87045 LIMOGES Cedex
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DX³ RCBO
6000 / 10kA up to 63 A (2P / 4P)

Cat N°(s): 411 149 to 164, 171 to 178, 190 to 192, 209 to 211



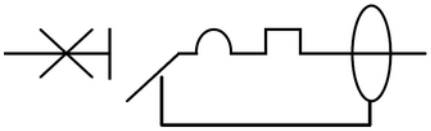
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1. DESCRIPTION - USE

Residual current operated circuit breaker with integral overcurrent protection (residual current breaking overload RCBO).
For control, disconnection and protection of electrical circuits against overcurrent and insulation faults.
For protection of people against direct and indirect electric shocks.

Symbol:



Technology:
. Current limiting device.
. Electromagnetic residual current operating by sensitive relay

2. RANGE

Number of poles:
. 2 poles, 4 poles.

Width:
. Double pole – 4 modules (4 x 17.8 mm = 71.2 mm).
. Four pole – 7 modules (7 x 17.8 mm = 124.6 mm).

Rated currents:
. Double pole – 10 / 16 / 20 / 25 / 32 / 40 / 50 / 63 A.
. Four pole – 40 / 50 / 63 A.

Tripping characteristics and magnetic tripping calibrations:
. Curve C (between 5 and 10 In)

Thermal threshold:
according to IEC/EN 61009-1
. Non operating current (Inf): 1.13 In.
. Operating current (If): 1.45 In.
according to IEC/EN 60947-2
. Non operating current (Inf): 1.05 In.
. Operating current (If): 1.3 In.

Sensitivity - Operating time:
. 10 mA instantaneous
. 30 mA instantaneous.
. 300 mA instantaneous.

1. DESCRIPTION – USE *(continued)*

Type :
. AC (sinusoidal AC fault currents).

Rated Voltage / Frequency:
.Double pole 230 V ~, 50 Hz with standard tolerances.
.Four pole 400 V ~, 50 Hz with standard tolerances.

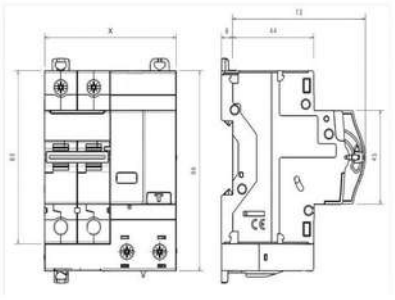
Operating voltage~ 50 Hz with standard tolerances :

U	Double pole	Four pole
U mini	**170 V ~**	**250 V ~**
U maxi	**253 V ~**	**440 V ~**

Breaking capacity:
. 6000 A according toIEC /EN 61009-1
. 10 kA according to IEC/EN 60947-2

Residual breaking capacity IΔm:
. In accordance with standard IEC/EN 61009-1
(IΔm: short-circuit to ground) IΔm = 6000A

3. OVERALL DIMENSIONS



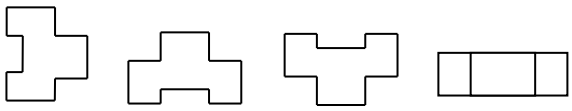
N° of poles	"X"
2P	**71.2 mm**
4P	**124.6 mm**

4. PREPARATION - CONNECTION

Fixing:
. On symmetric rail IEC/EN 60715 or DIN 35.

Supply:
. From the top through the m.c.b. associated or from the bottom directly on the differential block.

Operating position:
. Vertical, Horizontal, backwards, on the side



Screw terminals:
. Terminals protected against accidental contact (IP20).
. Cage terminals, with release and captive screw
. Terminal depth: 14 mm.
. Stripping length recommended: 11 mm
. Screw head: Mixed, Slotted and Pozidriv n°2.
. Recommended tightening torque: 3 Nm.
. The screw terminals are separated by built-in shields.

Connectable section:
. In the power terminals in the lower part of the product.
. Copper cable.

	Without ferrule	With ferrule
Rigid cable	**1 x 35 mm²**	**-**
Flexible cable	**1 x 25 mm²**	**1 x 25 mm²**

Recommended tools:
. For the terminals: screwdriver Pozidriv n°2 or flat screwdriver 5,5 mm (6,5 mm maximum).
. For fixing on the DIN rail: flat screwdriver 5 mm (from 4 to5 mm).

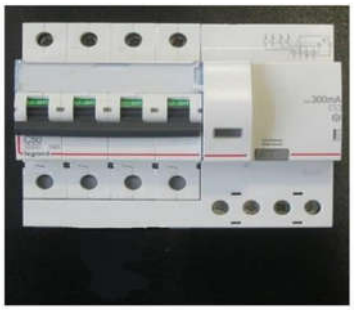
Manual actuation of the circuit-breaker:
. By the 2-position ergonomic handle of the associated m.c.b.:
I / ON: Closed circuit.
0 / OFF: Opened circuit.

Display of contact status:
. By marking of the associated m.c.b. handle:
"O-Off" in white on a green background = contacts opened.
"I-On" in white on a red background = contacts closed.

4. PREPARATION – CONNECTION *(continued)*

Display of differential fault trip:
. Yellow mechanical signaller into the window on front-side marking zone.

Sealing:
. Possible in "Open" position (OFF) or "Close" position (ON).
. The screw cover sealed, locks the access of downstream screws of the braker.



Lockout:
. By 5 mm padlock (cat. N° 406313) or 6 mm padlock (cat. N° 227 97) with padlock support (cat. N° 044 42)

Labelling:
. Identification of the circuit by insertion of a label in the label holder.

5. GENERAL CHARACTERISTICS

Front side marking:
. By permanent ink pad printing and laser marking.



Short-circuit breaking capacity:
. single-phase or three-phase network (50/60 Hz AC)
According to IEC/EN 61009-1
according to IEC/EN 61009-1
.Icn=Ics 6000A
according to IEC /EN 60947-2
.Icn 10kA
.Ics = 75% Icn

5. GENERAL CHARACTERISTICS *(continued)*

Breaking capacity of a single pole:

. In three-phase network 220 / 380 V~ to 240 / 415 V~
- for TN neutral system, Icn1 = 10 kA (under 220 to 240 V~)
- for IT neutral system, Iit = 3 kA (under 380 to 415 V~)

. In three-phase network 110 / 220 V~ to 120 / 240 V~
- for TN neutral system, Icn1 = 25 kA (under 110 to 127 V~)
- for IT neutral system, Iit = 6 kA (under 220 to 240 V~)

Residual breaking capacity IΔm:

. According to IEC/EN 61009-1 (IΔm: short-circuit to ground)
IΔm = 6 kA (60% of Icu of the associated m.c.b.)

"Test" key operating voltages:

U test	Duble pole	Four pole
U mini	**170 V ~**	**250 V ~**
U maxi	**253 V ~**	**440 V ~**

For the wiring of a four-pole differential block in a three phase network without neutral, make sure to properly wired three consecutive poles to supply the test key (connected on the two central poles).

Neutral system:

. IT – TT – TN.

Insulation rated voltage:

. Ui = 500 V according to IEC/EN 61009-1

Pollution degree:

. 2.

Dielectric strength:

. 2500 V

Pulse rated voltage:

. Uimp = 4 kV (wave 1.2 / 50 µs).

Mechanical endurance:

. 20000 operations without load.
. 10000 operations with load.
. 750 differential tripping operations by the Test key.
. 750 differential tripping operations for fault current.

Specific use:

. Appropriate to be used in humid environment and polluted by chlorine (pool-type)

Load to close and to open a RCBO by the handle:

. 0,5 Nm per pole to close.
. 0,3 Nm per pole to open.

5. GENERAL CHARACTERISTICS *(continued)*

Protection against unwanted tripping:

. Damped recurrent wave – 0.5 µs/10kHz : 200A for all types
. Held to the wave 8/20 µs: 250A

Resistance to sinusoidal vibrations:

. According to IEC 60068-2-6.
. Axis : x, y, z.
. Frequency range: 5÷100 Hz ; duration 90 minutes
. Displacement (5÷13,2 Hz) : 1mm
. Acceleration (13,2÷100 Hz) : 0,7g (g=9,81 m/s²)

Ambient operating temperature:

. Min. = -25°C. Max. = +70°C

Ambient storage temperature:

. Min. = -40°C. Max. = +70°C

Protection class:

. Protection index of terminals against solid and liquid bodies:
IP 20 (according to , IEC/EN 60529 et NF C 20-010).
. Protection index of the box against solid and liquid bodies:
IP 40 (according to , IEC/EN 60529 et NF C 20-010).
. Class II compared to conductive parts.
. Protection index against mechanical shocks:
IK 02 (according to EN 50102 et NF C 20-015).

Power dissipated and impedance average per pole at In:

	Double pole		Four pole	
In	Z (mΩ)	P (W)	Z (mΩ)	P (W)
10 A	**19**	**1,9**	–	–
16 A	**8.8**	**2.26**	–	–
20 A	**6.5**	**2.61**	–	–
25 A	**5.3**	**3.34**	–	–
32 A	**4.2**	**4.26**	–	–
40 A	**3.5**	**5.64**	**3.5**	**5.64**
50 A	**2.2**	**5.57**	**2.2**	**5.57**
63 A	**1.8**	**7.2**	**1.8**	**7.2**

Enclosure material:

.Polyester
.Polycarbonate.
.Characteristics of this material: self extinguishing, heat and fire resistant in accordance with standard EN IEC/61009-1, glow-wire test at 960°C for external parts made of insulating material necessary to retain in position current-carrying parts and parts of protective circuit (650°C for all other external parts made of insulating material).

Calorific value :

	Double pole	Four pole
MJ	**6.12**	**10.75**

Packed volume:

. Double pole: 0,9 dm³ per device.
. Four pole: 1,5 dm³ per device.

5. GENERAL CHARACTERISTICS *(continued)*

Average weight per device:

. Double pole:0,5 kg
. Four pole: 1 kg

Influence of the altitude :

	2000 m	3000 m	4000 m	5000 m
Dielectric strength	**3000 V**	**2500 V**	**2000 V**	**1500 V**
Max operating voltage	**400 V**	**400 V**	**400 V**	**400 V**
Derating at 30°C	**none**	**none**	**none**	**none**

Derating of circuit-breakers depending on the ambient temperature :

. Rated characteristics of a circuit breaker are modified depending on the ambient temperature which prevails inside the cabinet or the enclosure where the circuit breaker is located.

. Reference temperature: 30°C according to IEC/EN 60898-1

	Ambient temperature / In									
In (A)	- 25°C	- 10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C
10	**12.5**	**11.5**	**11.1**	**10.7**	**10.3**	**10.0**	**9.7**	**9.3**	**9.0**	**8.7**
13	**16.3**	**15.0**	**14.3**	**13.9**	**13.4**	**13.0**	**12.6**	**12.1**	**11.7**	**11.3**
16	**20.0**	**18.7**	**18.0**	**17.3**	**16.6**	**16.0**	**15.4**	**14.7**	**14.1**	**13.5**
20	**25.0**	**23.2**	**22.4**	**21.6**	**20.8**	**20.0**	**19.2**	**18.4**	**17.6**	**16.8**
25	**31.5**	**29.5**	**28.3**	**27.2**	**26.0**	**25.0**	**24.0**	**22.7**	**21.7**	**20.7**
30	**38.3**	**36.0**	**34.5**	**33.0**	**31.5**	**30.0**	**28.8**	**27.3**	**26.1**	**24.9**
32	**41.0**	**37.8**	**36.5**	**34.9**	**33.3**	**32.0**	**30.7**	**29.1**	**27.8**	**26.5**
40	**51.0**	**48.0**	**46.0**	**44.0**	**42.0**	**40.0**	**38.0**	**36.0**	**34.0**	**32.0**
50	**64.0**	**60.0**	**57.5**	**55.0**	**52.5**	**50.0**	**47.5**	**45.0**	**42.5**	**40.0**
63	**80.6**	**75.6**	**72.5**	**69.9**	**66.1**	**63.0**	**59.8**	**56.1**	**52.9**	**49.7**

Derating of RCBOs function of the number of devices side by side:

When several RCBOs are juxtaposed and operate simultaneously, the heat dissipation of the poles is limited. This results in an increase in operating temperature of the circuit breakers which can cause unwanted tripping. It is recommended to apply the following coefficients to the rated currents.

Number of circuit breakers side by side	Coefficient
2 - 3	**0.9**
4 – 5	**0.8**
6 - 9	**0.7**
≥ 10	**0.6**

These values are given by the recommendation of IEC/EN 60439-1 and NF C 63421 standards.
To avoid to have to use these coefficients, it is necessary to allow a good ventilation and to keep the devices apart with 0.5 module spacing elements (cat. N° 406 307).

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and fuses, three-phase network (+ neutral) 400 / 415 V~ according to IEC/EN 60947-2:

For TT or TN neutral system in 230/400 V network, to know the breaking capacity of the combination of a double pole breaker (connected between phase and neutral under 230V) downstream of a triple-pole circuit-breaker, take the values shown in tables 230/240V.

		Fuse upstream									
		gG Type									
r.c.b.o. downstream		≤20A	25A	32A	40A	50A	63A	80A	100A	125A	160A
DX³ 6000/10kA Curve C	10A	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	16A	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	20A	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	25A	-	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	32A	-	-	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	40A	-	-	-	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	50A	-	-	-	-	-	-	**100kA**	**100kA**	**100kA**	**40kA**
	63A	-	-	-	-	-	-	**100kA**	**100kA**	**100kA**	**40kA**

		Fuse upstream									
		aM Type									
r.c.b.o. downstream		≤20A	25A	32A	40A	50A	63A	80A	100A	125A	160A
DX³ 6000/10kA Curve C	10A	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	16A	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	20A	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	25A	-	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	32A	-	-	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	40A	-	-	-	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	50A	-	-	-	-	-	-	**100kA**	**100kA**	**100kA**	**40kA**
	63A	-	-	-	-	-	-	**100kA**	**100kA**	**100kA**	**40kA**

Depending on the size of the r.c.b.o. downstream, pay attention threshold and the rating of the upstream fuse must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and MCBs, three-phase network (+ neutral) 400 / 415 V~ according to IEC/EN 60947-2:

For TT or TN neutral system in 230/400 V network, to know the breaking capacity of the combination of a double pole breaker (connected between phase and neutral under 230V) downstream of a triple-pole circuit-breaker, take the values shown in tables 230/2400V.

		m.c.b. upstream							
		DX³ 10000/16kA							
		Curves B, C							
r.c.b.o. downstream		≤25A	32A	40A	50A	63A	80A	100A	125A
DX³ 6000/10kA Curve C	10A	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	16A	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	20A	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	25A	-	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	32A	-	-	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	40A	-	-	-	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	50A	-	-	-	-	**16kA**	**16kA**	**16kA**	**16kA**
	63A	-	-	-	-	-	**16kA**	**16kA**	**16kA**

		m.c.b. upstream							
		DX³ 10000/16kA							
		Curve D							
r.c.b.o. downstream		≤25A	32A	40A	50A	63A	80A	100A	125A
DX³ 6000/10kA Curve C	10A	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	16A	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	20A	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	25A	-	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	32A	-	-	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	40A	-	-	-	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	50A	-	-	-	-	**16kA**	**16kA**	**16kA**	**16kA**
	63A	-	-	-	-	-	**16kA**	**16kA**	**16kA**

Depending on the size of the r.c.b.o. downstream, pay attention to the magnetic threshold and the rating of the upstream must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and MCBs, three-phase network (+ neutral) 400 / 415 V~ according to IEC/EN 60947-2:

For TT or TN neutral system in 230/400 V network, to know the breaking capacity of the combination of a double pole breaker (connected between phase and neutral under 230V) downstream of a triple-pole circuit-breaker, take the values shown in tables 230/240V.

		m.c.b. upstream							
		DX³ 25kA							
		Curves B, C							
r.c.b.o. downstream		≤25A	32A	40A	50A	63A	80A	100A	125A
DX³ 6000/10kA Curve C	10A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	16A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	20A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	25A	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	32A	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	40A	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	50A	-	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**
	63A	-	-	-	-	-	**25kA**	**25kA**	**25kA**

		m.c.b. upstream							
		DX³ 25kA							
		Curve D							
r.c.b.o. downstream		≤25A	32A	40A	50A	63A	80A	100A	125A
DX³ 6000/10kA Curve C	10A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	16A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	20A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	25A	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	32A	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	40A	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	50A	-	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**
	63A	-	-	-	-	-	**25kA**	**25kA**	**25kA**

Depending on the size of the r.c.b.o. downstream, pay attention to the magnetic threshold and the rating of the upstream must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and MCBs, three-phase network (+ neutral) 400 / 415 V~ according to IEC/EN 60947-2:

For TT or TN neutral system in 230/400 V network, to know the breaking capacity of the combination of a double pole breaker (connected between phase and neutral under 230V) downstream of a triple-pole circuit-breaker, take the values shown in tables 230/240V.

		m.c.b. upstream										
		DX³ 36kA						DX³ 50kA				
		Curve C						Curves B, C et D				
r.c.b.o. downstream		≤25A	32A	40A	50A	63A	80A	≤25A	32A	40A	50A	63A
DX³ 6000/10kA Curve C	10A	**36kA**	**36kA**	**36kA**	**36kA**	**36kA**	**36kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	16A	**36kA**	**36kA**	**36kA**	**36kA**	**36kA**	**36kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	20A	**36kA**	**36kA**	**36kA**	**36kA**	**36kA**	**36kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	25A	-	**36kA**	**36kA**	**36kA**	**36kA**	**36kA**	-	**50kA**	**50kA**	**50kA**	**50kA**
	32A	-	-	**36kA**	**36kA**	**36kA**	**36kA**	-	-	**50kA**	**50kA**	**50kA**
	40A	-	-	-	**36kA**	**36kA**	**36kA**	-	-	-	**50kA**	**50kA**
	50A	-	-	-	-	**36kA**	**36kA**	-	-	-	-	**50kA**
	63A	-	-	-	-	-	**36kA**	-	-	-	-	-

Depending on the size of the r.c.b.o. downstream, pay attention to the magnetic threshold and the rating of the upstream must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and MCCBs, three-phase network (+ neutral) 400 / 415 V~ according to IEC/EN 60947-2:

For TT or TN neutral system in 230/400 V network, to know the breaking capacity of the combination of a double pole breaker (connected between phase and neutral under 230V) downstream of a triple-pole circuit-breaker, take the values shown in tables 230/240V.

		m.c.c.b. upstream											
		DPX 125						DPX 125					
		16kA						25kA					
r.c.b.o. downstream		16A	25A	40A	63A	100A	125A	16A	25A	40A	63A	100A	125A
DX³ 6000/10kA Curve C	10A	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	16A	-	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	20A	-	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	25A	-	-	**16kA**	**16kA**	**16kA**	**16kA**	-	-	**25kA**	**25kA**	**25kA**	**25kA**
	32A	-	-	**16kA**	**16kA**	**16kA**	**16kA**	-	-	**25kA**	**25kA**	**25kA**	**25kA**
	40A	-	-	-	**16kA**	**16kA**	**16kA**	-	-	-	**25kA**	**25kA**	**25kA**
	50A	-	-	-	**16kA**	**16kA**	**16kA**	-	-	-	**25kA**	**25kA**	**25kA**
	63A	-	-	-	-	**16kA**	**16kA**	-	-	-	-	**25kA**	**25kA**

		m.c.c.b. upstream													
		DPX 125						DPX³ 160 / DPX³ 160 + diff.							
		36kA						16kA							
r.c.b.o. downstream		16A	25A	40A	63A	100A	125A	16A	25A	40A	63A	80A	100A	125A	160A
DX³ 6000/10kA Curve C	10A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	16A	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	-	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	20A	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	-	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	25A	-	-	**25kA**	**25kA**	**25kA**	**25kA**	-	-	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	32A	-	-	**25kA**	**25kA**	**25kA**	**25kA**	-	-	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	40A	-	-	-	**25kA**	**25kA**	**25kA**	-	-	-	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	50A	-	-	-	**25kA**	**25kA**	**25kA**	-	-	-	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	63A	-	-	-	-	**25kA**	**25kA**	-	-	-	-	**16kA**	**16kA**	**16kA**	**16kA**

Depending on the size of the r.c.b.o. downstream, pay attention to the magnetic threshold and the rating of the upstream must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and MCCBs, three-phase network (+ neutral) 400 / 415 V~ according to IEC/EN 60947-2:

For TT or TN neutral system in 230/400 V network, to know the breaking capacity of the combination of a double pole breaker (connected between phase and neutral under 230V) downstream of a triple-pole circuit-breaker, take the values shown in tables 230/240V.

		m.c.c.b. upstream												
		DPX³ 160 / DPX³ 160 + diff.								DPX 160				
		25 – 36 – 50kA								25 - 36 - 50kA				
r.c.b.o. downstream		16A	25A	40A	63A	80A	100A	125A	160A	25A	40A	63A	100A	125A
DX³ 6000/10kA Curve C	10A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	16A	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	20A	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	25A	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	-	**25kA**	**25kA**	**25kA**	**25kA**
	32A	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	-	**25kA**	**25kA**	**25kA**	**25kA**
	40A	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	-	-	**25kA**	**25kA**	**25kA**
	50A	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	-	-	**25kA**	**25kA**	**25kA**
	63A	-	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**	-	-	-	**20kA**	**20kA**

		m.c.c.b. upstream												
		DPX 250ER			DPX 250ER AB				DPX³250 / DPX³250+diff. (Thermo-Magnetic & electronic)				DPX 400AB	
		25 - 36 - 50kA			36kA				25 - 36 – 50 - 70kA				36kA	
r.c.b.o. downstream		100A	160A	250A	90A	130A	170A	240A	100A	160A	200A	250A	320A	400A
DX³ 6000/10kA Curve C	10A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	16A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	20A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	25A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	32A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	40A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**20kA**	**20kA**
	50A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**16kA**	**16kA**
	63A	**20kA**	**20kA**	**20kA**	**20kA**	**20kA**	**20kA**	**20kA**	**25kA**	**25kA**	**25kA**	**25kA**	**16kA**	**16kA**

Depending on the size of the r.c.b.o. downstream, pay attention to the magnetic threshold and the rating of the upstream must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and MCCBs, three-phase network (+ neutral) 400 / 415 V~ according to IEC/EN 60947-2:

For TT or TN neutral system in 230/400 V network, to know the breaking capacity of the combination of a double pole breaker (connected between phase and neutral under 230V) downstream of a triple-pole circuit-breaker, take the values shown in tables 230/240V.

		m.c.c.b. upstream										
		DPX / H / L 250 (Thermo-Magnetic & electronic)						DPX / H / L 630 (Thermo-Magnetic & electronic)				
		36 – 70 – 100kA						36 – 70 – 100kA				
r.c.b.o. downstream		25A	40A	63A	100A	160A	250A	250A	320A	400A	500A	630A
DX³ 6000/10kA Curve C	10A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	16A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	20A	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	25A	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	32A	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	40A	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**20kA**	**20kA**	**20kA**	**20kA**	**20kA**
	50A	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**
	63A	-	-	**20kA**	**20kA**	**20kA**	**20kA**	**16kA**	**16kA**	**16kA**	**16kA**	**16kA**

		m.c.c.b. upstream	
		DPX / H / L 1250 (Thermo-Magnetic)	DPX / H 1600 (electronic)
		50 – 70 - 100kA	36 – 70kA
r.c.b.o. downstream		500 à 1250A	630 à 1600A
DX³ 6000/10kA Curve C	10A	**25kA**	**25kA**
	16A	**25kA**	**25kA**
	20A	**25kA**	**25kA**
	25A	**20kA**	**20kA**
	32A	**15kA**	**15kA**
	40A	**15kA**	**15kA**
	50A	**12,5**	**12,5**
	63A	**12,5**	**12,5**

Depending on the size of the r.c.b.o. downstream, pay attention to the magnetic threshold and the rating of the upstream must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and fuses, three-phase network (+ neutral) 230 / 240 V~ according to IEC/EN 60947-2:5.

		Fuse upstream									
		gG Type									
r.c.b.o. downstream		≤20A	25A	32A	40A	50A	63A	80A	100A	125A	160A
DX³ 6000/10kA Curve C	10A	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	16A	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	20A	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	25A	-	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	32A	-	-	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	40A	-	-	-	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	50A	-	-	-	-	-	-	**100kA**	**100kA**	**100kA**	**40kA**
	63A	-	-	-	-	-	-	**100kA**	**100kA**	**100kA**	**40kA**

		Fuse upstream									
		aM Type									
r.c.b.o. downstream		≤20A	25A	32A	40A	50A	63A	80A	100A	125A	160A
DX³ 6000/10kA Curve C	10A	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	16A	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	20A	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	25A	-	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	32A	-	-	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	40A	-	-	-	-	-	**100kA**	**100kA**	**100kA**	**100kA**	**40kA**
	50A	-	-	-	-	-	-	**100kA**	**100kA**	**100kA**	**40kA**
	63A	-	-	-	-	-	-	**100kA**	**100kA**	**100kA**	**40kA**

Depending on the size of the r.c.b.o. downstream, pay attention threshold and the rating of the upstream fuse must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and MCBs, three-phase network (+ neutral) 230 / 240 V~ according to IEC/EN 60947-2:

		m.c.b. upstream							
		DX³ 10000/16kA							
		Curves B, C							
r.c.b.o. downstream		≤25A	32A	40A	50A	63A	80A	100A	125A
DX³ 6000/10kA Curve C	10A	**32kA**	**32kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	16A	**32kA**	**32kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	20A	**32kA**	**32kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	25A	-	**32kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	32A	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	40A	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	50A	-	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**
	63A	-	-	-	-	-	**25kA**	**25kA**	**25kA**

		m.c.b. upstream							
		DX³ 10000/16kA							
		Curve D							
r.c.b.o. downstream		≤25A	32A	40A	50A	63A	80A	100A	125A
DX³ 6000/10kA Curve C	10A	**32kA**	**32kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	16A	**32kA**	**32kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	20A	**32kA**	**32kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	25A	-	**32kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	32A	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	40A	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	50A	-	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**
	63A	-	-	-	-	-	**25kA**	**25kA**	**25kA**

Depending on the size of the r.c.b.o. downstream, pay attention to the magnetic threshold and the rating of the upstream must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and MCBs, three-phase network (+ neutral) 230 / 240 V~ according to IEC/EN 60947-2:

		m.c.b. upstream							
		DX³ 25kA							
		Curves B, C							
r.c.b.o. downstream		≤25A	32A	40A	50A	63A	80A	100A	125A
DX³ 6000/10kA Curve C	10A	**50kA**	**50kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	16A	**50kA**	**50kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	20A	**50kA**	**50kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	25A	-	**50kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	32A	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	40A	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	50A	-	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**
	63A	-	-	-	-	-	**25kA**	**25kA**	**25kA**

		m.c.b. upstream							
		DX³ 25kA							
		Curve D							
r.c.b.o. downstream		≤25A	32A	40A	50A	63A	80A	100A	125A
DX³ 6000/10kA Curve C	10A	**50kA**	**50kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	16A	**50kA**	**50kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	20A	**50kA**	**50kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	25A	-	**50kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	32A	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	40A	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**	**25kA**
	50A	-	-	-	-	**25kA**	**25kA**	**25kA**	**25kA**
	63A	-	-	-	-	-	**25kA**	**25kA**	**25kA**

Depending on the size of the r.c.b.o. downstream, pay attention to the magnetic threshold and the rating of the upstream must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and MCBs, three-phase network (+ neutral) 230 / 240 V~ according to IEC/EN 60947-2:

		m.c.b. upstream										
		DX³ 36kA						DX³ 50kA				
		Curve C						Curves B, C et D				
r.c.b.o. downstream		≤25A	32A	40A	50A	63A	80A	≤25A	32A	40A	50A	63A
DX³ 6000/10kA Curve C	10A	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	16A	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	20A	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	25A	-	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	-	**50kA**	**50kA**	**50kA**	**50kA**
	32A	-	-	**50kA**	**50kA**	**50kA**	**50kA**	-	-	**50kA**	**50kA**	**50kA**
	40A	-	-	-	**50kA**	**50kA**	**50kA**	-	-	-	**50kA**	**50kA**
	50A	-	-	-	-	**50kA**	**50kA**	-	-	-	-	**50kA**
	63A	-	-	-	-	-	**50kA**	-	-	-	-	-

Depending on the size of the r.c.b.o. downstream, pay attention to the magnetic threshold and the rating of the upstream must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and MCCBs, three-phase network (+ neutral) 230 / 240 V~ according to IEC/EN 60947-2:

		m.c.c.b. upstream											
		DPX 125						DPX 125					
		25kA						36kA					
r.c.b.o. downstream		16A	25A	40A	63A	100A	125A	16A	25A	40A	63A	100A	125A
DX³ 6000/10kA Curve C	10A	**35kA**	**35kA**	**35kA**	**35kA**	**35kA**	**35kA**	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**
	16A		**35kA**	**35kA**	**35kA**	**35kA**	**35kA**		**40kA**	**40kA**	**40kA**	**40kA**	**40kA**
	20A		**35kA**	**35kA**	**35kA**	**35kA**	**35kA**		**40kA**	**40kA**	**40kA**	**40kA**	**40kA**
	25A			**35kA**	**35kA**	**35kA**	**35kA**			**40kA**	**40kA**	**40kA**	**40kA**
	32A			**35kA**	**35kA**	**35kA**	**35kA**			**40kA**	**40kA**	**40kA**	**40kA**
	40A				**35kA**	**35kA**	**35kA**				**40kA**	**40kA**	**40kA**
	50A				**25kA**	**25kA**	**25kA**				**25kA**	**25kA**	**25kA**
	63A					**25kA**	**25kA**					**25kA**	**25kA**

		m.c.c.b. upstream							
		DPX³ 160 / DPX³ 160 + diff.							
		16kA							
r.c.b.o. downstream		16A	25A	40A	63A	80A	100A	125A	160A
DX³ 6000/10kA Curve C	10A	**28kA**	**28kA**	**28kA**	**28kA**	**28kA**	**28kA**	**28kA**	**28kA**
	16A		**28kA**	**28kA**	**28kA**	**28kA**	**28kA**	**28kA**	**28kA**
	20A		**28kA**	**28kA**	**28kA**	**28kA**	**28kA**	**28kA**	**28kA**
	25A			**28kA**	**28kA**	**28kA**	**28kA**	**28kA**	**28kA**
	32A			**28kA**	**28kA**	**28kA**	**28kA**	**28kA**	**28kA**
	40A				**28kA**	**28kA**	**28kA**	**28kA**	**28kA**
	50A				**28kA**	**28kA**	**28kA**	**28kA**	**28kA**
	63A					**28kA**	**28kA**	**28kA**	**28kA**

Depending on the size of the r.c.b.o. downstream, pay attention to the magnetic threshold and the rating of the upstream must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and MCCBs, three-phase network (+ neutral) 230 / 240 V~ according to IEC/EN 60947-2:

		m.c.c.b. upstream							
		DPX³ 160 / DPX³ 160 + diff.							
		25kA							
r.c.b.o. downstream		16A	25A	40A	63A	80A	100A	125A	160A
DX³ 6000/10kA Curve C	10A	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**
	16A		**40kA**	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**
	20A		**40kA**	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**
	25A			**40kA**	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**
	32A			**40kA**	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**
	40A				**40kA**	**40kA**	**40kA**	**40kA**	**40kA**
	50A				**40kA**	**40kA**	**40kA**	**40kA**	**40kA**
	63A					**40kA**	**40kA**	**40kA**	**40kA**

		m.c.c.b. upstream							
		DPX³ 160 / DPX³ 160 + diff.							
		36 - 50kA							
r.c.b.o. downstream		16A	25A	40A	63A	80A	100A	125A	160A
DX³ 6000/10kA Curve C	10A	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	16A		**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	20A		**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	25A			**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	32A			**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	40A				**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	50A				**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	63A					**50kA**	**50kA**	**50kA**	**50kA**

Depending on the size of the r.c.b.o. downstream, pay attention to the magnetic threshold and the rating of the upstream must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and MCCBs, three-phase network (+ neutral) 230 / 240 V~ according to IEC/EN 60947-2:

		m.c.c.b. upstream									
		DPX 160					DPX 160				
		25kA					36 - 50kA				
r.c.b.o. downstream		25A	40A	63A	100A	125A	25A	40A	63A	100A	125A
DX³ 6000/10kA Curve C	10A	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	16A	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	20A	**40kA**	**40kA**	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	25A		**40kA**	**40kA**	**40kA**	**40kA**		**50kA**	**50kA**	**50kA**	**50kA**
	32A		**40kA**	**40kA**	**40kA**	**40kA**		**50kA**	**50kA**	**50kA**	**50kA**
	40A			**40kA**	**40kA**	**40kA**			**50kA**	**50kA**	**50kA**
	50A			**36kA**	**36kA**	**36kA**			**36kA**	**36kA**	**36kA**
	63A				**30kA**	**30kA**				**30kA**	**30kA**

		m.c.c.b. upstream									
		DPX 250ER			DPX 250ER			DPX 250ER AB			
		25kA			36 - 50kA			36kA			
r.c.b.o. downstream		100A	160A	250A	100A	160A	250A	90A	130A	170A	240A
DX³ 6000/10kA Curve C	10A	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	16A	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	20A	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	25A	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	32A	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	40A	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	50A	**36kA**	**36kA**	**36kA**	**36kA**	**36kA**	**36kA**	**36kA**	**36kA**	**36kA**	**36kA**
	63A	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**

Depending on the size of the r.c.b.o. downstream, pay attention to the magnetic threshold and the rating of the upstream must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and MCCBs, three-phase network (+ neutral) 230 / 240 V~ according to IEC/EN 60947-2:

		m.c.c.b. upstream									
		DPX³250 / DPX³250+diff. (Thermo-Magnetic & electronic)				DPX³250 / DPX³250+diff. (Thermo-Magnetic & electronic)				DPX 400AB	
		25kA				36 – 50 - 70kA				36kA	
r.c.b.o. downstream		100A	160A	200A	250A	100A	160A	200A	250A	320A	400A
DX³ 6000/10kA Curve C	10A	**40kA**	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	16A	**40kA**	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	20A	**40kA**	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	25A	**40kA**	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	32A	**40kA**	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	40A	**40kA**	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	50A	**40kA**	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**30kA**	**30kA**
	63A	**40kA**	**40kA**	**40kA**	**40kA**	**50kA**	**50kA**	**50kA**	**50kA**	**30kA**	**30kA**

		m.c.c.b. upstream										
		DPX / H / L 250 (Thermo-Magnetic & electronic)						DPX / H / L 630 (Thermo-Magnetic & electronic)				
		36 - 70 – 100kA						36 - 70 – 100kA				
r.c.b.o. downstream		25A	40A	63A	100A	160A	250A	**250A**	**320A**	**400A**	**500A**	**630A**
DX³ 6000/10kA Curve C	10A	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	16A	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	20A	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	25A	-	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	32A	-	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	40A	-	-	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**	**50kA**
	50A	-	-	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**
	63A	-	-	-	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**	**30kA**

Depending on the size of the r.c.b.o. downstream, pay attention to the magnetic threshold and the rating of the upstream must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination between RCBOs and MCCBs, three-phase network (+ neutral) 230 / 240 V~ according to IEC/EN 60947-2:

		m.c.c.b. upstream	
		DPX / H / L 1250 (Thermo-Magnetic)	DPX / H 1600 (electronic)
		50 – 70 - 100kA	36 – 70kA
r.c.b.o. downstream		500 à 1250A	630 à 1600A
DX³ 6000/10kA Curve C	10A	**50kA**	**50kA**
	16A	**50kA**	**50kA**
	20A	**50kA**	**50kA**
	25A	**50kA**	**50kA**
	32A	**50kA**	**50kA**
	40A	**50kA**	**50kA**
	50A	**25kA**	**25kA**
	63A	**25kA**	**25kA**

Depending on the size of the r.c.b.o. downstream, pay attention to the magnetic threshold and the rating of the upstream must always be higher.

5. GENERAL CHARACTERISTICS *(continued)*

Selectivity between two levels of protection

. The downstream circuit breaker must always have a magnetic threshold and a rated current lower than those of the upstream protection.
. Selectivity is indicated total (T) if there is selectivity up to the value of breaking capacity (according to IEC / EN 60947-2) of the downstream circuit breaker.

Selectivity between RCBOs and fuses:

. Selectivity limit at 400V~: values in Ampere.

		Fuse upstream						
		gG Type						
r.c.b.o. downstream		40A	50A	63A	80A	100A	125A	160A
DX³ 6000/10kA Curve C	10A	1600	2200	3200	3600	7000	T	T
	16A	1400	1800	2600	3000	5600	8000	T
	20A	1200	1500	2200	2500	4600	6300	T
	25A	-	1300	2000	2200	4100	5500	9000
	32A	-	1200	1700	1900	3500	4500	8000
	40A	-	-	-	1700	3000	4000	6000
	50A	-	-	-	1600	2600	3500	5000
	63A	-	-	-	-	2400	3300	5000

		Fuse upstream							
		aM Type							
r.c.b.o. downstream		32A	40A	50A	63A	80A	100A	125A	160A
DX³ 6000/10kA Curve C	10A	1100	1700	2500	5000	7800	T	T	T
	16A	1000	1400	2100	4000	6000	9000	T	T
	20A	-	1300	1800	3400	5100	7000	T	T
	25A	-	1100	1600	3000	4500	6000	9300	T
	32A	-	-	1300	2400	3800	5000	7700	9000
	40A	-	-	-	2100	3100	4200	6400	7000
	50A	-	-	-	2000	2900	3700	6000	6000
	63A	-	-	-	-	2800	3500	5500	6000

5. GENERAL CHARACTERISTICS *(continued)*

Selectivity between RCBOs and MCBs:

. Selectivity limit at 400V~: values in Ampere.

		m.c.b. upstream									
		DX³ 10000/16kA									
		Curve B									
r.c.b.o. downstream		16A	20A	≤25A	32A	40A	50A	63A	80A	100A	125A
DX³ 6000/10kA Curve C	10A	-	80	100	128	160	200	252	3000	5000	T
	16A	-	-	-	128	160	200	252	2000	3600	5500
	20A	-	-	-	-	160	200	252	1600	3000	4000
	25A	-	-	-	-	-	200	252	1300	2400	3300
	32A	-	-	-	-	-	-	252	1000	1800	2700
	40A	-	-	-	-	-	-	-	800	1600	2400
	50A	-	-	-	-	-	-	-	800	900	1700
	63A	-	-	-	-	-	-	-	-	900	1200

		m.c.b. upstream									
		DX³ 10000/16kA									
		Curve C									
r.c.b.o. downstream		16A	20A	≤25A	32A	40A	50A	63A	80A	100A	125A
DX³ 6000/10kA Curve C	10A	120	150	187	240	300	375	472	3000	5000	T
	16A	-	150	187	240	300	375	472	2000	3600	5500
	20A	-	-	187	240	300	375	472	1600	3000	4000
	25A	-	-	-	240	300	375	472	1300	2400	3300
	32A	-	-	-	-	300	375	472	1000	1800	2700
	40A	-	-	-	-	-	375	472	800	1600	2400
	50A	-	-	-	-	-	-	472	800	900	1700
	63A	-	-	-	-	-	-	-	650	900	1200

5. GENERAL CHARACTERISTICS *(continued)*

Selectivity between RCBOs and MCBs:

. Selectivity limit at 400V~: values in Ampere.

		m.c.b. upstream									
		DX³ 10000/16kA									
		Curve D									
r.c.b.o. downstream		16A	20A	≤25A	32A	40A	50A	63A	80A	100A	125A
DX³ 6000/10kA Curve C	10A	**192**	**240**	**300**	**384**	**480**	**600**	**756**	**3000**	**5000**	**T**
	16A	**-**	**240**	**300**	**384**	**480**	**600**	**756**	**2000**	**3600**	**5500**
	20A	**-**	**-**	**300**	**384**	**480**	**600**	**756**	**1600**	**3000**	**4000**
	25A	**-**	**-**	**-**	**384**	**480**	**600**	**756**	**1300**	**2400**	**3300**
	32A	**-**	**-**	**-**	**-**	**480**	**600**	**756**	**1100**	**1450**	**2700**
	40A	**-**	**-**	**-**	**-**	**-**	**600**	**756**	**1000**	**1250**	**2400**
	50A	**-**	**-**	**-**	**-**	**-**	**-**	**756**	**950**	**1200**	**1700**
	63A	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**950**	**1200**	**1500**

		m.c.b. upstream									
		DX³ 25kA									
		Curve B									
r.c.b.o. downstream		16A	20A	≤25A	32A	40A	50A	63A	80A	100A	125A
DX³ 6000/10kA Curve C	10A	**-**	**80**	**100**	**500**	**700**	**1000**	**1800**	**3000**	**5000**	**T**
	16A	**-**	**-**	**-**	**300**	**500**	**700**	**1300**	**2000**	**3600**	**5500**
	20A	**-**	**-**	**-**	**-**	**400**	**500**	**1000**	**1600**	**3000**	**4000**
	25A	**-**	**-**	**-**	**-**	**-**	**500**	**800**	**1300**	**2400**	**3300**
	32A	**-**	**-**	**-**	**-**	**-**	**500**	**600**	**1000**	**1800**	**2700**
	40A	**-**	**-**	**-**	**-**	**-**	**-**	**600**	**800**	**1600**	**2400**
	50A	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**800**	**900**	**1700**
	63A	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**900**	**1200**

5. GENERAL CHARACTERISTICS *(continued)*

Selectivity between RCBOs and MCBs:

. Selectivity limit at 400V~: values in Ampere.

		m.c.b. upstream									
		DX³ 25kA									
		Curve C									
r.c.b.o. downstream		16A	20A	≤25A	32A	40A	50A	63A	80A	100A	125A
DX³ 6000/10kA Curve C	10A	**120**	**150**	**187**	**500**	**700**	**1000**	**1800**	**3000**	**5000**	**T**
	16A	**-**	**150**	**187**	**300**	**500**	**700**	**1300**	**2000**	**3600**	**5500**
	20A	**-**	**-**	**187**	**300**	**400**	**500**	**1000**	**1600**	**3000**	**4000**
	25A	**-**	**-**	**-**	**240**	**400**	**500**	**800**	**1300**	**2400**	**3300**
	32A	**-**	**-**	**-**	**-**	**300**	**500**	**600**	**1000**	**1800**	**2700**
	40A	**-**	**-**	**-**	**-**	**-**	**400**	**600**	**800**	**1600**	**2400**
	50A	**-**	**-**	**-**	**-**	**-**	**-**	**500**	**800**	**900**	**1700**
	63A	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**650**	**900**	**1200**

		m.c.b. upstream									
		DX³ 25kA									
		Curve D									
r.c.b.o. downstream		16A	20A	≤25A	32A	40A	50A	63A	80A	100A	125A
DX³ 6000/10kA Curve C	10A	**192**	**240**	**300**	**500**	**700**	**1000**	**1800**	**3000**	**5000**	**T**
	16A	**-**	**240**	**300**	**384**	**500**	**700**	**1300**	**2000**	**3600**	**5500**
	20A	**-**	**-**	**300**	**384**	**480**	**600**	**1000**	**1600**	**3000**	**4000**
	25A	**-**	**-**	**-**	**384**	**480**	**600**	**800**	**1300**	**2400**	**3300**
	32A	**-**	**-**	**-**	**-**	**480**	**600**	**756**	**1100**	**1450**	**2700**
	40A	**-**	**-**	**-**	**-**	**-**	**600**	**756**	**1000**	**1250**	**2400**
	50A	**-**	**-**	**-**	**-**	**-**	**-**	**756**	**950**	**1200**	**1700**
	63A	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**950**	**1200**	**1500**

5. GENERAL CHARACTERISTICS *(continued)*

Selectivity between RCBOs and MCBs:

. Selectivity limit at 400V~: values in Ampere.

		m.c.b. upstream							
		DX³ 36kA							
		Curve C							
r.c.b.o. downstream		16A	20A	≤25A	32A	40A	50A	63A	80A
DX³ 6000/10kA Curve C	10A	**120**	**150**	**210**	**500**	**700**	**1000**	**1800**	**3000**
	16A	**-**	**150**	**187**	**300**	**500**	**700**	**1300**	**2000**
	20A	**-**	**-**	**187**	**300**	**400**	**500**	**1000**	**1600**
	25A	**-**	**-**	**-**	**240**	**400**	**500**	**800**	**1300**
	32A	**-**	**-**	**-**	**-**	**300**	**500**	**600**	**1000**
	40A	**-**	**-**	**-**	**-**	**-**	**400**	**600**	**800**
	50A	**-**	**-**	**-**	**-**	**-**	**-**	**500**	**800**
	63A	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**650**

		m.c.b. upstream						
		DX³ 50kA						
		Curve B						
r.c.b.o. downstream		16A	20A	≤25A	32A	40A	50A	63A
DX³ 6000/10kA Curve C	10A	**-**	**150**	**210**	**500**	**700**	**1000**	**1800**
	16A	**-**	**-**	**-**	**300**	**500**	**700**	**1300**
	20A	**-**	**-**	**-**	**-**	**400**	**500**	**1000**
	25A	**-**	**-**	**-**	**-**	**-**	**500**	**800**
	32A	**-**	**-**	**-**	**-**	**-**	**500**	**600**
	40A	**-**	**-**	**-**	**-**	**-**	**-**	**600**
	50A	**-**	**-**	**-**	**-**	**-**	**-**	**-**
	63A	**-**	**-**	**-**	**-**	**-**	**-**	**-**

5. GENERAL CHARACTERISTICS *(continued)*

Selectivity between RCBOs and MCBs:

. Selectivity limit at 400V~: values in Ampere.

		m.c.b. upstream						
		DX³ 50kA						
		Curve C						
r.c.b.o. downstream		16A	20A	≤25A	32A	40A	50A	63A
DX³ 6000/10kA Curve C	10A	**120**	**150**	**210**	**500**	**700**	**1000**	**1800**
	16A	**-**	**150**	**187**	**300**	**500**	**700**	**1300**
	20A	**-**	**-**	**187**	**300**	**400**	**500**	**1000**
	25A	**-**	**-**	**-**	**240**	**400**	**500**	**800**
	32A	**-**	**-**	**-**	**-**	**300**	**500**	**600**
	40A	**-**	**-**	**-**	**-**	**-**	**400**	**600**
	50A	**-**	**-**	**-**	**-**	**-**	**-**	**500**
	63A	**-**	**-**	**-**	**-**	**-**	**-**	**-**

		m.c.b. upstream						
		DX³ 50kA						
		Curve D						
r.c.b.o. downstream		16A	20A	≤25A	32A	40A	50A	63A
DX³ 6000/10kA Curve C	10A	**192**	**240**	**300**	**500**	**700**	**1000**	**1800**
	16A	**-**	**240**	**300**	**384**	**500**	**700**	**1300**
	20A	**-**	**-**	**300**	**384**	**480**	**600**	**1000**
	25A	**-**	**-**	**-**	**384**	**480**	**600**	**800**
	32A	**-**	**-**	**-**	**-**	**480**	**600**	**756**
	40A	**-**	**-**	**-**	**-**	**-**	**600**	**756**
	50A	**-**	**-**	**-**	**-**	**-**	**-**	**756**
	63A	**-**	**-**	**-**	**-**	**-**	**-**	**-**

5. GENERAL CHARACTERISTICS *(continued)*

Selectivity between RCBOs and MCCBs:

. Selectivity limit at 400V~: values in Ampere.

		m.c.c.b. upstream										
		DPX 125						DPX 160				
		16 - 25 - 36kA						25 – 36 – 50kA				
r.c.b.o. downstream		16A	25A	40A	63A	100A	125A	25A	40A	63A	100A	160A
DX³ 6000/10kA Curve C	10A	**5000**	**5000**	**5000**	**5000**	**6000**	**6000**	**7500**	**7500**	**7500**	**7000**	**T**
	16A	**-**	**4000**	**4000**	**4000**	**6000**	**6000**	**6000**	**6000**	**6000**	**6000**	**T**
	20A	**-**	**4000**	**4000**	**4000**	**5000**	**5000**	**-**	**5000**	**5000**	**5000**	**T**
	25A	**-**	**-**	**3000**	**3000**	**4500**	**4500**	**-**	**3500**	**3500**	**4000**	**8500**
	32A	**-**	**-**	**3000**	**3000**	**4000**	**4000**	**-**	**-**	**2000**	**3500**	**7000**
	40A	**-**	**-**	**-**	**3000**	**3000**	**3000**	**-**	**-**	**2000**	**2500**	**6000**
	50A	**-**	**-**	**-**	**-**	**3000**	**3000**	**-**	**-**	**-**	**2000**	**5500**
	63A	**-**	**-**	**-**	**-**	**3000**	**3000**	**-**	**-**	**-**	**2000**	**5000**

5. GENERAL CHARACTERISTICS *(continued)*

Selectivity between RCBOs and MCCBs:

. Selectivity limit at 400V~: values in Ampere.

		m.c.c.b. upstream										
		DPX³160 DPX³160 + diff.								DPX 250ER		
		16 - 25 – 36 - 50kA								25 – 39 – 50kA		
r.c.b.o. downstream		16A	25A	40A	63A	80A	100A	125A	160A	100A	160A	250A
DX³ 6000/10kA Curve C	10A	5000	T	T	T	T	T	T	T	T	T	T
	16A	-	T	T	T	T	T	T	T	T	T	T
	20A	-	5000	5000	5000	5000	6000	T	T	8000	T	T
	25A	-	-	4500	4500	4500	4500	T	T	6000	8500	T
	32A	-	-	-	3000	4000	4000	T	T	5000	7000	T
	40A	-	-	-	3000	3000	3000	T	T	4000	6000	T
	50A	-	-	-	-	3000	3000	5500	7000	4000	5500	7000
	63A	-	-	-	-	3000	3000	5000	6000	3000	5000	6000

		m.c.c.b. upstream									
		DPX 250ER AB				DPX 250 / H / L (Thermo-Magnetic & electronic)					
		25kA				36 - 70 - 100kA					
r.c.b.o. downstream		90A	130A	170A	240A	25A	40A	63A	100A	160A	250A
DX³ 6000/10kA Curve C	10A	T	T	T	T	5,000	5,000	5,000	T	T	T
	16A	T	T	T	T	4,000	4,000	4,000	T	T	T
	20A	T	T	T	T	-	4,000	4,000	8,000	T	T
	25A	T	T	T	T	-	3,000	3,000	6,000	T	T
	32A	T	T	T	T	-	-	2,000	5,000	T	T
	40A	4000	T	T	T	-	-	2,000	5,000	T	T
	50A	4000	4000	T	T	-	-	-	4,000	8,000	T
	63A	3000	3000	T	T	-	-	-	4,000	8,000	T

5. GENERAL CHARACTERISTICS *(continued)*

Selectivity between RCBOs and MCCBs:

. Selectivity limit at 400V~: values in Ampere.

		m.c.c.b. upstream						
		DPX³ 250 DPX³ 250 + diff (Thermo-Magnetic & electronic)				DPX 400AB		DPX / H / L 630 (Thermo-Magnetic & electronic)
		25 - 36 – 50 - 70kA				36kA		36 - 70 – 100kA
r.c.b.o. downstream		100A	160A	200A	250A	320A	400A	250 à 630A
DX³ 6000/10kA Curve C	10A	**T**	**T**	**T**	**T**	**T**	**T**	**T**
	16A	**T**	**T**	**T**	**T**	**T**	**T**	**T**
	20A	**8000**	**T**	**T**	**T**	**T**	**T**	**T**
	25A	**6000**	**T**	**T**	**T**	**T**	**T**	**T**
	32A	**5000**	**T**	**T**	**T**	**T**	**T**	**T**
	40A	**5000**	**T**	**T**	**T**	**T**	**T**	**T**
	50A	**4000**	**8000**	**T**	**T**	**T**	**T**	**T**
	63A	**4000**	**8000**	**T**	**T**	**T**	**T**	**T**

		m.c.c.b. upstream	
		DPX / H / L 1250 (Thermo-Magnetic)	DPX / H 1600 (electronic)
		50 – 70 - 100kA	36 – 70kA
r.c.b.o. downstream		500 à 1250A	630 à 1600A
DX³ 6000/10kA Curve C	10A	**T**	**T**
	16A	**T**	**T**
	20A	**T**	**T**
	25A	**T**	**T**
	32A	**T**	**T**
	40A	**T**	**T**
	50A	**T**	**T**
	63A	**T**	**T**

6. CONFORMITIES AND APPROVALS

In accordance with standards:

. IEC/EN 61009-1.
. IEC/EN 60947-2.
. Compliance with Directives 2014/35/UE (LVC), subsequent modifications and additions.
. Compliance with Directives 2014/30/UE (EMC), subsequent modifications and additions.

Environment respect – Compliance with CEE directives:

. Compliance with Directive 2011/65/UE called "RoHS" provides the banishment of hazardous substances, subsequent modifications and additions.
. Compliance with Directives 91/338/CEE of 18/06/91 and decree 94-647, subsequent modifications and additions.

Plastic materials :

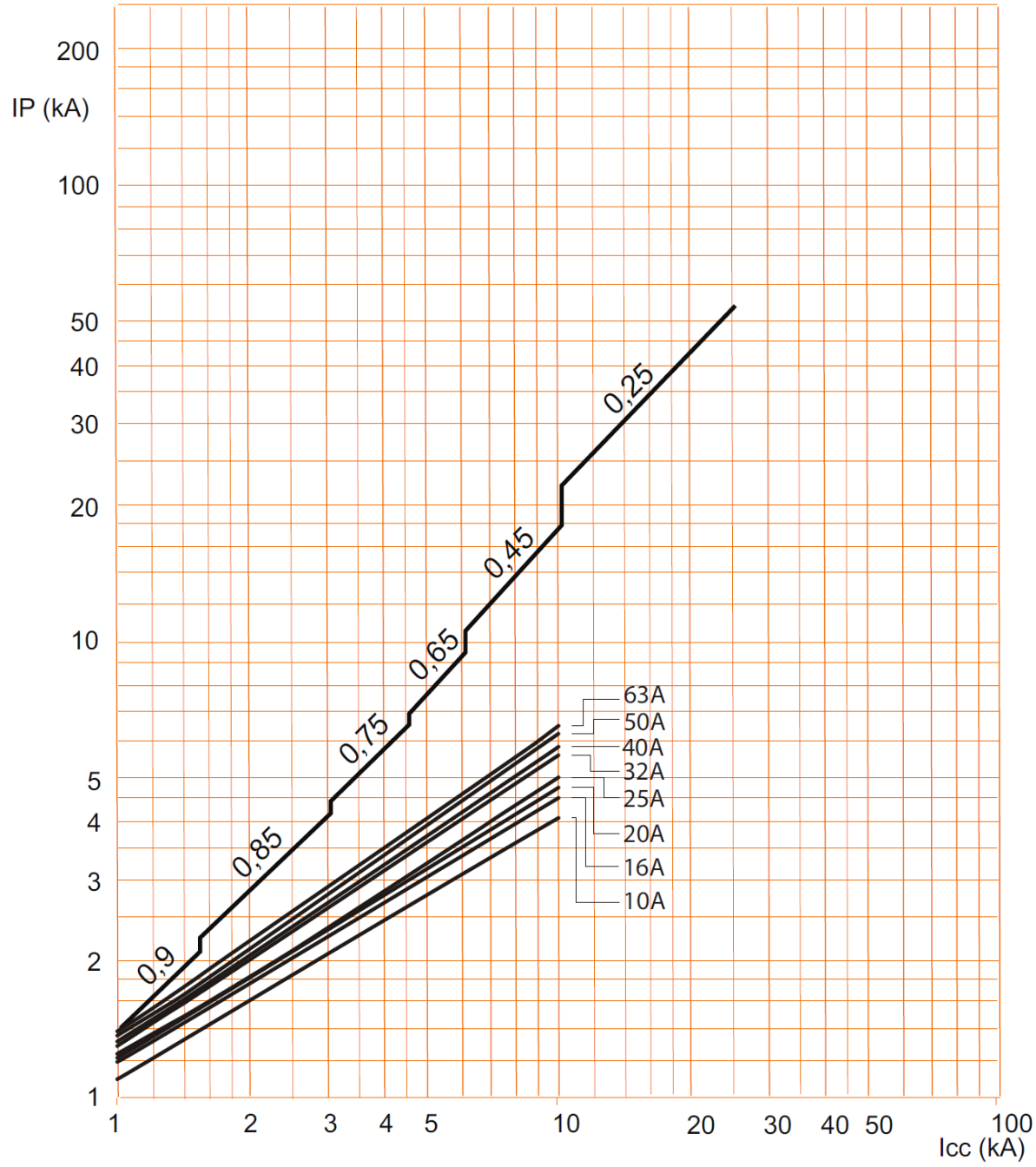
. Halogen-free plastic materials.
. Marking of parts according to ISO 11469 and ISO 1043.

Packaging:

. Design and manufacture of packaging in accordance with decree 98-638 and Directive 94/62/EC, subsequent modifications and additions.

7. CHARACTERISTIC CURVES

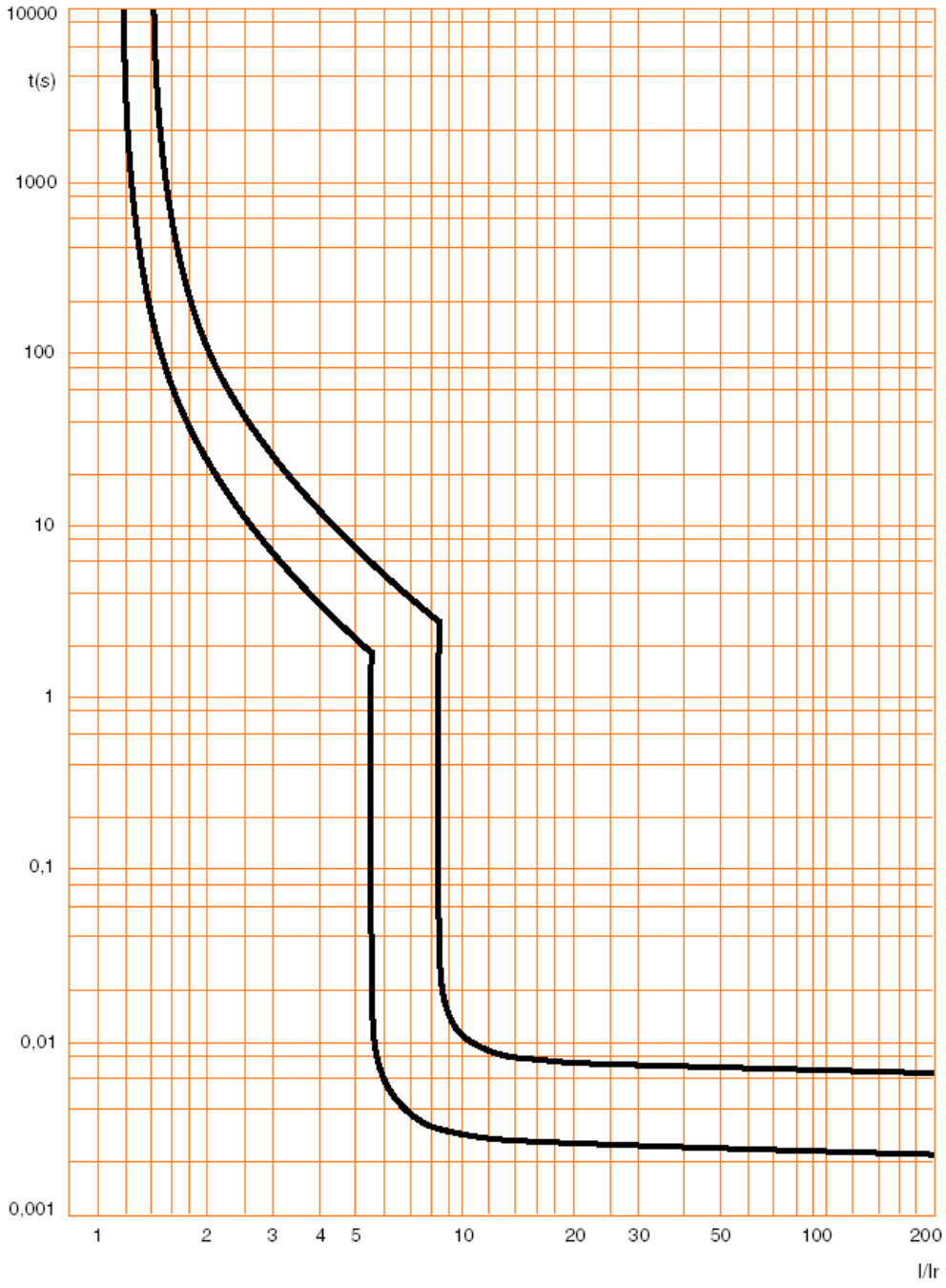
Limiting current curve: circuit breakers curve C



. Icc = Square value of symmetric component of the short circuit current (kA).
. IP = Max peak value (kA)

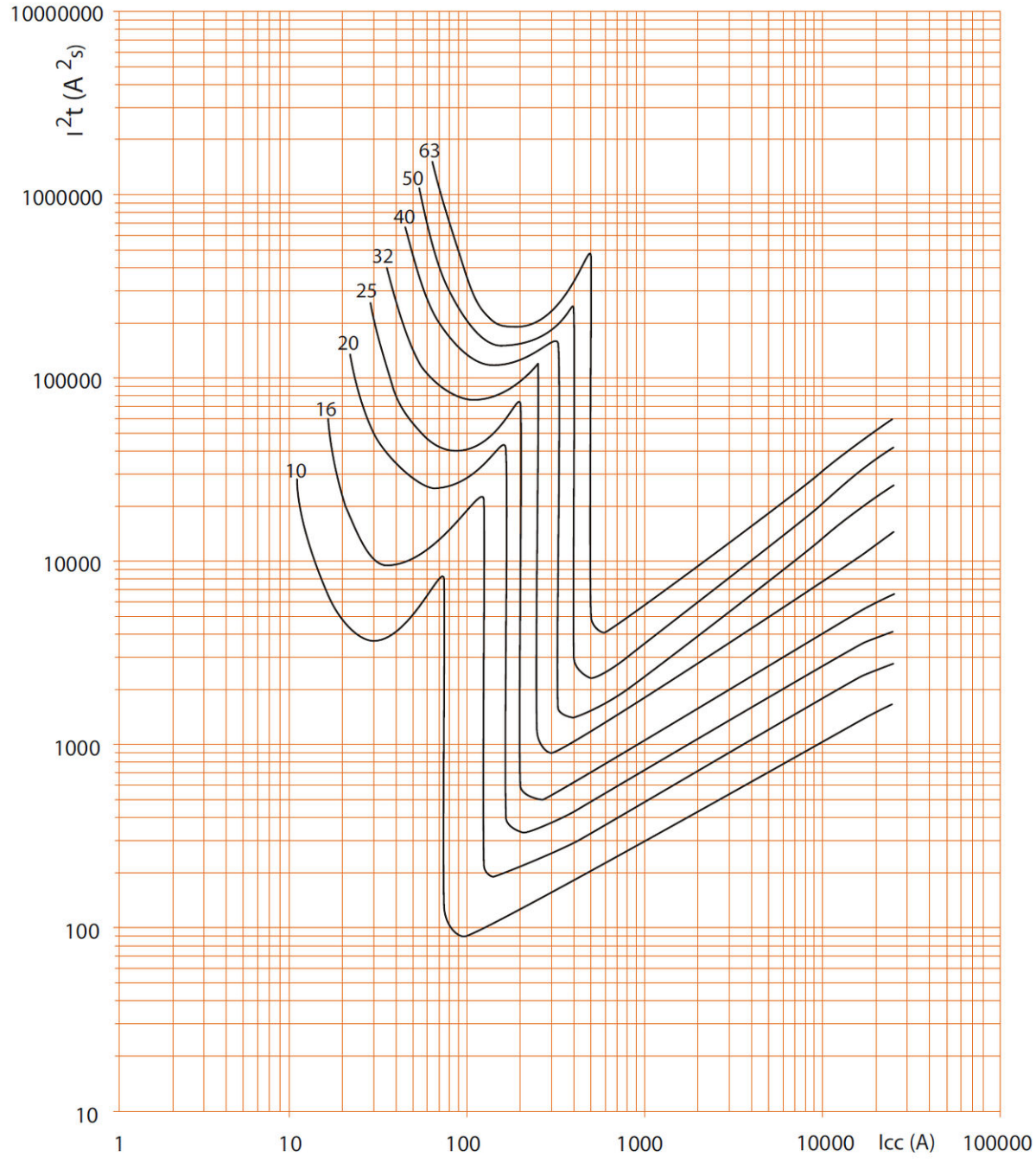
7. CHARACTERISTIC CURVES *(continued)*

Operating characteristic of circuit breakers curve C :



7. CHARACTERISTIC *(continued)*

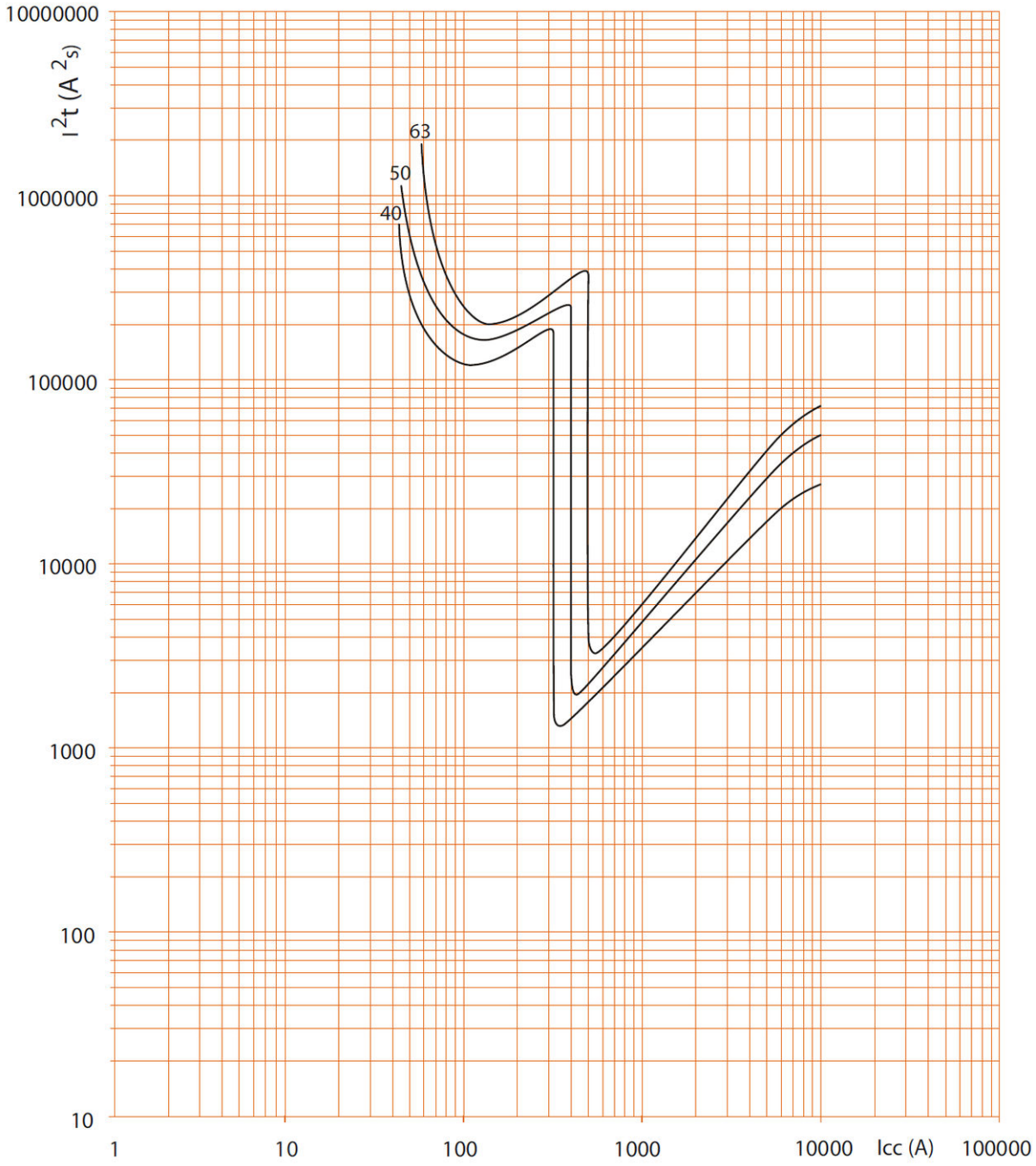
. Limiting thermal energy curve of circuit breakers curve C, 2P (230V~ / 50Hz) :



. Icc = Square value of symmetric component of the short circuit current (kA).
. I²t = Thermal energy limited (A²s).

7. CHARACTERISTIC CURVES *(continued)*

. Limiting thermal energy curve of circuit breakers curve C, 4P (400V~ / 50Hz) :

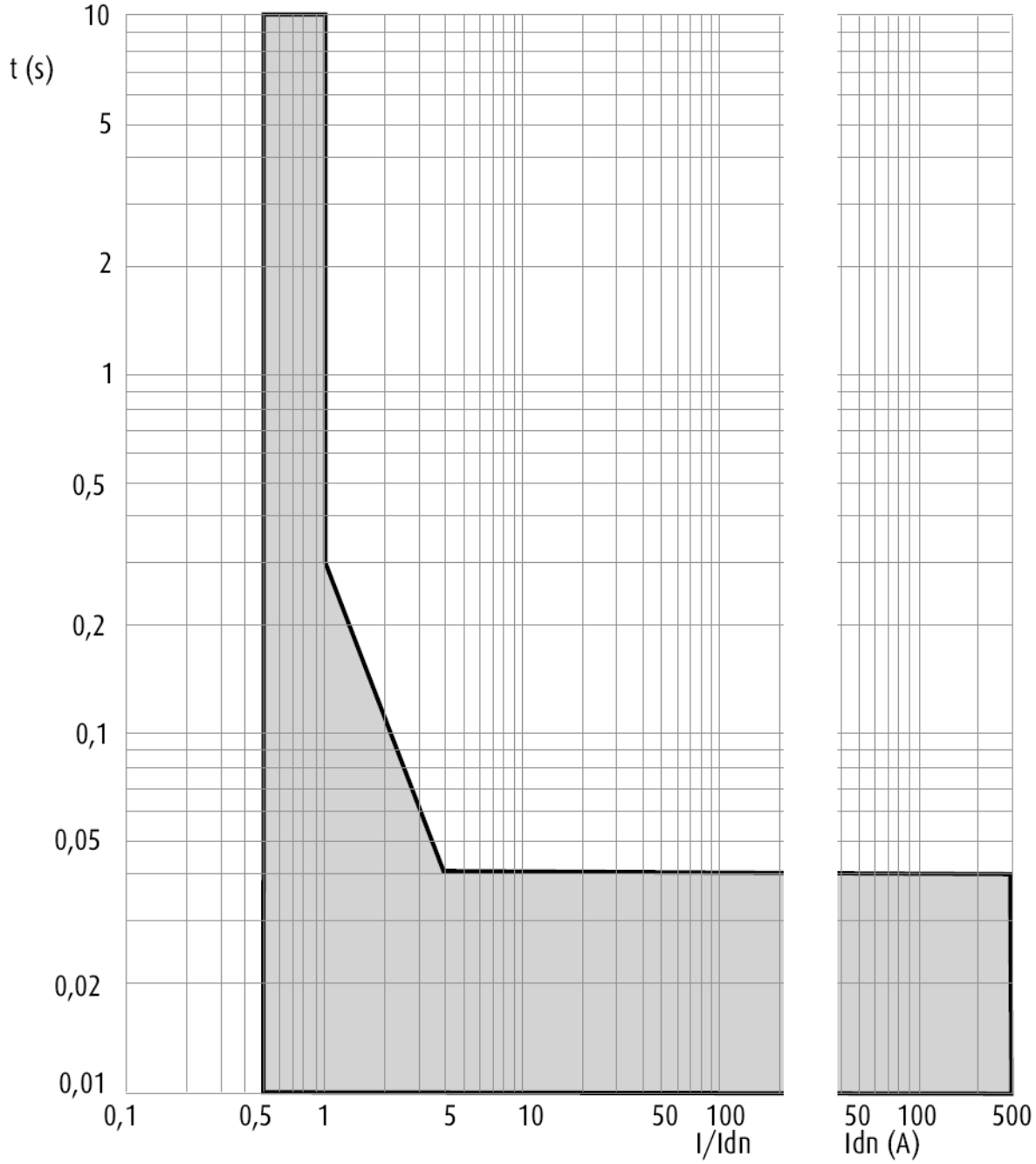


. Icc = Square value of symmetric component of the short circuit current (kA).
. I²t = Thermal energy limited (A²s).

7. CURVES *(continued)*

Residual current operating characteristic

. Average tripping time depending on the intensity of the fault current.
. Sensitivities 10 mA, 30 mA and 300 mA instantaneous AC type.



8. AUXILIARIES AND ACCESSORIES

Wiring accessories:
. Pin busbar HX³ traditional.
. Sealable screw cover (cat n° 4 063 04).
. Insulating shields (cat n° 4 063 05)
. Dispatcher row Lexiclic
. Dispatcher row HX³.

Signalling auxiliaries:
. Auxiliary contact (½ module – cat n° 4 062 58).
. Fault signalling changeover switch (½ module – cat n° 4 062 60).
. Auxiliary contact modifiable in default signal (½ module – cat n° 4 062 62).
. Auxiliary contact + fault signalling switch - can be modified to 2 auxiliary contacts (1 module - cat n° 4 062 66).

Control auxiliaries:
. Shunt releases (1 module - cat n°.4 062 76 / 78).
. Under voltage release (1 module - cat n° 4 062 80 / 82).
. Autonomous shunt trip for NC push-button (1 module - cat n°. 4 062 84).
. Power Overvoltage Protection (1 module – cat n° 4 062 86)

Motor driven control modules
. Motor driven control module (1 module – cat n° 4 062 91)
. Motor driven control module with automatic resetting integrated (2 modules – cat n° 4 062 93 / 95)

Automatic resetting module STOP & GO :
. Automatic resetting module Stop & Go (2 modules – cat n° 4 062 88)
. Automatic resetting module Stop & Go with self-test (2 modules – cat n° 4 062 89)

Possible combinations of m.c.b and auxiliaries:
. Auxiliaries are clipped to the left of the m.c.b.
. Maximum number of auxiliaries for one circuit-breaker: 3.
. Two signalling auxiliaries max. (cat. n° 4 062 58 / 60 / 62 / 66).
. Only one control auxiliary (cat. n° 4 062 76 / 78 / 80 / 82 / 84).
. If signalling and control auxiliaries are associated on the same circuit breaker, the command auxiliary must be placed to the left of the signal auxiliary (ref. 4 062 5x / 6x).

8. AUXILIARIES AND ACCESSORIES *(continued)*

Installation software:
. XL PRO³