

DX³ STOP ARC 6000 A

Phase + Neutral, neutral on right side

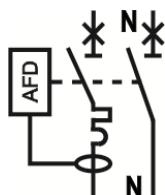
Cat. N°(s): 4 159 19 / 20 / 21 / 22 / 28 / 29 / 30 / 31 / 32



1. DESCRIPTION - USE

Arc fault detection device integrated with thermal-magnetic circuit breaker (MCB) with contact position indication for control. Reduction of the risk of fire ignition 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 Phase contact
- . The Phase pole provides protection and isolation for the Phase 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:

- . 6 / 10 / 13 / 16 / 20 A, C curve
- . 6 / 10 / 13 / 16 A, B curve

Magnetic tripping curves:

- . C curve (between 5 and 10 In)
- . B curve (between 3 and 5 In)

Rated voltage and frequency:

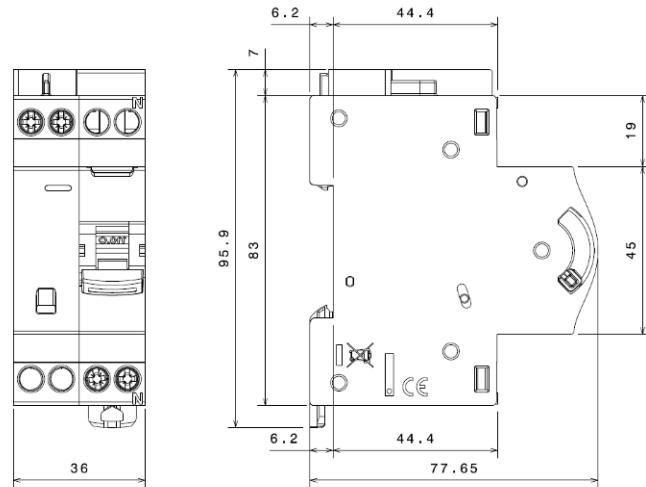
- . 230 V ~, 50 Hz with standard tolerances

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3. OVERALL DIMENSIONS



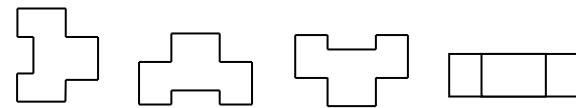
4. PREPARATION - CONNECTION

Mounting:

- . On symmetrical EN 60.715 rail or DIN 35 rail

Operating position:

- . Vertical Horizontal Upside down On the side



Power supply:

- . From the bottom

Phase + Neutral, neutral on right side

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 being 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 prong supply busbars
- . Terminal depth: 12 mm at the top and 13 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 mm² 2 x 1.5 to 6 mm ²	-
Flexible cable	1 x 1.5 to 10 mm² 2 x 1.5 to 4 mm ²	1 x 1.5 to 10 mm²

. 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:

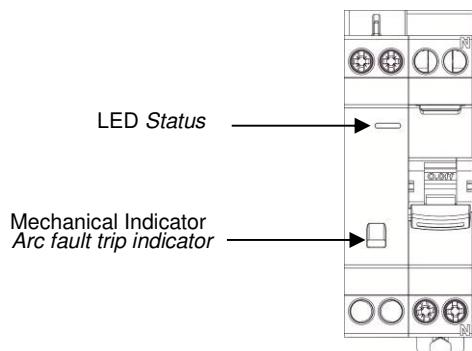
- . Ergonomic 2-positions handle
- . "I-ON": Device closed
- . "O-OFF": Device open

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. PREPARATION - 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:

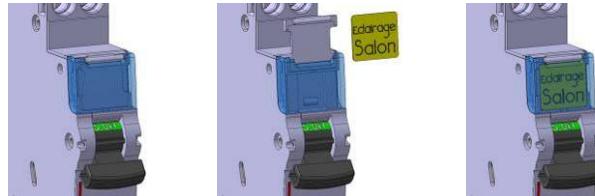
- . The DX³ STOP ARC is equipped with an auto-test function running continuously. The LED indicates if an abnormal running is detected.

Sealing:

- . Possible in the open or closed positions

Labelling:

- . Circuit identification with a label inserted in the label holder.



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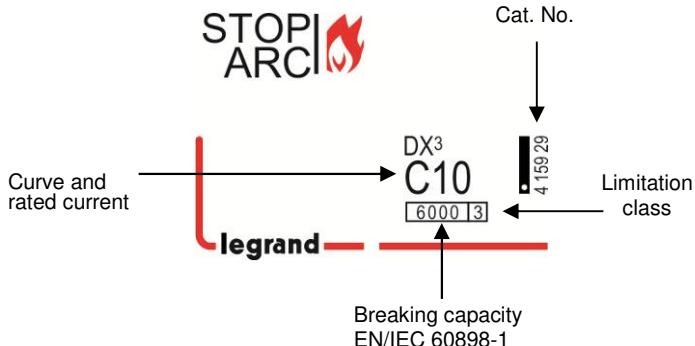
5. GENERAL CHARACTERISTICS

Neutral earthing system:

- . IT, TT, TN

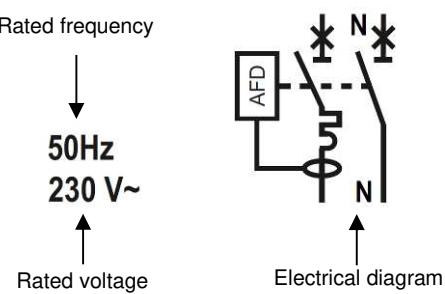
Marking on the front side:

- . By permanent ink pad printing



Marking on the upper panel:

- . By permanent ink pad printing



- . 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 EN60898-1: 4.5 kA at 230 V ~

Breaking capacity:

Standard	Breaking capacity	Voltage between poles	Breaking capacity
EN/IEC 60898-1	Ics	230 V	6 kA
	Icn		6 kA

5. GENERAL CHARACTERISTICS (continued)

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

Pollution degree:

- . 2 in accordance with standard 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 ($\ln \times \cos \varphi 0.9$)

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

Phase + Neutral, neutral on right side**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 nuisance 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 operating voltage	230 V	230 V	230 V	230 V
Derating at 30°C	none	none	none	none

Power dissipated:

. with In/Un

Rated current	6 A	10 A	13 A	16 A	20 A
Power (W) dissipated	3.1	2.4	4.6	5.8	6.6

Phase + Neutral, neutral on right side

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 MCB 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
6	7.2	6.9	6.6	6.3	6	5.7	5.4	5.1	4.8
10	12	11.5	11	10.5	10	9.5	9	8.5	8
13	15.6	14.95	14.3	13.65	13	12.35	11.7	11.05	10.4
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 short-circuit 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 MCB		≤20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A	160 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	50 kA	50 kA	50 kA	50 kA	50 kA	25 kA				
	10 A	50 kA	50 kA	50 kA	50 kA	50 kA	25 kA				
	13 A	50 kA	50 kA	50 kA	50 kA	50 kA	25 kA				
	16 A	50 kA	50 kA	50 kA	50 kA	50 kA	25 kA				
	20 A	-	50 kA	50 kA	50 kA	50 kA	25 kA				

Phase + Neutral, neutral on right side

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 10kA - DX ³ 6000/10 kA B, C and D curves					
Downstream MCB		≤20 A	≤32 A	40 A	50 A	63 A	
DX ³ STOPARC P+N 6000A C and B curves	6 A	16 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	10 A	16 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	13 A	16 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	16 A	16 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	20 A	-	25 kA				

		Upstream MCB							
		DX ³ 10000/16 kA B, C and D curves							
Downstream MCB		≤25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	32 kA	32 kA	25 kA					
	10 A	32 kA	32 kA	25 kA					
	13 A	32 kA	32 kA	25 kA					
	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 MCB		≤25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	50 kA	50 kA	25 kA					
	10 A	50 kA	50 kA	25 kA					
	13 A	50 kA	50 kA	25 kA					
	16 A	50 kA	50 kA	25 kA					
	20 A	50 kA	50 kA	25 kA					

Phase + Neutral, neutral on right side

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 36 kA C curve					
Downstream MCB		≤25 A	32 A	40 A	50 A	63 A	80 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	10 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	13 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	16 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	20 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA

		Upstream MCB									
		DX ³ 50 kA B and C curves			DX ³ 50 kA D curve						
Downstream MCB		≤25 A	32 A	40 A	50 A	63 A	≤25 A	32 A	40 A	50 A	63 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	10 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	13 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	16 A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
	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 Molded 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					
		DPX ³ 160 16 kA					
Downstream MCB		16 A	25 A	40 A	63 A	80 A	100 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	22 kA	22 kA	22 kA	22 kA	22 kA	22 kA
	10 A	22 kA	22 kA	22 kA	22 kA	22 kA	22 kA
	13 A	22 kA	22 kA	22 kA	22 kA	22 kA	22 kA
	16 A	-	22 kA				
	20 A	-	22 kA				

Phase + Neutral, neutral on right side

5. GENERAL CHARACTERISTICS (continued)

Association and coordination with upstream Molded 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							
		DPX ³ 160 25 kA/36 kA & 50 kA							
Downstream MCB		16 A	25 A	40 A	63 A	80 A	100 A	125 A	160 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA
	10 A	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA
	13 A	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA
	16 A	-	30 kA						
	20 A	-	30 kA						

		Upstream MCCB							
		DPX ³ 250 ≤ 70 kA thermal-magnetic				DPX ³ 250 ≤ 70 kA electronic			
Downstream MCB		100 A	160 A	200 A	250 A	40 A	100 A	160 A	250 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA
	10 A	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA
	13 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	30 kA
	20 A	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA	30 kA

		Upstream MCCB								
		DPX ³ 630 ≤ 100 kA thermal-magnetic					DPX ³ 630 ≤ 100 kA electronic			
Downstream MCB		250 A	320 A	400 A	500 A	630 A	160 A	250 A	400 A	630 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	10 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	13 A	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA	25 kA
	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

Phase + Neutral, neutral on right side

5. GENERAL CHARACTERISTICS (continued)

Association and coordination with upstream Molded 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

		Upstream MCCB	
		DPX ³ 1600 ≤ 100 kA	DPX ³ 1250 ≤ 70 kA
Downstream MCB		630 A to 1,250 A	630 A to 1,600 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	25 kA	25 kA
	10 A	25 kA	25 kA
	13 A	25 kA	25 kA
	16 A	25 kA	25 kA
	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 MCB		32 A	40 A	50 A	63 A	80 A	100 A	125 A	160 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	1300	1900	2500	4000	4600	T	T	T
	10 A	-	1600	2200	3200	3600	7000	T	T
	13 A	-	1400	1800	2600	3000	5600	8000	T
	16 A	-	1400	1800	2600	3000	5600	8000	T
	20 A	-	1200	1500	2200	2500	4600	6300	10000

		Upstream fuse								
		aM cartridge								
Downstream MCB		25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A	160 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	1000	1600	2100	3200	6200	T	T	T	T
	10 A	-	1100	1700	2500	5000	7800	T	T	T
	13 A	-	1000	1400	2100	4000	6000	9000	T	T
	16 A	-	1000	1400	2100	4000	6000	9000	T	T
	20 A	-	-	1300	1800	3400	5100	7000	T	T

. T = Total discrimination

Phase + Neutral, neutral on right side

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											
Downstream 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 STOPARC P+N 6000A C and B curves	6 A	-	52	64	80	100	128	160	200	252	4000	T	T
	10 A	-	-	-	80	100	128	160	200	252	3000	5000	T
	13 A	-	-	-	-	100	128	160	200	252	2500	4000	T
	16 A	-	-	-	-	-	128	160	200	252	2000	3600	5500
	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 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 STOPARC P+N 6000A C and B curves	6 A	75	98	120	150	187	240	300	375	472	4000*	T*	T*
	10 A	-	98	120	150	187	240	300	375	472	3000	5000*	T*
	13 A	-	-	120	150	187	240	300	375	472	2500	4000*	6000*
	16 A	-	-	-	150	187	240	300	375	472	2000	3600*	5500*
	20 A	-	-	-	-	187	240	300	375	472	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).

Phase + Neutral, neutral on right side

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 D curve											
Downstream 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 STOPARC P+N 6000A C and B curves	6 A	120	156	192	240	300	384	480	600	756	4000	T	T
	10 A	-	-	192	240	300	384	480	600	756	3000	5000	T
	13 A	-	-	-	240	300	384	480	600	756	2500	4000	6000
	16 A	-	-	-	240	300	384	480	600	756	2000	3600	5500
	20 A	-	-	-	-	300	384	480	600	756	1600	3000	4000

		Upstream MCB										
		DX ³ 25 kA B curve										
Downstream MCB		10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	-	64	80	100	700	1200	1500	3000	4000	T	T
	10 A	-	-	80	100	500	700	1000	1800	3000	5000	T
	13 A	-	-	-	100	400	600	1200	1500	2500	4000	6000
	16 A	-	-	-	-	300	500	700	1300	2000	3600	5500
	20 A	-	-	-	-	-	400	500	1000	1600	3000	4000

		Upstream MCB										
		DX ³ 25 kA C curve										
Downstream MCB		10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	75	120	150	187	700	1200	1500	3000	4000	T	T
	10 A	-	120	150	187	500	700	1000	1800	3000	5000	T
	13 A	-	120	150	187	400	600	1200	1500	250	4000	6000
	16 A	-	-	150	187	300	500	700	1300	2000	3600	5500
	20 A	-	-	-	187	300	400	500	1000	1600	3000	4000

. T = Total discrimination

Phase + Neutral, neutral on right side

5. GENERAL CHARACTERISTICS (continued)

Discrimination with upstream modular MCBs:

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

Downstream MCB		Upstream MCB										
		DX ³ 25 kA D curve										
DX ³ STOPARC P+N 6000A C and B curves	6 A	120	192	240	500	700	1200	1500	3000	4000	T	T
	10 A	-	192	240	300	500	700	1000	1800	3000	5000	T
	13 A	-	-	240	300	400	600	1200	1500	2500	4000	6000
	16 A	-	-	240	300	384	500	700	1300	2000	3600	5500
	20 A	-	-	-	300	384	480	600	1000	1600	3000	4000

Downstream MCB		Upstream MCB									
		DX ³ 50 kA B curve									
DX ³ STOPARC P+N 6000A C and B curves	6 A	-	64	170	500	700	1200	1500	3000		
	10 A	-	-	150	210	500	700	1200	1800		
	13 A	-	-	-	200	400	600	1000	1500		
	16 A	-	-	-	-	300	500	700	1300		
	20 A	-	-	-	-	-	400	500	1000		

Downstream MCB		Upstream MCB									
		DX ³ 50 kA C curve									
DX ³ STOPARC P+N 6000A C and B curves	6 A	75	120	170	500	700	1200	1500	3000	4000	
	10 A	-	120	150	210	500	700	1200	1800	3000	
	13 A	-	120	150	200	400	600	1000	1500	2500	
	16 A	-	-	150	187	300	500	700	1300	2000	
	20 A	-	-	-	187	300	400	500	1000	1600	

. T = Total discrimination

Phase + Neutral, neutral on right side

Discrimination with upstream MCBs:

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

		Upstream MCB							
		DX ³ 50 kA D curve							
Downstream MCB		10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A
DX ³ STOPARC P+N 6000A C and B curves	6 A	120	192	240	500	700	1200	1500	3000
	10 A	-	192	240	300	500	700	1200	1800
	13 A	-	192	240	300	400	600	1000	1500
	16 A	-	-	240	300	384	500	700	1300
	20 A	-	-	-	300	384	480	600	1000

Discrimination with upstream Molded Case Circuit Breakers (MCCBs):

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

Downstream circuit breaker	Upstream MCCB	
DX ³ STOPARC P+N 6000A C and B curves	DPX ³ all models all ratings	DMX ³ all models all ratings
	T	T

. 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:

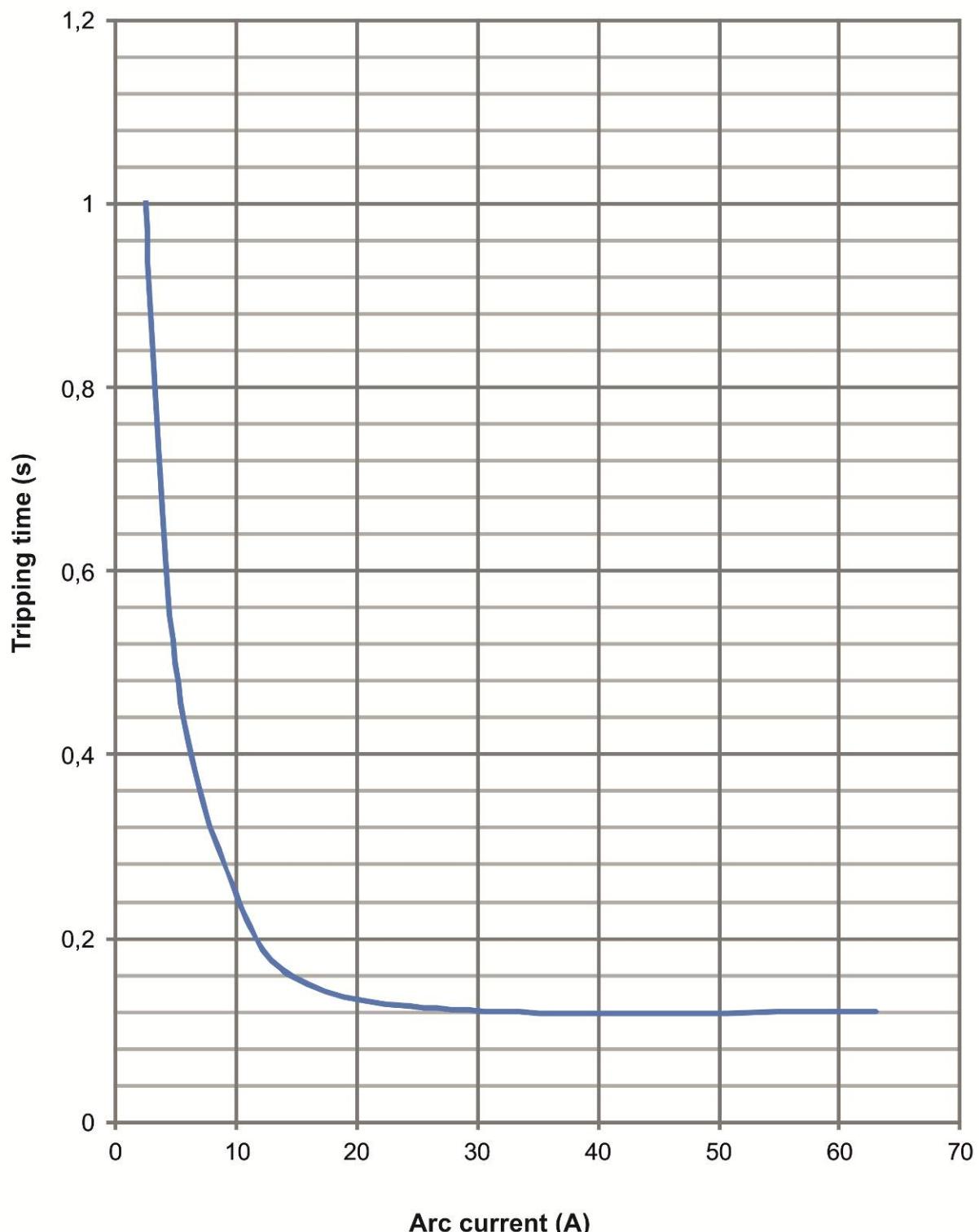
- . Compliance with Directive 2002/95/EC of 27/01/03 known as "RoHS" which provides for a restriction on the use of dangerous substances such as lead, mercury, cadmium, hexavalent chromium and polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) brominated flame retardants from 1st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

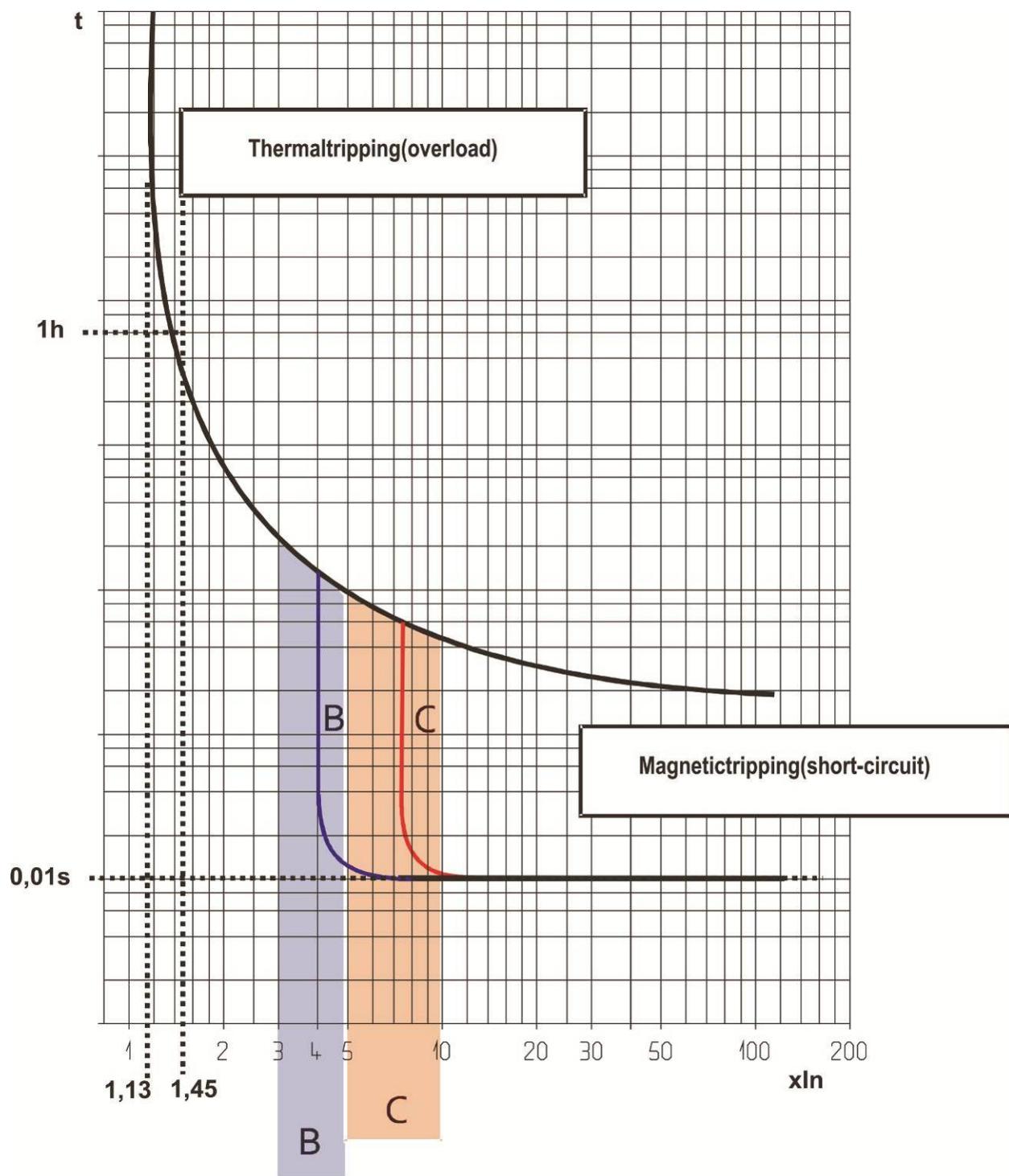
- . Design and manufacture of packaging compliant with decree 98-638 of 20/07/98 and Directive 94/62/EC

Phase + Neutral, neutral on right side**7. CURVES****Arc tripping time curve**

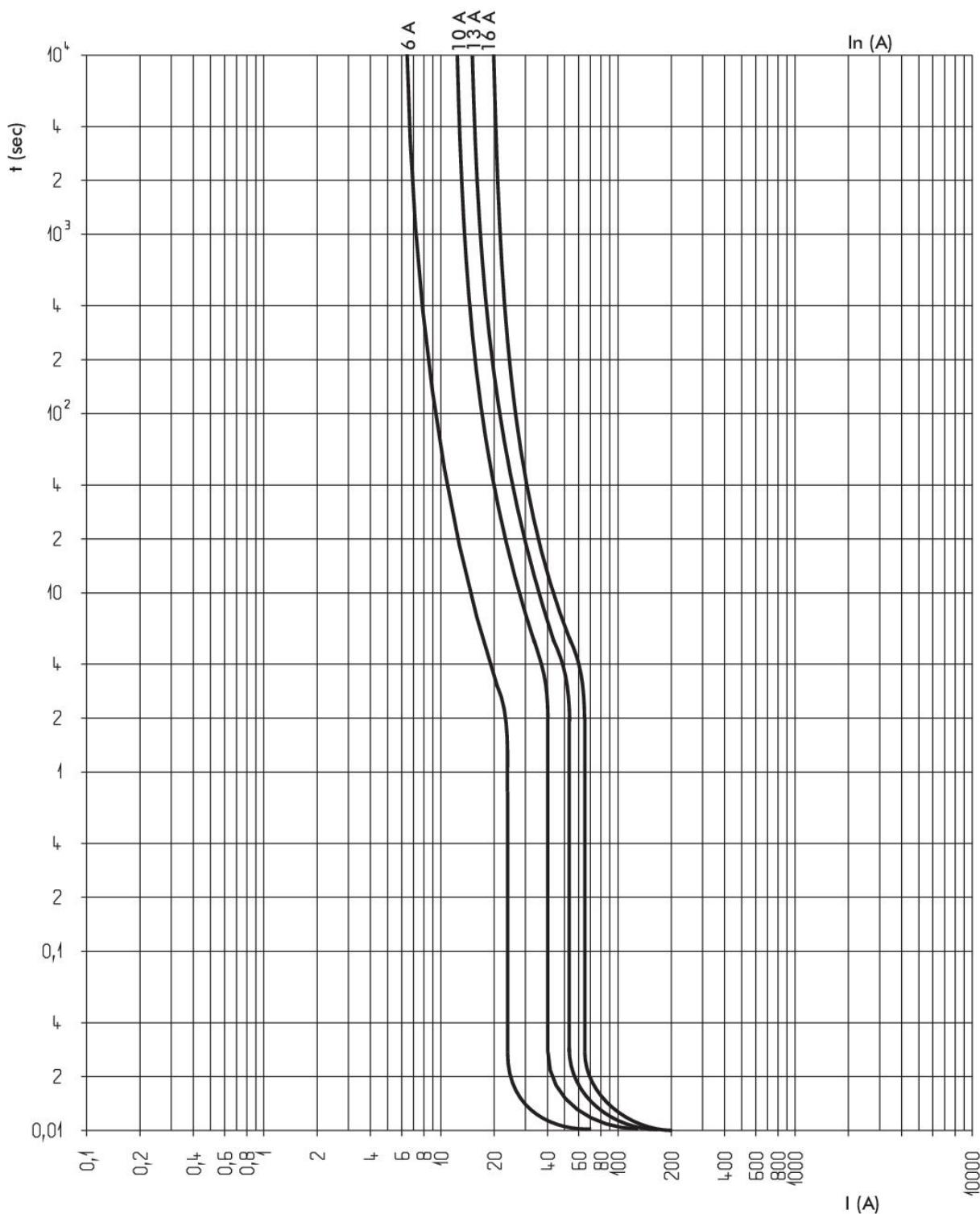
Phase + Neutral, neutral on right side

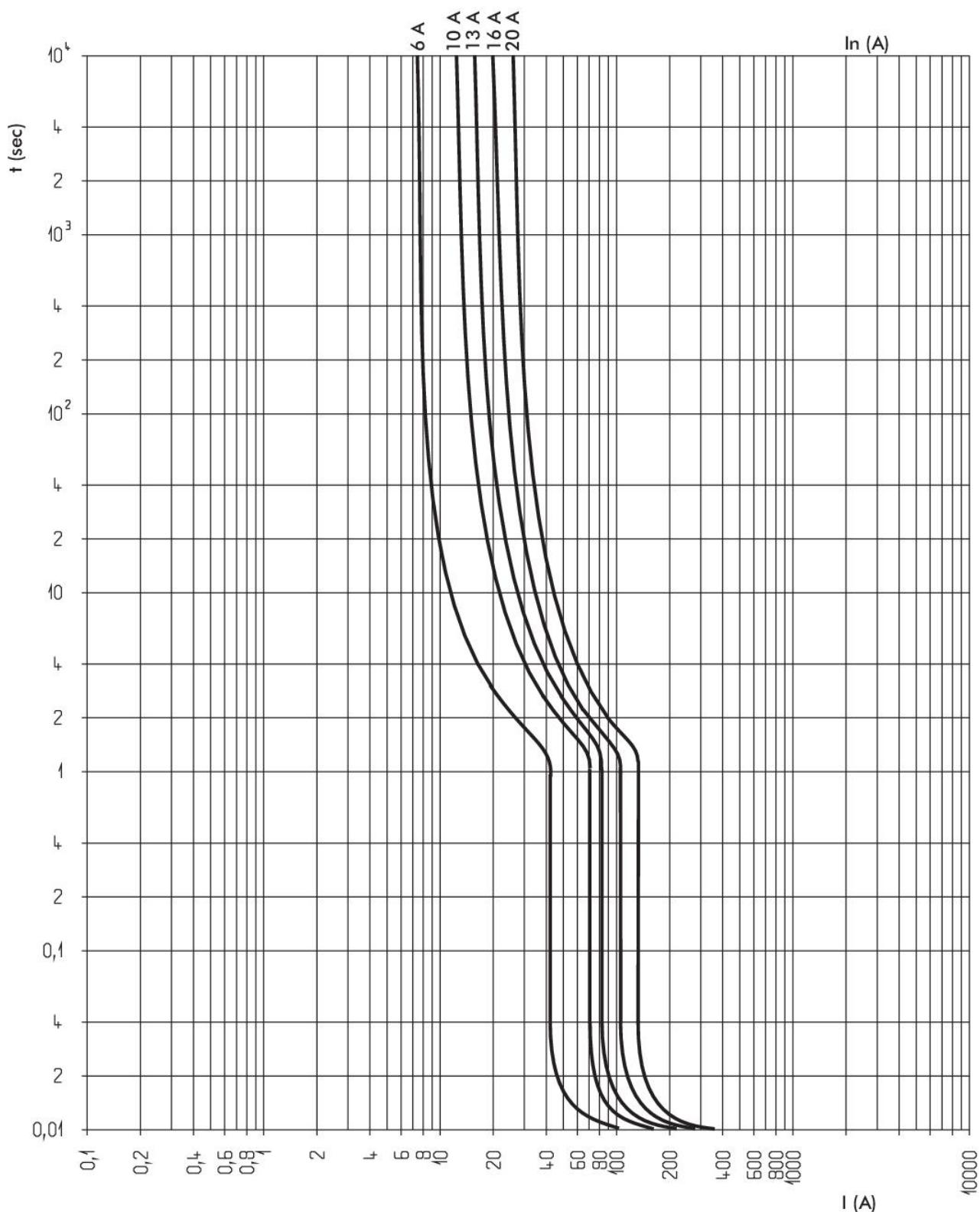
7. CURVES (continued)

Thermal-magnetic tripping curve range typical of B and C curve DX³ STOP ARC:



Thermal tripping at ambient temperature = 30°C
 I_n = DX³ STOP ARC rated current

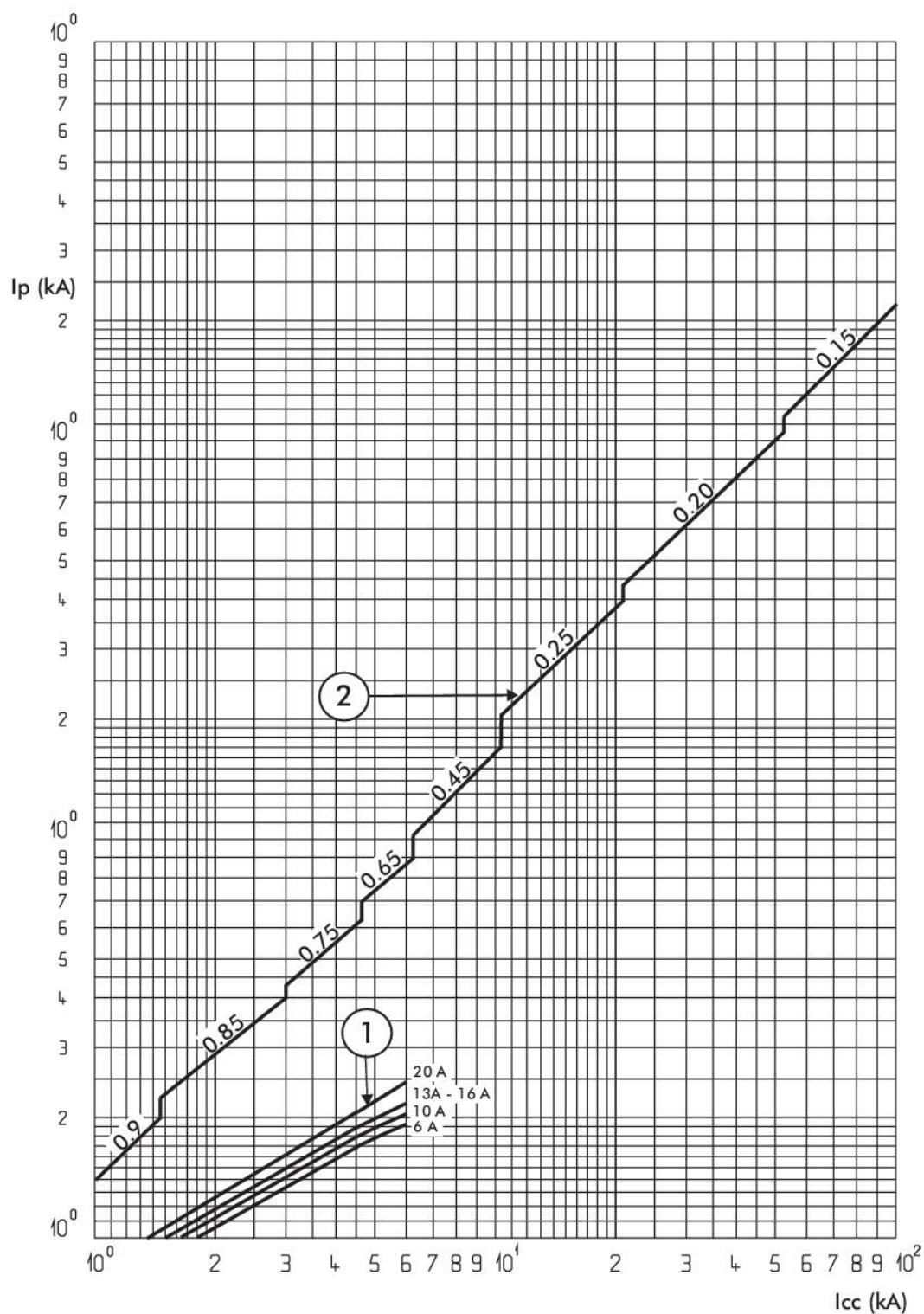
Phase + Neutral, neutral on right side**7. CURVES (continued)****Average thermal-magnetic tripping curves range typical of B curve DX³ STOP ARC:**

Phase + Neutral, neutral on right side**7. CURVES (continued)****Average thermal-magnetic tripping curves range typical of C curve DX³ STOP ARC**

Phase + Neutral, neutral on right side

7. CURVES (continued)

Current limiting curves:

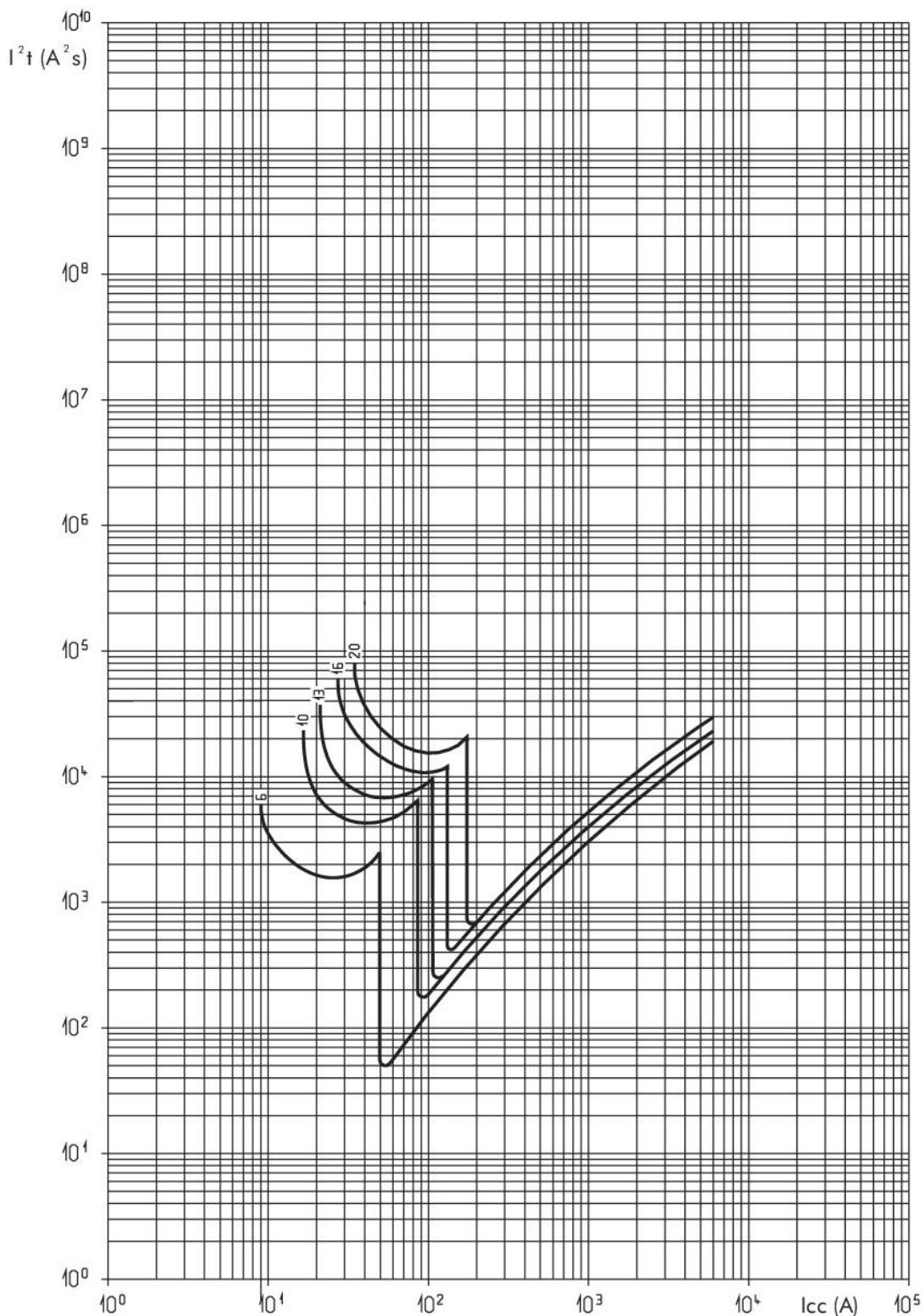


Icc = Prospective short-circuit symmetrical current (rms value in kA)

Ip = 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)

Phase + Neutral, neutral on right side**7. CURVES (continued)****Thermal stress limiting curves:**

I_{cc} = prospective short-circuit symmetrical current (rms value in A)

I^2t = limited thermal stress (in $A \cdot s$)²

Phase + Neutral, neutral on right side**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 50)
- . Fault signalling contact (0.5 module, Cat. No. 4 062 52)
- . Auxiliary contact that can be changed into fault signalling contact (0.5 module, Cat. No. 4 062 56)
- . Auxiliary contact + fault signalling contact that can be changed into 2 auxiliary contacts (1 module, Cat. No. 4 062 64)

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