[kW]	(1),(4)	
20545	5041	1	Phase 2 Active Power (S)	[kW]	(1),(4)	
20546	5042	1	Phase 3 active power (T)	[kW]	(1),(4)	
20547	5043	1	Reactive Power phase 1 (R)	[kvar]	(1),(4)	
20548	5044	1	Reactive Power phase 2 (S)	[kvar]	(1),(4)	
20549	5045	1	Reactive Power phase 3 (T)	[kvar]	(1),(4)	
20550	5046	1	0x8000	[kvar]	(1)	
20551	5047	1	0x8000	[kvar]	(1)	
20552	5048	1	0x8000	[kvar]	(1)	
20553	5049	1	0x8000	[kvar]	(2)	
20554	504A	1	0x8000	[kvar]	(2)	
20555	504B	1	0x8000	[kvar]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x8000	[kWh]	(2),(4)	x
20567	5057	2	0x8000	[kWh]	(2),(4)	x
20569	5059	2	0x8000	[kWh]	(2),(4)	x
20571	505B	2	0x8000	[kWh]	(2),(4)	x
20573	505D	2	0x8000	[kWh]	(2),(4)	x
20575	505F	2	0x8000	[kWh]	(2),(4)	x
20577	5061	2	0x8000	[kvarh]	(2),(4)	x
20579	5063	2	0x8000	[kvarh]	(2),(4)	x
20581	5065	2	0x8000	[kvarh]	(2),(4)	x
20583	5067	2	0x8000	[kvarh]	(2),(4)	x
20585	5069	2	0x8000	[kvarh]	(2),(4)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(38 of 64)

20587	506B	2	0x8000	[kvarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x
20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kvar]	(1)	x
20600	5078	1	0x8000	[kvar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(39 of 64)

20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x
20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(40 of 64)

20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x
20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(3)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Measurement System Features		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x8000		(7)	x
20487	5007	1	Voltage multiplication factor		(1)	x
20488	5008	1	Current multiplication factor		(1)	x
20489	5009	1	Total Power multiplication factor		(1)	x
20490	500A	1	Phase Power multiplication factor		(1)	x
20491	500B	1	Total Energy multiplication factor		(1)	x
20492	500C	1	Phase Energy multiplication factor		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x8000		(1)(4)	x
20496	5010	1	0x8000	sec.	(1)	x
20497	5011	1	0x8000	0.1 %	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x8000		(1)(4)	x
20502	5016	1	0x8000	sec.	(1)	x
20503	5017	1	0x8000	0.1 %	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x8000		(1)(4)	x
20508	501C	1	0x8000	sec.	(1)	x
20509	501D	1	0x8000	0.1 %	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x8000		(1)(4)	x
20514	5022	1	0x8000	sec.	(1)	x
20515	5023	1	0x8000	0.1 %	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x8000		(1)(4)	x
20520	5028	1	0x8000	sec.	(1)	x
20521	5029	1	0x8000	0.1 %	(1)	x
20522	502A	1	0x8000		(6)	x

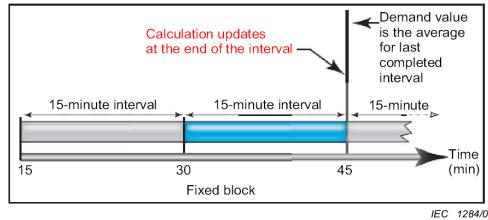
"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(41 of 64)

20523	502B	1	0x8000		(5)	x
20524	502C	2	0x8000		(1)(4)	x
20526	502E	1	0x8000	sec.	(1)	x
20527	502F	1	0x8000	0.1 %	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x8000		(1)(4)	x
20532	5034	1	0x8000	sec.	(1)	x
20533	5035	1	0x8000	0.1 %	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x8000		(1)(4)	x
20538	503A	1	0x8000	sec.	(1)	x
20539	503B	1	0x8000	0.1 %	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x8000		(1)(4)	x
20544	5040	1	0x8000	sec.	(1)	x
20545	5041	1	0x8000	0.1 %	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x8000		(1)(4)	x
20550	5046	1	0x8000	sec.	(1)	x
20551	5047	1	0x8000	0.1 %	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x8000	[kWh]	(1)	x
20555	504B	2	0x8000	[kWh]	(2)	x
20557	504D	2	0x8000	[kWh]	(2)	x
20559	504F	2	0x8000	[kvarh]	(1)	x
20561	5051	2	0x8000	[kvarh]	(2)	x
20563	5053	2	0x8000	[kvarh]	(2)	x
20565	5055	2	0x8000	[kVAh]	(2)	x
20567	5057	2	0x8000	[kWh]	(2)	x
20569	5059	2	0x8000	[kWh]	(2)	x
20571	505B	2	0x8000	[kWh]	(2)	x
20573	505D	2	0x8000	[kWh]	(2)	x
20575	505F	2	0x8000	[kWh]	(2)	x
20577	5061	2	0x8000	[kWh]	(2)	x
20579	5063	2	0x8000	[kvarh]	(2)	x
20581	5065	2	0x8000	[kvarh]	(2)	x
20583	5067	2	0x8000	[kvarh]	(2)	x
20585	5069	2	0x8000	[kvarh]	(2)	x
20587	506B	2	0x8000	[kvarh]	(2)	x
20589	506D	2	0x8000	[kvarh]	(2)	x

REMARKS:

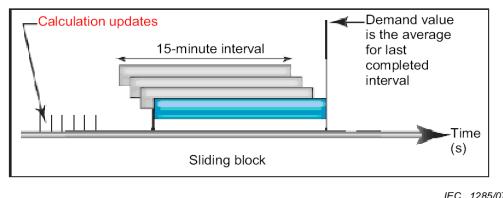
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) <ul style="list-style-type: none"> • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) <ul style="list-style-type: none"> • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode <ul style="list-style-type: none"> • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[8] - Thermal Measurement B - BASE

[RETURN TO
TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
32768	8000	1	0	[°C]	(1)	
32769	8000	1	0	[°C]		

REMARKS:

(1)	The relative address register 0 MUST NOT BE USED to prevent the corresponding absolute address ("default" position of the Thermal Measurement Functionality = 8000h) coinciding with the "non implemented/non significant" value in the Automation Functionality (always 8000h)
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Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
32768	8000	1	0			
32769	8000	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
32768	8000	1	Sensor 1 temperature value	[°C]	(1)	

REMARKS:

(1)	Expressed in "numeric coding"
-----	-------------------------------

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
32768	8000	1	0x8000			
32769	8001	1	0x8000			

[N°9] - 3-Phase Elect Proct S D

RETURN TO
TABLE OF MAPS

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	Overload Prealarm (>threshold I1)		(1)	
29185	7201	1	Overload alarm (>threshold I2)		(1)	
29186	7202	1	0		(1)	
29187	7203	1	0		(1)	
29188	7204	1	Alarm 1 Overtemperature (>threshold T)		(1)	
29189	7205	1	0		(1)	
29190	7206	1	0		(1)	
29191	7207	1	0		(1)	
29192	7208	1	0		(1)	
29193	7209	1	Overload Tripped relay P. (no indication of phase)		(2)	x
29194	720A	1	Short-circuit Tripped relay P. (no indications of phase)		(2)	x
29195	720B	1	Device Protection Tripped relay ("III element", no indications of phase)		(2)	x
29196	720C	1	0		(2)	x
29197	720D	1	Tripped relay P. Overtemperature		(2)	x
29198	720E	1	0		(2)	x
29199	720F	1	0		(2)	x
29200	7210	1	0		(2)	x
29201	7211	1	0		(2)	x
29202	7212	1	0		(2)	x
29203	7213	1	0		(2)	x
29204	7214	1	0		(2)	x
29205	7215	1	0		(2)	x
29206	7216	1	0		(2)	x
29207	7217	1	0		(2)	x
29208	7218	1	0		(2)	x
29209	7219	1	0		(2)	x
29210	721A	1	0		(2)	x
29211	721B	1	0		(2)	x
29212	721C	1	0		(2)	x
29213	721D	1	0		(2)	x
29214	721E	1	0		(2)	x
29215	721F	1	0		(2)	x
29216	7220	1	0		(2)	x
29217	7221	1	0		(2)	x
29218	7222	1	0		(2)	x
29219	7223	1	0		(2)	x
29220	7224	1	0		(2)	x
29221	7225	1	0		(1)	
29222	7226	1	0		(1)	
29223	7227	1	0		(1)	
29224	7228	1	0		(1)	
29225	7229	1	0		(1)	
29226	722A	1	0		(1)	
29227	722B	1	0		(1)	
29228	722C	1	0		(1)	
29229	722D	1	0		(1)	
29230	722E	1	0		(1)	
29231	722F	1	0		(1)	
29232	7230	1	0		(3)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(45 of 64)

REMARKS:

(1)	The information shown here "restores" itself when the condition that has generated it no longer applies
(2)	<p>The information shown here applies even when the condition generating it has disappeared. the "restore" conditions can be (equivalent, alternatively):</p> <ul style="list-style-type: none"> •the measurement of the Closed Status of the Device •the measurement of a minimum current value on the phases. <p>The Switch Status Functionality is therefore not binding (Example : if the switch is returned to Open => the Tripped relay notification must be kept until the restore condition kicks in).</p>
(3)	<p>It indicates that an anomaly has been detected in the "Dual Setting" settings, in particular one or more levels have been found to be greater than the corresponding "Main Setting".</p>

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	0			
29185	7201	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	2	0x8000	[A ²]	(1)	
29186	7202	2	0x8000	[A ²]	(1)	
29188	7204	2	0x8000	[A ²]	(1)	
29190	7206	2	0x8000	[A ²]	(1)	
29192	7208	2	0x8000	[A ²]	(1)	
29194	720A	1	Overload Tripped relay P counter (total) (no indication of phase)			x
29195	720B	1	Delayable Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29196	720C	1	Instantaneous Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29197	720D	1	Device protection Tripped relay counter (total) ("III element", no indications of phase)			x
29198	720E	1	0x8000			x
29199	720F	1	Overtemperature Tripped relay P counter (total)			x
29200	7210	10	Last Release Data Buffer		(2), (9)	x
29210	721A	10	Last 20 (most recent) Releases Data Buffer		(2), (9)	x
29220	7224	10	Last 20 Releases Data Buffer		(2), (9)	x
29230	722E	10	Last 20 Releases Data Buffer		(2), (9)	x
29240	7238	10	Last 20 Releases Data Buffer		(2), (9)	x
29250	7242	10	Last 20 Releases Data Buffer		(2), (9)	x
29260	724C	10	Last 20 Releases Data Buffer		(2), (9)	x
29270	7256	10	Last 20 Releases Data Buffer		(2), (9)	x
29280	7260	10	Last 20 Releases Data Buffer		(2), (9)	x
29290	726A	10	Last 20 Releases Data Buffer		(2), (9)	x
29300	7274	10	Last 20 Releases Data Buffer		(2), (9)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(46 of 64)

29310	727E	10	0x8000		(2), (9)	x
29320	7288	10	0x8000		(2), (9)	x
29330	7292	10	0x8000		(2), (9)	x
29340	729C	10	0x8000		(2), (9)	x
29350	72A6	10	0x8000		(2), (9)	x
29360	72B0	10	0x8000		(2), (9)	x
29370	72BA	10	0x8000		(2), (9)	x
29380	72C4	10	0x8000		(2), (9)	x
29390	72CE	10	0x8000		(2), (9)	x
29400	72D8	10	0x8000		(2), (9)	x
29410	72E2	1	G1 ("main setting")- Overload: levels	[A]/[%]	(1), (3)	x
29411	72E3	1	G1 - Overload: Times	[msec]	(1)	x
29412	72E4	1	G1 - Overload: options		(3)	x
29413	72E5	2	G1 - delayable short-circuit: levels	[A]/[%]	(1), (4)	x
29415	72E7	1	G1 - delayable short-circuit: Times	[msec]	(1)	x
29416	72E8	1	G1 - delayable short-circuit: options		(4)	x
29417	72E9	2	G1 - instantaneous short-circuit: levels	[A]/[%]	(1), (5)	x
29419	72EB	1	G1 - instantaneous short-circuit: Times	[msec]	(1)	x
29420	72EC	1	G1 - instantaneous short-circuit: options		(5)	x
29421	72ED	2	G1 - device protection: levels	[A]	(1), (6)	x
29423	72EF	1	G1 - device protection: Times	[msec]	(1)	x
29424	72F0	1	G1 - device protection: options		(6)	x
29425	72F1	1	0x8000	[A]/[%]	(1), (7)	x
29426	72F2	1	0x8000	[msec]	(1)	x
29427	72F3	1	0x8000		(7)	x
29428	72F4	1	G1 - neutral protection: levels	[%]	(1), (8)	x
29429	72F5	1	0x8000	[msec]	(1)	x
29430	72F6	1	G1 - neutral protection: options		(8)	x
29431	72F7	1	G1 - overtemperature protection: levels	[°C]	(1)	x
29432	72F8	1	0x8000	[msec]	(1)	x
29433	72F9	1	0x8000	[A]/[%]	(1), (3)	x
29434	72FA	1	0x8000	[msec]	(1)	x
29435	72FB	2	0x8000	[A]/[%]	(1), (4)	x
29437	72FD	1	0x8000	[msec]	(1)	x
29438	72FE	2	0x8000	[A]/[%]	(1), (5)	x
29440	7300	1	0x8000	[msec]	(1)	x
29441	7301	1	0x8000	[A]/[%]	(1), (7)	x
29442	7302	1	0x8000	[msec]	(1)	x

REMARKS:

(1)	Expressed in "numeric coding"
(2)	<p>DATA BUFFER Last releases: by reading all the ten words the values are returned in the values indicated below</p> <ul style="list-style-type: none"> •WORD9 : chronology, "year" (MSB) and "month" (LSB); it is the word that is returned first of all in the 10 – MSW block. •WORD8: chronology, "day" (MSB) and "time" (LSB) •WORD7: chronology, "minutes" (MSB) and "seconds" (LSB) •WORD6 and 5: current interrupted or temperature ("numeric coding" , [mA] or [°C], WORD6 is returned before WORD5) •WORD4: detail of protection settings that has caused the Trip (reply read only register of the "levels" type, see note (1)) •WORD3: detail of protection settings that has caused the Trip (reply Read Only register of the "Times" type , see note (1)) •WORD2: detail of protection settings that has caused the Trip (reply Read Only register of the "options" type, see note (3)to(6)) •WORD1: reply Read Only Bit of the "Tripped" type •WORD0: reply Read Only Bit of the "Tripped" type <p>N.B.: WORDs FROM 2 to 4 constitute a single datum and must be read and written in a block. The same applies to WORD 5 and 6, for WORD 7-8-9 and for WORD 0-1.</p> <p>WORD 1:</p> <ul style="list-style-type: none"> •Bit0 Instantaneous short-circuit relay tripped neutral •Bit1 Device Protection Relay Tripped phase 1("III element") •Bit2 Device Protection Relay Tripped phase 2 ("III element") •Bit3 Device Protection Relay Tripped phase 3 ("III element") •Bit4 Device Protection Relay Tripped neutral ("III element") •Bit5 Tripped relay in "Main Setting" Mode •Bit6 Tripped relay in "Dual Setting" Mode •Bit7 Tripped relay in "MEM=OFF" Mode on Overload •Bit8 Tripped relay in "I₂t=k" mode on delayable short-circuit •Bit 9 Tripped relay in "Logic Selectivity" mode on delayable short-circuit (intervention performed with Tm Delay) •Bit 10 Tripped relay in "Logic Selectivity" Mode on device protection (intervention carried out with Delay •SEL=High) •Bit 11 Tripped relay in "I₂t=k" Mode on earth •Bit 12 Earth leakage Tripped •Bit 13 ND •Bit 14 ND •Bit 15 Test Tripped (if Electronic Test only Bit15, if Earth Leakeage Test Bit15 and Bit12) <p>WORD 0:</p> <ul style="list-style-type: none"> •Bit0 Overload Tripped relay P. (no indication of phase) •Bit1 Short-circuit Tripped relay P. (no indications of phase) •Bit2 Device Protection Tripped relay ("III element", no indications of phase) •Bit3 Earth Tripped relay P. •Bit4 Overtemperature Tripped relay P. •Bit5 Overload phase 1 Tripped relay P. •Bit6 Overload phase 2 Tripped relay P. •Bit7 Overload phase 3 Tripped relay P. •Bit8 Overload neutral Tripped relay P. •Bit9 Delayable short-circuit phase 1 Tripped relay P. •Bit10 Delayable short-circuit phase 2 Tripped relay P. •Bit11 Delayable short-circuit phase 3 Tripped relay P. •Bit12 Delayable short-circuit neutral Tripped relay P. •Bit13 Instantaneous short-circuit phase 1 Tripped relay •Bit14 Instantaneous short-circuit Tripped relay phase 2 •Bit15 Instant short-circuit phase 3 Tripped relay

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(48 of 64)

(3)	Overload options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%In(0) • Bit4 to 2=I_{2t}=k MEM OFF(001)/I_{2t}=k MEM ON(000)/Not Defined(111) • Bit7 to 5= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of I_r)
(4)	Delayable short-circuit options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%Ir(0) • Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) • Bit7 to 5= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of Ir)
(5)	Instantaneous short-circuit options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%In(0) • Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) • Bit5= absolute val. divided by 10(1)/absolute value(0) • Bit7 to 6= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of In)
(6)	Device Protection options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%In(0) • Bit4 to 2= "0" • Bit5= absolute val. divided by 10(1)/absolute value(0)
(7)	Earth Options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)%In(0) • Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) • Bit7 to 5= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of Ig)
(8)	Neutral options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1="0" (%phase) • Bit4 to 2="0" (curve phase) • Bit7 to 5= "0" • Bit15 to 8="0")
(9)	If number of faults < 20, fill the chronology word with 0x0000

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	0x8000	[sec]	(1)	X

REMARKS:

(1)	"Dual Setting" Command Configuration <ul style="list-style-type: none"> • Bit10 to 0=activation time ("default"=60 sec, "0"=infinite) • Bit11 to 15="0"
-----	--

[10] - 3-Phase Measure E_ED

[RETURN TO
TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	Neutral Current Value	[A]	(2),(4)	
20484	5004	1	0x8000	[A]	(2)	
20485	5005	1	Earth leakage Current Value	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	0x8000	[V]	(2),(4)	
20495	500F	1	0x8000	[V]	(2),(4)	
20496	5010	1	0x8000	[V]	(2),(4)	
20497	5011	1	0x8000	[V]	(2),(4)	
20498	5012	1	0x8000	[V]	(2),(4)	
20499	5013	1	0x8000	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(50 of 64)

20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	0x8000	%	(2)	
20513	5021	1	0x8000	%	(2)	
20514	5022	1	0x8000	%	(2)	
20515	5023	1	0x8000	%	(2)	
20516	5024	1	0x8000	%	(2)	
20517	5025	1	0x8000	%	(2)	
20518	5026	1	0x8000	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	0x8000	[kW]	(1),(4)	
20523	502B	1	0x8000	[kvar]	(1),(4)	
20524	502C	1	0x8000	[kvar]	(1)	
20525	502D	1	0x8000	[kvar]	(2)	
20526	502E	1	0x8000	[kVA]	(1),(4)	
20527	502F	1	0x8000	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	0x8000	[Hz]/100	(1),(3)	
20530	5032	2	0x8000	[kWh]	(1)	x
20532	5034	2	0x8000	[kWh]	(2),(4)	x
20534	5036	2	0x8000	[kWh]	(2),(4)	x
20536	5038	2	0x8000	[kvarh]	(1)	x
20538	503A	2	0x8000	[kvarh]	(2),(4)	x
20540	503C	2	0x8000	[kvarh]	(2),(4)	x
20542	503E	2	0x8000	[kVAh]	(2)	x
20544	5040	1	0x8000	[kW]	(1),(4)	
20545	5041	1	0x8000	[kW]	(1),(4)	
20546	5042	1	0x8000	[kW]	(1),(4)	
20547	5043	1	0x8000	[kvar]	(1),(4)	
20548	5044	1	0x8000	[kvar]	(1),(4)	
20549	5045	1	0x8000	[kvar]	(1),(4)	
20550	5046	1	0x8000	[kvar]	(1)	
20551	5047	1	0x8000	[kvar]	(1)	
20552	5048	1	0x8000	[kvar]	(1)	
20553	5049	1	0x8000	[kvar]	(2)	
20554	504A	1	0x8000	[kvar]	(2)	
20555	504B	1	0x8000	[kvar]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x8000	[kWh]	(2),(4)	x
20567	5057	2	0x8000	[kWh]	(2),(4)	x
20569	5059	2	0x8000	[kWh]	(2),(4)	x
20571	505B	2	0x8000	[kWh]	(2),(4)	x
20573	505D	2	0x8000	[kWh]	(2),(4)	x
20575	505F	2	0x8000	[kWh]	(2),(4)	x
20577	5061	2	0x8000	[kvarh]	(2),(4)	x
20579	5063	2	0x8000	[kvarh]	(2),(4)	x
20581	5065	2	0x8000	[kvarh]	(2),(4)	x
20583	5067	2	0x8000	[kvarh]	(2),(4)	x
20585	5069	2	0x8000	[kvarh]	(2),(4)	x
20587	506B	2	0x8000	[kvarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(51 of 64)

20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kvar]	(1)	x
20600	5078	1	0x8000	[kvar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x
20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(52 of 64)

20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50EO	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x
20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(53 of 64)

20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(3)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x8000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	Current multiplication factor		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x8000		(1)(4)	x
20496	5010	1	0x8000	sec.	(1)	x
20497	5011	1	0x8000	0.1 %	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x8000		(1)(4)	x
20502	5016	1	0x8000	sec.	(1)	x
20503	5017	1	0x8000	0.1 %	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x8000		(1)(4)	x
20508	501C	1	0x8000	sec.	(1)	x
20509	501D	1	0x8000	0.1 %	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x8000		(1)(4)	x
20514	5022	1	0x8000	sec.	(1)	x
20515	5023	1	0x8000	0.1 %	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x8000		(1)(4)	x
20520	5028	1	0x8000	sec.	(1)	x
20521	5029	1	0x8000	0.1 %	(1)	x
20522	502A	1	0x8000		(6)	x
20523	502B	1	0x8000		(5)	x
20524	502C	2	0x8000		(1)(4)	x
20526	502E	1	0x8000	sec.	(1)	x

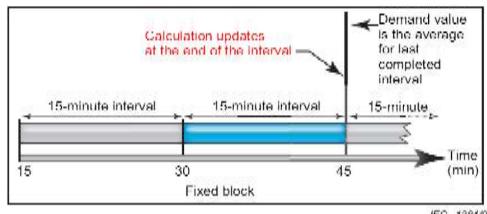
"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(54 of 64)

20527	502F	1	0x8000	0.1 %	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x8000		(1)(4)	x
20532	5034	1	0x8000	sec.	(1)	x
20533	5035	1	0x8000	0.1 %	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x8000		(1)(4)	x
20538	503A	1	0x8000	sec.	(1)	x
20539	503B	1	0x8000	0.1 %	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x8000		(1)(4)	x
20544	5040	1	0x8000	sec.	(1)	x
20545	5041	1	0x8000	0.1 %	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x8000		(1)(4)	x
20550	5046	1	0x8000	sec.	(1)	x
20551	5047	1	0x8000	0.1 %	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x8000	[kWh]	(1)	x
20555	504B	2	0x8000	[kWh]	(2)	x
20557	504D	2	0x8000	[kWh]	(2)	x
20559	504F	2	0x8000	[kvarh]	(1)	x
20561	5051	2	0x8000	[kvarh]	(2)	x
20563	5053	2	0x8000	[kvarh]	(2)	x
20565	5055	2	0x8000	[kVAh]	(2)	x
20567	5057	2	0x8000	[kWh]	(2)	x
20569	5059	2	0x8000	[kWh]	(2)	x
20571	505B	2	0x8000	[kWh]	(2)	x
20573	505D	2	0x8000	[kWh]	(2)	x
20575	505F	2	0x8000	[kWh]	(2)	x
20577	5061	2	0x8000	[kWh]	(2)	x
20579	5063	2	0x8000	[kvarh]	(2)	x
20581	5065	2	0x8000	[kvarh]	(2)	x
20583	5067	2	0x8000	[kvarh]	(2)	x
20585	5069	2	0x8000	[kvarh]	(2)	x
20587	506B	2	0x8000	[kvarh]	(2)	x
20589	506D	2	0x8000	[kvarh]	(2)	x

REMARKS:

(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) <ul style="list-style-type: none"> • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) <ul style="list-style-type: none"> • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode <ul style="list-style-type: none"> • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

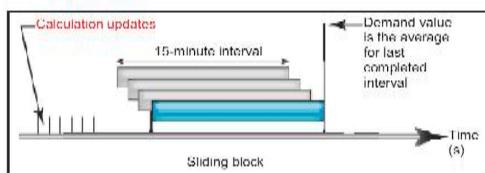
- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



IFC_1984/07

NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



IFC_1980/07

NOTE 15 min is only an example.

[11] - 3-Phase Measure E_MD

**RETURN TO
TABLE OF MAPS**

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	Neutral Current Value	[A]	(2),(4)	
20484	5004	1	0x8000	[A]	(2)	
20485	5005	1	Earth leakage Current Value	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	Voltage 1-N	[V]	(2),(4)	
20495	500F	1	Voltage 2-N	[V]	(2),(4)	
20496	5010	1	Voltage 3-N	[V]	(2),(4)	
20497	5011	1	Voltage 1-2	[V]	(2),(4)	
20498	5012	1	Voltage1-3	[V]	(2),(4)	
20499	5013	1	Voltage 2-3	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(57 of 64)

20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	THD Phase 1 (R) vs. fundamental current	%	(2)	
20513	5021	1	THD Phase 2 (S) vs. fundamental current	%	(2)	
20514	5022	1	THD Phase 3 (T) vs. fundamental current	%	(2)	
20515	5023	1	THD Neutral vs. fundamental current	%	(2)	
20516	5024	1	THD Voltage 1-N vs. fundamental	%	(2)	
20517	5025	1	THD Voltage 2-N vs. fundamental	%	(2)	
20518	5026	1	THD Voltage 3-N vs. fundamental	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	Three-phase active power	[kW]	(1),(4)	
20523	502B	1	Three-phase reactive power	[kvar]	(1),(4)	
20524	502C	1	0x8000	[kvar]	(1)	
20525	502D	1	0x8000	[kvar]	(2)	
20526	502E	1	Three-phase Apparent Power	[kVA]	(1),(4)	
20527	502F	1	Three-phase power factor (PF)	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	Three-phase Frequency	[Hz]/100	(1),(3)	
20530	5032	2	0x8000	[kWh]	(1)	x
20532	5034	2	Positive Three-phase Active Energy	[kWh]	(2),(4)	x
20534	5036	2	Negative Three-phase Active Energy	[kWh]	(2),(4)	x
20536	5038	2	0x8000	[kvarh]	(1)	x
20538	503A	2	Positive Three-phase Reactive Energy	[kvarh]	(2),(4)	x
20540	503C	2	Negative Three-phase Reactive Energy	[kvarh]	(2),(4)	x
20542	503E	2	0x8000	[kVAh]	(2)	x
20544	5040	1	Phase 1 Active Power (R)	[kW]	(1),(4)	
20545	5041	1	Phase 2 Active Power (S)	[kW]	(1),(4)	
20546	5042	1	Phase 3 active power (T)	[kW]	(1),(4)	
20547	5043	1	Reactive Power phase 1 (R)	[kvar]	(1),(4)	
20548	5044	1	Reactive Power phase 2 (S)	[kvar]	(1),(4)	
20549	5045	1	Reactive Power phase 3 (T)	[kvar]	(1),(4)	
20550	5046	1	0x8000	[kvar]	(1)	
20551	5047	1	0x8000	[kvar]	(1)	
20552	5048	1	0x8000	[kvar]	(1)	
20553	5049	1	0x8000	[kvar]	(2)	
20554	504A	1	0x8000	[kvar]	(2)	
20555	504B	1	0x8000	[kvar]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x8000	[kWh]	(2),(4)	x
20567	5057	2	0x8000	[kWh]	(2),(4)	x
20569	5059	2	0x8000	[kWh]	(2),(4)	x
20571	505B	2	0x8000	[kWh]	(2),(4)	x
20573	505D	2	0x8000	[kWh]	(2),(4)	x
20575	505F	2	0x8000	[kWh]	(2),(4)	x
20577	5061	2	0x8000	[kvarh]	(2),(4)	x
20579	5063	2	0x8000	[kvarh]	(2),(4)	x
20581	5065	2	0x8000	[kvarh]	(2),(4)	x
20583	5067	2	0x8000	[kvarh]	(2),(4)	x
20585	5069	2	0x8000	[kvarh]	(2),(4)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(58 of 64)

20587	506B	2	0x8000	[kvarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x
20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kvar]	(1)	x
20600	5078	1	0x8000	[kvar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(59 of 64)

20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x
20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(60 of 64)

20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x
20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(3)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x8000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	Current multiplication factor		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x8000		(1)(4)	x
20496	5010	1	0x8000	sec.	(1)	x
20497	5011	1	0x8000	0.1 %	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x8000		(1)(4)	x
20502	5016	1	0x8000	sec.	(1)	x
20503	5017	1	0x8000	0.1 %	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x8000		(1)(4)	x
20508	501C	1	0x8000	sec.	(1)	x
20509	501D	1	0x8000	0.1 %	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x8000		(1)(4)	x
20514	5022	1	0x8000	sec.	(1)	x
20515	5023	1	0x8000	0.1 %	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x8000		(1)(4)	x
20520	5028	1	0x8000	sec.	(1)	x
20521	5029	1	0x8000	0.1 %	(1)	x
20522	502A	1	0x8000		(6)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(61 of 64)

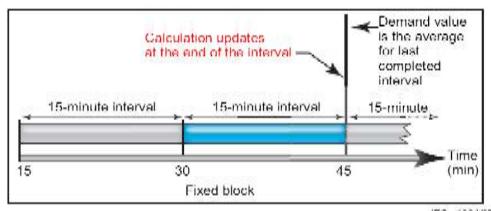
20523	502B	1	0x8000		(5)	x
20524	502C	2	0x8000		(1)(4)	x
20526	502E	1	0x8000	sec.	(1)	x
20527	502F	1	0x8000	0.1 %	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x8000		(1)(4)	x
20532	5034	1	0x8000	sec.	(1)	x
20533	5035	1	0x8000	0.1 %	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x8000		(1)(4)	x
20538	503A	1	0x8000	sec.	(1)	x
20539	503B	1	0x8000	0.1 %	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x8000		(1)(4)	x
20544	5040	1	0x8000	sec.	(1)	x
20545	5041	1	0x8000	0.1 %	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x8000		(1)(4)	x
20550	5046	1	0x8000	sec.	(1)	x
20551	5047	1	0x8000	0.1 %	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x8000	[kWh]	(1)	x
20555	504B	2	0x8000	[kWh]	(2)	x
20557	504D	2	0x8000	[kWh]	(2)	x
20559	504F	2	0x8000	[kvarh]	(1)	x
20561	5051	2	0x8000	[kvarh]	(2)	x
20563	5053	2	0x8000	[kvarh]	(2)	x
20565	5055	2	0x8000	[kVAh]	(2)	x
20567	5057	2	0x8000	[kWh]	(2)	x
20569	5059	2	0x8000	[kWh]	(2)	x
20571	505B	2	0x8000	[kWh]	(2)	x
20573	505D	2	0x8000	[kWh]	(2)	x
20575	505F	2	0x8000	[kWh]	(2)	x
20577	5061	2	0x8000	[kWh]	(2)	x
20579	5063	2	0x8000	[kvarh]	(2)	x
20581	5065	2	0x8000	[kvarh]	(2)	x
20583	5067	2	0x8000	[kvarh]	(2)	x
20585	5069	2	0x8000	[kvarh]	(2)	x
20587	506B	2	0x8000	[kvarh]	(2)	x
20589	506D	2	0x8000	[kvarh]	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(62 of 64)

REMARKS:

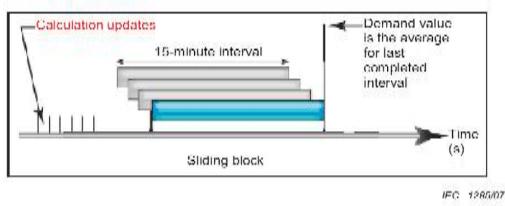
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[N°12] - Earth leakage Elec. Protec. B

RETURN TO
 TABLE OF MAPS

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
28672	7000	1	Earth leakage Prealarm (>threshold I ₁)		(1)	
28673	7001	1	Earth leakage alarm (>threshold I ₂)		(1)	
28674	7002	1	0		(1)	
28675	7003	1	0		(1)	
28676	7004	1	Earth leakage P. Tripped relay		(2)	x
28677	7005	1	0		(2)	x

REMARKS:

(1)	The information shown here "autorestores" when the condition that has generated it no longer applies
(2)	The information shown here is retained even when the condition that has generated it no longer applies. the "restore" condition can only be the reading of the device's closed status. It is therefore necessary that the Switch Status Functionality is present; if it is not, the Tripped Relay information MUST NOT BE IMPLEMENTED (E.g.: if the switch is brought back to Open => the Tripped Relay notification must be maintained until the restore condition kicks in)

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
28672	7000	1	0			
28673	7001	1	0			

"MOLDED CASE CIRCUIT BREAKER DPX³ 250HP S10" MAPS AND COMMANDS
(64 of 64)

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
28672	7000	1	Earth leakage P. Tripped Relay (total) counter			x
28673	7001	1	0x8000			x
28674	7002	1	0x8000		(1)(3)	x
28675	7003	2	0x8000		(1)	x
28677	7005	1	G1 "main setting"- Earth leakage: levels	[mA]	(2)	x
28678	7006	1	G1 - Earth leakage: Times	[msec]	(2)	x
28679	7007	1	0x8000	[°C]	(2)	x
28680	7008	1	0x8000	[msec]	(2)	x

REMARKS:

(1)	Type: reply Read Only Bit of the "Tripped" type : •bit0=reply of Earth leakage Tripped Relay P. •bit1=reply of Overtemperature Tripped Relay P. •bit15-2=0
(2)	VALUE: current interrupted or temperature ("numeric coding" , [mA] or [°C], first of all returns most significant word – MSW) Expressed as "numeric coding"
(3)	In case of devices that SIMULTANEOUSLY implement Three-Phase and Earth leakage Protection this register MUST NOT BE IMPLEMENTED for the purposes of guaranteeing a unique management of "Last Release data Buffer". the information about the "Earth leakage Protection Tripped Relay", "Overtemperature P. tripped Relay" and relative values in mA or °C is made available in this case in the register of the same name in Three-phase Protection.

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
28672	7000	1	0x8000			
28673	7001	1	0x8000			

"MOLDED CASE CIRCUIT BREAKER DPX³ 250 S2/Sg" MAPS AND COMMANDS

Revision of Support maps and Commands

REVISION: 1.2.3

DATE: 08/01/2023

Revision of Support maps and Commands for MCCB DPX³ 250 S2/Sg devices

- DPX³ 250 S2/Sg

REVISION: 2.6.2

DATE: 13/12/2024

Product involved:

- DPX³ 250 S2/Sg

Product associated:

PRODUCT ITEMS	DESCRIPTION	OBJECT CODE
420302; 420305; 420307; 420309; 420312; 420315; 420317; 420319; 420332; 420335; 420337; 420339; 420342; 420345; 420347; 420349; 420362; 420365; 420367; 420369; 420372; 420375; 420377; 420379; 420635; 420637; 420638; 420639; 420645; 420647; 420648; 420649	All DPX ³ 250 S2 without earth leakage protection	0x140A
420502; 420505; 420507; 420509; 420512; 420515; 420517; 420519; 420522; 420525; 420527; 420529; 420532; 420535; 420537; 420539; 420542; 420545; 420547; 420549; 420552; 420555; 420557; 420559; 420692; 420695; 420697; 420699; 420702; 420705; 420707; 420709	All DPX ³ 250 Sg with ground fault protection	0x140A
420322; 420325; 420327; 420329; 420352; 420355; 420357; 420359; 420382; 420385; 420387; 420389; 420655; 420657; 420658; 420659	All DPX ³ 250 S2 with earth leakage protection	0x140B
420402; 420405; 420407; 420409; 420412; 420415; 420417; 420419; 420432; 420435; 420437; 420439; 420442; 420445; 420447; 420449; 420462; 420465; 420467; 420469; 420472; 420475; 420477; 420479; 420665; 420667; 420668; 420669; 420675; 420677; 420678; 420679	All DPX ³ 250 S2 without earth leakage protection + measurement	0x140C
No product available	All DPX ³ 250 Sg with ground fault protection + measurement	0x140C
420422; 420425; 420427; 420429; 420452; 420455; 420457; 420459; 420482; 420485; 420487; 420489; 420685; 420687; 420688; 420689	All DPX ³ 250 S2 with earth leakage protection + measurement	0x140D

Standard function codes

COMMUNICATION CHANNEL → COMMANDS ↓	EMS	USB	REMARKS
Read discrete inputs (0x02)	x	x	
Read input register (0x04)	x	x	

Possible maps per configurations

OBJECT CODE → CONFIGURATION →	0x140A				0x140B	0x140C				0x140D	
	3 poles		4 poles		4 poles	3 poles		4 poles		4 poles	
MAP↓	N°	S2	Sg	S2	Sg	S2	S2	Sg	S2	Sg	S2
Switch Status B	[1]	X	X	X	X	X	X	X	X	X	X
3-Phase Elect Proct S 3P	[2]	X					X				
3-Phase Measure E 3P	[3]	X									
3-Phase Elect Proct S 4P	[4]			X		X			X		X
3-Phase Measure E 4P	[5]				X						
3-Phase Measure E 3P M	[6]						X				
3-Phase Measure E 4P M	[7]								X		
Thermal Measurement B	[8]	X	X	X	X	X	X	X	X	X	X
3-Phase Measure E 4P + G	[9]				X						
Earth leak. Elec. Prot. B ED	[10]					X					X
3-Phase Measure E 4P ED	[11]					X					
3-Phase Measure E 3P + G M	[12]							X			
3-Phase Elect Proct S 3P + G	[13]		X					X			
3-Phase Measure E 3P + G	[14]		X								
3-Phase Elect Proct S 4P + G	[15]				X					X	
3-Phase Measure E 4P + G M	[16]									X	
3-Phase Measure E 4P MD	[17]										X

Map lists

[N°1] - Switch Status B (switch Status Functionality) - BASE

[RETURN TO TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	Open		(1)	
16385	4001	1	Closed		(1)	
16386	4002	1	Single tripped switch/ Tripped group of		(1),(2)	
16387	4003	1	0		(1)	
16388	4004	1	0		(1)	

REMARKS:

(1)	the information shown here "autorestores" when the condition that has generated it is lost (E.G.: TRIPPED is the faithful response of the device's mechanical contact Where there is a MAN/AUT operating mode selector switch, this notification can only persist if MAN is set);
(5)	if this functionality is used in switch group tripped mode (panel tripped), the bit contains the OR of the tripped of the switches belonging to the group.

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	0			X

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	0x8000			X
16385	4001	1	Intervention Meter (total, cannot be reset at zero by the customer)			X
16386	4002	1	Maximum Manoeuvre Number (cannot			X
16387	4003	1	Switch Features – Rated current	[A]	(1)	X
16388	4004	1	Switch features – Type/Poles		(2)	X
16389	4005	1	Switch features – Breaking capacity	[kA]/100	(3)	X

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(4 of 98)

REMARKS:

(1)	RATED CURRENT (numeric coding, [A])
(2)	<p>TYPE/POLES</p> <ul style="list-style-type: none"> •MSB – DEVICE TYPE <p>bit 0=insulator (0)/int. Automatic (1), bit 1=repulsive switch (0)/ not repulsive switch (1) bit 7-2= "0"</p> <ul style="list-style-type: none"> •LSB – POLES <p>bit 0 to 3: Number of poles: numeric value (1 to 4) bit 4 Neutral position (left(1)/right(0)) bit 5 :Neutral external (1) (only 3 poles) bit 7-6= "0"</p>
(3)	BREAKING CAPACITY: (numeric coding, [kA/100]. Example: 4,5kA is coded in "hundredths of kA", therefore 4.5 becomes 450)

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
16384	4000	1	0x8000		(1)	X

REMARKS:

(1)	<p>bit 0: Open Status active high = 0, input active low = 1 (default = 0) bit 1: Closed Status active high = 0, input active low = 1 (default = 0) bit 2: Tripped Status active high = 0, input active low = 1 (default = 0) bit 3: Alarm on Status Open active = 1, deactivated = 0 (default = 0) bit 4: Alarm on Status Closed active = 1, deactivated = 0 (default = 0) bit 5: Alarm on Tripped Status active = 1, deactivated = 0 (default = 1) bit 15-6 : Not used</p>
-----	---

[N°2] - 3-Phase Elect Proct S 3P

RETURN TO TABLE
OF MAPS

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	Overload Prealarm (>threshold I1)		(1)	
29185	7201	1	Overload alarm (>threshold I2)		(1)	
29186	7202	1	0		(1)	
29187	7203	1	0		(1)	
29188	7204	1	Alarm 1 Overtemperature (>threshold T)		(1)	
29189	7205	1	0		(1)	
29190	7206	1	0		(1)	
29191	7207	1	0		(1)	
29192	7208	1	0		(1)	
29193	7209	1	Overload Tripped relay P. (no indication of phase)		(2)	x
29194	720A	1	Short-circuit Tripped relay P. (no indications of phase)		(2)	x
29195	720B	1	Device Protection Tripped relay ("III element", no indications of phase)		(2)	x
29196	720C	1	0		(2)	x
29197	720D	1	Tripped relay P. Overtemperature		(2)	x
29198	720E	1	0		(2)	x
29199	720F	1	0		(2)	x
29200	7210	1	0		(2)	x
29201	7211	1	0		(2)	x
29202	7212	1	0		(2)	x
29203	7213	1	0		(2)	x
29204	7214	1	0		(2)	x
29205	7215	1	0		(2)	x
29206	7216	1	0		(2)	x
29207	7217	1	0		(2)	x
29208	7218	1	0		(2)	x
29209	7219	1	0		(2)	x
29210	721A	1	0		(2)	x
29211	721B	1	0		(2)	x
29212	721C	1	0		(2)	x
29213	721D	1	0		(2)	x
29214	721E	1	0		(2)	x
29215	721F	1	0		(2)	x
29216	7220	1	0		(2)	x
29217	7221	1	0		(2)	x
29218	7222	1	0		(2)	x
29219	7223	1	0		(2)	x
29220	7224	1	0		(2)	x
29221	7225	1	0		(1)	
29222	7226	1	0		(1)	
29223	7227	1	0		(1)	
29224	7228	1	0		(1)	
29225	7229	1	0		(1)	
29226	722A	1	0		(1)	
29227	722B	1	0		(1)	
29228	722C	1	0		(1)	
29229	722D	1	0		(1)	
29230	722E	1	0		(1)	
29231	722F	1	0		(1)	
29232	7230	1	0		(3)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(6 of 98)

REMARKS:

(1)	The information shown here "restores" itself when the condition that has generated it no longer applies
(2)	<p>The information shown here applies even when the condition generating it has disappeared. the "restore" conditions can be (equivalent, alternatively):</p> <ul style="list-style-type: none"> •the measurement of the Closed Status of the Device •the measurement of a minimum current value on the phases. <p>The Switch Status Functionality is therefore not binding (Example : if the switch is returned to Open => the Tripped relay notification must be kept until the restore condition kicks in).</p>
(3)	It indicates that an anomaly has been detected in the "Dual Setting" settings, in particular one or more levels have been found to be greater than the corresponding "Main Setting".

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	0			
29185	7201	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	2	0x80000000	[A ²]	(1)	
29186	7202	2	0x80000000	[A ²]	(1)	
29188	7204	2	0x80000000	[A ²]	(1)	
29190	7206	2	0x80000000	[A ²]	(1)	
29192	7208	2	0x80000000	[A ²]	(1)	
29194	720A	1	Overload Tripped relay P counter (total) (no indication of phase)			x
29195	720B	1	Delayable Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29196	720C	1	0x8000			x
29197	720D	1	Device protection Tripped relay counter (total) ("III element", no indications of phase)			x
29198	720E	1	0x8000			x
29199	720F	1	Overtemperature Tripped relay P counter (total)			x
29200	7210	10	Last Release Data Buffer		(2),(9),(10)	x
29210	721A	10	Last 20 (most recent) Releases Data Buffer		(2),(9),(10)	x
29220	7224	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29230	722E	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29240	7238	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29250	7242	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29260	724C	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29270	7256	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29280	7260	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29290	726A	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29300	7274	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29310	727E	10	Not available, see note (10)		(2),(9),(10)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(7 of 98)

29320	7288	10	Not available, see note (10)		(2),(9),(10)	x
29330	7292	10	Not available, see note (10)		(2),(9),(10)	x
29340	729C	10	Not available, see note (10)		(2),(9),(10)	x
29350	72A6	10	Not available, see note (10)		(2),(9),(10)	x
29360	72B0	10	Not available, see note (10)		(2),(9),(10)	x
29370	72BA	10	Not available, see note (10)		(2),(9),(10)	x
29380	72C4	10	Not available, see note (10)		(2),(9),(10)	x
29390	72CE	10	Not available, see note (10)		(2),(9),(10)	x
29400	72D8	10	Not available, see note (10)		(2),(9),(10)	x
29410	72E2	1	G1 ("main setting")- Overload: levels	[A]/[%]	(1),(3)	x
29411	72E3	1	G1 - Overload: Times	[msec]	(1)	x
29412	72E4	1	G1 - Overload: options		(3)	x
29413	72E5	2	G1 - delayable short-circuit: levels	[A]/[%]	(1),(4)	x
29415	72E7	1	G1 - delayable short-circuit: Times	[msec]	(1)	x
29416	72E8	1	G1 - delayable short-circuit: options		(4)	x
29417	72E9	2	0x80000000	[A]/[%]	(1),(5)	x
29419	72EB	1	0x8000	[msec]	(1)	x
29420	72EC	1	0x8000		(5)	x
29421	72ED	2	G1 - device protection: levels	[A]	(1),(6)	x
29423	72EF	1	G1 - device protection: Times	[msec]	(1)	x
29424	72F0	1	G1 - device protection: options		(6)	x
29425	72F1	1	0x8000	[A]/[%]	(1),(7)	x
29426	72F2	1	0x8000	[msec]	(1)	x
29427	72F3	1	0x8000		(7)	x
29428	72F4	1	0x8000	[%]	(1),(8)	x
29429	72F5	1	0x8000	[msec]	(1)	x
29430	72F6	1	0x8000		(8)	x
29431	72F7	1	G1 - overtemperature protection: levels	[°C]	(1)	x
29432	72F8	1	0x8000	[msec]	(1)	x
29433	72F9	1	0x8000	[A]/[%]	(1), (3)	x
29434	72FA	1	0x8000	[msec]	(1)	x
29435	72FB	2	0x80000000	[A]/[%]	(1), (4)	x
29437	72FD	1	0x8000	[msec]	(1)	x
29438	72FE	2	0x80000000	[A]/[%]	(1),(5)	x
29440	7300	1	0x8000	[msec]	(1)	x
29441	7301	1	0x8000	[A]/[%]	(1),(7)	x
29442	7302	1	0x8000	[msec]	(1)	x

REMARKS:

(1)	Expressed in "numeric coding"
(2)	<p>DATA BUFFER Last releases: by reading all the ten words the values are returned in the values indicated below</p> <ul style="list-style-type: none"> •WORD9 : chronology, "year" (MSB) and "month" (LSB); it is the word that is returned first of all in the 10 – MSW block. •WORD8: chronology, "day" (MSB) and "time" (LSB) •WORD7: chronology, "minutes" (MSB) and "seconds" (LSB) •WORD6 and 5: current interrupted or temperature ("numeric coding" , [mA] or [°C], WORD6 is returned before WORD5) •WORD4: detail of protection settings that has caused the Trip (reply read only register of the "levels" type, see note (1)) •WORD3: detail of protection settings that has caused the Trip (reply Read Only register of the "Times" type , see note (1)) •WORD2: detail of protection settings that has caused the Trip (reply Read Only register of the "options" type, see note (3)to(6)) •WORD1: reply Read Only Bit of the "Tripped" type •WORD0: reply Read Only Bit of the "Tripped" type <p>N.B.: WORDs FROM 2 to 4 constitute a single datum and must be read and written in a block. The same applies to WORD 5 and 6, for WORD 7-8-9 and for WORD 0-1.</p> <p>WORD 1:</p> <ul style="list-style-type: none"> •Bit0 Instantaneous short-circuit relay tripped neutral •Bit1 Device Protection Relay Tripped phase 1 ("III element") •Bit2 Device Protection Relay Tripped phase 2 ("III element") •Bit3 Device Protection Relay Tripped phase 3 ("III element") •Bit4 Device Protection Relay Tripped neutral ("III element") •Bit5 Tripped relay in "Main Setting" Mode •Bit6 Tripped relay in "Dual Setting" Mode •Bit7 Tripped relay in "MEM=OFF" Mode on Overload •Bit8 Tripped relay in "I_{2t}=k" mode on delayable short-circuit •Bit 9 Tripped relay in "Logic Selectivity" mode on delayable short-circuit (intervention performed with Tm Delay) •Bit 10 Tripped relay in "Logic Selectivity" Mode on device protection (intervention carried out with Delay •SEL=High) •Bit 11 Tripped relay in "I_{2t}=k" Mode on earth •Bit 12 Earth leakage Tripped •Bit 13 ND •Bit 14 ND •Bit 15 Test Tripped (if Electronic Test only Bit15, if Earth Lekeage Test Bit15 and Bit12) <p>WORD 0:</p> <ul style="list-style-type: none"> •Bit0 Overload Tripped relay P. (no indication of phase) •Bit1 Short-circuit Tripped relay P. (no indications of phase) •Bit2 Device Protection Tripped relay ("III element", no indications of phase) •Bit3 Earth Tripped relay P. •Bit4 Overtemperature Tripped relay P. •Bit5 Overload phase 1 Tripped relay P. •Bit6 Overload phase 2 Tripped relay P. •Bit7 Overload phase 3 Tripped relay P. •Bit8 Overload neutral Tripped relay P. •Bit9 Delayable short-circuit phase 1 Tripped relay P. •Bit10 Delayable short-circuit phase 2 Tripped relay P. •Bit11 Delayable short-circuit phase 3 Tripped relay P. •Bit12 Delayable short-circuit neutral Tripped relay P. •Bit13 Instantaneous short-circuit phase 1 Tripped relay •Bit14 Instantaneous short-circuit Tripped relay phase 2 •Bit15 Instant short-circuit phase 3 Tripped relay
	Overload options

**"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(9 of 98)**

(3)	<ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=I2t=k MEM OFF(001)/I2t=k MEM ON(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I2t, multiple of Ir)
(4)	<p>Delayable short-circuit options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*Ir(0) •Bit4 to 2=curve t=k(001)/I2t=k(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I2t, multiple of Ir)
(5)	<p>Instantaneous short-circuit options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=curve t=k(001)/I2t=k(000)/Not Defined(111) •Bit5= absolute val. divided by 10(1)/absolute value(0) •Bit7 to 6= "0" •Bit15 to 8=work point for curve I2t, multiple of In)
(6)	<p>Device Protection options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2= "0" •Bit5= absolute val. divided by 10(1)/absolute value(0)
(7)	<p>Earth Options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=curve t=k(001)/I2t=k(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I2t, multiple of Ig)
(8)	<p>Neutral options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1="0" (%phase) •Bit4 to 2="0" (curve phase) •Bit7 to 5= "0" •Bit15 to 8="0")
(9)	If number of faults < 20, fill the chronology word with 0x0000
(10)	Register value when is not available: 0x80000000000080000000800000000000080000000

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	"Dual Setting" Command Configuration	[sec]	(1)	X

REMARKS:

(1)	<p>"Dual Setting" Command Configuration</p> <ul style="list-style-type: none"> •Bit10 to 0=activation time ("default"=60 sec, "0"=infinite) •Bit11 to 15="0"
-----	--

[N°3] - 3-Phase Measure E 3P - EVOLVED

[RETURN TO TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	0x8000	[A]	(2),(4)	
20484	5004	1	0x8000	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	0x8000	[V]	(2),(4)	
20495	500F	1	0x8000	[V]	(2),(4)	
20496	5010	1	0x8000	[V]	(2),(4)	
20497	5011	1	0x8000	[V]	(2),(4)	
20498	5012	1	0x8000	[V]	(2),(4)	
20499	5013	1	0x8000	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(11 of 98)

20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	0x8000	%	(2)	
20513	5021	1	0x8000	%	(2)	
20514	5022	1	0x8000	%	(2)	
20515	5023	1	0x8000	%	(2)	
20516	5024	1	0x8000	%	(2)	
20517	5025	1	0x8000	%	(2)	
20518	5026	1	0x8000	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	0x8000	[kW]	(1),(4)	
20523	502B	1	0x8000	[kVar]	(1),(4)	
20524	502C	1	0x8000	[kVar]	(1)	
20525	502D	1	0x8000	[kVA]	(2)	
20526	502E	1	0x8000	[kVA]	(1),(4)	
20527	502F	1	0x8000	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	0x8000	[Hz]/100	(1),(3)	
20530	5032	2	0x80000000	[kWh]	(1)	x
20532	5034	2	0x80000000	[kWh]	(2),(4)	x
20534	5036	2	0x80000000	[kWh]	(2),(4)	x
20536	5038	2	0x80000000	[kVar]	(1)	x
20538	503A	2	0x80000000	[kVar]	(2),(4)	x
20540	503C	2	0x80000000	[kVar]	(2),(4)	x
20542	503E	2	0x80000000	[kVAh]	(2)	x
20544	5040	1	0x8000	[kW]	(1),(4)	
20545	5041	1	0x8000	[kW]	(1),(4)	
20546	5042	1	0x8000	[kW]	(1),(4)	
20547	5043	1	0x8000	[kVar]	(1),(4)	
20548	5044	1	0x8000	[kVar]	(1),(4)	
20549	5045	1	0x8000	[kVar]	(1),(4)	
20550	5046	1	0x8000	[kVar]	(1)	
20551	5047	1	0x8000	[kVar]	(1)	
20552	5048	1	0x8000	[kVar]	(1)	
20553	5049	1	0x8000	[kVA]	(2)	
20554	504A	1	0x8000	[kVA]	(2)	
20555	504B	1	0x8000	[kVA]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x80000000	[kWh]	(2),(4)	x
20567	5057	2	0x80000000	[kWh]	(2),(4)	x
20569	5059	2	0x80000000	[kWh]	(2),(4)	x
20571	505B	2	0x80000000	[kWh]	(2),(4)	x
20573	505D	2	0x80000000	[kWh]	(2),(4)	x
20575	505F	2	0x80000000	[kWh]	(2),(4)	x
20577	5061	2	0x80000000	[kVarh]	(2),(4)	x
20579	5063	2	0x80000000	[kVarh]	(2),(4)	x
20581	5065	2	0x80000000	[kVarh]	(2),(4)	x
20583	5067	2	0x80000000	[kVarh]	(2),(4)	x
20585	5069	2	0x80000000	[kVarh]	(2),(4)	x
20587	506B	2	0x80000000	[kVarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(12 of 98)

20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kVar]	(1)	x
20600	5078	1	0x8000	[kVar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x
20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(13 of 98)

20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50EO	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x
20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(14 of 98)

20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(5)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(4)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(15 of 98)

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x80000000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	0x8000		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x80000000		(1),(4)	x
20496	5010	1	0x8000	s	(1)	x
20497	5011	1	0x8000	0.1%	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x80000000		(1),(4)	x
20502	5016	1	0x8000	s	(1)	x
20503	5017	1	0x8000	0.1%	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x80000000		(1),(4)	x
20508	501C	1	0x8000	s	(1)	x
20509	501D	1	0x8000	0.1%	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x80000000		(1),(4)	x
20514	5022	1	0x8000	s	(1)	x
20515	5023	1	0x8000	0.1%	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x80000000		(1),(4)	x
20520	5028	1	0x8000	s	(1)	x
20521	5029	1	0x8000	0.1%	(1)	x
20522	502A	1	0x8000		(6)	x
20523	502B	1	0x8000		(5)	x
20524	502C	2	0x80000000		(1),(4)	x
20526	502E	1	0x8000	s	(1)	x
20527	502F	1	0x8000	0.1%	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x80000000		(1),(4)	x
20532	5034	1	0x8000	s	(1)	x
20533	5035	1	0x8000	0.1%	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x80000000		(1),(4)	x
20538	503A	1	0x8000	s	(1)	x
20539	503B	1	0x8000	0.1%	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x80000000		(1),(4)	x
20544	5040	1	0x8000	s	(1)	x
20545	5041	1	0x8000	0.1%	(1)	x
20546	5042	1	0x8000		(6)	x

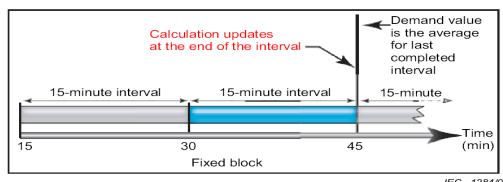
"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(16 of 98)

20547	5043	1	0x8000		(5)	x
20548	5044	2	0x80000000		(1),(4)	x
20550	5046	1	0x8000	s	(1)	x
20551	5047	1	0x8000	0.1%	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x80000000	[kWh]	(1)	x
20555	504B	2	0x80000000	[kWh]	(2)	x
20557	504D	2	0x80000000	[kWh]	(2)	x
20559	504F	2	0x80000000	[kVarh]	(1)	x
20561	5051	2	0x80000000	[kVarh]	(2)	x
20563	5053	2	0x80000000	[kVarh]	(2)	x
20565	5055	2	0x80000000	[kVAh]	(2)	x
20567	5057	2	0x80000000	[kWh]	(2)	x
20569	5059	2	0x80000000	[kWh]	(2)	x
20571	505B	2	0x80000000	[kWh]	(2)	x
20573	505D	2	0x80000000	[kWh]	(2)	x
20575	505F	2	0x80000000	[kWh]	(2)	x
20577	5061	2	0x80000000	[kWh]	(2)	x
20579	5063	2	0x80000000	[kVarh]	(2)	x
20581	5065	2	0x80000000	[kVarh]	(2)	x
20583	5067	2	0x80000000	[kVarh]	(2)	x
20585	5069	2	0x80000000	[kVarh]	(2)	x
20587	506B	2	0x80000000	[kVarh]	(2)	x
20589	506D	2	0x80000000	[kVarh]	(2)	x

REMARKS:

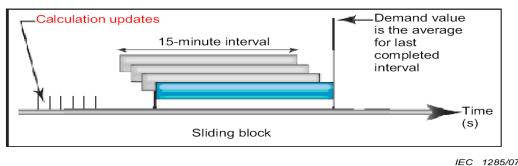
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[N°4] - 3-Phase Elect Proct S 4P - STANDARD

[RETURN TO TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	Overload Prealarm (>threshold I1)		(1)	
29185	7201	1	Overload alarm (>threshold I2)		(1)	
29186	7202	1	0		(1)	
29187	7203	1	0		(1)	
29188	7204	1	Alarm 1 Overtemperature (>threshold T)		(1)	
29189	7205	1	0		(1)	
29190	7206	1	0		(1)	
29191	7207	1	0		(1)	
29192	7208	1	0		(1)	
29193	7209	1	Overload Tripped relay P. (no indication of phase)		(2)	x
29194	720A	1	Short-circuit Tripped relay P. (no indications of phase)		(2)	x
29195	720B	1	Device Protection Tripped relay ("III element", no indications of phase)		(2)	x
29196	720C	1	0		(2)	x
29197	720D	1	Tripped relay P. Overtemperature		(2)	x
29198	720E	1	0		(2)	x
29199	720F	1	0		(2)	x
29200	7210	1	0		(2)	x
29201	7211	1	0		(2)	x
29202	7212	1	0		(2)	x
29203	7213	1	0		(2)	x
29204	7214	1	0		(2)	x
29205	7215	1	0		(2)	x
29206	7216	1	0		(2)	x
29207	7217	1	0		(2)	x
29208	7218	1	0		(2)	x
29209	7219	1	0		(2)	x
29210	721A	1	0		(2)	x
29211	721B	1	0		(2)	x
29212	721C	1	0		(2)	x
29213	721D	1	0		(2)	x
29214	721E	1	0		(2)	x
29215	721F	1	0		(2)	x
29216	7220	1	0		(2)	x
29217	7221	1	0		(2)	x
29218	7222	1	0		(2)	x
29219	7223	1	0		(2)	x
29220	7224	1	0		(2)	x
29221	7225	1	0		(1)	
29222	7226	1	0		(1)	
29223	7227	1	0		(1)	
29224	7228	1	0		(1)	
29225	7229	1	0		(1)	
29226	722A	1	0		(1)	
29227	722B	1	0		(1)	
29228	722C	1	0		(1)	
29229	722D	1	0		(1)	
29230	722E	1	0		(1)	
29231	722F	1	0		(1)	
29232	7230	1	0		(3)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(19 of 98)

REMARKS:

(1)	The information shown here "restores" itself when the condition that has generated it no longer applies
(2)	<p>The information shown here applies even when the condition generating it has disappeared. the "restore" conditions can be (equivalent, alternatively):</p> <ul style="list-style-type: none"> •the measurement of the Closed Status of the Device •the measurement of a minimum current value on the phases. <p>The Switch Status Functionality is therefore not binding (Example : if the switch is returned to Open => the Tripped relay notification must be kept until the restore condition kicks in).</p>
(3)	<p>It indicates that an anomaly has been detected in the "Dual Setting" settings, in particular one or more levels have been found to be greater than the corresponding "Main Setting".</p>

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	0			
29185	7201	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	2	0x80000000	[A ²]	(1)	
29186	7202	2	0x80000000	[A ²]	(1)	
29188	7204	2	0x80000000	[A ²]	(1)	
29190	7206	2	0x80000000	[A ²]	(1)	
29192	7208	2	0x80000000	[A ²]	(1)	
29194	720A	1	Overload Tripped relay P counter (total) (no indication of phase)			x
29195	720B	1	Delayable Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29196	720C	1	0x8000			x
29197	720D	1	Device protection Tripped relay counter (total) ("III element", no indications of phase)			x
29198	720E	1	0x8000			x
29199	720F	1	Overtemperature Tripped relay P counter (total)			x
29200	7210	10	Last Release Data Buffer		(2),(9),(10)	x
29210	721A	10	Last 20 (most recent) Releases Data Buffer		(2),(9),(10)	x
29220	7224	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29230	722E	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29240	7238	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29250	7242	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29260	724C	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29270	7256	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29280	7260	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29290	726A	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29300	7274	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29310	727E	10	Not available, see note (10)		(2),(9),(10)	x
29320	7288	10	Not available, see note (10)		(2),(9),(10)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(20 of 98)

29330	7292	10	Not available, see note (10)		(2),(9),(10)	x
29340	729C	10	Not available, see note (10)		(2),(9),(10)	x
29350	72A6	10	Not available, see note (10)		(2),(9),(10)	x
29360	72B0	10	Not available, see note (10)		(2),(9),(10)	x
29370	72BA	10	Not available, see note (10)		(2),(9),(10)	x
29380	72C4	10	Not available, see note (10)		(2),(9),(10)	x
29390	72CE	10	Not available, see note (10)		(2),(9),(10)	x
29400	72D8	10	Not available, see note (10)		(2),(9),(10)	x
29410	72E2	1	G1 ("main setting")- Overload: levels	[A]/[%]	(1),(3)	x
29411	72E3	1	G1 - Overload: Times	[msec]	(1)	x
29412	72E4	1	G1 - Overload: options		(3)	x
29413	72E5	2	G1 - delayable short-circuit: levels	[A]/[%]	(1),(4)	x
29415	72E7	1	G1 - delayable short-circuit: Times	[msec]	(1)	x
29416	72E8	1	G1 - delayable short-circuit: options		(4)	x
29417	72E9	2	0x80000000	[A]/[%]	(1),(5)	x
29419	72EB	1	0x8000	[msec]	(1)	x
29420	72EC	1	0x8000		(5)	x
29421	72ED	2	G1 - device protection: levels	[A]	(1),(6)	x
29423	72EF	1	G1 - device protection: Times	[msec]	(1)	x
29424	72F0	1	G1 - device protection: options		(6)	x
29425	72F1	1	0x8000	[A]/[%]	(1),(7)	x
29426	72F2	1	0x8000	[msec]	(1)	x
29427	72F3	1	0x8000		(7)	x
29428	72F4	1	G1 - neutral protection: levels	[%]	(1),(8)	x
29429	72F5	1	0x8000	[msec]	(1)	x
29430	72F6	1	G1 - neutral protection: options		(8)	x
29431	72F7	1	G1 - overtemperature protection: levels	[°C]	(1)	x
29432	72F8	1	0x8000	[msec]	(1)	x
29433	72F9	1	0x8000	[A]/[%]	(1), (3)	x
29434	72FA	1	0x8000	[msec]	(1)	x
29435	72FB	2	0x80000000	[A]/[%]	(1), (4)	x
29437	72FD	1	0x8000	[msec]	(1)	x
29438	72FE	2	0x80000000	[A]/[%]	(1),(5)	x
29440	7300	1	0x8000	[msec]	(1)	x
29441	7301	1	0x8000	[A]/[%]	(1),(7)	x
29442	7302	1	0x8000	[msec]	(1)	x

REMARKS:

(1)	Expressed in "numeric coding"
(2)	<p>DATA BUFFER Last releases: by reading all the ten words the values are returned in the values indicated below</p> <ul style="list-style-type: none"> •WORD9 : chronology, "year" (MSB) and "month" (LSB); it is the word that is returned first of all in the 10 – MSW block. •WORD8: chronology, "day" (MSB) and "time" (LSB) •WORD7: chronology, "minutes" (MSB) and "seconds" (LSB) •WORD6 and 5: current interrupted or temperature ("numeric coding" , [mA] or [°C], WORD6 is returned before WORD5) •WORD4: detail of protection settings that has caused the Trip (reply read only register of the "levels" type, see note (1)) •WORD3: detail of protection settings that has caused the Trip (reply Read Only register of the "Times" type , see note (1)) •WORD2: detail of protection settings that has caused the Trip (reply Read Only register of the "options" type, see note (3)to(6)) •WORD1: reply Read Only Bit of the "Tripped" type •WORD0: reply Read Only Bit of the "Tripped" type <p>N.B.: WORDs FROM 2 to 4 constitute a single datum and must be read and written in a block. The same applies to WORD 5 and 6, for WORD 7-8-9 and for WORD 0-1.</p> <p>WORD 1:</p> <ul style="list-style-type: none"> •Bit0 Instantaneous short-circuit relay tripped neutral •Bit1 Device Protection Relay Tripped phase 1 ("III element") •Bit2 Device Protection Relay Tripped phase 2 ("III element") •Bit3 Device Protection Relay Tripped phase 3 ("III element") •Bit4 Device Protection Relay Tripped neutral ("III element") •Bit5 Tripped relay in "Main Setting" Mode •Bit6 Tripped relay in "Dual Setting" Mode •Bit7 Tripped relay in "MEM=OFF" Mode on Overload •Bit8 Tripped relay in "I₂t=k" mode on delayable short-circuit •Bit 9 Tripped relay in "Logic Selectivity" mode on delayable short-circuit (intervention performed with Tm Delay) •Bit 10 Tripped relay in "Logic Selectivity" Mode on device protection (intervention carried out with Delay •SEL=High) •Bit 11 Tripped relay in "I₂t=k" Mode on earth •Bit 12 Earth leakage Tripped •Bit 13 ND •Bit 14 ND •Bit 15 Test Tripped (if Electronic Test only Bit15, if Earth Leakeage Test Bit15 and Bit12) <p>WORD 0:</p> <ul style="list-style-type: none"> •Bit0 Overload Tripped relay P. (no indication of phase) •Bit1 Short-circuit Tripped relay P. (no indications of phase) •Bit2 Device Protection Tripped relay ("III element", no indications of phase) •Bit3 Earth Tripped relay P. •Bit4 Overtemperature Tripped relay P. •Bit5 Overload phase 1 Tripped relay P. •Bit6 Overload phase 2 Tripped relay P. •Bit7 Overload phase 3 Tripped relay P. •Bit8 Overload neutral Tripped relay P. •Bit9 Delayable short-circuit phase 1 Tripped relay P. •Bit10 Delayable short-circuit phase 2 Tripped relay P. •Bit11 Delayable short-circuit phase 3 Tripped relay P. •Bit12 Delayable short-circuit neutral Tripped relay P. •Bit13 Instantaneous short-circuit phase 1 Tripped relay •Bit14 Instantaneous short-circuit Tripped relay phase 2 •Bit15 Instant short-circuit phase 3 Tripped relay

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(22 of 98)

(3)	Overload options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)/*In(0) • Bit4 to 2=I_{2t}=k MEM OFF(001)/I_{2t}=k MEM ON(000)/Not Defined(111) • Bit7 to 5= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of I_r)
(4)	Delayable short-circuit options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)/*Ir(0) • Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) • Bit7 to 5= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of I_r)
(5)	Instantaneous short-circuit options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)/*In(0) • Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) • Bit5= absolute val. divided by 10(1)/absolute value(0) • Bit7 to 6= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of In)
(6)	Device Protection options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)/*In(0) • Bit4 to 2= "0" • Bit5= absolute val. divided by 10(1)/absolute value(0)
(7)	Earth Options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1=absolute val.(1)/*In(0) • Bit4 to 2=curve t=k(001)/I_{2t}=k(000)/Not Defined(111) • Bit7 to 5= "0" • Bit15 to 8=work point for curve I_{2t}, multiple of Ig)
(8)	Neutral options <ul style="list-style-type: none"> • Bit0=disabled(1)/active(0) • Bit1="0" (%phase) • Bit4 to 2="0" (curve phase) • Bit7 to 5= "0" • Bit15 to 8="0")
(9)	If number of faults < 20, fill the chronology word with 0x0000
(10)	Register value when is not available: 0x8000000000008000000080000000000080000000

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	"Dual Setting" Command Configuration	[sec]	(1)	X

REMARKS:

(1)	"Dual Setting" Command Configuration <ul style="list-style-type: none"> • Bit10 to 0=activation time ("default"=60 sec, "0=infinite) • Bit11 to 15="0"
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[5] - 3-Phase Measure E 4P - EVOLVED

[RETURN TO TABLE
OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	Neutral Current Value	[A]	(2),(4)	
20484	5004	1	0x8000	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	0x8000	[V]	(2),(4)	
20495	500F	1	0x8000	[V]	(2),(4)	
20496	5010	1	0x8000	[V]	(2),(4)	
20497	5011	1	0x8000	[V]	(2),(4)	
20498	5012	1	0x8000	[V]	(2),(4)	
20499	5013	1	0x8000	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(24 of 98)

20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	0x8000	%	(2)	
20513	5021	1	0x8000	%	(2)	
20514	5022	1	0x8000	%	(2)	
20515	5023	1	0x8000	%	(2)	
20516	5024	1	0x8000	%	(2)	
20517	5025	1	0x8000	%	(2)	
20518	5026	1	0x8000	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	0x8000	[kW]	(1),(4)	
20523	502B	1	0x8000	[kVar]	(1),(4)	
20524	502C	1	0x8000	[kVar]	(1)	
20525	502D	1	0x8000	[kVA]	(2)	
20526	502E	1	0x8000	[kVA]	(1),(4)	
20527	502F	1	0x8000	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	0x8000	[Hz]/100	(1),(3)	
20530	5032	2	0x80000000	[kWh]	(1)	x
20532	5034	2	0x80000000	[kWh]	(2),(4)	x
20534	5036	2	0x80000000	[kWh]	(2),(4)	x
20536	5038	2	0x80000000	[kVar]	(1)	x
20538	503A	2	0x80000000	[kVar]	(2),(4)	x
20540	503C	2	0x80000000	[kVar]	(2),(4)	x
20542	503E	2	0x80000000	[kVAh]	(2)	x
20544	5040	1	0x8000	[kW]	(1),(4)	
20545	5041	1	0x8000	[kW]	(1),(4)	
20546	5042	1	0x8000	[kW]	(1),(4)	
20547	5043	1	0x8000	[kVar]	(1),(4)	
20548	5044	1	0x8000	[kVar]	(1),(4)	
20549	5045	1	0x8000	[kVar]	(1),(4)	
20550	5046	1	0x8000	[kVar]	(1)	
20551	5047	1	0x8000	[kVar]	(1)	
20552	5048	1	0x8000	[kVar]	(1)	
20553	5049	1	0x8000	[kVA]	(2)	
20554	504A	1	0x8000	[kVA]	(2)	
20555	504B	1	0x8000	[kVA]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x80000000	[kWh]	(2),(4)	x
20567	5057	2	0x80000000	[kWh]	(2),(4)	x
20569	5059	2	0x80000000	[kWh]	(2),(4)	x
20571	505B	2	0x80000000	[kWh]	(2),(4)	x
20573	505D	2	0x80000000	[kWh]	(2),(4)	x
20575	505F	2	0x80000000	[kWh]	(2),(4)	x
20577	5061	2	0x80000000	[kVarh]	(2),(4)	x
20579	5063	2	0x80000000	[kVarh]	(2),(4)	x
20581	5065	2	0x80000000	[kVarh]	(2),(4)	x
20583	5067	2	0x80000000	[kVarh]	(2),(4)	x
20585	5069	2	0x80000000	[kVarh]	(2),(4)	x
20587	506B	2	0x80000000	[kVarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(25 of 98)

20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kVar]	(1)	x
20600	5078	1	0x8000	[kVar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x
20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(26 of 98)

20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50EO	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x
20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(27 of 98)

20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(3)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x80000000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	0x8000		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x80000000		(1),(4)	x
20496	5010	1	0x8000	s	(1)	x
20497	5011	1	0x8000	0.1%	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x80000000		(1),(4)	x
20502	5016	1	0x8000	s	(1)	x
20503	5017	1	0x8000	0.1%	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x80000000		(1),(4)	x
20508	501C	1	0x8000	s	(1)	x
20509	501D	1	0x8000	0.1%	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x80000000		(1),(4)	x
20514	5022	1	0x8000	s	(1)	x
20515	5023	1	0x8000	0.1%	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x80000000		(1),(4)	x
20520	5028	1	0x8000	s	(1)	x
20521	5029	1	0x8000	0.1%	(1)	x
20522	502A	1	0x8000		(6)	x
20523	502B	1	0x8000		(5)	x
20524	502C	2	0x80000000		(1),(4)	x
20526	502E	1	0x8000	s	(1)	x

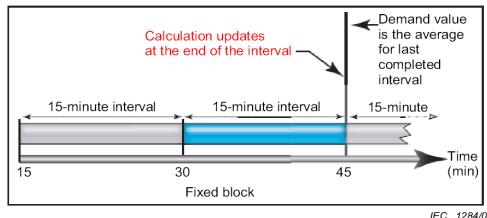
"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(28 of 98)

20527	502F	1	0x8000	0.1%	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x80000000		(1),(4)	x
20532	5034	1	0x8000	s	(1)	x
20533	5035	1	0x8000	0.1%	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x80000000		(1),(4)	x
20538	503A	1	0x8000	s	(1)	x
20539	503B	1	0x8000	0.1%	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x80000000		(1),(4)	x
20544	5040	1	0x8000	s	(1)	x
20545	5041	1	0x8000	0.1%	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x80000000		(1),(4)	x
20550	5046	1	0x8000	s	(1)	x
20551	5047	1	0x8000	0.1%	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x80000000	[kWh]	(1)	x
20555	504B	2	0x80000000	[kWh]	(2)	x
20557	504D	2	0x80000000	[kWh]	(2)	x
20559	504F	2	0x80000000	[kVarh]	(1)	x
20561	5051	2	0x80000000	[kVarh]	(2)	x
20563	5053	2	0x80000000	[kVarh]	(2)	x
20565	5055	2	0x80000000	[kVAh]	(2)	x
20567	5057	2	0x80000000	[kWh]	(2)	x
20569	5059	2	0x80000000	[kWh]	(2)	x
20571	505B	2	0x80000000	[kWh]	(2)	x
20573	505D	2	0x80000000	[kWh]	(2)	x
20575	505F	2	0x80000000	[kWh]	(2)	x
20577	5061	2	0x80000000	[kWh]	(2)	x
20579	5063	2	0x80000000	[kVarh]	(2)	x
20581	5065	2	0x80000000	[kVarh]	(2)	x
20583	5067	2	0x80000000	[kVarh]	(2)	x
20585	5069	2	0x80000000	[kVarh]	(2)	x
20587	506B	2	0x80000000	[kVarh]	(2)	x
20589	506D	2	0x80000000	[kVarh]	(2)	x

REMARKS:

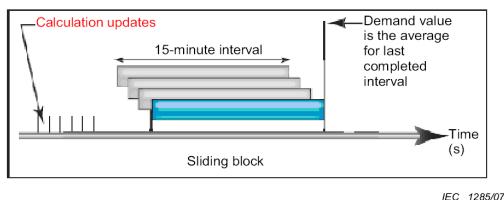
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) <ul style="list-style-type: none"> • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) <ul style="list-style-type: none"> • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode <ul style="list-style-type: none"> • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[6] - 3-Phase Measure E 3P M - EVOLVED

[RETURN TO TABLE
OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	0x8000	[A]	(2),(4)	
20484	5004	1	0x8000	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	0x8000	[V]	(2),(4)	
20495	500F	1	0x8000	[V]	(2),(4)	
20496	5010	1	0x8000	[V]	(2),(4)	
20497	5011	1	Voltage 1-2	[V]	(2),(4)	
20498	5012	1	Voltage1-3	[V]	(2),(4)	
20499	5013	1	Voltage 2-3	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(31 of 98)

20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	THD Phase 1 (R) vs. fundamental current	%	(2)	
20513	5021	1	THD Phase 2 (S) vs. fundamental current	%	(2)	
20514	5022	1	THD Phase 3 (T) vs. fundamental current	%	(2)	
20515	5023	1	0x8000	%	(2)	
20516	5024	1	0x8000	%	(2)	
20517	5025	1	0x8000	%	(2)	
20518	5026	1	0x8000	%	(2)	
20519	5027	1	THD Voltage 1-2 vs. fundamental	%	(2)	
20520	5028	1	THD Voltage 1-3 vs. fundamental	%	(2)	
20521	5029	1	THD Voltage 2-3 vs. fundamental	%	(2)	
20522	502A	1	Three-phase active power	[kW]	(1),(4)	
20523	502B	1	Three-phase reactive power	[kVar]	(1),(4)	
20524	502C	1	0x8000	[kVar]	(1)	
20525	502D	1	0x8000	[kVA]	(2)	
20526	502E	1	Three-phase Apparent Power	[kVA]	(1),(4)	
20527	502F	1	Three-phase power factor (PF)	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	Three-phase Frequency	[Hz]/100	(1),(3)	
20530	5032	2	0x80000000	[kWh]	(1)	x
20532	5034	2	Positive Three-phase Active Energy	[kWh]	(2),(4)	x
20534	5036	2	Negative Three-phase Active Energy	[kWh]	(2),(4)	x
20536	5038	2	0x80000000	[kVar]	(1)	x
20538	503A	2	Positive Three-phase Reactive Energy	[kVar]	(2),(4)	x
20540	503C	2	Negative Three-phase Reactive Energy	[kVar]	(2),(4)	x
20542	503E	2	0x80000000	[kVAh]	(2)	x
20544	5040	1	Phase 1 Active Power (R)	[kW]	(1),(4)	
20545	5041	1	Phase 2 Active Power (S)	[kW]	(1),(4)	
20546	5042	1	Phase 3 active power (T)	[kW]	(1),(4)	
20547	5043	1	Reactive Power phase 1 (R)	[kVar]	(1),(4)	
20548	5044	1	Reactive Power phase 2 (S)	[kVar]	(1),(4)	
20549	5045	1	Reactive Power phase 3 (T)	[kVar]	(1),(4)	
20550	5046	1	0x8000	[kVar]	(1)	
20551	5047	1	0x8000	[kVar]	(1)	
20552	5048	1	0x8000	[kVar]	(1)	
20553	5049	1	0x8000	[kVA]	(2)	
20554	504A	1	0x8000	[kVA]	(2)	
20555	504B	1	0x8000	[kVA]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x80000000	[kWh]	(2),(4)	x
20567	5057	2	0x80000000	[kWh]	(2),(4)	x
20569	5059	2	0x80000000	[kWh]	(2),(4)	x
20571	505B	2	0x80000000	[kWh]	(2),(4)	x
20573	505D	2	0x80000000	[kWh]	(2),(4)	x
20575	505F	2	0x80000000	[kWh]	(2),(4)	x
20577	5061	2	0x80000000	[kVarh]	(2),(4)	x
20579	5063	2	0x80000000	[kVarh]	(2),(4)	x
20581	5065	2	0x80000000	[kVarh]	(2),(4)	x
20583	5067	2	0x80000000	[kVarh]	(2),(4)	x
20585	5069	2	0x80000000	[kVarh]	(2),(4)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(32 of 98)

20587	506B	2	0x80000000	[kVarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x
20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kVar]	(1)	x
20600	5078	1	0x8000	[kVar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(33 of 98)

20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x
20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(34 of 98)

20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x
20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(3)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x80000000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	0x8000		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x80000000		(1),(4)	x
20496	5010	1	0x8000	s	(1)	x
20497	5011	1	0x8000	0.1%	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x80000000		(1),(4)	x
20502	5016	1	0x8000	s	(1)	x
20503	5017	1	0x8000	0.1%	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x80000000		(1),(4)	x
20508	501C	1	0x8000	s	(1)	x
20509	501D	1	0x8000	0.1%	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x80000000		(1),(4)	x
20514	5022	1	0x8000	s	(1)	x
20515	5023	1	0x8000	0.1%	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x80000000		(1),(4)	x
20520	5028	1	0x8000	s	(1)	x
20521	5029	1	0x8000	0.1%	(1)	x
20522	502A	1	0x8000		(6)	x

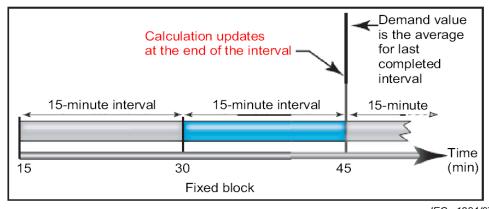
"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(35 of 98)

20523	502B	1	0x8000		(5)	x
20524	502C	2	0x80000000		(1),(4)	x
20526	502E	1	0x8000	s	(1)	x
20527	502F	1	0x8000	0.1%	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x80000000		(1),(4)	x
20532	5034	1	0x8000	s	(1)	x
20533	5035	1	0x8000	0.1%	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x80000000		(1),(4)	x
20538	503A	1	0x8000	s	(1)	x
20539	503B	1	0x8000	0.1%	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x80000000		(1),(4)	x
20544	5040	1	0x8000	s	(1)	x
20545	5041	1	0x8000	0.1%	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x80000000		(1),(4)	x
20550	5046	1	0x8000	s	(1)	x
20551	5047	1	0x8000	0.1%	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x80000000	[kWh]	(1)	x
20555	504B	2	0x80000000	[kWh]	(2)	x
20557	504D	2	0x80000000	[kWh]	(2)	x
20559	504F	2	0x80000000	[kVarh]	(1)	x
20561	5051	2	0x80000000	[kVarh]	(2)	x
20563	5053	2	0x80000000	[kVarh]	(2)	x
20565	5055	2	0x80000000	[kVAh]	(2)	x
20567	5057	2	0x80000000	[kWh]	(2)	x
20569	5059	2	0x80000000	[kWh]	(2)	x
20571	505B	2	0x80000000	[kWh]	(2)	x
20573	505D	2	0x80000000	[kWh]	(2)	x
20575	505F	2	0x80000000	[kWh]	(2)	x
20577	5061	2	0x80000000	[kWh]	(2)	x
20579	5063	2	0x80000000	[kVarh]	(2)	x
20581	5065	2	0x80000000	[kVarh]	(2)	x
20583	5067	2	0x80000000	[kVarh]	(2)	x
20585	5069	2	0x80000000	[kVarh]	(2)	x
20587	506B	2	0x80000000	[kVarh]	(2)	x
20589	506D	2	0x80000000	[kVarh]	(2)	x

REMARKS:

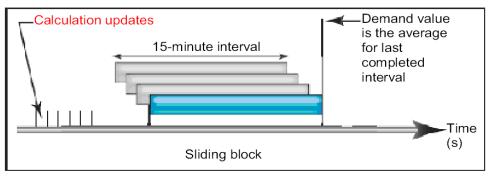
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[7] - 3-Phase Measure E 4P M - EVOLVED

[RETURN TO TABLE
OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	Neutral Current Value	[A]	(2),(4)	
20484	5004	1	0x8000	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	Voltage 1-N	[V]	(2),(4)	
20495	500F	1	Voltage 2-N	[V]	(2),(4)	
20496	5010	1	Voltage 3-N	[V]	(2),(4)	
20497	5011	1	Voltage 1-2	[V]	(2),(4)	
20498	5012	1	Voltage1-3	[V]	(2),(4)	
20499	5013	1	Voltage 2-3	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(38 of 98)

20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	THD Phase 1 (R) vs. fundamental current	%	(2)	
20513	5021	1	THD Phase 2 (S) vs. fundamental current	%	(2)	
20514	5022	1	THD Phase 3 (T) vs. fundamental current	%	(2)	
20515	5023	1	THD Neutral vs. fundamental current	%	(2)	
20516	5024	1	THD Voltage 1-N vs. fundamental	%	(2)	
20517	5025	1	THD Voltage 2-N vs. fundamental	%	(2)	
20518	5026	1	THD Voltage 3-N vs. fundamental	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	Three-phase active power	[kW]	(1),(4)	
20523	502B	1	Three-phase reactive power	[kVar]	(1),(4)	
20524	502C	1	0x8000	[kVar]	(1)	
20525	502D	1	0x8000	[kVA]	(2)	
20526	502E	1	Three-phase Apparent Power	[kVA]	(1),(4)	
20527	502F	1	Three-phase power factor (PF)	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	Three-phase Frequency	[Hz]/100	(1),(3)	
20530	5032	2	0x80000000	[kWh]	(1)	x
20532	5034	2	Positive Three-phase Active Energy	[kWh]	(2),(4)	x
20534	5036	2	Negative Three-phase Active Energy	[kWh]	(2),(4)	x
20536	5038	2	0x80000000	[kVar]	(1)	x
20538	503A	2	Positive Three-phase Reactive Energy	[kVar]	(2),(4)	x
20540	503C	2	Negative Three-phase Reactive Energy	[kVar]	(2),(4)	x
20542	503E	2	0x80000000	[kVAh]	(2)	x
20544	5040	1	Phase 1 Active Power (R)	[kW]	(1),(4)	
20545	5041	1	Phase 2 Active Power (S)	[kW]	(1),(4)	
20546	5042	1	Phase 3 active power (T)	[kW]	(1),(4)	
20547	5043	1	Reactive Power phase 1 (R)	[kVar]	(1),(4)	
20548	5044	1	Reactive Power phase 2 (S)	[kVar]	(1),(4)	
20549	5045	1	Reactive Power phase 3 (T)	[kVar]	(1),(4)	
20550	5046	1	0x8000	[kVar]	(1)	
20551	5047	1	0x8000	[kVar]	(1)	
20552	5048	1	0x8000	[kVar]	(1)	
20553	5049	1	0x8000	[kVA]	(2)	
20554	504A	1	0x8000	[kVA]	(2)	
20555	504B	1	0x8000	[kVA]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x80000000	[kWh]	(2),(4)	x
20567	5057	2	0x80000000	[kWh]	(2),(4)	x
20569	5059	2	0x80000000	[kWh]	(2),(4)	x
20571	505B	2	0x80000000	[kWh]	(2),(4)	x
20573	505D	2	0x80000000	[kWh]	(2),(4)	x
20575	505F	2	0x80000000	[kWh]	(2),(4)	x
20577	5061	2	0x80000000	[kVarh]	(2),(4)	x
20579	5063	2	0x80000000	[kVarh]	(2),(4)	x
20581	5065	2	0x80000000	[kVarh]	(2),(4)	x
20583	5067	2	0x80000000	[kVarh]	(2),(4)	x
20585	5069	2	0x80000000	[kVarh]	(2),(4)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(39 of 98)

20587	506B	2	0x80000000	[kVarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x
20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kVar]	(1)	x
20600	5078	1	0x8000	[kVar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(40 of 98)

20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x
20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(41 of 98)

20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x
20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(3)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x80000000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	0x8000		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x80000000		(1),(4)	x
20496	5010	1	0x8000	s	(1)	x
20497	5011	1	0x8000	0.1%	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x80000000		(1),(4)	x
20502	5016	1	0x8000	s	(1)	x
20503	5017	1	0x8000	0.1%	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x80000000		(1),(4)	x
20508	501C	1	0x8000	s	(1)	x
20509	501D	1	0x8000	0.1%	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x80000000		(1),(4)	x
20514	5022	1	0x8000	s	(1)	x
20515	5023	1	0x8000	0.1%	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x80000000		(1),(4)	x
20520	5028	1	0x8000	s	(1)	x
20521	5029	1	0x8000	0.1%	(1)	x
20522	502A	1	0x8000		(6)	x

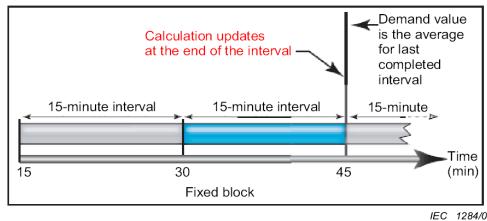
"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(42 of 98)

20523	502B	1	0x8000		(5)	x
20524	502C	2	0x80000000		(1),(4)	x
20526	502E	1	0x8000	s	(1)	x
20527	502F	1	0x8000	0.1%	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x80000000		(1),(4)	x
20532	5034	1	0x8000	s	(1)	x
20533	5035	1	0x8000	0.1%	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x80000000		(1),(4)	x
20538	503A	1	0x8000	s	(1)	x
20539	503B	1	0x8000	0.1%	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x80000000		(1),(4)	x
20544	5040	1	0x8000	s	(1)	x
20545	5041	1	0x8000	0.1%	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x80000000		(1),(4)	x
20550	5046	1	0x8000	s	(1)	x
20551	5047	1	0x8000	0.1%	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x80000000	[kWh]	(1)	x
20555	504B	2	0x80000000	[kWh]	(2)	x
20557	504D	2	0x80000000	[kWh]	(2)	x
20559	504F	2	0x80000000	[kVarh]	(1)	x
20561	5051	2	0x80000000	[kVarh]	(2)	x
20563	5053	2	0x80000000	[kVarh]	(2)	x
20565	5055	2	0x80000000	[kVAh]	(2)	x
20567	5057	2	0x80000000	[kWh]	(2)	x
20569	5059	2	0x80000000	[kWh]	(2)	x
20571	505B	2	0x80000000	[kWh]	(2)	x
20573	505D	2	0x80000000	[kWh]	(2)	x
20575	505F	2	0x80000000	[kWh]	(2)	x
20577	5061	2	0x80000000	[kWh]	(2)	x
20579	5063	2	0x80000000	[kVarh]	(2)	x
20581	5065	2	0x80000000	[kVarh]	(2)	x
20583	5067	2	0x80000000	[kVarh]	(2)	x
20585	5069	2	0x80000000	[kVarh]	(2)	x
20587	506B	2	0x80000000	[kVarh]	(2)	x
20589	506D	2	0x80000000	[kVarh]	(2)	x

REMARKS:

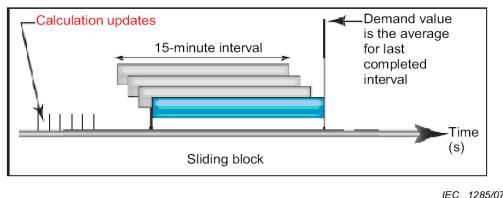
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) <ul style="list-style-type: none"> • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) <ul style="list-style-type: none"> • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode <ul style="list-style-type: none"> • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[8] - Thermal Measurement B - BASE

**RETURN TO TABLE
OF MAPS**

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
32768	8000	1	(REGISTER CANNOT BE USED !!)		(1)	
32769	8000	1	(first register available)			

REMARKS:

(1)	The relative address register 0 MUST NOT BE USED to prevent the corresponding absolute address ("default" position of the Thermal Measurement Functionality = 8000h) coinciding with the "non implemented/non significant" value in the Automation Functionality (always 8000h)
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Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
32768	8000	1	0			
32769	8000	1	0			

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
32768	8000	1	Sensor 1 temperature value	[°C]	(1)	
32769	8001	1	0x8000	[°C]	(1)	
32770	8002	1	0x8000	[°C]	(1)	
...	[°C]	(1)	
32968	80C8	1	0x8000	[°C]	(1)	

REMARKS:

(1)	Expressed in "numeric coding"
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Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
32768	8000	1				
32769	8001	1				

[N°9] - 3-Phase Measure E 4P + G - EVOLVED

[RETURN TO TABLE
OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1				
20481	5001	1				

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	Neutral Current Value	[A]	(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	0x8000	[V]	(2),(4)	
20495	500F	1	0x8000	[V]	(2),(4)	
20496	5010	1	0x8000	[V]	(2),(4)	
20497	5011	1	0x8000	[V]	(2),(4)	
20498	5012	1	0x8000	[V]	(2),(4)	
20499	5013	1	0x8000	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(46 of 98)

20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	
20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	0x8000	%	(2)	
20513	5021	1	0x8000	%	(2)	
20514	5022	1	0x8000	%	(2)	
20515	5023	1	0x8000	%	(2)	
20516	5024	1	0x8000	%	(2)	
20517	5025	1	0x8000	%	(2)	
20518	5026	1	0x8000	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	0x8000	[kW]	(1),(4)	
20523	502B	1	0x8000	[kVar]	(1),(4)	
20524	502C	1	0x8000	[kVar]	(1)	
20525	502D	1	0x8000	[kVA]	(2)	
20526	502E	1	0x8000	[kVA]	(1),(4)	
20527	502F	1	0x8000	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	0x8000	[Hz]/100	(1),(3)	
20530	5032	2	0x80000000	[kWh]	(1)	x
20532	5034	2	0x80000000	[kWh]	(2),(4)	x
20534	5036	2	0x80000000	[kWh]	(2),(4)	x
20536	5038	2	0x80000000	[kVar]	(1)	x
20538	503A	2	0x80000000	[kVar]	(2),(4)	x
20540	503C	2	0x80000000	[kVar]	(2),(4)	x
20542	503E	2	0x80000000	[kVAh]	(2)	x
20544	5040	1	0x8000	[kW]	(1),(4)	
20545	5041	1	0x8000	[kW]	(1),(4)	
20546	5042	1	0x8000	[kW]	(1),(4)	
20547	5043	1	0x8000	[kVar]	(1),(4)	
20548	5044	1	0x8000	[kVar]	(1),(4)	
20549	5045	1	0x8000	[kVar]	(1),(4)	
20550	5046	1	0x8000	[kVar]	(1)	
20551	5047	1	0x8000	[kVar]	(1)	
20552	5048	1	0x8000	[kVar]	(1)	
20553	5049	1	0x8000	[kVA]	(2)	
20554	504A	1	0x8000	[kVA]	(2)	
20555	504B	1	0x8000	[kVA]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x80000000	[kWh]	(2),(4)	x
20567	5057	2	0x80000000	[kWh]	(2),(4)	x
20569	5059	2	0x80000000	[kWh]	(2),(4)	x
20571	505B	2	0x80000000	[kWh]	(2),(4)	x
20573	505D	2	0x80000000	[kWh]	(2),(4)	x
20575	505F	2	0x80000000	[kWh]	(2),(4)	x
20577	5061	2	0x80000000	[kVarh]	(2),(4)	x
20579	5063	2	0x80000000	[kVarh]	(2),(4)	x
20581	5065	2	0x80000000	[kVarh]	(2),(4)	x
20583	5067	2	0x80000000	[kVarh]	(2),(4)	x
20585	5069	2	0x80000000	[kVarh]	(2),(4)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(47 of 98)

20587	506B	2	0x80000000	[kVarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x
20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kVar]	(1)	x
20600	5078	1	0x8000	[kVar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(48 of 98)

20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x
20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x

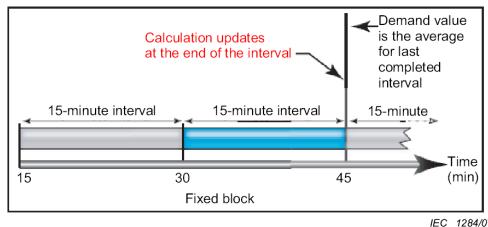
*"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(49 of 98)*

20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x
20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

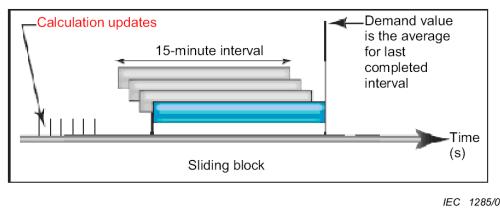
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) <ul style="list-style-type: none"> • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) <ul style="list-style-type: none"> • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode <ul style="list-style-type: none"> • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[10] - Earth leak. Elec. Prot. B ED - BASE

[RETURN TO TABLE
OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
28672	7000	1	Earth leakage Prealarm (>threshold ₁)		(1)	
28673	7001	1	Earth leakage alarm (>threshold ₂)		(1)	
28674	7002	1	0		(1)	
28675	7003	1	0		(1)	
28676	7004	1	Earth leakage P. Tripped relay		(2)	
28677	7005	1	0		(2)	

REMARKS:

(1)	The information shown here "autorestores" when the condition that has generated it no longer applies
(2)	The information shown here is retained even when the condition that has generated it no longer applies. the "restore" condition can only be the reading of the device's closed status. It is therefore necessary that the Switch Status Functionality is present; if it is not, the Tripped Relay information MUST NOT BE IMPLEMENTED (E.g.: if the switch is brought back to Open => the Tripped Relay notification must be maintained until the restore condition kicks in)

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
28672	7000	1				
28673	7001	1				

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
28672	7000	1	Earth leakage P. Tripped Relay (total) counter			x
28673	7001	1	0x8000			x
28674	7002	1	0x8000		(1),(3)	x
28675	7003	2	0x80000000		(1)	x
28677	7005	1	G1 "main setting"- Earth leakage: levels	[mA]	(2)	x
28678	7006	1	G1 - Earth leakage: Times	[msec]	(2)	x
28679	7007	1	0x8000	[°C]	(2)	x
28680	7008	1	0x8000	[msec]	(2)	x

REMARKS:

(1)	Type: reply Read Only Bit of the "Tripped" type : •bit0=reply of Earth leakage Tripped Relay P. •bit1=reply of Overtemperature Tripped Relay P. •bit15=2=0
(2)	Expressed as "numeric coding"
(3)	In case of devices that SIMULTANEOUSLY implement Three-Phase and Earth leakage Protection this register MUST NOT BE IMPLEMENTED for the purposes of guaranteeing a unique management of "Last Release data Buffer". the information about the "Earth leakage Protection Tripped Relay", "Overtemperature P. tripped Relay" and relative values in mA or °C is made available in this case in the register of the same name in Three-phase Protection.
(4)	If the value is not available, "negative zero" must be indicated (see numeric coding section)

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
28672	7000	1	Switch Opening Command			
28673	7001	1	Switch Opening Command			

[11] - 3-Phase Measure E 4P ED - EVOLVED

[RETURN TO TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(53 of 98)

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	Neutral Current Value	[A]	(2),(4)	
20484	5004	1	0x8000	[A]	(2)	
20485	5005	1	Earth leakage Current Value	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	0x8000	[V]	(2),(4)	
20495	500F	1	0x8000	[V]	(2),(4)	
20496	5010	1	0x8000	[V]	(2),(4)	
20497	5011	1	0x8000	[V]	(2),(4)	
20498	5012	1	0x8000	[V]	(2),(4)	
20499	5013	1	0x8000	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	
20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	0x8000	%	(2)	
20513	5021	1	0x8000	%	(2)	
20514	5022	1	0x8000	%	(2)	
20515	5023	1	0x8000	%	(2)	
20516	5024	1	0x8000	%	(2)	
20517	5025	1	0x8000	%	(2)	
20518	5026	1	0x8000	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	0x8000	[kW]	(1),(4)	
20523	502B	1	0x8000	[kVar]	(1),(4)	
20524	502C	1	0x8000	[kVar]	(1)	
20525	502D	1	0x8000	[kVA]	(2)	
20526	502E	1	0x8000	[kVA]	(1),(4)	
20527	502F	1	0x8000	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	0x8000	[Hz]/100	(1),(3)	
20530	5032	2	0x80000000	[kWh]	(1)	x
20532	5034	2	0x80000000	[kWh]	(2),(4)	x
20534	5036	2	0x80000000	[kWh]	(2),(4)	x
20536	5038	2	0x80000000	[kVar]	(1)	x
20538	503A	2	0x80000000	[kVar]	(2),(4)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(54 of 98)

20540	503C	2	0x80000000	[kVar]	(2),(4)	x
20542	503E	2	0x80000000	[kVAh]	(2)	x
20544	5040	1	0x8000	[kW]	(1),(4)	
20545	5041	1	0x8000	[kW]	(1),(4)	
20546	5042	1	0x8000	[kW]	(1),(4)	
20547	5043	1	0x8000	[kVar]	(1),(4)	
20548	5044	1	0x8000	[kVar]	(1),(4)	
20549	5045	1	0x8000	[kVar]	(1),(4)	
20550	5046	1	0x8000	[kVar]	(1)	
20551	5047	1	0x8000	[kVar]	(1)	
20552	5048	1	0x8000	[kVar]	(1)	
20553	5049	1	0x8000	[kVA]	(2)	
20554	504A	1	0x8000	[kVA]	(2)	
20555	504B	1	0x8000	[kVA]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x80000000	[kWh]	(2),(4)	x
20567	5057	2	0x80000000	[kWh]	(2),(4)	x
20569	5059	2	0x80000000	[kWh]	(2),(4)	x
20571	505B	2	0x80000000	[kWh]	(2),(4)	x
20573	505D	2	0x80000000	[kWh]	(2),(4)	x
20575	505F	2	0x80000000	[kWh]	(2),(4)	x
20577	5061	2	0x80000000	[kVarh]	(2),(4)	x
20579	5063	2	0x80000000	[kVarh]	(2),(4)	x
20581	5065	2	0x80000000	[kVarh]	(2),(4)	x
20583	5067	2	0x80000000	[kVarh]	(2),(4)	x
20585	5069	2	0x80000000	[kVarh]	(2),(4)	x
20587	506B	2	0x80000000	[kVarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x
20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kVar]	(1)	x
20600	5078	1	0x8000	[kVar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(55 of 98)

20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x
20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x
20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(56 of 98)

20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x
20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x
20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(4)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(57 of 98)

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x80000000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	0x8000		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x80000000		(1),(4)	x
20496	5010	1	0x8000	s	(1)	x
20497	5011	1	0x8000	0.1%	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x80000000		(1),(4)	x
20502	5016	1	0x8000	s	(1)	x
20503	5017	1	0x8000	0.1%	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x80000000		(1),(4)	x
20508	501C	1	0x8000	s	(1)	x
20509	501D	1	0x8000	0.1%	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x80000000		(1),(4)	x
20514	5022	1	0x8000	s	(1)	x
20515	5023	1	0x8000	0.1%	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x80000000		(1),(4)	x
20520	5028	1	0x8000	s	(1)	x
20521	5029	1	0x8000	0.1%	(1)	x
20522	502A	1	0x8000		(6)	x
20523	502B	1	0x8000		(5)	x
20524	502C	2	0x80000000		(1),(4)	x
20526	502E	1	0x8000	s	(1)	x
20527	502F	1	0x8000	0.1%	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x80000000		(1),(4)	x
20532	5034	1	0x8000	s	(1)	x
20533	5035	1	0x8000	0.1%	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x80000000		(1),(4)	x
20538	503A	1	0x8000	s	(1)	x
20539	503B	1	0x8000	0.1%	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x80000000		(1),(4)	x
20544	5040	1	0x8000	s	(1)	x
20545	5041	1	0x8000	0.1%	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x

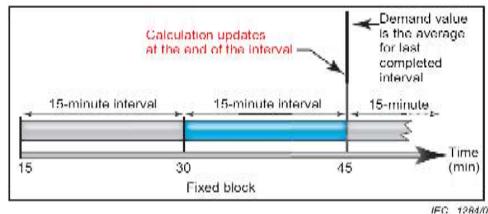
"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(58 of 98)

20548	5044	2	0x80000000		(1),(4)	x
20550	5046	1	0x8000	s	(1)	x
20551	5047	1	0x8000	0.1%	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x80000000	[kWh]	(1)	x
20555	504B	2	0x80000000	[kWh]	(2)	x
20557	504D	2	0x80000000	[kWh]	(2)	x
20559	504F	2	0x80000000	[kVarh]	(1)	x
20561	5051	2	0x80000000	[kVarh]	(2)	x
20563	5053	2	0x80000000	[kVarh]	(2)	x
20565	5055	2	0x80000000	[kVAh]	(2)	x
20567	5057	2	0x80000000	[kWh]	(2)	x
20569	5059	2	0x80000000	[kWh]	(2)	x
20571	505B	2	0x80000000	[kWh]	(2)	x
20573	505D	2	0x80000000	[kWh]	(2)	x
20575	505F	2	0x80000000	[kWh]	(2)	x
20577	5061	2	0x80000000	[kWh]	(2)	x
20579	5063	2	0x80000000	[kVarh]	(2)	x
20581	5065	2	0x80000000	[kVarh]	(2)	x
20583	5067	2	0x80000000	[kVarh]	(2)	x
20585	5069	2	0x80000000	[kVarh]	(2)	x
20587	506B	2	0x80000000	[kVarh]	(2)	x
20589	506D	2	0x80000000	[kVarh]	(2)	x

REMARKS:

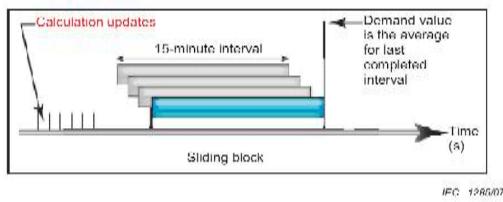
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) <ul style="list-style-type: none"> • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) <ul style="list-style-type: none"> • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode <ul style="list-style-type: none"> • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[N°12] - 3-Phase Measure E 3P + G M - EVOLVED

[RETURN TO TABLE
OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1				
20481	5001	1				

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	0x8000	[A]	(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	0x8000	[V]	(2),(4)	
20495	500F	1	0x8000	[V]	(2),(4)	
20496	5010	1	0x8000	[V]	(2),(4)	
20497	5011	1	Voltage 1-2	[V]	(2),(4)	
20498	5012	1	Voltage1-3	[V]	(2),(4)	
20499	5013	1	Voltage 2-3	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(61 of 98)

20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	THD Phase 1 (R) vs. fundamental current	%	(2)	
20513	5021	1	THD Phase 2 (S) vs. fundamental current	%	(2)	
20514	5022	1	THD Phase 3 (T) vs. fundamental current	%	(2)	
20515	5023	1	0x8000	%	(2)	
20516	5024	1	0x8000	%	(2)	
20517	5025	1	0x8000	%	(2)	
20518	5026	1	0x8000	%	(2)	
20519	5027	1	THD Voltage 1-2 vs. fundamental	%	(2)	
20520	5028	1	THD Voltage 1-3 vs. fundamental	%	(2)	
20521	5029	1	THD Voltage 2-3 vs. fundamental	%	(2)	
20522	502A	1	Three-phase active power	[kW]	(1),(4)	
20523	502B	1	Three-phase reactive power	[kVar]	(1),(4)	
20524	502C	1	0x8000	[kVar]	(1)	
20525	502D	1	0x8000	[kVA]	(2)	
20526	502E	1	Three-phase Apparent Power	[kVA]	(1),(4)	
20527	502F	1	Three-phase power factor (PF)	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	Three-phase Frequency	[Hz]/100	(1),(3)	
20530	5032	2	0x80000000	[kWh]	(1)	x
20532	5034	2	Positive Three-phase Active Energy	[kWh]	(2),(4)	x
20534	5036	2	Negative Three-phase Active Energy	[kWh]	(2),(4)	x
20536	5038	2	0x80000000	[kVar]	(1)	x
20538	503A	2	Positive Three-phase Reactive Energy	[kVar]	(2),(4)	x
20540	503C	2	Negative Three-phase Reactive Energy	[kVar]	(2),(4)	x
20542	503E	2	0x80000000	[kVAh]	(2)	x
20544	5040	1	Phase 1 Active Power (R)	[kW]	(1),(4)	
20545	5041	1	Phase 2 Active Power (S)	[kW]	(1),(4)	
20546	5042	1	Phase 3 active power (T)	[kW]	(1),(4)	
20547	5043	1	Reactive Power phase 1 (R)	[kVar]	(1),(4)	
20548	5044	1	Reactive Power phase 2 (S)	[kVar]	(1),(4)	
20549	5045	1	Reactive Power phase 3 (T)	[kVar]	(1),(4)	
20550	5046	1	0x8000	[kVar]	(1)	
20551	5047	1	0x8000	[kVar]	(1)	
20552	5048	1	0x8000	[kVar]	(1)	
20553	5049	1	0x8000	[kVA]	(2)	
20554	504A	1	0x8000	[kVA]	(2)	
20555	504B	1	0x8000	[kVA]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x80000000	[kWh]	(2),(4)	x
20567	5057	2	0x80000000	[kWh]	(2),(4)	x
20569	5059	2	0x80000000	[kWh]	(2),(4)	x
20571	505B	2	0x80000000	[kWh]	(2),(4)	x
20573	505D	2	0x80000000	[kWh]	(2),(4)	x
20575	505F	2	0x80000000	[kWh]	(2),(4)	x
20577	5061	2	0x80000000	[kVarh]	(2),(4)	x
20579	5063	2	0x80000000	[kVarh]	(2),(4)	x
20581	5065	2	0x80000000	[kVarh]	(2),(4)	x
20583	5067	2	0x80000000	[kVarh]	(2),(4)	x
20585	5069	2	0x80000000	[kVarh]	(2),(4)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(62 of 98)

20587	506B	2	0x80000000	[kVarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x
20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kVar]	(1)	x
20600	5078	1	0x8000	[kVar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(63 of 98)

20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x
20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(64 of 98)

20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x
20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(3)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x80000000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	0x8000		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x80000000		(1),(4)	x
20496	5010	1	0x8000	s	(1)	x
20497	5011	1	0x8000	0.1%	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x80000000		(1),(4)	x
20502	5016	1	0x8000	s	(1)	x
20503	5017	1	0x8000	0.1%	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x80000000		(1),(4)	x
20508	501C	1	0x8000	s	(1)	x
20509	501D	1	0x8000	0.1%	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x80000000		(1),(4)	x
20514	5022	1	0x8000	s	(1)	x
20515	5023	1	0x8000	0.1%	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x80000000		(1),(4)	x
20520	5028	1	0x8000	s	(1)	x
20521	5029	1	0x8000	0.1%	(1)	x
20522	502A	1	0x8000		(6)	x

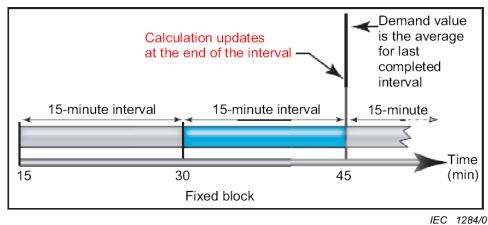
"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(65 of 98)

20523	502B	1	0x8000		(5)	x
20524	502C	2	0x80000000		(1),(4)	x
20526	502E	1	0x8000	s	(1)	x
20527	502F	1	0x8000	0.1%	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x80000000		(1),(4)	x
20532	5034	1	0x8000	s	(1)	x
20533	5035	1	0x8000	0.1%	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x80000000		(1),(4)	x
20538	503A	1	0x8000	s	(1)	x
20539	503B	1	0x8000	0.1%	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x80000000		(1),(4)	x
20544	5040	1	0x8000	s	(1)	x
20545	5041	1	0x8000	0.1%	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x80000000		(1),(4)	x
20550	5046	1	0x8000	s	(1)	x
20551	5047	1	0x8000	0.1%	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x80000000	[kWh]	(1)	x
20555	504B	2	0x80000000	[kWh]	(2)	x
20557	504D	2	0x80000000	[kWh]	(2)	x
20559	504F	2	0x80000000	[kVarh]	(1)	x
20561	5051	2	0x80000000	[kVarh]	(2)	x
20563	5053	2	0x80000000	[kVarh]	(2)	x
20565	5055	2	0x80000000	[kVAh]	(2)	x
20567	5057	2	0x80000000	[kWh]	(2)	x
20569	5059	2	0x80000000	[kWh]	(2)	x
20571	505B	2	0x80000000	[kWh]	(2)	x
20573	505D	2	0x80000000	[kWh]	(2)	x
20575	505F	2	0x80000000	[kWh]	(2)	x
20577	5061	2	0x80000000	[kWh]	(2)	x
20579	5063	2	0x80000000	[kVarh]	(2)	x
20581	5065	2	0x80000000	[kVarh]	(2)	x
20583	5067	2	0x80000000	[kVarh]	(2)	x
20585	5069	2	0x80000000	[kVarh]	(2)	x
20587	506B	2	0x80000000	[kVarh]	(2)	x
20589	506D	2	0x80000000	[kVarh]	(2)	x

REMARKS:

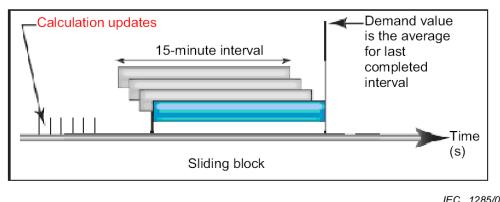
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[N°13] - 3-Phase Elect Proct S 3P + G - STANDARD

[RETURN TO TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	Overload Prealarm (>threshold I1)		(1)	
29185	7201	1	Overload alarm (>threshold I2)		(1)	
29186	7202	1	0		(1)	
29187	7203	1	0		(1)	
29188	7204	1	Alarm 1 Overtemperature (>threshold T)		(1)	
29189	7205	1	0		(1)	
29190	7206	1	0		(1)	
29191	7207	1	0		(1)	
29192	7208	1	0		(1)	
29193	7209	1	Overload Tripped relay P. (no indication of phase)		(2)	x
29194	720A	1	Short-circuit Tripped relay P. (no indications of phase)		(2)	x
29195	720B	1	Device Protection Tripped relay ("III element", no indications of phase)		(2)	x
29196	720C	1	Earth Tripped relay P.		(2)	x
29197	720D	1	Tripped relay P. Overtemperature		(2)	x
29198	720E	1	0		(2)	x
29199	720F	1	0		(2)	x
29200	7210	1	0		(2)	x
29201	7211	1	0		(2)	x
29202	7212	1	0		(2)	x
29203	7213	1	0		(2)	x
29204	7214	1	0		(2)	x
29205	7215	1	0		(2)	x
29206	7216	1	0		(2)	x
29207	7217	1	0		(2)	x
29208	7218	1	0		(2)	x
29209	7219	1	0		(2)	x
29210	721A	1	0		(2)	x
29211	721B	1	0		(2)	x
29212	721C	1	0		(2)	x
29213	721D	1	0		(2)	x
29214	721E	1	0		(2)	x
29215	721F	1	0		(2)	x
29216	7220	1	0		(2)	x
29217	7221	1	0		(2)	x
29218	7222	1	0		(2)	x
29219	7223	1	0		(2)	x
29220	7224	1	0		(2)	x
29221	7225	1	0		(1)	
29222	7226	1	0		(1)	
29223	7227	1	0		(1)	
29224	7228	1	0		(1)	
29225	7229	1	0		(1)	
29226	722A	1	0		(1)	
29227	722B	1	0		(1)	
29228	722C	1	0		(1)	
29229	722D	1	0		(1)	
29230	722E	1	0		(1)	
29231	722F	1	0		(1)	
29232	7230	1	0		(3)	

REMARKS:

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(68 of 98)

(1)	The information shown here "restores" itself when the condition that has generated it no longer applies
(2)	<p>The information shown here applies even when the condition generating it has disappeared. the "restore" conditions can be (equivalent, alternatively):</p> <ul style="list-style-type: none"> •the measurement of the Closed Status of the Device •the measurement of a minimum current value on the phases. <p>The Switch Status Functionality is therefore not binding (Example : if the switch is returned to Open => the Tripped relay notification must be kept until the restore condition kicks in).</p>
(3)	It indicates that an anomaly has been detected in the "Dual Setting" settings, in particular one or more levels have been found to be greater than the corresponding "Main Setting".

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1				
29185	7201	1				

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	2	0x80000000	[A ²]	(1)	
29186	7202	2	0x80000000	[A ²]	(1)	
29188	7204	2	0x80000000	[A ²]	(1)	
29190	7206	2	0x80000000	[A ²]	(1)	
29192	7208	2	0x80000000	[A ²]	(1)	
29194	720A	1	Overload Tripped relay P counter (total) (no indication of phase)			x
29195	720B	1	Delayable Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29196	720C	1	0x8000			x
29197	720D	1	Device protection Tripped relay counter (total) ("III element", no indications of phase)			x
29198	720E	1	Earth Tripped relay P counter (total)			x
29199	720F	1	Overtemperature Tripped relay P counter (total)			x
29200	7210	10	Last Release Data Buffer		(2),(9),(10)	x
29210	721A	10	Last 20 (most recent) Releases Data Buffer		(2),(9),(10)	x
29220	7224	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29230	722E	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29240	7238	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29250	7242	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29260	724C	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29270	7256	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29280	7260	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29290	726A	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29300	7274	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29310	727E	10	Not available, see note (10)		(2),(9),(10)	x
29320	7288	10	Not available, see note (10)		(2),(9),(10)	x
29330	7292	10	Not available, see note (10)		(2),(9),(10)	x
29340	729C	10	Not available, see note (10)		(2),(9),(10)	x
29350	72A6	10	Not available, see note (10)		(2),(9),(10)	x
29360	72B0	10	Not available, see note (10)		(2),(9),(10)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(69 of 98)

29370	72BA	10	Not available, see note (10)		(2),(9),(10)	x
29380	72C4	10	Not available, see note (10)		(2),(9),(10)	x
29390	72CE	10	Not available, see note (10)		(2),(9),(10)	x
29400	72D8	10	Not available, see note (10)		(2),(9),(10)	x
29410	72E2	1	G1 ("main setting")- Overload: levels	[A]/[%]	(1),(3)	x
29411	72E3	1	G1 - Overload: Times	[msec]	(1)	x
29412	72E4	1	G1 - Overload: options		(3)	x
29413	72E5	2	G1 - delayable short-circuit: levels	[A]/[%]	(1),(4)	x
29415	72E7	1	G1 - delayable short-circuit: Times	[msec]	(1)	x
29416	72E8	1	G1 - delayable short-circuit: options		(4)	x
29417	72E9	2	0x80000000	[A]/[%]	(1),(5)	x
29419	72EB	1	0x8000	[msec]	(1)	x
29420	72EC	1	0x8000		(5)	x
29421	72ED	2	G1 - device protection: levels	[A]	(1),(6)	x
29423	72EF	1	G1 - device protection: Times	[msec]	(1)	x
29424	72F0	1	G1 - device protection: options		(6)	x
29425	72F1	1	G1 - earth: levels	[A]/[%]	(1),(7)	x
29426	72F2	1	G1 - earth: times	[msec]	(1)	x
29427	72F3	1	G1 - earth: options		(7)	x
29428	72F4	1	0x8000	[%]	(1),(8)	x
29429	72F5	1	0x8000	[msec]	(1)	x
29430	72F6	1	0x8000		(8)	x
29431	72F7	1	G1 - overtemperature protection: levels	[°C]	(1)	x
29432	72F8	1	0x8000	[msec]	(1)	x
29433	72F9	1	0x8000	[A]/[%]	(1), (3)	x
29434	72FA	1	0x8000	[msec]	(1)	x
29435	72FB	2	0x80000000	[A]/[%]	(1), (4)	x
29437	72FD	1	0x8000	[msec]	(1)	x
29438	72FE	2	0x80000000	[A]/[%]	(1),(5)	x
29440	7300	1	0x8000	[msec]	(1)	x
29441	7301	1	0x8000	[A]/[%]	(1),(7)	x
29442	7302	1	0x8000	[msec]	(1)	x

REMARKS:

(1)	Expressed in "numeric coding"
(2)	<p>DATA BUFFER Last releases: by reading all the ten words the values are returned in the values indicated below</p> <ul style="list-style-type: none"> •WORD9 : chronology, "year" (MSB) and "month" (LSB); it is the word that is returned first of all in the 10 – MSW block. •WORD8: chronology, "day" (MSB) and "time" (LSB) •WORD7: chronology, "minutes" (MSB) and "seconds" (LSB) •WORD6 and 5: current interrupted or temperature ("numeric coding" , [mA] or [°C], WORD6 is returned before WORD5) •WORD4: detail of protection settings that has caused the Trip (reply read only register of the "levels" type, see note (1)) •WORD3: detail of protection settings that has caused the Trip (reply Read Only register of the "Times" type , see note (1)) •WORD2: detail of protection settings that has caused the Trip (reply Read Only register of the "options" type, see note (3)to(6)) •WORD1: reply Read Only Bit of the "Tripped" type •WORD0: reply Read Only Bit of the "Tripped" type <p>N.B.: WORDs FROM 2 to 4 constitute a single datum and must be read and written in a block. The same applies to WORD 5 and 6, for WORD 7-8-9 and for WORD 0-1.</p> <p>WORD 1:</p> <ul style="list-style-type: none"> •Bit0 Instantaneous short-circuit relay tripped neutral •Bit1 Device Protection Relay Tripped phase 1 ("III element") •Bit2 Device Protection Relay Tripped phase 2 ("III element") •Bit3 Device Protection Relay Tripped phase 3 ("III element") •Bit4 Device Protection Relay Tripped neutral ("III element") •Bit5 Tripped relay in "Main Setting" Mode •Bit6 Tripped relay in "Dual Setting" Mode •Bit7 Tripped relay in "MEM=OFF" Mode on Overload •Bit8 Tripped relay in "I_{2t}=k" mode on delayable short-circuit •Bit 9 Tripped relay in "Logic Selectivity" mode on delayable short-circuit (intervention performed with Tm Delay) •Bit 10 Tripped relay in "Logic Selectivity" Mode on device protection (intervention carried out with Delay •SEL=High) •Bit 11 Tripped relay in "I_{2t}=k" Mode on earth •Bit 12 Earth leakage Tripped •Bit 13 ND •Bit 14 ND •Bit 15 Test Tripped (if Electronic Test only Bit15, if Earth Lekeage Test Bit15 and Bit12) <p>WORD 0:</p> <ul style="list-style-type: none"> •Bit0 Overload Tripped relay P. (no indication of phase) •Bit1 Short-circuit Tripped relay P. (no indications of phase) •Bit2 Device Protection Tripped relay ("III element", no indications of phase) •Bit3 Earth Tripped relay P. •Bit4 Overtemperature Tripped relay P. •Bit5 Overload phase 1 Tripped relay P. •Bit6 Overload phase 2 Tripped relay P. •Bit7 Overload phase 3 Tripped relay P. •Bit8 Overload neutral Tripped relay P. •Bit9 Delayable short-circuit phase 1 Tripped relay P. •Bit10 Delayable short-circuit phase 2 Tripped relay P. •Bit11 Delayable short-circuit phase 3 Tripped relay P. •Bit12 Delayable short-circuit neutral Tripped relay P. •Bit13 Instantaneous short-circuit phase 1 Tripped relay •Bit14 Instantaneous short-circuit Tripped relay phase 2 •Bit15 Instant short-circuit phase 3 Tripped relay
	Overload options

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(71 of 98)

(3)	<ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=I2t=k MEM OFF(001)/I2t=k MEM ON(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I2t, multiple of Ir)
(4)	<p>Delayable short-circuit options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*Ir(0) •Bit4 to 2=curve t=k(001)/I2t=k(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I2t, multiple of Ir)
(5)	<p>Instantaneous short-circuit options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=curve t=k(001)/I2t=k(000)/Not Defined(111) •Bit5= absolute val. divided by 10(1)/absolute value(0) •Bit7 to 6= "0" •Bit15 to 8=work point for curve I2t, multiple of In)
(6)	<p>Device Protection options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2= "0" •Bit5= absolute val. divided by 10(1)/absolute value(0)
(7)	<p>Earth Options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=curve t=k(001)/I2t=k(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I2t, multiple of Ig)
(8)	<p>Neutral options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1="0" (%phase) •Bit4 to 2="0" (curve phase) •Bit7 to 5= "0" •Bit15 to 8="0")
(9)	If number of faults < 20, fill the chronology word with 0x0000
(10)	Register value when is not available: 0x80000000000080000000800000000080000000

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	"Dual Setting" Command Configuration	[sec]	(1)	x

REMARKS:

(1)	<p>"Dual Setting" Command Configuration</p> <ul style="list-style-type: none"> •Bit10 to 0=activation time ("default"=60 sec, "0"=infinite) •Bit11 to 15="0"
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[RETURN TO TABLE
OF MAPS](#)

[N°14] - 3-Phase Measure E 3P + G - EVOLVED

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1				
20481	5001	1				

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	0x8000	[A]	(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	0x8000	[V]	(2),(4)	
20495	500F	1	0x8000	[V]	(2),(4)	
20496	5010	1	0x8000	[V]	(2),(4)	
20497	5011	1	0x8000	[V]	(2),(4)	
20498	5012	1	0x8000	[V]	(2),(4)	
20499	5013	1	0x8000	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(73 of 98)

20509	501D	1	0x8000	%	(1)	
20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	0x8000	%	(2)	
20513	5021	1	0x8000	%	(2)	
20514	5022	1	0x8000	%	(2)	
20515	5023	1	0x8000	%	(2)	
20516	5024	1	0x8000	%	(2)	
20517	5025	1	0x8000	%	(2)	
20518	5026	1	0x8000	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	0x8000	[kW]	(1),(4)	
20523	502B	1	0x8000	[kVar]	(1),(4)	
20524	502C	1	0x8000	[kVar]	(1)	
20525	502D	1	0x8000	[kVA]	(2)	
20526	502E	1	0x8000	[kVA]	(1),(4)	
20527	502F	1	0x8000	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	0x8000	[Hz]/100	(1),(3)	
20530	5032	2	0x80000000	[kWh]	(1)	x
20532	5034	2	0x80000000	[kWh]	(2),(4)	x
20534	5036	2	0x80000000	[kWh]	(2),(4)	x
20536	5038	2	0x80000000	[kVar]	(1)	x
20538	503A	2	0x80000000	[kVar]	(2),(4)	x
20540	503C	2	0x80000000	[kVar]	(2),(4)	x
20542	503E	2	0x80000000	[kVAh]	(2)	x
20544	5040	1	0x8000	[kW]	(1),(4)	
20545	5041	1	0x8000	[kW]	(1),(4)	
20546	5042	1	0x8000	[kW]	(1),(4)	
20547	5043	1	0x8000	[kVar]	(1),(4)	
20548	5044	1	0x8000	[kVar]	(1),(4)	
20549	5045	1	0x8000	[kVar]	(1),(4)	
20550	5046	1	0x8000	[kVar]	(1)	
20551	5047	1	0x8000	[kVar]	(1)	
20552	5048	1	0x8000	[kVar]	(1)	
20553	5049	1	0x8000	[kVA]	(2)	
20554	504A	1	0x8000	[kVA]	(2)	
20555	504B	1	0x8000	[kVA]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x80000000	[kWh]	(2),(4)	x
20567	5057	2	0x80000000	[kWh]	(2),(4)	x
20569	5059	2	0x80000000	[kWh]	(2),(4)	x
20571	505B	2	0x80000000	[kWh]	(2),(4)	x
20573	505D	2	0x80000000	[kWh]	(2),(4)	x
20575	505F	2	0x80000000	[kWh]	(2),(4)	x
20577	5061	2	0x80000000	[kVarh]	(2),(4)	x
20579	5063	2	0x80000000	[kVarh]	(2),(4)	x
20581	5065	2	0x80000000	[kVarh]	(2),(4)	x
20583	5067	2	0x80000000	[kVarh]	(2),(4)	x
20585	5069	2	0x80000000	[kVarh]	(2),(4)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(74 of 98)

20587	506B	2	0x80000000	[kVarh]	(2),(4)	x
20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x
20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kVar]	(1)	x
20600	5078	1	0x8000	[kVar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(75 of 98)

20651	50AB	1	0x8000	%	(2)	x
20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x
20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(76 of 98)

20714	50EA	1	0x8000	%	(2)	x
20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x
20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0,85, is expressed as 85 (Measurement unit 1/100)
(4)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x80000000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	0x8000		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x80000000		(1),(4)	x
20496	5010	1	0x8000	s	(1)	x
20497	5011	1	0x8000	0.1%	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x80000000		(1),(4)	x
20502	5016	1	0x8000	s	(1)	x
20503	5017	1	0x8000	0.1%	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x80000000		(1),(4)	x
20508	501C	1	0x8000	s	(1)	x
20509	501D	1	0x8000	0.1%	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x80000000		(1),(4)	x
20514	5022	1	0x8000	s	(1)	x
20515	5023	1	0x8000	0.1%	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x80000000		(1),(4)	x
20520	5028	1	0x8000	s	(1)	x
20521	5029	1	0x8000	0.1%	(1)	x
20522	502A	1	0x8000		(6)	x

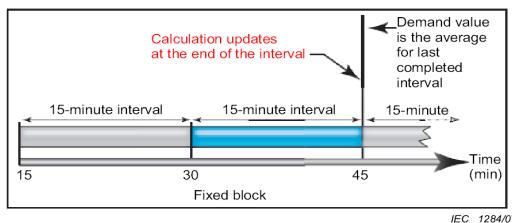
"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(77 of 98)

20523	502B	1	0x8000		(5)	x
20524	502C	2	0x80000000		(1),(4)	x
20526	502E	1	0x8000	s	(1)	x
20527	502F	1	0x8000	0.1%	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x80000000		(1),(4)	x
20532	5034	1	0x8000	s	(1)	x
20533	5035	1	0x8000	0.1%	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x80000000		(1),(4)	x
20538	503A	1	0x8000	s	(1)	x
20539	503B	1	0x8000	0.1%	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x80000000		(1),(4)	x
20544	5040	1	0x8000	s	(1)	x
20545	5041	1	0x8000	0.1%	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x80000000		(1),(4)	x
20550	5046	1	0x8000	s	(1)	x
20551	5047	1	0x8000	0.1%	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x80000000	[kWh]	(1)	x
20555	504B	2	0x80000000	[kWh]	(2)	x
20557	504D	2	0x80000000	[kWh]	(2)	x
20559	504F	2	0x80000000	[kVarh]	(1)	x
20561	5051	2	0x80000000	[kVarh]	(2)	x
20563	5053	2	0x80000000	[kVarh]	(2)	x
20565	5055	2	0x80000000	[kVAh]	(2)	x
20567	5057	2	0x80000000	[kWh]	(2)	x
20569	5059	2	0x80000000	[kWh]	(2)	x
20571	505B	2	0x80000000	[kWh]	(2)	x
20573	505D	2	0x80000000	[kWh]	(2)	x
20575	505F	2	0x80000000	[kWh]	(2)	x
20577	5061	2	0x80000000	[kWh]	(2)	x
20579	5063	2	0x80000000	[kVarh]	(2)	x
20581	5065	2	0x80000000	[kVarh]	(2)	x
20583	5067	2	0x80000000	[kVarh]	(2)	x
20585	5069	2	0x80000000	[kVarh]	(2)	x
20587	506B	2	0x80000000	[kVarh]	(2)	x
20589	506D	2	0x80000000	[kVarh]	(2)	x

REMARKS:

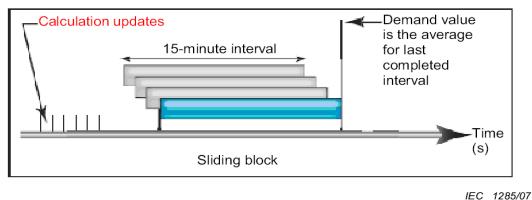
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[N°15] - 3-Phase Elect Proct S 4P + G - STANDARD

[RETURN TO TABLE
OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	Overload Prealarm (>threshold I1)		(1)	
29185	7201	1	Overload alarm (>threshold I2)		(1)	
29186	7202	1	0		(1)	
29187	7203	1	0		(1)	
29188	7204	1	Alarm 1 Overtemperature (>threshold T)		(1)	
29189	7205	1	0		(1)	
29190	7206	1	0		(1)	
29191	7207	1	0		(1)	
29192	7208	1	0		(1)	
29193	7209	1	Overload Tripped relay P. (no indication of phase)		(2)	x
29194	720A	1	Short-circuit Tripped relay P. (no indications of phase)		(2)	x
29195	720B	1	Device Protection Tripped relay ("III element", no indications of phase)		(2)	x
29196	720C	1	Earth Tripped relay P.		(2)	x
29197	720D	1	Tripped relay P. Overtemperature		(2)	x
29198	720E	1	0		(2)	x
29199	720F	1	0		(2)	x
29200	7210	1	0		(2)	x
29201	7211	1	0		(2)	x
29202	7212	1	0		(2)	x
29203	7213	1	0		(2)	x
29204	7214	1	0		(2)	x
29205	7215	1	0		(2)	x
29206	7216	1	0		(2)	x
29207	7217	1	0		(2)	x
29208	7218	1	0		(2)	x
29209	7219	1	0		(2)	x
29210	721A	1	0		(2)	x
29211	721B	1	0		(2)	x
29212	721C	1	0		(2)	x
29213	721D	1	0		(2)	x
29214	721E	1	0		(2)	x
29215	721F	1	0		(2)	x
29216	7220	1	0		(2)	x
29217	7221	1	0		(2)	x
29218	7222	1	0		(2)	x
29219	7223	1	0		(2)	x
29220	7224	1	0		(2)	x
29221	7225	1	0		(1)	
29222	7226	1	0		(1)	
29223	7227	1	0		(1)	
29224	7228	1	0		(1)	
29225	7229	1	0		(1)	
29226	722A	1	0		(1)	
29227	722B	1	0		(1)	
29228	722C	1	0		(1)	
29229	722D	1	0		(1)	
29230	722E	1	0		(1)	
29231	722F	1	0		(1)	
29232	7230	1	0		(3)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(80 of 98)

REMARKS:

(1)	The information shown here "restores" itself when the condition that has generated it no longer applies
(2)	<p>The information shown here applies even when the condition generating it has disappeared. the "restore" conditions can be (equivalent, alternatively):</p> <ul style="list-style-type: none"> •the measurement of the Closed Status of the Device •the measurement of a minimum current value on the phases. <p>The Switch Status Functionality is therefore not binding (Example : if the switch is returned to Open => the Tripped relay notification must be kept until the restore condition kicks in).</p>
(3)	It indicates that an anomaly has been detected in the "Dual Setting" settings, in particular one or more levels have been found to be greater than the corresponding "Main Setting".

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1				
29185	7201	1				

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	2	0x80000000	[A ²]	(1)	
29186	7202	2	0x80000000	[A ²]	(1)	
29188	7204	2	0x80000000	[A ²]	(1)	
29190	7206	2	0x80000000	[A ²]	(1)	
29192	7208	2	0x80000000	[A ²]	(1)	
29194	720A	1	Overload Tripped relay P counter (total) (no indication of phase)			x
29195	720B	1	Delayable Short-circuit Tripped relay P counter (total) (no indications of phase)			x
29196	720C	1	0x8000			x
29197	720D	1	Device protection Tripped relay counter (total) ("III element", no indications of phase)			x
29198	720E	1	Earth Tripped relay P counter (total)			x
29199	720F	1	Overtemperature Tripped relay P counter (total)			x
29200	7210	10	Last Release Data Buffer		(2),(9),(10)	x
29210	721A	10	Last 20 (most recent) Releases Data Buffer		(2),(9),(10)	x
29220	7224	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29230	722E	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29240	7238	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29250	7242	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29260	724C	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29270	7256	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29280	7260	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29290	726A	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29300	7274	10	Last 20 Releases Data Buffer		(2),(9),(10)	x
29310	727E	10	Not available, see note (10)		(2),(9),(10)	x
29320	7288	10	Not available, see note (10)		(2),(9),(10)	x
29330	7292	10	Not available, see note (10)		(2),(9),(10)	x
29340	729C	10	Not available, see note (10)		(2),(9),(10)	x
29350	72A6	10	Not available, see note (10)		(2),(9),(10)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(81 of 98)

29360	72B0	10	Not available, see note (10)		(2),(9),(10)	x
29370	72BA	10	Not available, see note (10)		(2),(9),(10)	x
29380	72C4	10	Not available, see note (10)		(2),(9),(10)	x
29390	72CE	10	Not available, see note (10)		(2),(9),(10)	x
29400	72D8	10	Not available, see note (10)		(2),(9),(10)	x
29410	72E2	1	G1 ("main setting")- Overload: levels	[A]/[%]	(1),(3)	x
29411	72E3	1	G1 - Overload: Times	[msec]	(1)	x
29412	72E4	1	G1 - Overload: options		(3)	x
29413	72E5	2	G1 - delayable short-circuit: levels	[A]/[%]	(1),(4)	x
29415	72E7	1	G1 - delayable short-circuit: Times	[msec]	(1)	x
29416	72E8	1	G1 - delayable short-circuit: options		(4)	x
29417	72E9	2	0x80000000	[A]/[%]	(1),(5)	x
29419	72EB	1	0x8000	[msec]	(1)	x
29420	72EC	1	0x8000		(5)	x
29421	72ED	2	G1 - device protection: levels	[A]	(1),(6)	x
29423	72EF	1	G1 - device protection: Times	[msec]	(1)	x
29424	72F0	1	G1 - device protection: options		(6)	x
29425	72F1	1	G1 - earth: levels	[A]/[%]	(1),(7)	x
29426	72F2	1	G1 - earth: times	[msec]	(1)	x
29427	72F3	1	G1 - earth: options		(7)	x
29428	72F4	1	G1 - neutral protection: levels	[%]	(1),(8)	x
29429	72F5	1	0x8000	[msec]	(1)	x
29430	72F6	1	G1 - neutral protection: options		(8)	x
29431	72F7	1	G1 - overtemperature protection: levels	[°C]	(1)	x
29432	72F8	1	0x8000	[msec]	(1)	x
29433	72F9	1	0x8000	[A]/[%]	(1), (3)	x
29434	72FA	1	0x8000	[msec]	(1)	x
29435	72FB	2	0x80000000	[A]/[%]	(1), (4)	x
29437	72FD	1	0x8000	[msec]	(1)	x
29438	72FE	2	0x80000000	[A]/[%]	(1),(5)	x
29440	7300	1	0x8000	[msec]	(1)	x
29441	7301	1	0x8000	[A]/[%]	(1),(7)	x
29442	7302	1	0x8000	[msec]	(1)	x

REMARKS:

(1)	Expressed in "numeric coding"
(2)	<p>DATA BUFFER Last releases: by reading all the ten words the values are returned in the values indicated below</p> <ul style="list-style-type: none"> •WORD9 : chronology, "year" (MSB) and "month" (LSB); it is the word that is returned first of all in the 10 – MSW block. •WORD8: chronology, "day" (MSB) and "time" (LSB) •WORD7: chronology, "minutes" (MSB) and "seconds" (LSB) •WORD6 and 5: current interrupted or temperature ("numeric coding" , [mA] or [°C], WORD6 is returned before WORD5) •WORD4: detail of protection settings that has caused the Trip (reply read only register of the "levels" type, see note (1)) •WORD3: detail of protection settings that has caused the Trip (reply Read Only register of the "Times" type , see note (1)) •WORD2: detail of protection settings that has caused the Trip (reply Read Only register of the "options" type, see note (3)to(6)) •WORD1: reply Read Only Bit of the "Tripped" type •WORD0: reply Read Only Bit of the "Tripped" type <p>N.B.: WORDs FROM 2 to 4 constitute a single datum and must be read and written in a block. The same applies to WORD 5 and 6, for WORD 7-8-9 and for WORD 0-1.</p> <p>WORD 1:</p> <ul style="list-style-type: none"> •Bit0 Instantaneous short-circuit relay tripped neutral •Bit1 Device Protection Relay Tripped phase 1 ("III element") •Bit2 Device Protection Relay Tripped phase 2 ("III element") •Bit3 Device Protection Relay Tripped phase 3 ("III element") •Bit4 Device Protection Relay Tripped neutral ("III element") •Bit5 Tripped relay in "Main Setting" Mode •Bit6 Tripped relay in "Dual Setting" Mode •Bit7 Tripped relay in "MEM=OFF" Mode on Overload •Bit8 Tripped relay in "I_{2t}=k" mode on delayable short-circuit •Bit 9 Tripped relay in "Logic Selectivity" mode on delayable short-circuit (intervention performed with Tm Delay) •Bit 10 Tripped relay in "Logic Selectivity" Mode on device protection (intervention carried out with Delay •SEL=High) •Bit 11 Tripped relay in "I_{2t}=k" Mode on earth •Bit 12 Earth leakage Tripped •Bit 13 ND •Bit 14 ND •Bit 15 Test Tripped (if Electronic Test only Bit15, if Earth Lekeage Test Bit15 and Bit12) <p>WORD 0:</p> <ul style="list-style-type: none"> •Bit0 Overload Tripped relay P. (no indication of phase) •Bit1 Short-circuit Tripped relay P. (no indications of phase) •Bit2 Device Protection Tripped relay ("III element", no indications of phase) •Bit3 Earth Tripped relay P. •Bit4 Overtemperature Tripped relay P. •Bit5 Overload phase 1 Tripped relay P. •Bit6 Overload phase 2 Tripped relay P. •Bit7 Overload phase 3 Tripped relay P. •Bit8 Overload neutral Tripped relay P. •Bit9 Delayable short-circuit phase 1 Tripped relay P. •Bit10 Delayable short-circuit phase 2 Tripped relay P. •Bit11 Delayable short-circuit phase 3 Tripped relay P. •Bit12 Delayable short-circuit neutral Tripped relay P. •Bit13 Instantaneous short-circuit phase 1 Tripped relay •Bit14 Instantaneous short-circuit Tripped relay phase 2 •Bit15 Instant short-circuit phase 3 Tripped relay
	Overload options

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(83 of 98)

(3)	<ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=I2t=k MEM OFF(001)/I2t=k MEM ON(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I2t, multiple of Ir)
(4)	<p>Delayable short-circuit options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*Ir(0) •Bit4 to 2=curve t=k(001)/I2t=k(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I2t, multiple of Ir)
(5)	<p>Instantaneous short-circuit options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=curve t=k(001)/I2t=k(000)/Not Defined(111) •Bit5= absolute val. divided by 10(1)/absolute value(0) •Bit7 to 6= "0" •Bit15 to 8=work point for curve I2t, multiple of In)
(6)	<p>Device Protection options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2= "0" •Bit5= absolute val. divided by 10(1)/absolute value(0)
(7)	<p>Earth Options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1=absolute val.(1)/*In(0) •Bit4 to 2=curve t=k(001)/I2t=k(000)/Not Defined(111) •Bit7 to 5= "0" •Bit15 to 8=work point for curve I2t, multiple of Ig)
(8)	<p>Neutral options</p> <ul style="list-style-type: none"> •Bit0=disabled(1)/active(0) •Bit1="0" (%phase) •Bit4 to 2="0" (curve phase) •Bit7 to 5= "0" •Bit15 to 8="0")
(9)	If number of faults < 20, fill the chronology word with 0x0000
(10)	Register value when is not available: 0x80000000000080000000800000000080000000

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
29184	7200	1	"Dual Setting" Command Configuration	[sec]	(1)	x

REMARKS:

(1)	<p>"Dual Setting" Command Configuration</p> <ul style="list-style-type: none"> •Bit10 to 0=activation time ("default"=60 sec, "0"=infinite) •Bit11 to 15="0"
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[N°16] -3-Phase Measure E 4P + G M - EVOLVED

[RETURN TO TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1				
20481	5001	1				

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	Neutral Current Value	[A]	(2),(4)	
20484	5004	1	Earth Current Value	[A]	(2)	
20485	5005	1	0x8000	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	Voltage 1-N	[V]	(2),(4)	
20495	500F	1	Voltage 2-N	[V]	(2),(4)	
20496	5010	1	Voltage 3-N	[V]	(2),(4)	
20497	5011	1	Voltage 1-2	[V]	(2),(4)	
20498	5012	1	Voltage 1-3	[V]	(2),(4)	
20499	5013	1	Voltage 2-3	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	
20509	501D	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(85 of 98)

20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	THD Phase 1 (R) vs. fundamental current	%	(2)	
20513	5021	1	THD Phase 2 (S) vs. fundamental current	%	(2)	
20514	5022	1	THD Phase 3 (T) vs. fundamental current	%	(2)	
20515	5023	1	THD Neutral vs. fundamental current	%	(2)	
20516	5024	1	THD Voltage 1-N vs. fundamental	%	(2)	
20517	5025	1	THD Voltage 2-N vs. fundamental	%	(2)	
20518	5026	1	THD Voltage 3-N vs. fundamental	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	Three-phase active power	[kW]	(1),(4)	
20523	502B	1	Three-phase reactive power	[kVar]	(1),(4)	
20524	502C	1	0x8000	[kVar]	(1)	
20525	502D	1	0x8000	[kVA]	(2)	
20526	502E	1	Three-phase Apparent Power	[kVA]	(1),(4)	
20527	502F	1	Three-phase power factor (PF)	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	Three-phase Frequency	[Hz]/100	(1),(3)	
20530	5032	2	0x80000000	[kWh]	(1)	x
20532	5034	2	Positive Three-phase Active Energy	[kWh]	(2),(4)	x
20534	5036	2	Negative Three-phase Active Energy	[kWh]	(2),(4)	x
20536	5038	2	0x80000000	[kVar]	(1)	x
20538	503A	2	Positive Three-phase Reactive Energy	[kVar]	(2),(4)	x
20540	503C	2	Negative Three-phase Reactive Energy	[kVar]	(2),(4)	x
20542	503E	2	0x80000000	[kVAh]	(2)	x
20544	5040	1	Phase 1 Active Power (R)	[kW]	(1),(4)	
20545	5041	1	Phase 2 Active Power (S)	[kW]	(1),(4)	
20546	5042	1	Phase 3 active power (T)	[kW]	(1),(4)	
20547	5043	1	Reactive Power phase 1 (R)	[kVar]	(1),(4)	
20548	5044	1	Reactive Power phase 2 (S)	[kVar]	(1),(4)	
20549	5045	1	Reactive Power phase 3 (T)	[kVar]	(1),(4)	
20550	5046	1	0x8000	[kVar]	(1)	
20551	5047	1	0x8000	[kVar]	(1)	
20552	5048	1	0x8000	[kVar]	(1)	
20553	5049	1	0x8000	[kVA]	(2)	
20554	504A	1	0x8000	[kVA]	(2)	
20555	504B	1	0x8000	[kVA]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x80000000	[kWh]	(2),(4)	x
20567	5057	2	0x80000000	[kWh]	(2),(4)	x
20569	5059	2	0x80000000	[kWh]	(2),(4)	x
20571	505B	2	0x80000000	[kWh]	(2),(4)	x
20573	505D	2	0x80000000	[kWh]	(2),(4)	x
20575	505F	2	0x80000000	[kWh]	(2),(4)	x
20577	5061	2	0x80000000	[kVarh]	(2),(4)	x
20579	5063	2	0x80000000	[kVarh]	(2),(4)	x
20581	5065	2	0x80000000	[kVarh]	(2),(4)	x
20583	5067	2	0x80000000	[kVarh]	(2),(4)	x
20585	5069	2	0x80000000	[kVarh]	(2),(4)	x
20587	506B	2	0x80000000	[kVarh]	(2),(4)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(86 of 98)

20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x
20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kVar]	(1)	x
20600	5078	1	0x8000	[kVar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x
20651	50AB	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(87 of 98)

20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x
20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x
20714	50EA	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(88 of 98)

20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x
20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0.85, is expressed as 85 (Measurement unit 1/100)
(4)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x80000000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	0x8000		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x80000000		(1),(4)	x
20496	5010	1	0x8000	s	(1)	x
20497	5011	1	0x8000	0.1%	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x80000000		(1),(4)	x
20502	5016	1	0x8000	s	(1)	x
20503	5017	1	0x8000	0.1%	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x80000000		(1),(4)	x
20508	501C	1	0x8000	s	(1)	x
20509	501D	1	0x8000	0.1%	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x80000000		(1),(4)	x
20514	5022	1	0x8000	s	(1)	x
20515	5023	1	0x8000	0.1%	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x80000000		(1),(4)	x
20520	5028	1	0x8000	s	(1)	x
20521	5029	1	0x8000	0.1%	(1)	x
20522	502A	1	0x8000		(6)	x
20523	502B	1	0x8000		(5)	x
20524	502C	2	0x80000000		(1),(4)	x

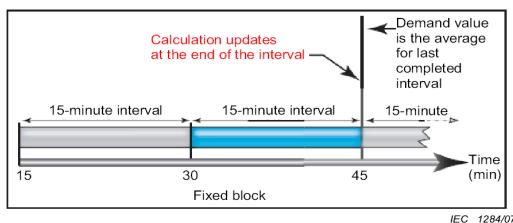
"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(89 of 98)

20526	502E	1	0x8000	s	(1)	x
20527	502F	1	0x8000	0.1%	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x80000000		(1),(4)	x
20532	5034	1	0x8000	s	(1)	x
20533	5035	1	0x8000	0.1%	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x80000000		(1),(4)	x
20538	503A	1	0x8000	s	(1)	x
20539	503B	1	0x8000	0.1%	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x80000000		(1),(4)	x
20544	5040	1	0x8000	s	(1)	x
20545	5041	1	0x8000	0.1%	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x
20548	5044	2	0x80000000		(1),(4)	x
20550	5046	1	0x8000	s	(1)	x
20551	5047	1	0x8000	0.1%	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x80000000	[kWh]	(1)	x
20555	504B	2	0x80000000	[kWh]	(2)	x
20557	504D	2	0x80000000	[kWh]	(2)	x
20559	504F	2	0x80000000	[kVarh]	(1)	x
20561	5051	2	0x80000000	[kVarh]	(2)	x
20563	5053	2	0x80000000	[kVarh]	(2)	x
20565	5055	2	0x80000000	[kVAh]	(2)	x
20567	5057	2	0x80000000	[kWh]	(2)	x
20569	5059	2	0x80000000	[kWh]	(2)	x
20571	505B	2	0x80000000	[kWh]	(2)	x
20573	505D	2	0x80000000	[kWh]	(2)	x
20575	505F	2	0x80000000	[kWh]	(2)	x
20577	5061	2	0x80000000	[kWh]	(2)	x
20579	5063	2	0x80000000	[kVarh]	(2)	x
20581	5065	2	0x80000000	[kVarh]	(2)	x
20583	5067	2	0x80000000	[kVarh]	(2)	x
20585	5069	2	0x80000000	[kVarh]	(2)	x
20587	506B	2	0x80000000	[kVarh]	(2)	x
20589	506D	2	0x80000000	[kVarh]	(2)	x

REMARKS:

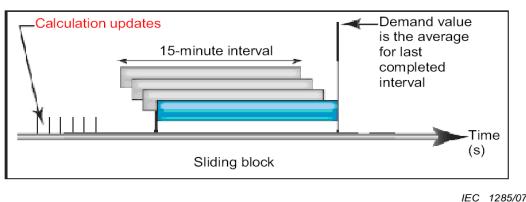
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

[N°17] -3-Phase Measure E 4P MD - EVOLVED

[RETURN TO TABLE OF MAPS](#)

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0			
20481	5001	1	0			
20482	5002	1	0			
20483	5003	1	0			
20484	5004	1	0			
20485	5005	1	0			
20486	5006	1	0			
20487	5007	1	0			
20488	5008	1	0			
20489	5009	1	0			
20490	500A	1	0			

Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1				
20481	5001	1				

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	Phase current value 1 (R)	[A]	(2),(4)	
20481	5001	1	Phase 2 current value (S)	[A]	(2),(4)	
20482	5002	1	Phase 3 Current Value (T)	[A]	(2),(4)	
20483	5003	1	Neutral Current Value	[A]	(2),(4)	
20484	5004	1	0x8000	[A]	(2)	
20485	5005	1	Earth leakage Current Value	[mA]	(2)	
20486	5006	1	0x8000	[A]	(2)	
20487	5007	1	0x8000	[A]	(2)	x
20488	5008	1	0x8000	[A]	(2)	x
20489	5009	1	0x8000	%	(1)	
20490	500A	1	0x8000	%	(1)	
20491	500B	1	0x8000	%	(1)	
20492	500C	1	0x8000	%	(1)	
20493	500D	1	0x8000	%	(1)	x
20494	500E	1	Voltage 1-N	[V]	(2),(4)	
20495	500F	1	Voltage 2-N	[V]	(2),(4)	
20496	5010	1	Voltage 3-N	[V]	(2),(4)	
20497	5011	1	Voltage 1-2	[V]	(2),(4)	
20498	5012	1	Voltage 1-3	[V]	(2),(4)	
20499	5013	1	Voltage 2-3	[V]	(2),(4)	
20500	5014	1	0x8000	[V]	(2)	
20501	5015	1	0x8000	[V]	(2)	
20502	5016	1	0x8000	[V]	(2)	x
20503	5017	1	0x8000	[V]	(2)	x
20504	5018	1	0x8000	%	(1)	
20505	5019	1	0x8000	%	(1)	
20506	501A	1	0x8000	%	(1)	
20507	501B	1	0x8000	%	(1)	x
20508	501C	1	0x8000	%	(1)	
20509	501D	1	0x8000	%	(1)	

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(92 of 98)

20510	501E	1	0x8000	%	(1)	
20511	501F	1	0x8000	%	(1)	x
20512	5020	1	THD Phase 1 (R) vs. fundamental current	%	(2)	
20513	5021	1	THD Phase 2 (S) vs. fundamental current	%	(2)	
20514	5022	1	THD Phase 3 (T) vs. fundamental current	%	(2)	
20515	5023	1	THD Neutral vs. fundamental current	%	(2)	
20516	5024	1	THD Voltage 1-N vs. fundamental	%	(2)	
20517	5025	1	THD Voltage 2-N vs. fundamental	%	(2)	
20518	5026	1	THD Voltage 3-N vs. fundamental	%	(2)	
20519	5027	1	0x8000	%	(2)	
20520	5028	1	0x8000	%	(2)	
20521	5029	1	0x8000	%	(2)	
20522	502A	1	Three-phase active power	[kW]	(1),(4)	
20523	502B	1	Three-phase reactive power	[kVar]	(1),(4)	
20524	502C	1	0x8000	[kVar]	(1)	
20525	502D	1	0x8000	[kVA]	(2)	
20526	502E	1	Three-phase Apparent Power	[kVA]	(1),(4)	
20527	502F	1	Three-phase power factor (PF)	1/100	(1),(3)	
20528	5030	1	0x8000	1/100	(1),(3)	
20529	5031	1	Three-phase Frequency	[Hz]/100	(1),(3)	
20530	5032	2	0x80000000	[kWh]	(1)	x
20532	5034	2	Positive Three-phase Active Energy	[kWh]	(2),(4)	x
20534	5036	2	Negative Three-phase Active Energy	[kWh]	(2),(4)	x
20536	5038	2	0x80000000	[kVar]	(1)	x
20538	503A	2	Positive Three-phase Reactive Energy	[kVar]	(2),(4)	x
20540	503C	2	Negative Three-phase Reactive Energy	[kVar]	(2),(4)	x
20542	503E	2	0x80000000	[kVAh]	(2)	x
20544	5040	1	Phase 1 Active Power (R)	[kW]	(1),(4)	
20545	5041	1	Phase 2 Active Power (S)	[kW]	(1),(4)	
20546	5042	1	Phase 3 active power (T)	[kW]	(1),(4)	
20547	5043	1	Reactive Power phase 1 (R)	[kVar]	(1),(4)	
20548	5044	1	Reactive Power phase 2 (S)	[kVar]	(1),(4)	
20549	5045	1	Reactive Power phase 3 (T)	[kVar]	(1),(4)	
20550	5046	1	0x8000	[kVar]	(1)	
20551	5047	1	0x8000	[kVar]	(1)	
20552	5048	1	0x8000	[kVar]	(1)	
20553	5049	1	0x8000	[kVA]	(2)	
20554	504A	1	0x8000	[kVA]	(2)	
20555	504B	1	0x8000	[kVA]	(2)	
20556	504C	1	0x8000	[kVA]	(1),(4)	
20557	504D	1	0x8000	[kVA]	(1),(4)	
20558	504E	1	0x8000	[kVA]	(1),(4)	
20559	504F	1	0x8000	1/100	(1),(3)	
20560	5050	1	0x8000	1/100	(1),(3)	
20561	5051	1	0x8000	1/100	(1),(3)	
20562	5052	1	0x8000	1/100	(1),(3)	
20563	5053	1	0x8000	1/100	(1),(3)	
20564	5054	1	0x8000	1/100	(1),(3)	
20565	5055	2	0x80000000	[kWh]	(2),(4)	x
20567	5057	2	0x80000000	[kWh]	(2),(4)	x
20569	5059	2	0x80000000	[kWh]	(2),(4)	x
20571	505B	2	0x80000000	[kWh]	(2),(4)	x
20573	505D	2	0x80000000	[kWh]	(2),(4)	x
20575	505F	2	0x80000000	[kWh]	(2),(4)	x
20577	5061	2	0x80000000	[kVarh]	(2),(4)	x
20579	5063	2	0x80000000	[kVarh]	(2),(4)	x
20581	5065	2	0x80000000	[kVarh]	(2),(4)	x
20583	5067	2	0x80000000	[kVarh]	(2),(4)	x
20585	5069	2	0x80000000	[kVarh]	(2),(4)	x
20587	506B	2	0x80000000	[kVarh]	(2),(4)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(93 of 98)

20589	506D	1	0x8000	[A]	(2)	x
20590	506E	1	0x8000	[A]	(2)	x
20591	506F	1	0x8000	[A]	(2)	x
20592	5070	1	0x8000	[A]	(2)	x
20593	5071	1	0x8000	[A]	(2)	x
20594	5072	1	0x8000	[A]	(2)	x
20595	5073	1	0x8000	[A]	(2)	x
20596	5074	1	0x8000	[A]	(2)	x
20597	5075	1	0x8000	[kW]	(1)	x
20598	5076	1	0x8000	[kW]	(1)	x
20599	5077	1	0x8000	[kVar]	(1)	x
20600	5078	1	0x8000	[kVar]	(1)	x
20601	5079	1	0x8000	[kVA]	(2)	x
20602	507A	1	0x8000	[kVA]	(2)	x
20603	507B	1	0x8000	%	(2)	x
20604	507C	1	0x8000	%	(2)	x
20605	507D	1	0x8000	%	(2)	x
20606	507E	1	0x8000	%	(2)	x
20607	507F	1	0x8000	%	(2)	x
20608	5080	1	0x8000	%	(2)	x
20609	5081	1	0x8000	%	(2)	x
20610	5082	1	0x8000	%	(2)	x
20611	5083	1	0x8000	%	(2)	x
20612	5084	1	0x8000	%	(2)	x
20613	5085	1	0x8000	%	(2)	x
20614	5086	1	0x8000	%	(2)	x
20615	5087	1	0x8000	%	(2)	x
20616	5088	1	0x8000	%	(2)	x
20617	5089	1	0x8000	%	(2)	x
20618	508A	1	0x8000	%	(2)	x
20619	508B	1	0x8000	%	(2)	x
20620	508C	1	0x8000	%	(2)	x
20621	508D	1	0x8000	%	(2)	x
20622	508E	1	0x8000	%	(2)	x
20623	508F	1	0x8000	%	(2)	x
20624	5090	1	0x8000	%	(2)	x
20625	5091	1	0x8000	%	(2)	x
20626	5092	1	0x8000	%	(2)	x
20627	5093	1	0x8000	%	(2)	x
20628	5094	1	0x8000	%	(2)	x
20629	5095	1	0x8000	%	(2)	x
20630	5096	1	0x8000	%	(2)	x
20631	5097	1	0x8000	%	(2)	x
20632	5098	1	0x8000	%	(2)	x
20633	5099	1	0x8000	%	(2)	x
20634	509A	1	0x8000	%	(2)	x
20635	509B	1	0x8000	%	(2)	x
20636	509C	1	0x8000	%	(2)	x
20637	509D	1	0x8000	%	(2)	x
20638	509E	1	0x8000	%	(2)	x
20639	509F	1	0x8000	%	(2)	x
20640	50A0	1	0x8000	%	(2)	x
20641	50A1	1	0x8000	%	(2)	x
20642	50A2	1	0x8000	%	(2)	x
20643	50A3	1	0x8000	%	(2)	x
20644	50A4	1	0x8000	%	(2)	x
20645	50A5	1	0x8000	%	(2)	x
20646	50A6	1	0x8000	%	(2)	x
20647	50A7	1	0x8000	%	(2)	x
20648	50A8	1	0x8000	%	(2)	x
20649	50A9	1	0x8000	%	(2)	x
20650	50AA	1	0x8000	%	(2)	x
20651	50AB	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(94 of 98)

20652	50AC	1	0x8000	%	(2)	x
20653	50AD	1	0x8000	%	(2)	x
20654	50AE	1	0x8000	%	(2)	x
20655	50AF	1	0x8000	%	(2)	x
20656	50B0	1	0x8000	%	(2)	x
20657	50B1	1	0x8000	%	(2)	x
20658	50B2	1	0x8000	%	(2)	x
20659	50B3	1	0x8000	%	(2)	x
20660	50B4	1	0x8000	%	(2)	x
20661	50B5	1	0x8000	%	(2)	x
20662	50B6	1	0x8000	%	(2)	x
20663	50B7	1	0x8000	%	(2)	x
20664	50B8	1	0x8000	%	(2)	x
20665	50B9	1	0x8000	%	(2)	x
20666	50BA	1	0x8000	%	(2)	x
20667	50BB	1	0x8000	%	(2)	x
20668	50BC	1	0x8000	%	(2)	x
20669	50BD	1	0x8000	%	(2)	x
20670	50BE	1	0x8000	%	(2)	x
20671	50BF	1	0x8000	%	(2)	x
20672	50C0	1	0x8000	%	(2)	x
20673	50C1	1	0x8000	%	(2)	x
20674	50C2	1	0x8000	%	(2)	x
20675	50C3	1	0x8000	%	(2)	x
20676	50C4	1	0x8000	%	(2)	x
20677	50C5	1	0x8000	%	(2)	x
20678	50C6	1	0x8000	%	(2)	x
20679	50C7	1	0x8000	%	(2)	x
20680	50C8	1	0x8000	%	(2)	x
20681	50C9	1	0x8000	%	(2)	x
20682	50CA	1	0x8000	%	(2)	x
20683	50CB	1	0x8000	%	(2)	x
20684	50CC	1	0x8000	%	(2)	x
20685	50CD	1	0x8000	%	(2)	x
20686	50CE	1	0x8000	%	(2)	x
20687	50CF	1	0x8000	%	(2)	x
20688	50D0	1	0x8000	%	(2)	x
20689	50D1	1	0x8000	%	(2)	x
20690	50D2	1	0x8000	%	(2)	x
20691	50D3	1	0x8000	%	(2)	x
20692	50D4	1	0x8000	%	(2)	x
20693	50D5	1	0x8000	%	(2)	x
20694	50D6	1	0x8000	%	(2)	x
20695	50D7	1	0x8000	%	(2)	x
20696	50D8	1	0x8000	%	(2)	x
20697	50D9	1	0x8000	%	(2)	x
20698	50DA	1	0x8000	%	(2)	x
20699	50DB	1	0x8000	%	(2)	x
20700	50DC	1	0x8000	%	(2)	x
20701	50DD	1	0x8000	%	(2)	x
20702	50DE	1	0x8000	%	(2)	x
20703	50DF	1	0x8000	%	(2)	x
20704	50E0	1	0x8000	%	(2)	x
20705	50E1	1	0x8000	%	(2)	x
20706	50E2	1	0x8000	%	(2)	x
20707	50E3	1	0x8000	%	(2)	x
20708	50E4	1	0x8000	%	(2)	x
20709	50E5	1	0x8000	%	(2)	x
20710	50E6	1	0x8000	%	(2)	x
20711	50E7	1	0x8000	%	(2)	x
20712	50E8	1	0x8000	%	(2)	x
20713	50E9	1	0x8000	%	(2)	x
20714	50EA	1	0x8000	%	(2)	x

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(95 of 98)

20715	50EB	1	0x8000	%	(2)	x
20716	50EC	1	0x8000	%	(2)	x
20717	50ED	1	0x8000	%	(2)	x
20718	50EE	1	0x8000	%	(2)	x
20719	50EF	1	0x8000	%	(2)	x
20720	50F0	1	0x8000	%	(2)	x
20721	50F1	1	0x8000	%	(2)	x
20722	50F2	1	0x8000	%	(2)	x

REMARKS:

(1)	Expressed in "numeric coding"; including sign (most significant bit=sign)
(2)	Expressed in "numeric coding"; without sign
(3)	Example: PF=0.85, is expressed as 85 (Measurement unit 1/100)
(4)	the value must be divided by the corresponding multiplying factor indicated in the read and write registers, if the register is not present it must be considered as multiplication factor 1 Example: I1 [A] = Phase 1 Current Value (R) / Current multiplication factor = 1023 / 100 = 10.23A

"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(96 of 98)

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
20480	5000	1	0x8000		(3)	x
20481	5001	1	0x8000		(2)	x
20482	5002	1	0x8000		(2)	x
20483	5003	1	0x8000		(2)	x
20484	5004	1	0x8000		(2)	x
20485	5005	2	0x80000000		(7)	x
20487	5007	1	0x8000		(1)	x
20488	5008	1	0x8000		(1)	x
20489	5009	1	0x8000		(1)	x
20490	500A	1	0x8000		(1)	x
20491	500B	1	0x8000		(1)	x
20492	500C	1	0x8000		(1)	x
20493	500D	1	0x8000		(5)	x
20494	500E	2	0x80000000		(1),(4)	x
20496	5010	1	0x8000	s	(1)	x
20497	5011	1	0x8000	0.1%	(1)	x
20498	5012	1	0x8000		(6)	x
20499	5013	1	0x8000		(5)	x
20500	5014	2	0x80000000		(1),(4)	x
20502	5016	1	0x8000	s	(1)	x
20503	5017	1	0x8000	0.1%	(1)	x
20504	5018	1	0x8000		(6)	x
20505	5019	1	0x8000		(5)	x
20506	501A	2	0x80000000		(1),(4)	x
20508	501C	1	0x8000	s	(1)	x
20509	501D	1	0x8000	0.1%	(1)	x
20510	501E	1	0x8000		(6)	x
20511	501F	1	0x8000		(5)	x
20512	5020	2	0x80000000		(1),(4)	x
20514	5022	1	0x8000	s	(1)	x
20515	5023	1	0x8000	0.1%	(1)	x
20516	5024	1	0x8000		(6)	x
20517	5025	1	0x8000		(5)	x
20518	5026	2	0x80000000		(1),(4)	x
20520	5028	1	0x8000	s	(1)	x
20521	5029	1	0x8000	0.1%	(1)	x
20522	502A	1	0x8000		(6)	x
20523	502B	1	0x8000		(5)	x
20524	502C	2	0x80000000		(1),(4)	x
20526	502E	1	0x8000	s	(1)	x
20527	502F	1	0x8000	0.1%	(1)	x
20528	5030	1	0x8000		(6)	x
20529	5031	1	0x8000		(5)	x
20530	5032	2	0x80000000		(1),(4)	x
20532	5034	1	0x8000	s	(1)	x
20533	5035	1	0x8000	0.1%	(1)	x
20534	5036	1	0x8000		(6)	x
20535	5037	1	0x8000		(5)	x
20536	5038	2	0x80000000		(1),(4)	x
20538	503A	1	0x8000	s	(1)	x
20539	503B	1	0x8000	0.1%	(1)	x
20540	503C	1	0x8000		(6)	x
20541	503D	1	0x8000		(5)	x
20542	503E	2	0x80000000		(1),(4)	x
20544	5040	1	0x8000	s	(1)	x
20545	5041	1	0x8000	0.1%	(1)	x
20546	5042	1	0x8000		(6)	x
20547	5043	1	0x8000		(5)	x

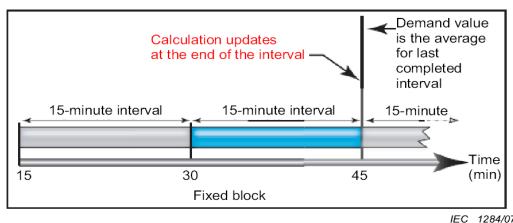
"MOLDED CASE CIRCUIT BREAKER DPX³ 250" S2/Sg MAPS AND COMMANDS
(97 of 98)

20548	5044	2	0x80000000		(1),(4)	x
20550	5046	1	0x8000	s	(1)	x
20551	5047	1	0x8000	0.1%	(1)	x
20552	5048	1	0x8000		(6)	x
20553	5049	2	0x80000000	[kWh]	(1)	x
20555	504B	2	0x80000000	[kWh]	(2)	x
20557	504D	2	0x80000000	[kWh]	(2)	x
20559	504F	2	0x80000000	[kVarh]	(1)	x
20561	5051	2	0x80000000	[kVarh]	(2)	x
20563	5053	2	0x80000000	[kVarh]	(2)	x
20565	5055	2	0x80000000	[kVAh]	(2)	x
20567	5057	2	0x80000000	[kWh]	(2)	x
20569	5059	2	0x80000000	[kWh]	(2)	x
20571	505B	2	0x80000000	[kWh]	(2)	x
20573	505D	2	0x80000000	[kWh]	(2)	x
20575	505F	2	0x80000000	[kWh]	(2)	x
20577	5061	2	0x80000000	[kWh]	(2)	x
20579	5063	2	0x80000000	[kVarh]	(2)	x
20581	5065	2	0x80000000	[kVarh]	(2)	x
20583	5067	2	0x80000000	[kVarh]	(2)	x
20585	5069	2	0x80000000	[kVarh]	(2)	x
20587	506B	2	0x80000000	[kVarh]	(2)	x
20589	506D	2	0x80000000	[kVarh]	(2)	x

REMARKS:

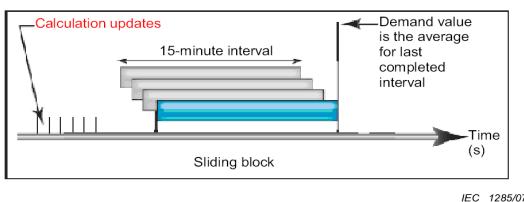
(1)	Expressed in "numeric coding" with sign (most significant bit=sign)
(2)	Expressed in "numeric coding" with sign (always positive value, most significant bit=0)
(3)	BYTE1 (MSB) • "11": system 1V-1I unipolar • "33": system 3V-3I without information on the neutral • "34": system 3V-4I BYTE0 (LSB) • "00": if the active power flows in the normal/indicated direction ("upstream to downstream" or in accordance with the polarity indicated for the connection), "default" • "01": if the active power flows in the reverse direction ("downstream to upstream" or vice versa with regard to the polarity indicated for the connection)
(4)	Measurement unit compatible with the magnitude configured to the previous register, multiplied by the reference multiplication factor for that magnitude
(5)	address of the register (absolute value) of the desired magnitude
(6)	BIT 0 : 1 = The event triggers an alarm, 0 = The event does not trigger the alarm BIT 1 : 1 = The event generates a Link action, 0 = The event does not generate a Link action BIT 2 : 0 = alarm activated when value is > of threshold, 1= alarm activated when value is < of threshold
(7)	BYTE0 (LSB) : calculation mode • "0" ("default"): fixed window or "fixed block interval" • "1": mobile window or "sliding block interval" BYTE1 (MSB) : calculation window (value in [sec], 1 to 60, "default"=15)

- fixed block interval: the intervals are consecutive; the PMD calculates and updates the demand at the end of each interval;



NOTE 15 min is only an example.

- sliding block interval: the intervals are sliding; the PMD calculates and updates the demand at the sliding speed.



NOTE 15 min is only an example.

"DPX³/EMS INTERFACE LG-423890" MAPS AND COMMANDS

Revision of Support maps and Commands

REVISION: 1.0.2

DATE: 23/01/2023

Revision of Support maps and Commands for DPX³/EMS interface LG-423890

- LG-423890

REVISION: 1.3.2

DATE: 23/01/2023

Product involved:

- LG-423890

Products associated:

PRODUCT ITEMS	DESCRIPTION	OBJECT CODE
LG-423890	DPX ³ /EMS interface	0x4109

Standard function codes

COMMUNICATION CHANNEL → COMMANDS ↓	EMS	USB	REMARKS
Read discrete inputs (0x02)	x		

Map lists

EMS Communication Integration B

Read Only Bit - Modbus Function 02

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
1168	0490	1	Communication status		(1)	

REMARKS:

(1)	0 = Communication OK 1 = Communication failure
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Read & Write Bit - Modbus Functions 01-05-15

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
1168	0490	1				
1169	0491	1				

Read Only Registers - Modbus Function 04

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
1168	0490	1				
1169	0491	1				

Read&Write Registers – Modbus Functions 03-06-16

Address (DEC)	Add. (HEX)	Size	Description	Measurement unit	Remarks	Maintenance without power supply
1168	0490	1				
1169	0491	1				