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DX³ STOP ARC 6000 A Phase + Neutral, neutral on left side

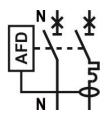
Cat. N°(s): 4 159 12 / 13 / 14



1. DESCRIPTION - USE

Arc fault detection device integrated with thermal-magnetic circuit breaker (MCB) with contact position indication for the protection of a unitary electrical circuit. Reduction of the fire ignition risk in the electrical circuit, protection against short-circuits and overloads, isolation of electrical circuits.

Symbol:



Technology:

. Limiting device

- . The Neutral contact closes before and opens after the $\ensuremath{\mathsf{P}}\xspace{\mathsf{hase}}$ contact
- . The Phase pole provides protection and isolation for the Phase $\operatorname{circuit}$
- . The Neutral pole provides isolation for the Neutral circuit

2. RANGE

Polarity:

. 2 poles including 1 protected pole and 1 neutral pole

Width:

. 2 modules (36 mm)

Rated currents In:

. 10 $\,/$ 16 / 20 A, C curve

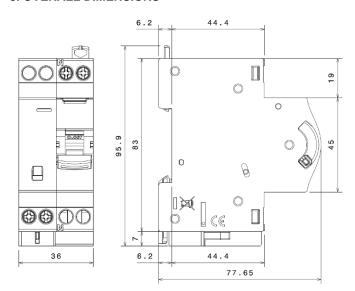
Magnetic tripping curves:

. C curve (between 5 and 10 In)

Rated voltage and frequency:

. 230 V \sim , 50 Hz with standard tolerances

3. OVERALL DIMENSIONS



4. PREPARATION - CONNECTION

Mounting:

. On symmetrical EN 60.715 rail or DIN 35 rail

Operating position:

.Vertical Horizontal

Upside down On the side

Power supply:

. From the top



4. PREPARATION - CONNECTION (continued)

Connection:

- . Terminals protected against direct contact IP20, wired device . Cage terminals, with release and captive screws
- . Terminals fitted with shutters preventing a cable from beeing placed under the terminal, with the terminal partly open or closed . Alignment and spacing of the terminals permitting connection with
- the other products in the range via promising connection with
- . Terminal depth: 14 mm at the top and 12 mm at the bottom . Screw head: mixed, slotted and Pozidriv no. 2
- . Tightening torques:
- Recommended: 1.6 to 2 Nm
- Min.: 1.2 Nm
- Max.: 2.8 Nm

Conductor type:

- . Copper cable or supply busbar
- . Cable cross-section

	Without ferrule	With ferrule
Rigid cable	1 x 1.5 to 16 mm ² 2 x 1.5 to 6 mm ²	-
Flexible cable	1 x 1.5 to 10 mm ² 2 x 1.5 to 4 mm ²	1 x 1.5 to 10 mm ²

. Prong busbar, alone or with a flexible wire (without ferrule) 10 mm² or a connection terminal in the same terminal.

Recommended tools:

. For the terminals, screwdriver with 5.5 mm blade or Pozidriv no. 2 screwdriver

. For attaching or removing the DIN rail, screwdriver with 5.5 mm blade or Pozidriv no. 2 screwdriver

Manual actuation:

- . Ergonomic 2-positions handle
- . "I-ON": Device closed
- . "O-OFF": Device open

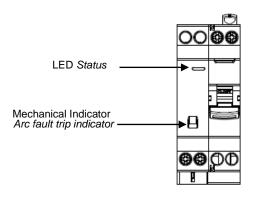
Contact status display:

. By marking of the handle

- "O-OFF" in white on a green background = contacts open
- "I-ON" in white on a red background = contacts closed

Arc fault device status display:

. By both indicator light and mechanical indicator



4. POSITIONING - CONNECTION (continued)

Indicator meaning code

Indicators state	meaning
- + -	No or incorrect electrical source or/and device switched off
+	Normal running: The circuit is monitored and protected by the arc fault device
- + -	Arc fault detected: The device tripped to avoid the risk of fire Installation has to be verified
+	Abnormal running: The circuit is not protected by the arc default device.

Insulation tests:

. Very important:

Disconnect output wires and handle must be OFF.

Arc fault detection tests:

. The DX 3 STOP ARC is equipped with an auto-test function running continuously. The LED indicates if an abnormal running is detected.

Sealing:

. Possible in the open or closed positions

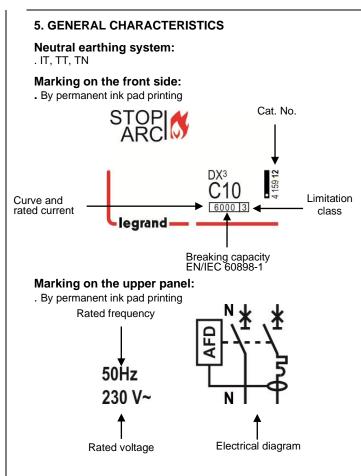
Labelling:

. Circuit identification by way of a label inserted in the label holder situated on the front of the product.









. The upstream and downstream terminals of the neutral pole are marked with an "N" moulded close to the screw heads.

Minimum operating voltage:

- . U = 70 V (without auxiliaries)
- . U = 95 V (with auxiliaries)

Maximum operating voltage: U = 250 V

Arc fault detection device:

- . Compliant with standard IEC/EN 62606:
- . Fully Integrated with a MCB
- . Protects against parallel and series arc fault
- . Protects against earth arc fault

. State indicators integrated in the device (see chapter Arc fault device status display)

Breaking capacity on one single pole (phase pole): . In accordance with Icn1 EN/IEC 60898-1: 4.5 kA at 230 V ~

Breaking capacity:

Standard	Breaking capacity	Voltage between poles	Breaking capacity
	lcs	000 V	6 kA
EN/IEC 60898-1	lcn	230 V	6 kA

Isolation distance:

. The distance between the contacts is greater than 5.5 mm with the handle in the open position.

The MCB is suitable for isolation in accordance with standard EN/IEC 60898-1.

5. GENERAL CHARACTERISTICS (continued)

Installation requirements: . The device is intended for unitary circuit protection as per the installation and operating conditions defined by the product standard and shall not be installed upstream of a group of circuit breakers or multiple circuits.

Isolation distance:

. The distance between the contacts is greater than 5.5 mm with the handle in the open position.

. The DX³ STOP ARC is suitable for isolation in accordance with standard EN/IEC 60898-1.

Insulation voltage:

. Ui = 400 V in accordance with standard EN/IEC 60898-1

Degree of pollution:

. 2 in accordance with EN/IEC 60898-1

Dielectric strength:

. 2,000 V on input and handle off

Rated impulse withstand voltage:

 $Uimp = 4 \, kV$

Protection class (protection degree):

. Terminals protected against direct contact. Protection class against solid objects and liquids (wired device): IP20 in accordance with standards IEC 529 - EN 60529 and NF 20-010

- . Front panel protected against direct contact: IP40
- . Class II in relation to metallic conductive parts

. Protection class against mechanical impacts IK02 in accordance with standard EN 62262.

Plastic materials:

. Polyamide and P.B.T.

Enclosure heat and fire resistance:

. Resistance to glow wire tests at 960°C, in accordance with standard EN/IEC 60898-1

. Classification V2, in accordance with standard UL94

Higher heating potential:

. The heat potential is assessed at: 2.60 MJ

Closing and opening force via the handle:

- . 4 N on opening
- . 10 N on closing

Mechanical endurance:

- . Compliant with standard EN/IEC 60898-1 & EN/IEC 62606
- . Tested with 20,000 operations
- Electrical endurance: . Compliant with standard EN/IEC 60898-1 & EN/IEC 62606
- . Tested with 10,000 operations with load (In x Cos (0 0.9)

Sinusoidal vibration resistance in accordance with IEC 60068.2.6:

- . Axes: x y z
- . Frequency: 10 to 55 Hz
- . Acceleration: $3g(1g = 9.81m.s^{-2})$

Resistance to tremors:

In accordance with standard EN/IEC 60898-1

Ambient temperatures:

- . Operation: from 25°C to + 40°C
- . Storage: from 40°C to + 70°C

5. GENERAL CHARACTERISTICS (continued)

EMC Compatibility:

The design of DX3 STOP ARC with its intelligent signal analysis of the power grid avoids any interference with PLC signal. Tests according to IEC 61000 guarantee electromagnetic compatibility with other devices on the power grid.

Packaged volume:

Packaging	Volume (dm ³)
Per 1	0.360

Average unit weight per catalogue number:

. 0.19 kg

Derating of DX³ STOP ARC function of the number of devices placed side by side:

When several MCBs are installed side by side and operate simultaneously, the heat dissipation of one pole is limited. This results in an increased operating temperature for the circuit breakers which may cause false tripping. Applying the following coefficients to the operating currents is recommended.

Number of MCBs side by side	Coefficient
2 - 3	0.9
4 - 5	0.8
6 - 9	0.7
≥ 10	0.6

These values are given in the IEC 60439-1 recommendation and NF C 63421 and EN 60439-1 standards.

In order to avoid having to use these coefficients there must be good ventilation and the devices must be kept apart using the spacing elements Cat. No. 4 063 07 (0.5 module).

Derating of DX³ STOP ARC in the event of use with fluorescent tubes:

LEDS and electronic or ferromagnetic ballasts provide a high inrush current for a very short time. These currents are liable to cause tripping of the DX3 STOP ARC.

The maximum number of ballasts per MCB stated by the lamp and ballast manufacturers in their catalogues should be taken into account during installation.

Impact of height:

	≤2,000 m	3,000 m	4,000 m	5,000 m
Dielectric strength	2,000 V	1,750 V	1,500 V	1,250 V
Maximum oper ting voltage	230 V	230 V	230 V	230 V
Derating at 30°C	none	none	none	none

Power dissipated:

. with In/Un

In	10 A	16 A	20 A
Power (W) dissipated	2.4	5.8	6.6

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5. GENERAL CHARACTERISTICS (continued)

Derating of DX³ STOP ARC depending on the ambient temperature:

. The nominal characteristics of a circuit breaker are modified depending on the ambient temperature which prevails in the cabinet or enclosure where the MCBs is located.

. Reference temperature: 30°C in accordance with standard EN/IEC 60898-1.

In (A)	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C	70 °C
10	12	11.5	11	10.5	10	9.5	9	8.5	8
16	19.2	18.4	17.6	16.8	16	15.2	14.4	13.6	12.8
20	24	23	22	21	20	19	18	17	16

Association and coordination of a DX³ STOP ARC with a protective device located upstream:

This association allows a device's breaking capacity to be increased by combining it with another protective device placed upstream. This combination makes it possible to use a downstream device with a breaking capacity which is lower than the maximum prospective shortcircuit current at its installation point.

Association and coordination with upstream fuses:

. Three-phase network (+N) 230/400 V or 240/415 V in accordance with standard EN/IEC 60947-2

. TT neutral earthing or TNS system

						Upstream fuse						
			gG and aM types									
Downstream M	≤20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A	160 A		
DX ³ STOP ARC P+N	10 A	50 kA	50 kA	50 kA	50 kA	50 kA	25 kA	25 kA	25 kA	25 kA	25 kA	
6000A C curve	16 A	50 kA	50 kA	50 kA	50 kA	50 kA	25 kA	25 kA	25 kA	25 kA	25 kA	
	20 A	-	50 kA	50 kA	50 kA	50 kA	25 kA	25 kA	25 kA	25 kA	25 kA	

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5. GENERAL CHARACTERISTICS (continued)

Association and coordination with upstream MCBs: . Three-phase network (+N) 230/400 V or 240/415 V in accordance with standard EN/IEC 60947-2 . TT neutral earthing or TNS system

		Upstream MCB						
		DX ³ 10000/16 kA C curve Ph+N 1 module						
Downstrea	am MCB	≤20 A	≤32 A	40 A	A 50 A 63 A			
DX ³ STOP ARC	10 A	16 kA	25 kA	25 kA	25 kA	25 kA		
P+N 6000A	16 A	16 kA	25 kA	25 kA	25 kA	25 kA		
C curve	20 A	-	25 kA	25 kA	25 kA	25 kA		

		Upstream MCB								
		DX³ 10000/16 kA B, C and D curves								
Downstream M	≤25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A		
DX ³ STOP ARC P+N	10 A	32 kA	32 kA	25 kA						
6000A C curve	16 A	32 kA	32 kA	25 kA						
	20 A	32 kA	32 kA	25 kA						

		Upstream MCB								
		DX ³ 25 kA B, C and D curves								
Downstream M	≤25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A		
DX ³ STOP ARC P+N	10 A	50 kA	50 kA	25 kA						
6000A C curve	16 A	50 kA	50 kA	25 kA						
	20 A	50 kA	50 kA	25 kA						

			Upstream MCB								
		DX³ 36 kA C curve									
Downstream MC	≤25 A	32 A	40 A	50 A	63 A	80 A					
DX ³ STOP ARC P+N	10 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA				
6000A	16 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA				
C curve 20 A		50 kA	50 kA	50 kA	50 kA	50 kA	50 kA				

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5. GENERAL CHARACTERISTICS (continued)

Association and coordination with upstream MCBs:

. Three-phase network (+N) 230/400 V or 240/415 V in accordance with standard EN/IEC 60947-2

. TT neutral earthing or TNS system

						Upstre	am MCB				
				DX3 50 kA and C curve	es		DX ³ 50 kA D curve				
Downstream M	ICB	≤25 A	32 A	40 A	50 A	63 A ≤25 A 32 A 40 A 50 A 63					63 A
DX ³ STOP ARC P+N	10 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
6000A	16 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
C curve	20 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA

Association and coordination with upstream Moulded Case Circuit Breakers (MCCBs):

. Three-phase network (+N) 230/400 V or 240/415 V in accordance with standard EN/IEC 60947-2

. TT neutral earthing or TNS system

			Upstream MCCB									
			DPX3 160 16 kA 16 A 25 A 40 A 63 A 80 A 100 A 125 A 160 A									
Downstream M	СВ	16 A	16 A 25 A 40 A 63 A 80 A 100 A 125 A									
DX ³ STOP ARC P+N	10 A	22 kA	22 kA	22 kA	22 kA	22 kA	22 kA	22 kA	22 kA			
6000A	16 A	-	22 kA	22 kA	22 kA	22 kA	22 kA	22 kA	22 kA			
C curve	20 A	-	22 kA	22 kA	22 kA	22 kA	22 kA	22 kA	22 kA			

				Upstream MCCB										
			DPX³ 160 25 kA/36 kA & 50 kA											
Downstream M	СВ	16 A	16 A 25 A 40 A 63 A 80 A 100 A 125 A											
DX ³ STOP ARC P+N 6000A C curve	10 A	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA					
	16 A	-	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA					
	20 A	-	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA					

		Upstrea	m MCCB			
Downstream MC	130 A	240 A				
DX ³ STOP ARC P+N	10 A	30 kA	30 kA			
6000A	16 A	25 kA	25 kA			
C curve	20 A	25 kA	25 kA			



5. GENERAL CHARACTERISTICS (continued)

Association and coordination with upstream Moulded Case Circuit Breakers (MCCBs): . Three-phase network (+N) 230/400 V or 240/415 V in accordance with standard EN/IEC 60947-2

. TT neutral earthing or TNS system

					Upstrea	m MCCB			
) ≤ 70 kA magnetic) ≤ 70 kA ronic	
Downstream M	СВ	100 A	160 A	200 A	200 A 250 A 40 A 100 A 160 A			250 A	
DX ³ STOP ARC P+N	10 A	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA
6000A	16 A	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA
C curve	20 A	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA

		Upstream MCCB
		DPX ³ 400 AB 36 kA
Downstream MCI	В	400 A
DX ³ STOP ARC P+N	10 A	25 kA
6000A	16 A	25 kA
C curve	20 A	25 kA

					Ups	stream MCC	В					
			DP	(3 630 ≤ 10	0 kA		DPX3 630 ≤ 100 kA					
			the	ermal-magne	etic			electronic				
Downstream M	СВ	250 A	320 A	400 A	500 A	630 A	160 A 250 A 400 A 63					
	10 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA		
DX ³ STOP ARC P+N 6000A	13 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA		
C curve	16 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA		
	20 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA		



5. GENERAL CHARACTERISTICS (continued)

Association and coordination with upstream Moulded Case Circuit Breakers (MCCBs):

. Three-phase network (+N) 230/400 V or 240/415 V in accordance with standard IEC 60947-2

. TT neutral earthing or TNS system

		Upstr	ream MCCB
		DPX³ 1600 ≤ 100 kA	DPX³ 1250 ≤ 70 kA
Downstream I	ИСВ	630 A to 1,250 A	630 A to 1,600 A
DX ³ STOP ARC	10 A	25 kA	25 kA
P+N 6000A	16 A	25 kA	25 kA
C curve	20 A	25 kA	25 kA

Selectivity between two levels of protection

. The downstream MCB must always have a magnetic threshold and a rated current lower than those of the upstream protection. . Selectivity or Discrimination is said to be total (T) if there is discrimination up to the value of breaking capacity (in accordance with standard EN/IEC 60947-2) of the downstream MCB.

Discrimination with upstream fuses:

. Discrimination limit with a voltage of 230 V ~ (Values in A)

			Upstream fuse											
			gG cartridge											
Downstream	МСВ	32 A	40 A	50 A	63 A	80 A	100 A	125 A	160 A					
DX ³ STOP ARC	10 A	-	1600	2200	3200	3600	7000	т	т					
P+N 6000A	16 A	-	1400	1800	2600	3000	5600	8000	т					
C curve	20 A	- 1200 1500 2200 2500 4600 6300												

			Upstream fuse											
			aM cartridge											
Downstream MCB		25 A	25 A 32 A 40 A 50 A 63 A 80 A 100 A 125 A							160 A				
DX ³ STOP ARC	10 A	-	1100	1700	2500	5000	7800	т	т	т				
P+N 6000A	16 A	-	1000	1400	2100	4000	6000	9000	т	т				
C curve	20 A	-	-	1300	1800	3400	5100	7000	т	т				

. T = Total discrimination

5. GENERAL CHARACTERISTICS (continued)

Discrimination with upstream MCBs:

. Discrimination limit with a voltage of 230 V ~ (Values in A)

			Upstream MCB										
			DX ³ 4500/6 kA - DX ³ 6000/10 kA - DX ³ 10000/16 kA B curve										
Downstrean	n MCB	10 A 13 A 16 A 20 A 25 A 32 A 40 A 50 A 63 A 80 A							80 A	100 A	125 A		
DX ³ STOP ARC	10 A	-	-	-	80	100	128	160	200	252	3000	5000	т
P+N 6000A	16 A	-	-	-	-	-	128	160	200	252	2000	3600	5500
C curve	20 A	-	-	-	-	-	-	160	200	252	1600	3000	4000

			Upstream MCB										
			DX ³ 4500/6 kA - DX ³ 6000/10 kA - DX ³ 10000/16 kA C curve										
Downstream M	10 A	13 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A	
DX ³ STOP ARC P+N	10 A	-	98	120	150	187	240	300	375	472	3000	5000*	T*
6000A	16 A	-	-	-	150	187	240	300	375	472	2000	3600*	5500*
C curve	20 A	-	-	-	-	187	240	300	375	472	1600	3000	4000*

			Upstream MCB										
			DX ³ 4500/6 kA - DX ³ 6000/10 kA - DX ³ 10000/16 kA D curve										
Downstrean	n MCB	10 A	13 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
DX ³ STOP ARC	10 A	-	-	192	240	300	384	480	600	756	3000	5000	т
P+N 6000A	16 A	-	-	-	240	300	384	480	600	756	2000	3600	5500
C curve	20 A	-	-	-	-	300	384	480	600	756	1600	3000	4000

. T = Total discrimination

. * : If the discrimination value stated in the table is greater than the breaking capacity of the upstream circuit breaker then the breaking capacity of the upstream device must be taken as the discrimination value (the discrimination value may not exceed the breaking capacity of the upstream device).

5. GENERAL CHARACTERISTICS (continued)

Discrimination with upstream MCBs:

Discrimination limit with a voltage of 230 V ~ (Values in A)

						ι	Jpstream	МСВ				
			DX ³ 25 kA B curve									
Downstream N	ІСВ	10 A	10 A 16 A 20 A 25 A 32 A 40 A 50 A 63 A 80 A 100 A 12								125 A	
DX ³ STOP ARC	10 A	-	-	80	100	500	700	1000	1800	3000	5000	т
P+N 6000A	16 A	•	•	-	-	300	500	700	1300	2000	3600	5500
C curve	20 A	-	-	-	-	-	400	500	1000	1600	3000	4000

			Upstream MCB									
			DX ³ 25 kA C curve									
Downstream N	ЮВ	10 A	10 A 16 A 20 A 25 A 32 A 40 A 50 A 63 A 80 A 100 A 12									125 A
DX ³ STOP ARC	10 A	-	120	150	187	500	700	1000	1800	3000	5000	т
P+N 6000A	16 A	-	-	150	187	300	500	700	1300	2000	3600	5500
C curve	20 A	-	-	-	187	300	400	500	1000	1600	3000	4000

			Upstream MCB									
			DX ³ 25 kA D curve									
Downstream N	ІСВ	10 A	10 A 16 A 20 A 25 A 32 A 40 A 50 A 63 A 80 A 100 A 1								125 A	
DX ³ STOP ARC	10 A	-	192	240	300	500	700	1000	1800	3000	5000	т
P+N 6000A	16 A	-	-	240	300	384	500	700	1300	2000	3600	5500
C curve	20 A	-	-	-	300	384	480	600	1000	1600	3000	4000

. T = Total discrimination

5. GENERAL CHARACTERISTICS (continued)

Discrimination with upstream modular MCBs:

Discrimination limit with a voltage of 230 V ~ (Values in A)

			Upstream MCB								
			DX ³ 50 kA								
			B curve								
Downstream MC	10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A			
DX ³ STOP ARC P+N	10 A	-	-	150	210	500	700	1200	1800		
6000A	16 A	-	-	-	-	300	500	700	1300		
C curve	20 A	-	-	-	-	-	400	500	1000		

			Upstream MCB									
			DX ³ 50 kA C curve									
Downstream MC	в	10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A		
DX ³ STOP ARC P+N	10 A	-	120	150	210	500	700	1200	1800	3000		
6000A	16 A	-	-	150	187	300	500	700	1300	2000		
C curve	20 A	-	-	-	187	300	400	500	1000	1600		

. T = Total discrimination

Discrimination with upstream MCBs:

Discrimination limit with a voltage of 230 V ~ (Values in A)

		Upstream MCB									
			DX ³ 50 kA D curve								
Downstream MC	В	10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A		
DX ³ STOP ARC P+N	10 A	-	192	240	300	500	700	1200	1800		
6000A	16 A	-	-	240	300	384	500	700	1300		
C curve	20 A	-	-	-	300	384	480	600	1000		

Discrimination with upstream Moulded Case Circuit Breakers (MCCBs):

Discrimination limit with a voltage of 230 V ~ (Values in A)

Downstream circuit breaker	Upstream MCCB						
DX ³ STOP ARC P+N 6000A	DPX ³ all models all ratings	DMX ³ all models all ratings					
C curve	т	т					

. T = Total discrimination

6. COMPLIANCE AND APPROVALS

In accordance with standards:

- . IEC/EN 60898-1
- . IEC/EN 62606

Usage in special conditions:

. Category C in accordance with the classification defined in Appendix Q of standard IEC/EN 60947-1.

. Category C = Environment subject to temperature (-25°C to +70°C), humidity.

Respect for the environment – Compliance with European Union Directives:

. Compliance with Directive 2002/95/EC of 27/01/03 known as "RoHS" which provides for a restriction on the use of dangerous substances such as lead, mercury, cadmium, hexavalent chromium and polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) brominated flame retardants from 1st July 2006

. Compliance with the Directive 91/338/EEC of 18/06/91 and decree 94-647 of 27/07/04

Plastic materials:

. Halogen free plastic materials.

. Labelling of parts compliant with ISO 11469 and ISO 1043.

Packaging:

. Design and manufacture of packaging compliant with decree 98-638 of 20/07/98 and Directive 94/62/EC



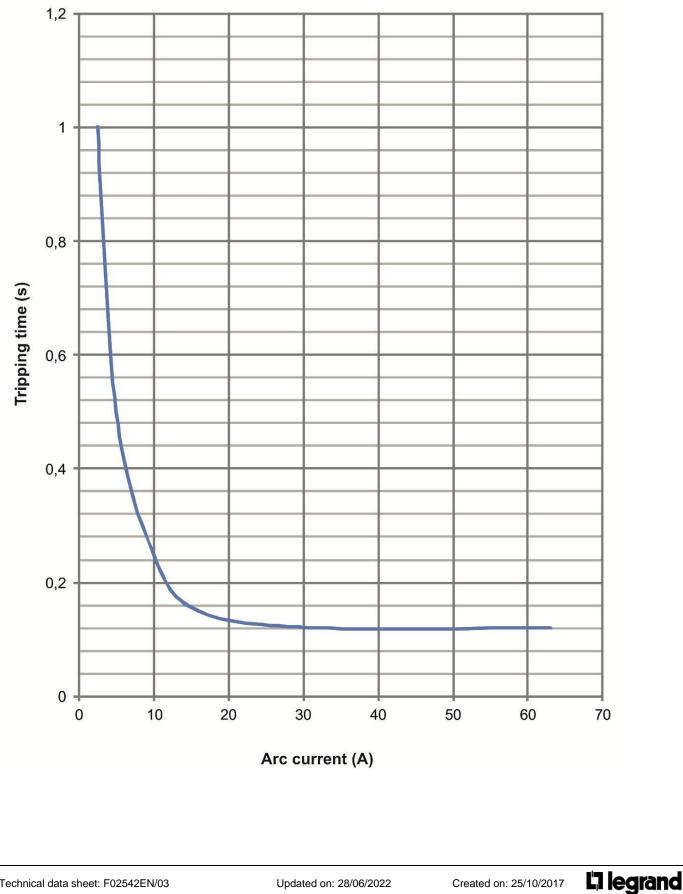
Technical data sheet: F02542EN/03

Updated on: 28/06/2022

DX³ STOP ARC 6000 A Phase + Neutral, neutral on left side

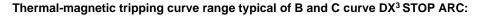
7. CURVES

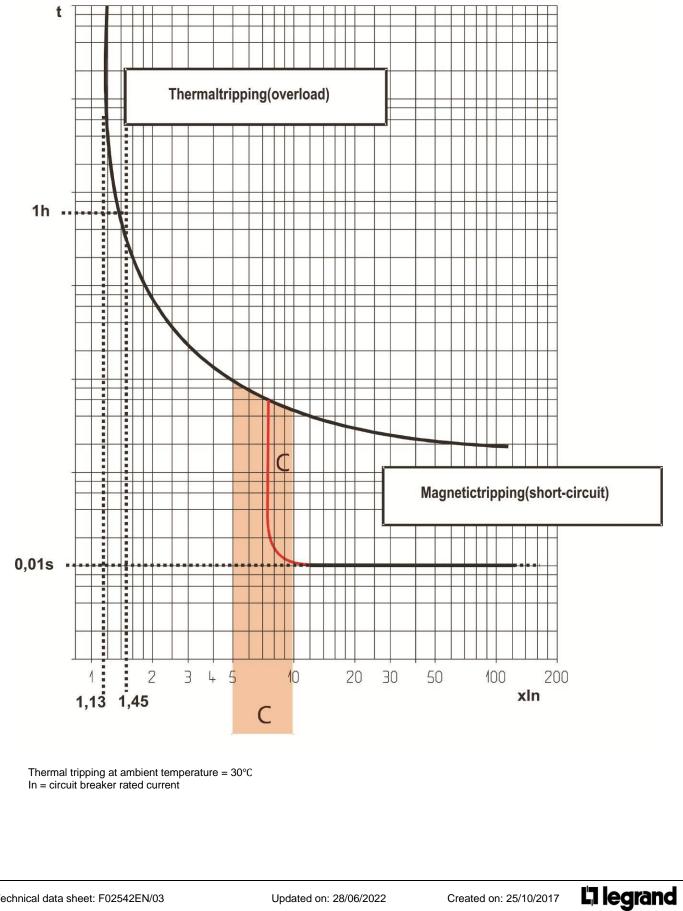
Arc tripping time curve



Cat. N°(s): 4 159 12 / 13 / 14

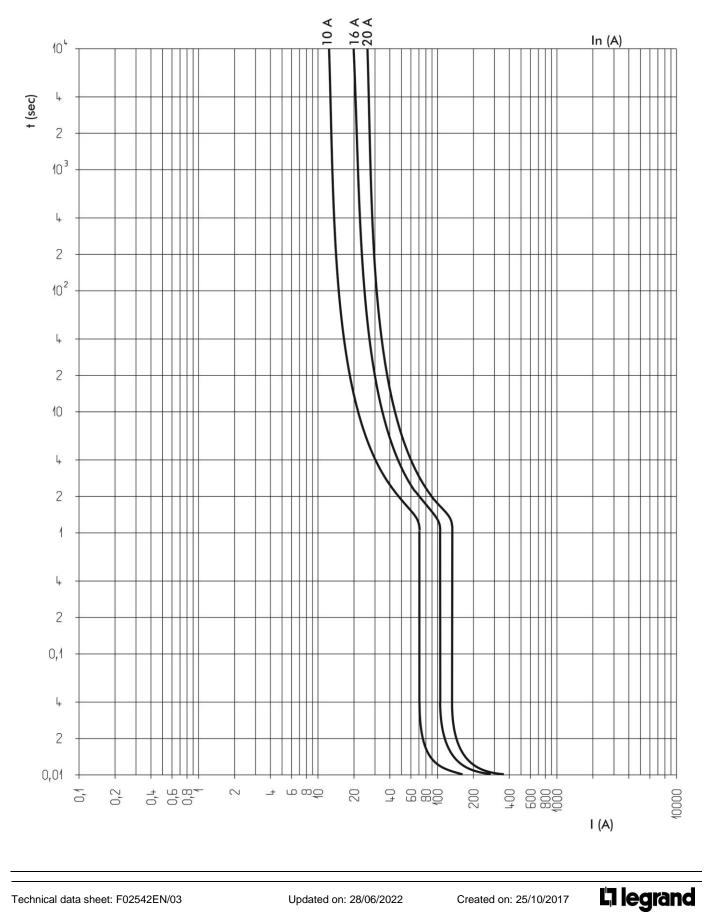
7. CURVES (continued)





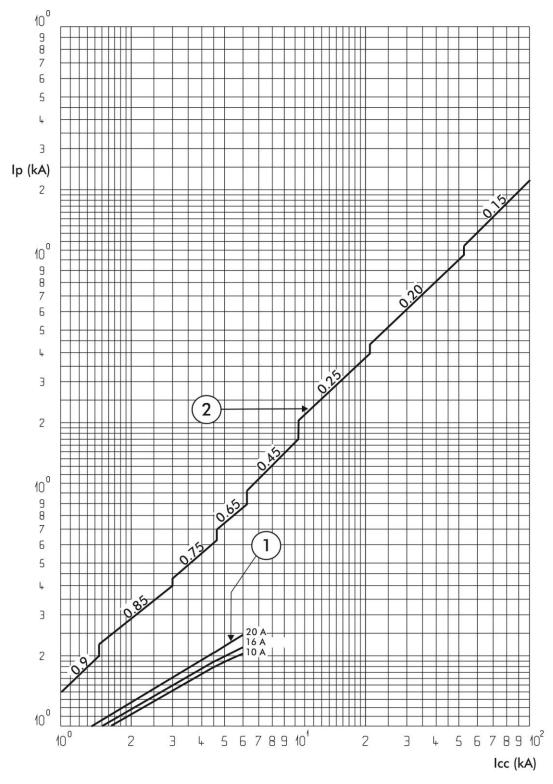
7. CURVES (continued)

Average thermal-magnetic tripping curves range typical of C curve $\mathsf{DX}^3\,\mathsf{STOP}\,\mathsf{ARC}$



7. CURVES (continued)

Current limiting curves:



Updated on: 28/06/2022

lcc = Prospective short-circuit symmetrical current (rms value in kA)

lp = Maximum peak value (in kA)

1 = Short-circuit rms currents (max. peak)

2 = Unlimited peak currents (max.), corresponding to power factors shown above (0.15 to 0.9)

Created on: 25/10/2017

Updated on: 28/06/2022

Created on: 25/10/2017

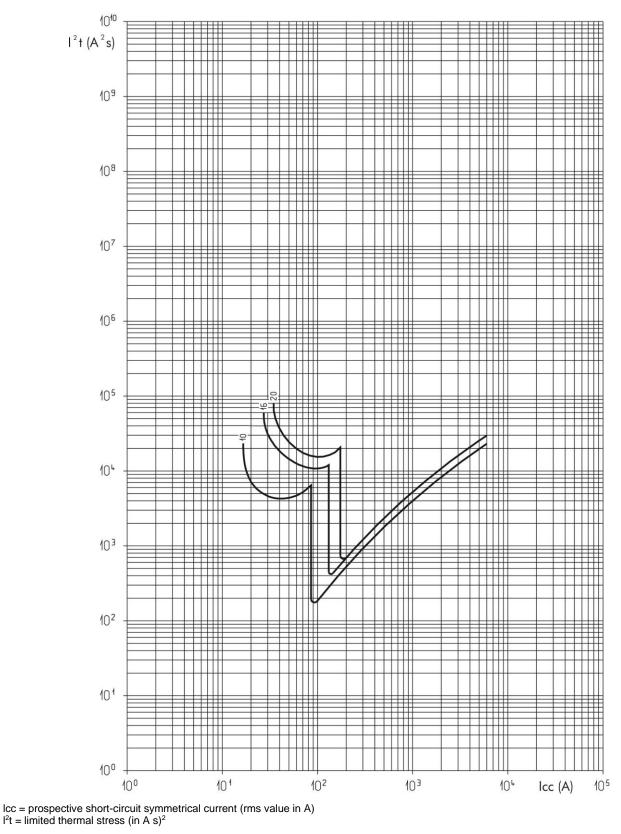
L7 legrand 18 / 19

DX³ STOP ARC 6000 A Phase + Neutral, neutral on left side

7. CURVES (continued)

Thermal stress limiting curves:

. C curve (230V/50Hz)



Cat. N°(s): 4 159 12 / 13 / 14

8. AUXILIARIES AND ACCESSORIES

Wiring accessories:

- . Supply busbar:
- HX³ single-pole universal supply busbar (Cat. No. 4 049 26 / 37)
- . Connection terminals (cat. No. 4 049 05)
- . Sealable screwcover (cat. No. 4 063 04)

Signalling auxiliaries:

- . Auxiliary contact (0.5 module, Cat. No. 4 062 58)
- . Fault signalling contact (0.5 module, Cat. No. 4 062 60)
- . Auxiliary contact that can be changed into fault signalling contact (0.5 module, Cat. No. 4 062 62)
- . Auxiliary contact + fault signalling contact that can be changed into 2 auxiliary contacts (1 module, Cat. No. 4 062 66)

Control auxiliaries:

Only possible with a signalling auxiliary positioned between the control auxiliary and the DX³ STOP ARC

- . Shunt trip (1 module, Cat. No. 4 062 76, 78)
- . Under voltage release (1 module, Cat. No. 4 062 80, 82)
- . Autonomous shunt trip release for N/C push-button (1.5 module, Cat. No. 4 062 87) . Power Overvoltage Protection (1 module, Cat. No. 4 062 86)

Possible combinations of auxiliaries and the DX³ STOP ARC:

- . The auxiliaries are installed to the left of the DX³ STOP ARC
- . Maximum number of auxiliaries = 2
- . Maximum number of 1 module signalling auxiliaries = 1

Locking options:

. Via padlock 5 mm in diameter (Cat. No. 4 063 13) or padlock 6 mm in diameter (Cat. No. 0 227 97) and padlock support (Cat. No. 4 063 03)

Installation software:

. XL PRO³

