

DMX³-I 6300 switch disconnectors

87045 LIMOGES Cedex

Telephone: 05 55 06 87 87 - Fax: 05 55 06 88 88

References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

0 282 88 / 89 / 98 / 99



CONTENTS	PAGES
1. USE	
2. RANGE	
3. DIMENSIONS	
4. OVERVIEW	
5. ELECTRICAL CONNECTIONS	
6. ELECTRICAL AND MECHANICAL CHARACTERISTICS \dots	
7. CONFORMITY	
8. EQUIPMENTS AND ACCESSORIES	
9. CURVES	1
Full technical sheet LE12614AA	

1. USE

DMX 3 air circuit breakers offer optimal solutions to answer to protection requirements on the origin of the low voltage electrical installation (IEC/EN 60364-1) up to 6300A. Their electric and mechanical robustness, in addiction to breaking capacity and chances of accessorizing, are perfectly suited for these requirements.

DMX³ offer a series of air switch-disconnector (I series) also, with high performances of insulation, robustness, closing and withstand capability.

Both series are furthermore developed for increase continuity service looking at the plant energy efficiency and in respect of "green aspects" (see item 7-Conformity).

2. RANGE

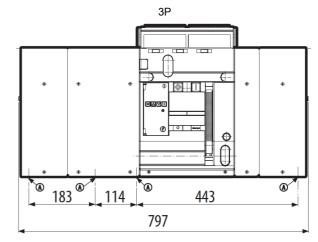
	DMX ³ 6300 circuit breakers (new PU MP2.10 and MP4.10)		
	Fixed version		
	100kA		
I _n (A)	3P	4P	
5000	0 284 80	0 284 82	
6300	0 284 81	0 284 83	
	Draw-out version		
	100	kA	
I _n (A)	3P	4P	
5000	0 284 85	0 284 87	
6300	0 284 86	0 284 88	

	DMX ³ -I 6300 switch disconnectors				
	Fixed version		Fixed version Draw-out version		t version
I _n (A)	I _n (A) 3P 4P		3P	4P	
6300	0 282 88	0 282 89	0 282 98	0 282 99	

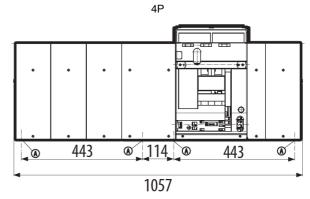
3. DIMENSIONS

3.1 Fixed version

Frontal view



A = fixing point on plate of enclosure

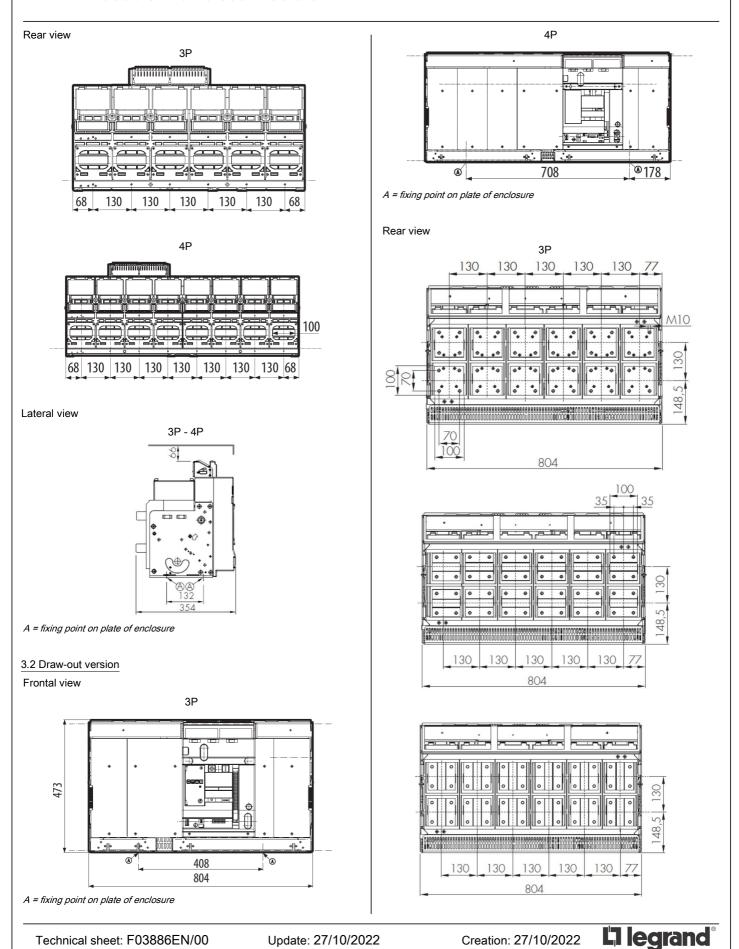


A = fixing point on plate of enclosure

References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

0 282 88 / 89 / 98 / 99

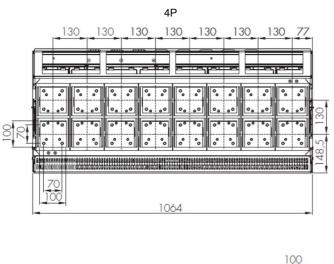
DMX³-I 6300 switch disconnectors

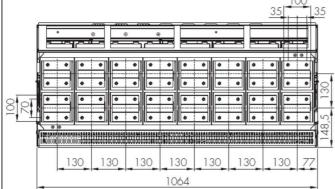


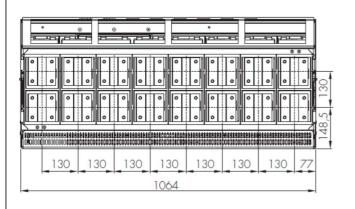
References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

0 282 88 / 89 / 98 / 99

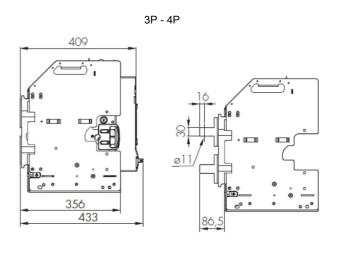
DMX³-I 6300 switch disconnectors

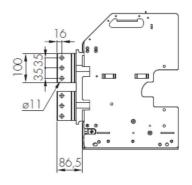






Lateral view

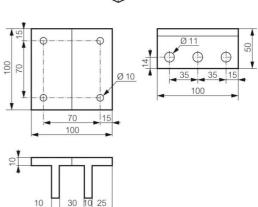




3.3 Rear terminals for fixed version - Flat connection

References		
3P 4P		
0 288 92	0 288 93	





Technical sheet: F03886EN/00

Update: 27/10/2022

Creation: 27/10/2022

17 legrand

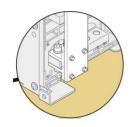
(PU MP2.10 and MP4.10)

DMX³-I 6300 switch disconnectors

References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

0 282 88 / 89 / 98 / 99

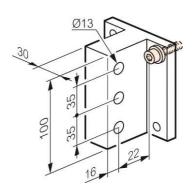
Mounting examples:



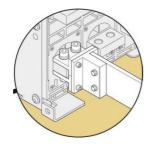


3.4 Rear terminals for fixed version – Vertical connection

References		
3P	4P	
0 288 94	0 288 95	



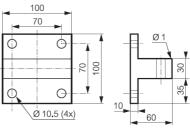
Mounting example:

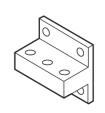


Technical sheet: F03886EN/00

3.5 Rear terminals for Draw-out version – Flat/vertical connection

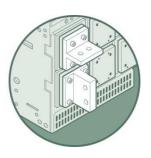
References		
3P	4P	
0 288 94	0 288 95	
0 200 34	0 200 33	



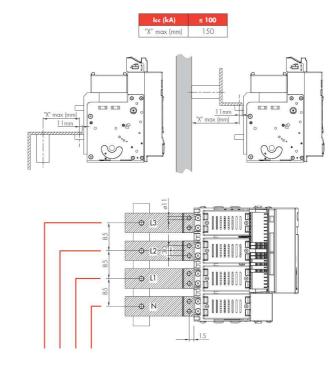




Mounting example:



3.6 Terminations support distances – Fixed version



Update: 27/10/2022 Creation: 27/10/2022



DMX³-I 6300 switch disconnectors

References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

0 282 88 / 89 / 98 / 99

4. OVERVIEW

4.1 Supplied with

ACBs are equipped with auxiliary contacts (4 NO/NC, expandable up to 10) and doorframe; besides:

- Fixed version: equipped with rear terminals for horizontal connections with bars.
- Draw-out version: equipped with flat rear terminals for connections with bars and delivered with base equipped with extraction crank and isolating components.
- Door sealing.

5. ELECTRICAL CONNECTIONS

Use only as a general guideline to select products. Due to extensive variety of switchgear installation shapes and conditions of use, the solution used must always be verified. If inter-poles air distance is less than 20mm, it's recommended use of phase insulators or insulated bars.

Minimum cross section of COPPER busbars per pole

. DMX3 and DMX3-I fixed and draw-out versions

Rated current (A)	Vertical bars (mm)	Horizontal bars (mm)	
5000	6 bars 100 x 10	6 bars 100 x 10	
6300	7 bars 100 x 10	7 bars 100 x 10	

Minimum cross section of ALUMINIUM busbars per pole

. DMX3 and DMX3-I fixed and draw-out versions

Rated current (A)	Vertical bars (mm)	Horizontal bars (mm)
5000	6 bars 100 x 10	6 bars 100 x 10
6300	7 bars 100 x 10	7 bars 100 x 10

6. ELECTRICAL AND MECHANICAL CHARACTERISTICS

Circuit breaker

Electrical data refers to IEC/EN 60947-2 standard

Electrical data refers to IE		DMX ³ 6300	
		DMX ³ L	
		100kA	
Frame current (A)		6300	
Number of poles		3P - 4P	
Rated current I _n (A)		5000 / 6300	
Release type		electronic	
Rated insulation voltage		1000	
Rated impulse withstand		12	
Rated operational voltage	ge (50/60Hz) U _e (V)	690	
Category of use	220 / 240 V AC	B 100	
B . I	380 / 415 V AC	100	
Rated ultimate short-circuit breaking	440 / 460 V AC	100	
capacity I _{cu} (kA)	480 / 500 V AC	100	
capacity i _{cu} (KA)	600 V AC	75	
	690 V AC	65	
Rated service short-circu		100%	
breaking capacity I _{cs} (%		220	
	220 / 240 V AC 380 / 415 V AC	220 220	
Rated short-circuit	440 / 460 V AC	220	
making capacity I _{cm} (kA)		220	
	600 V AC	165	
	690 V AC	143	
Rated short time	220 / 240 V AC 380 / 415 V AC	100	
withstand	440 / 460 V AC	100	
current I _{cw} (kA)	480 / 500 V AC	100	
for t = 1s	600 V AC	75	
	690 V AC	65	
	220 / 240 V AC	85	
Rated short time withstand	380 / 415 V AC	85	
current I _{cw} (kA)	440 / 460 V AC 480 / 500 V AC	85 85	
for t = 3s	600 V AC	75	
	690 V AC	65	
	220 / 240 V AC		
	380 / 415 V AC	1.2 times the maximum setting of the	
Individual pole short-	440 / 460 V AC	definite time delay release tripping	
circuit current I _{IT} (kA)	480 / 500 V AC	current (I _{sd}) ⁽¹⁾	
	600 V AC		
Suitable for insulation	690 V AC	Ves	
Neutral protection (% I _{th})	Yes 0 - 50 - 100	
	mechanical	5000 (w/o maint.); 10000 (with maint.)	
Endurance (cycles)	electrical	5000 (w/o maint.)	
	3P - Fixed	100	
Weight (Kg)	3P - Drawout (2)	150	
3 . , 0,	4P - Fixed	200	
	4P - Drawout (2)	250	
	3P - Fixed 3P - Drawout	419 473	
Height (mm)	4P - Fixed	419	
	4P - Drawout	473	
	3P - Fixed	354	
Depth (mm)	3P - Drawout	433	
	4P - Fixed	354	
	4P - Drawout 3P - Fixed	433 786	
	3P - Fixed 3P - Drawout	1046	
Width (mm)	4P - Fixed	804	
	4P - Drawout	1064	
_	operation	-25°C to +70°C	
Temperature			
Temperature Maintenance	storage	-25°C to +85°C Yes (see specific guide)	

⁽¹⁾ For more details, please consult Legrand

La legrand®

⁽²⁾ Weights for draw-out releases are to be intended with base

(PU MP2.10 and MP4.10)

DMX³-I 6300 switch disconnectors

References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

0 282 88 / 89 / 98 / 99

Switch disconnector

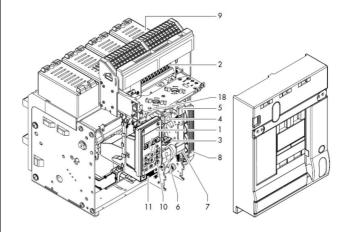
Electrical data refers to IEC/EN 60947-3 standard

		DMX ³ -I 6300
Frame current (A)		6300
Number of poles		3P - 4P
Rated current I _e (A)		6300
Rated insulation voltage U _i (V	Λ	1000
	,	
Rated impulse withstand volta		12
Rated operational voltage (50)	/60Hz) U _e (V)	690
Category of use	I	AC23A
	220 / 240 V AC	220
Rated short circuit making	380 / 415 V AC	220
_	440 / 460 V AC	220
capacity I _{cm} (kA)	480 / 500 V AC	220
	600 V AC	165
	690 V AC	143
Rated short time withstand	220 / 240 V AC	100
current I _{cw} (kA)	380 / 415 V AC 480 / 500 V AC	100
for t = 1s	600 V AC	75
101 (- 15	690 V AC	65
	220 / 240 V AC	85
Rated short time withstand	380 / 415 V AC	85
current I _{cw} (kA)	480 / 500 V AC	85
for t = 3s	600 V AC	75
101 (- 33	690 V AC	65
Suitable for insulation		Yes
	mechanical	5000 (w/o maint.); 10000 (with maint.)
Endurance (cycles)	electrical	5000 (w/o maint.)
	3P - Fixed	100
	3P - Drawout (1)	150
Weight (Kg)	4P - Fixed	200
	4P - Drawout (1)	250
	3P - Fixed	419
	3P - Drawout	473
Height (mm)	4P - Fixed	419
	4P - Drawout	473
	3P - Fixed	354
Secretary	3P - Drawout	433
Depth (mm)	4P - Fixed	354
	4P - Drawout	433
	3P - Fixed	786
Width (mm)	3P - Drawout	1046
widdi (mm)	4P - Fixed	804
	4P - Drawout	1064
Temperature	operation	-25°C to +70°C
Temperature	storage	-25°C to +85°C
Maintenance		Yes (see specific guide)

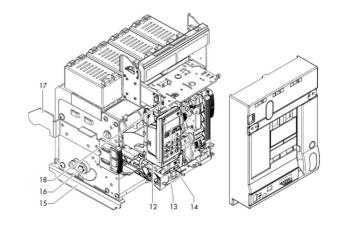
⁽¹⁾ Weights for draw-out releases are to be intended with base

6.1 Main parts constituting the circuit breaker

Fixed version



Draw-out version



- . Protection Unit
- 2. Auxiliary Contacts
- 3. Reset button
- 4. OFF button
- 5. ON button
- 6. ON-OFF Indication
- 7. Spring Status Indication
- 8. Charging handle
- 9. Dejon cell
- 10. Mini USB cover
- 11. Battery cover
- 12. Draw-out mechanism
- 13. Draw-out bar insertion
- 14. Racking shutter
- 15. Support to place the breaker in draw-out cassette

Creation: 27/10/2022

- 16. Draw-out main shaft
- 17. Insertion guide
- 18. Dielectric test selector (if present)

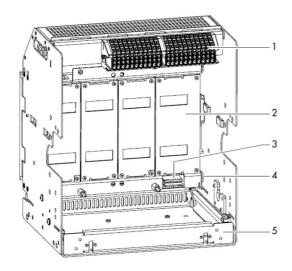
La legrand®

DMX3-I 6300 switch disconnectors

References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

0 282 88 / 89 / 98 / 99

Draw-out base



- Aux terminal block
- Safety shutter
- 3. Earth connection
- 4. Earth terminal
- 5. Removable cassette

6.2 Adjustment ranges

	l _r		I,	sd
I _n (A)	0.2 x I _n	1 x I _n	1.5 x I _{r min}	10 x I _{r max}
5000	1000	5000	3000	50000
6300	1260	1260 6300		63000

^{*} For neutral adjustment, as explained in technical sheet, please consider the values ratios 0%, 50% and 100% on set currents.

6.3 Power losses per pole at In/Ie

Technical sheet: F03886EN/00

Power losses for DMX³

Power Losses (W) DMX ³ 6300				
Version	Fixed	Draw-out		
Rated current I _n (A)	5000	150.0	275.0	
Rateu current in (A)	6300	238.1	436.6	

Note: power loss in the table above are referred and measured as described in the standard IEC 60947-2 (Annex G) for circuit-breakers. Values in the table are referred to a single phase.

Power losses for DMX3-I

Power Losses (W) DMX ³ -I 6300						
Version	Fixed	Draw-out				
Rated current I _e (A)	6300	238.1	436.6			

Note: power loss in the table above are referred and measured as described in the standard IEC 60947-1 for switches. Values in the table are referred to a single phase.

6.4 Deratings

6.4.1 Temperature

Rated current and his adjustment has to be considered relating to a rise or fall of ambient temperature and to a different version or installation conditions. The table below indicates the maximum long-time (LT) protection setting depending on the ambient temperature.

Temperature deratings for DMX³ fixed version - horizontal terminals

Fixed version										
_	up to 40°C		50°C		60°C		65°C		70°C	
Temperature	I _{max} (A)	I_r/I_n	I _{max} (A)	I_r/I_n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n
DMX ³ 6300	5000	1	5000	1	5000	1	5000	1	5000	1
DIVIX 6300	6300	1	6300	1	6048	0.96	5796	0.92	5544	0.88

Temperature deratings for draw-out versions – horizontal terminals

Draw-out version										
	up to	40°C	50	rc	60	°C	65	°C	70	°C
Temperature	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n
DMX ³ 6300	5000	1	5000	1	5000	1	5000	1	5000	1
DIVIX 6300	6300	1	6300	1	5985	0.95	5796	0.92	5292	0.84

6.4.2 Specific conditions use

Climatic conditions

according to IEC/EN 60947-1 Annex Q, Cat. F subject to temperature, humidity, vibration, shock and salt mist.

Electromagnetic disturbances (EMC)

for DMX3 6300 according to IEC/EN 60947-2 Annex F.

6.4.3 Altitude

Update: 27/10/2022

Altitude derating for DMX3 and DMX3-I

<u>-</u>				
Altitude (m)	< 2000	3000	4000	5000
Rated current (A)	I _n	0.98 x I _n	0.94 x I _n	0.9 x I _n
Rated voltage U _e (V)	690	600	500	440
Rated insulation voltage U _i (V)	1000	900	750	600
Dielectric withstand (V)	3500	3200	2500	2000



(PU MP2.10 and MP4.10)

DMX³-I 6300 switch disconnectors

References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

0 282 88 / 89 / 98 / 99

6.5 Electronic protection unit

All DMX³ 1600 can be equipped by an MP2.10 or MP4.10 electronic protection unit which main characteristics are:

- Integrated LED matrix screen to show electrical values and settings (MP2.10) or Integrated LCD screen for displaying electrical values, settings and log (MP4.10)
- Adjustment via rotating encoder
- Adjustment of I_r , t_r , I_{sd} , t_{sd} , I_i , I_g and t_g
- Possibility to enable/disable protections
- Measure and display instantaneous, maximum and average values of different electrical values and protection conditions, fault signaling and log (for versions with measure)
- Equipped with batteries for powering in case of mains fault or when the breaker is open or not connected (MP4.10)

All protection units have onboard a mini USB type "B" socket for maintenance purposes or PCS software connection to PC

6.5.1 Protection unit types

Protection unit are available in in MP2.10 and MP4.10 type as following

Tumo	Feat	Reference	
Туре	display with measure		
MP2.10	LED matrix	NO	0 283 04
IVIP2.10	LEDINALIIX	YES	0 283 06 (*)
MP4.10	LCD screen	NO	0 283 06
IVIP4.10	rch streeti	YES	0 283 07 (*)

(*) For the correct working of metering function, it's necessary to connect a CX3 EMS power supply module ref. 4 149 45

Protective functions

Ir : Long time delay protection against overloads

From 0.2 to 1 x In with steps of 1A

Protection: ON/OFF

t_r: Long delay protection operation time

From 40ms to 30 s (@6Ir) with steps of 40ms Thermal memory: ON/OFF

I_{sd}: Short time delay protection against short-circuits

From 1.5 to 10 x I_r with steps of 1A

Protection: ON/OFF

t_{sd}: Short time delay protection operation time

From 40ms to 1 s with steps of 40ms

(both t=k, independent time delay, and $I^2t=k$, inverse short time delay)

li : Instantaneous protection against very high short-circuits

From 2 to 15 x In or I_{cw} with steps of 1A

Protection: ON/OFF

lg : Earth fault current

From 0.2 to 1 x In with steps of 1A

Protection: ON/OFF

t_g: Time delay on earth fault tripping

From 80ms to 1s with steps of 40ms

(both t=k, independent time delay, and I2t=k, inverse short time delay)

IN : Neutral protection

OFF - 50% - 100% - 200%

6.5.2 Configuration

Protection units MP2.10 and MP4.10 are fully configurable and can be configured in complete freedom.

They can be used to adapt settings as closely as possible to the requirements of the specific installation, either by enabling/disabling the different protection devices (currents and tripping times), or by altering the different trip thresholds.

The tripping curve is thus fully customised to suit the real-life conditions of each project.

Protection units with integrated measurement function can also be used to display voltages, active and reactive powers, frequency, power factor, and also energy, in addition to monitoring currents.

Alarms can be programmed on a number of these parameters: max. voltage, min. voltage, voltage unbalance, max. and min. frequency, etc

6.6 Common accessories for protection units

• Bluetooth communication key

ref. 0 283 10

USB key for Bluetooth communication with DMX³ protection unit, needed to monitor and manage (test and report) the DMX³ protection units through EnerUp + Project App USB connection port on front of protection unit.

• Power supply module

ref 4 149 45

500 mA 12V DC stablized power supply module for $\mathrm{CX^3}$ energy management system – 1 DIN module.

To use for correct use of protection units with measure function (ref. 0 283 01 and 0 283 03)

· Communication interface

ref. 4 149 40

RS485 / CX3 energy management system conversion

Consumption: 0.344 W - 28.7 mA (12 V DC) - 1 DIN module

• External neutral for DMX3 1600

ref. 0 281 98

Optional accessories, to be ordered when ordering electronic protection unit and DMX^3 air circuit breakers for factory assembly



(PU MP2.10 and MP4.10)

References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

0 282 88 / 89 / 98 / 99

7. CONFORMITY

DMX³ range of product concerning circuit-breakers and switch-disconnectors exceed compliance with the IEC/EN standard 60947-2 and 60947-3 respectively. Certification available by IECEE CB-scheme or LOVAG Compliance scheme.

DMX³-I 6300 switch disconnectors

Marks as CCC (China), EAC (Eurasian Federation) or different local certification are available.

DMX³ are in conformity with the Lloyds Shipping Register, RINA and Bureau Veritas Marine.

DMX³ respect the European Directives REACh, RoHS, RAEE and Product Environment Product (PEP Ecopassport) are available.

7.1 MARKING

Product is provided with labelling in full conformity to the referred standard and directives requirements by laser or sticker labels as:

Product laser label on front

- -Manufacturer responsible
- -Denomination, type product, code
- -Standard conformity
- -Standard characteristics declared
- -coloured identification of Icu at 415V



Product sticker label on side

- -Manufacturer responsible
- -Denomination and type product
- -Standard conformity
- -Mark/Licence (if any)
- -Directive requirements
- -bar code identification product
- -Manufacturing Country



Mark sticker label on side

- -Product code
- -Mark/Licence (if any)
- -Country deviation, if any



Packaging sticker label

- -Manufacturer responsible
- -Denomination and type product
- -Standard conformity
- -Mark/Licence (if any)
- -Directive requirements
- -bar code identification product



8. EQUIPMENTS AND ACCESSORIES

8.1 Control auxiliaries

shunt trip: when energised the circuit breaker will be tripped
 24 V AC and DC
 ref. 0 288 48

48 V AC and DC ref. 0 288 49 ref. 0 288 50 220 ÷ 250 V AC and DC ref. 0 288 51 ref. 0 288 51 ref. 0 288 55 ref. 0 288 51 ref. 0 288 51 ref. 0 288 52 ref. 0 288 52

710 · 400 V / 10	101: 0 200 02
Rated operating voltage (Uc)	AC: 24V;48V;110V ÷ 130V;220V ÷ 250V;415V/440V/480V DC: 24V; 48V; 110V ÷ 130V; 220V ÷ 250V
Voltage range (%Uc)	70 ÷ 110
Pick-up consumption (W / VA)	500 / 500
Pick-up time (ms)	180
Hold consumption (W /VA)	5/5
Minimum opening time (ms)	30
Insulation voltage (kV)	2.5

 undervoltage releases: when the coil is de-energised, the circuit breaker will be tripped

24 V AC and DC ref. 0 288 55

 48 V AC and DC
 ref. 0 288 56

 110 ÷ 130 V AC and DC
 ref. 0 288 57

 220 ÷ 250 V AC and DC
 ref. 0 288 58

 415 ÷ 440 V AC
 ref. 0 288 59

Rated operating voltage (U _c) AC: 24V;48V;110V ÷ 130V;220V ÷ 250V;415V/440V/480 DC: 24V; 48V; 110V ÷ 130V; 220V ÷ 250V
Voltage range (%U₀) 85 ÷ 110
Pick-up consumption (W / VA) 500 / 500
Pick-up time (ms) 180
Hold consumption (W /VA) 5 / 5
Minimum opening time (ms) 60
Insulation voltage (kV) 2.5

Modules for delayed tripping, to be used with undervoltage releases
 110 V AC and DC
 ref. 0 288 62
 230 V AC and DC
 ref. 0 288 63

Rated operating voltage (Uc)	AC: 110V / 230V DC: 110V / 230V
Voltage range (%Uc)	85 ÷ 110
Pick-up consumption (W / VA)	16.5 (@110V) / 34.5 (@230V)
Time delay (s)	1 (1)
Hold consumption (W /VA)	5 (@110V) / 10 (@230V)
Opening threshold	0.3 ÷ 0.75 U _n
Closing threshold	0.85 U _n
Operating temperature (°C)	-10 ÷ +55

(1) It is possible to connect up to 3 modules - 1s of delay for each module installed

Motor operators

connect to a release coil (UVR or trip on energising) and a closing coil
24 V AC and DC ref. 0 288 34
48 V AC and DC ref. 0 288 35
110 ÷ 130 V AC and DC ref. 0 288 36
220 ÷ 250 V AC and DC ref. 0 288 37
415 ÷ 440 V AC ref. 0 288 38
480 V AC and DC ref. 0 288 40

Rated operating voltage (U _c)	AC: 24V;48V;110V ÷ 130V;220V÷250V;415V ÷ 440V;480V DC: 24V; 48V; 110V ÷ 130V; 220V ÷ 250V
Voltage range (%U₀)	85 ÷ 110
Maximum Power consumption (W / VA)	180 / 180 (pole 85mm); 240/240 (pole 130mm)
Maximum peak current for 80ms	(2 ÷ 3) x I _n
Charging time (s)	5 (pole 85mm); 7 (pole 130mm)
Operating frequency (n° / min)	2 (pole 85mm); 1 (pole 130mm)



DMX3-I 6300 switch disconnectors

References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

0 282 88 / 89 / 98 / 99

_		• • •
· C	losing	coils

To enable remote closing of the circuit breaker if the closing spring is charged

 24 V AC and DC
 ref. 0 288 41

 48 V AC and DC
 ref. 0 288 42

 110 ÷ 130 V AC and DC
 ref. 0 288 43

 220 ÷ 250 V AC and DC
 ref. 0 288 44

 415 ÷ 480 V AC
 ref. 0 288 45

710 · 400 V / 10	101: 0 200 40
Rated operating voltage (Uc)	AC: 24V;48V;110V ÷ 130V;220V ÷ 250V;415V/440V/480V DC: 24V; 48V; 110V ÷ 130V; 220V ÷ 250V
Voltage range (%V _n)	85 ÷ 110
Pick-up consumption (W / VA)	500 / 500
Pick-up time (ms)	180
Hold consumption (W /VA)	5/5
Maximum closing time (ms)	50
Insulation voltage (kV)	2.5

8.2 Signalling auxiliaries

 Signalling contact for draw-out version Inserted / test / draw-out signalling contact

3 changeover contacts per position ref. 0 288 13

Rated operating voltage (Uc)

Rated operating voltage (Uc)

AC 250V 16A 125V 16A 125V 16A

Contact "ready to close" with charged springs
 ref. 0 288 14

Rated operating voltage (U _c)	DC	250V 0.3A 125V 0.6A
Rated operating voltage (Oc)	۸,	250V 16A
	AC	125V 16A

Additional signalling contact ref. 0 288 15

Dated anausting malters (III)	DC	250V 0.3A 125V 0.6A
Rated operating voltage (U _c)	AC	250V 16A 125V 16A

Signalling contact for auxiliaries (ST, CC and UVR) ref. 0 288 16

Rated operating voltage (Uc)	DC	250V 0.3A 125V 0.6A
	AC	250V 16A 125V 16A

8.3 Locking

Universal key locks

To be used in combination with key locking support ref. 0 281 91

0	Key barrel and flat key with random mapping	ref. 4 238 80
0	Key barrel and flat key	
	with fixed mapping EL43525	ref. 4 238 81
0	Key barrel and flat key	

with fixed mapping EL 43363 ref. 4 238 82

o Key barrel and star key with random mapping ref. 4 238 83

o Key locking support in "open" position ref. 0 288 28 To be equipped with universal keylocks ref. 4 238 80/81/82/83

Key locking support in "draw-out" position ref. 0 281 94
 To be equipped with universal keylocks ref. 4 238 80/81/82/83

Update: 27/10/2022

Door locking

Technical sheet: F03886EN/00

Prevents opening of the door with the circuit breaker closed Left-hand and right-hand side mounting ref. 0 288 20

· Padlocks in "open" position

Padlocking system for ACB (padlock not supplied) ref. 0 288 21
Padlock for buttons ref. 0 288 24
Padlocking system for shutters (padlock not supplied) ref. 0 288 26

8.4 Accessories

- Mechanical operations counter: to count total number of operation cycles of device ref. 0 288 23
- Rating mis-insertion device: to prevent the insertion of a draw-out circuit breaker into an incompatible base
 ref. 0 288 25
- Lifting plate ref. 0 288 79

8.5 Fixing devices for DMX3 and DMX3-I 6300

Specific instruction sheets are provide to integrate DMX³ and DMX³-I 6300 into XL³ enclosures ranges (fixing plates, metal faceplates for circuit breakers and cable sleeves, etc...).

8.6 Equipment for conversion of a fixed device into draw-out device

Bases for draw-out device
 For DMX³ / DMX³-I 6300 frame 3P
 For DMX³ / DMX³-I 6300 frame 4P
 ref. 0 289 14

Transformation kit for draw-out version

For DMX³ / DMX³-I 6300 frame 3P ref. 0 289 15 For DMX³ / DMX³-I 6300 frame 4P ref. 0 289 16

8.7 Equipment for interlocking

The mechanical interlock is set up using cables and can interlock 2 or 3 devices, which may be different type in a vertical or horizontal configuration. The interlock unit is mounted on the right-hand side of the device. Interlock cables to be ordered separately.

Interlock for DMX³ 6300 ref. 0 288 66

8.8 Interlock cables

•	1000 mm	ref. 0 289 17
•	1500 mm	ref. 0 289 18
•	2600 mm	ref. 0 289 20
•	3000 mm	ref. 0 289 21
•	3600 mm	ref. 0 289 22
•	4000 mm	ref. 0 289 23
•	4600 mm	ref. 0 289 24
•	5600 mm	ref. 0 289 25

Creation: 27/10/2022



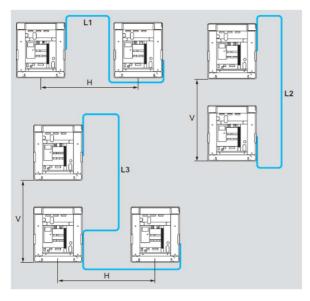
(PU MP2.10 and MP4.10)

DMX³-I 6300 switch disconnectors

References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

0 282 88 / 89 / 98 / 99

Choice of interlock cable



Calculation of cable length:

L1 = 1430 + H

L2 = 1570 + V

L3 = 1430 + V + H

8.9 Rear terminals

· For fixed version

For flat connections with bars, 3P	ref. 0 288 92
For flat connections with bars, 4P	ref. 0 288 93
For vertical connections with bars, 3P	ref. 0 288 94
For vertical connections with bars, 4P	ref. 0 288 95

Note1: refs. 0 288 92/93 to be fixed onto horizontal rear terminals of the circuit breaker

Note 2: refs. 0 288 94/95 to are used to transform a flat connection into a vertical one. To be fixed
onto refs. 0 288 92/93 according to the number of poles.

· For draw-out version

For vertical or horizontal connections with bars, 3P ref. 0 288 94

For vertical or horizontal connections with bars, 4P ref. 0 288 95

Note: to be fixed directly onto plate rear terminals of the circuit breaker

Note: for fixed and draw-out versions, please consider to double the number of references for each pole.

8.10 Insulating shields

	•	
•	Fixed version 3P	ref. 0 288 98
•	Fixed version 4P	ref. 0 288 99
•	Draw-out version 3P	ref. 0 288 18
•	Draw-out version 4P	ref. 0 288 19



References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

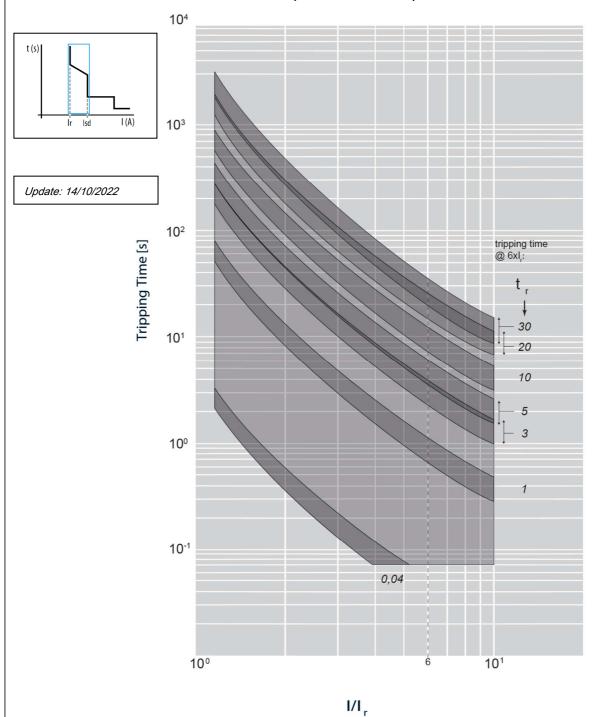
0 282 88 / 89 / 98 / 99

(PU MP2.10 and MP4.10)

DMX³-I 6300 switch disconnectors

9. CURVES

9.1 TRIPPING CURVE FOR DMX³ 6300 MPx.10 protection units: L - T protection detail



Value	Description
I	current
l _r	long time setting current
t _r	long time delay



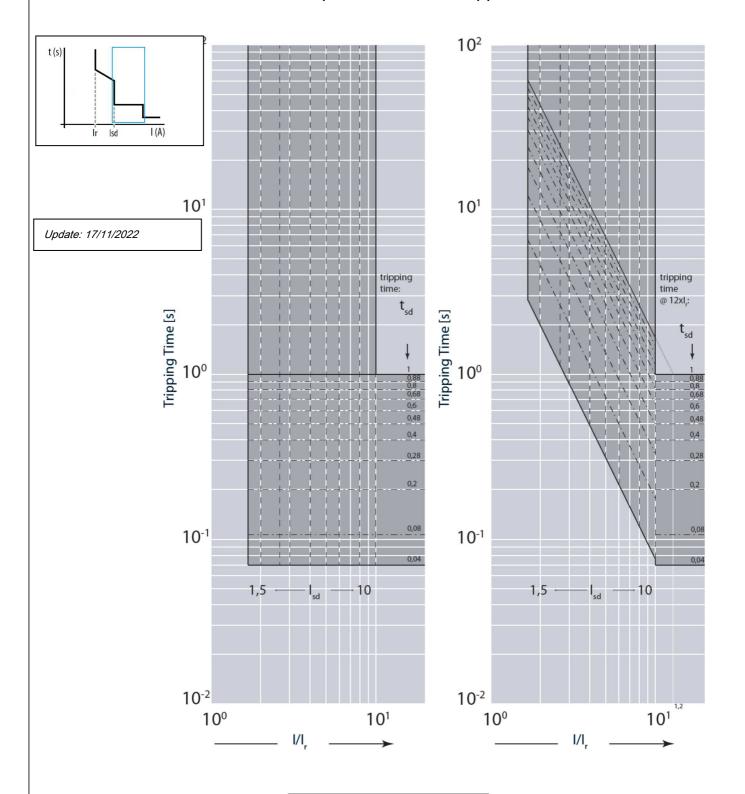
References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

0 282 88 / 89 / 98 / 99

(PU MP2.10 and MP4.10)

DMX³-I 6300 switch disconnectors

9.2 TRIPPING CURVE FOR DMX3 6300 MPx.10 protection units: short time trip protection detail



Value	Description
I	current
I _{sd}	short time setting current
t _{sd}	short time delay

Technical sheet: F03886EN/00 Update: 27/10/2022

La legrand

Creation: 27/10/2022

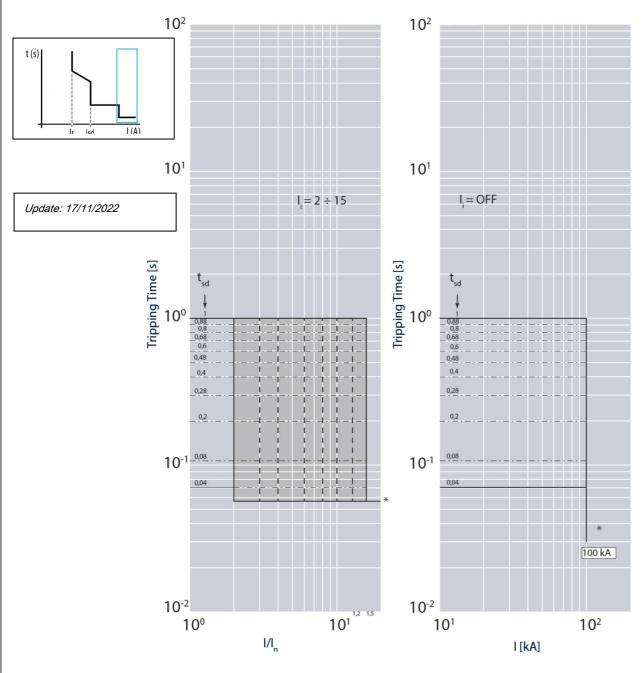
References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

0 282 88 / 89 / 98 / 99

(PU MP2.10 and MP4.10)

DMX³-I 6300 switch disconnectors

9.3 TRIPPING CURVE FOR DMX³ 6300 MPx.10 protection units: instantaneous trip protection detail



→
-

I _{cu}	Values for I _{sf}
100kA	100kA

	Value	Description
	1	current
	l _n	rated current
ſ	t _{sd}	short time delay
ſ	l _i	Instantaneous release
	I _{cw}	Rated short time withstand current

Technical sheet: F03886EN/00

/2022 **Li legrand**

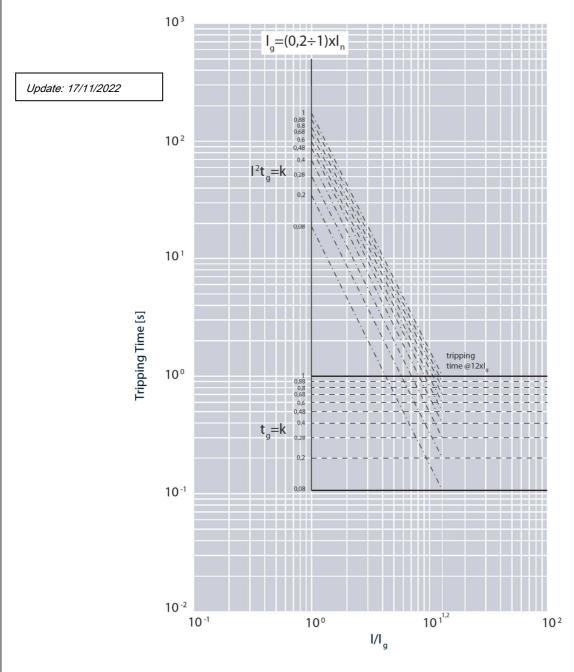
(PU MP2.10 and MP4.10)

DMX³-I 6300 switch disconnectors

References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

0 282 88 / 89 / 98 / 99

9.4 Ground fault curve for DMX³ 4000 MPx.10 protection units



Value	Description
ı	current
In	rated current
lg	Ground fault current
t _{sd}	short time delay
t _{sd} = k	Constant tripping time setting
$I^2 t_{sd} = k$	Constant pass-through energy setting



0 282 88 / 89 / 98 / 99

References: 0 284 80 / 81 / 82 / 83 / 85 / 86 / 87 / 88

(PU MP2.10 and MP4.10)

Technical sheet: F03886EN/00

DMX³-I 6300 switch disconnectors

9.5 PASS-THROUGH SPECIFIC ENERGY CURVE (at 415V)

