

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42



| CONTENTS                             | PAGE |
|--------------------------------------|------|
| 1. Description - Use .....           | 1    |
| 2. Range.....                        | 1    |
| 3. Overall dimensions .....          | 1    |
| 4. Preparation - Connection .....    | 1    |
| 5. General Characteristics .....     | 2    |
| 6. Compliance and approvals.....     | 27   |
| 7. Curves .....                      | 28   |
| 8. Auxiliaries and accessories ..... | 38   |

## 1. DESCRIPTION - USE:

. Thermal-magnetic circuit breaker (MCB) with positive contact indication for control, protection against short-circuits and overloads, and isolation of electrical circuits.

### Symbol:



### Technology:

. Limiting device

## 2. RANGE

### Polarity:

. 1P / 2P / 3P / 4P

### Width:

. 1 module per pole. Each pole is 17,7 mm

### Rated currents, In:

. 0,5 / 1 / 2 / 3 / 4 / 6 / 10 / 13 / 16 / 20 / 25 / 32 / 40 / 50 / 63A B and C curves

### Magnetic tripping curves:

. B Curve (between 3 and 5 In)  
. C Curve (between 5 and 10 In)

### Thermal threshold according to IEC/EN 60898-1:

. Non operating current (In<sub>f</sub>): 1,13 In.  
. Operating current (I<sub>f</sub>): 1,45 In.

### Rated Voltage and Frequency:

. 230 V ~ / 400 V~ - 50 / 60 Hz with standard tolerances  
. 80 V per pole DC current

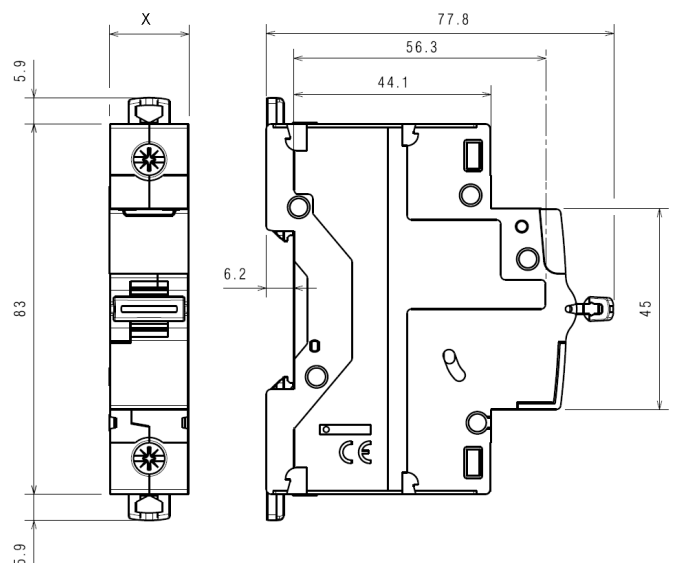
### Maximum operating voltage:

. 440 V ~ with possible derating of the breaking capacity

### Breaking capacity:

. 10000 A in accordance with standard EN/IEC 60898-1

## 3. OVERALL DIMENSIONS:



|    | X       |
|----|---------|
| 1P | 17.7 mm |
| 2P | 35.4 mm |
| 3P | 53.1 mm |
| 4P | 70.8 mm |

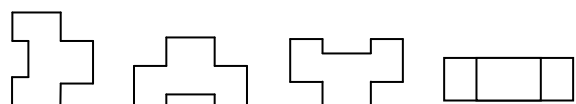
## 4. PREPARATION - CONNECTION

### Fixing:

. On symmetrical EN/IEC 60715 or DIN 35 rail.

### Operating positions:

. Vertical      Horizontal      Upside down      On the side



# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 4. PREPARATION - CONNECTION *(continued)*

### Power supply:

- . From the top or the bottom.

### Connection:

- . Inputs and outputs via screw terminals
- The location of the terminals allows supplying by traditional HX<sup>3</sup> pin busbar and fork busbar.

### Terminal depth :

- . 14 mm

### Stripping length recommended:

- . 11 mm

### Screw head:

- . Mixed, slotted and Pozidriv 2.

### Tightening torque:

- . Recommended: 2.5 Nm.
- . Mini : 2 Nm. Maxi : 3 Nm.

### Tools required:

- . For the terminals: Pozidriv n°2 or flat screwdriver 5,5 mm (6 mm maximum).
- . For fixing: flat screwdriver 5,5 mm (6 mm maximum).

### Conductor type:

|                | Copper cables  |   |
|----------------|--|---|
|                | Without ferrule  | With ferrule                                  |
| Rigid cable    | 1 x 1,5 mm <sup>2</sup> to 35 mm <sup>2</sup><br>2 x 1,5 mm <sup>2</sup> to 16 mm <sup>2</sup> | -   |
| Flexible cable | 1 x 1,5 mm <sup>2</sup> to 25 mm <sup>2</sup><br>2 x 1,5 mm <sup>2</sup> to 10 mm <sup>2</sup> | 1 x 1,5 mm <sup>2</sup> to 25 mm <sup>2</sup> |

### Manual actuation of the MCB:

- . By the 2-position ergonomic handle:
  - "I – ON": Closed circuit.
  - "0 – OFF": Opened circuit.

### 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

### Sealing:

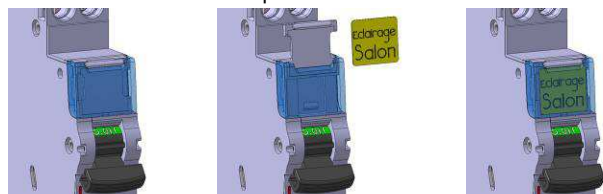
- . Possible in "Open" position (OFF) or "Close" position (ON).

### Locking:

- . By 5 mm padlock (cat. N° 4 063 13) or 6 mm padlock (cat. N° 0 227 97) with padlock support (cat. N° 0 044 42).

### Labelling:

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



## 5. GENERAL CHARACTERISTICS:

### Marking on the front side:

- . By permanent ink pad printing:
  - Trade name: DX<sup>3</sup>
  - Breaking curve
  - Rated current (in A)
  - I<sub>cn</sub> in kA rated breaking capacity in accordance with IEC/EN 60898-1 (in a box)
  - Limiting class "3" (in a square) for the MCB B and C curves with rated current ≤ 40 A.
  - Legrand reference code and Logo
  - Mark: Legrand.



### Short-circuit breaking capacity:

- . Alternate current 50/60Hz, single-phase or three-phase network, in accordance with standard: EN/IEC 60898-1

| Un     |                 | 1P      | 2P      | 3P / 4P |
|--------|-----------------|---------|---------|---------|
| 110 V~ | I <sub>cn</sub> | 16000 A | 25000 A | -       |
| 230V~  |                 | 10000 A | 16000 A | 16000 A |
| 400V~  |                 | -       | 10000 A | 10000 A |
| 440 V~ |                 | -       | 8000 A  | 8000 A  |

| Un     |                 |                        |                        |                        |
|--------|-----------------|------------------------|------------------------|------------------------|
| 110 V~ | I <sub>cs</sub> | 75% of I <sub>cn</sub> | 75% of I <sub>cn</sub> | 75% of I <sub>cn</sub> |
| 230V~  |                 |                        |                        |                        |
| 400V~  |                 |                        |                        |                        |
| 440 V~ |                 |                        |                        |                        |

### Short-circuit breaking capacity of only one pole:

- . Three-phase network 220 / 380 V~ to 240 / 415 V~
  - in TN neutral system, I<sub>cn1</sub> = 16 kA (under 220 to 240 V~)
  - in IT neutral system, I<sub>it</sub> = 4 kA (under 380 to 415 V~)
- . Three-phase network 110 / 220 V~ to 120 / 240 V~
  - in TN neutral system, I<sub>cn1</sub> = 32 kA (under 110 to 127 V~)
  - in IT neutral system, I<sub>it</sub> = 8 kA (under 220 to 240 V~)

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*

### Minimum operating voltage:

. 12 V a.c. / d.c. per pole.

### Pulse rated voltage:

. U<sub>imp</sub> = 4 kV

### Insulation rated voltage:

. U<sub>i</sub> = 500 V

### Pollution degree :

. 2 in accordance with the standard EN/IEC 60898-1.

### Electric strength:

. 2500 V

### Operation at 400Hz:

. The magnetic thresholds increase by 45%.

### Load to close and to open a pole trough the handle:

. 0,1 Nm per pole to close.

. 0,075 Nm per pole to open.

### Mechanical endurance:

. 20000 operation without load.

. 10000 operation with load (under  $I_n \cdot \cos \varphi = 0,9$ ).

. 2000 operation under  $I_n$ , DC current.

### Enclosure material:

. Polyester.

. Characteristics of this material: self extinguishing, heat and fire resistant according to EN 60898-1, 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).

### Average weight per pole:

. 0,150 kg.

### Volume when packed:

|                         | Volume (dm <sup>3</sup> ) |
|-------------------------|---------------------------|
| Single pole             | <b>0,163</b>              |
| Double pole             | <b>0,334</b>              |
| Triple pole / Four pole | <b>0,680</b>              |

### Ambient temperatures:

. Operation: from - 25°C to + 70°C

. Storage: from - 40°C to + 70°C

## 5. GENERAL CHARACTERISTICS *(continued)*

### Protection class:

. Protection index of terminals against solid and liquid bodies:

IP 20 (wired terminals), (in accordance with standards IEC 529, EN 60529 and NF C 20-010).

. Protection index of the box against solid and liquid bodies:

IP 40 (in accordance with standards IEC 529, EN 60529 and NF C 20-010).

. Protection index against mechanical shocks:

IK 02 (in accordance with standards EN 50102 and NF C 20-015).

### Sinusoidal vibration resistance in accordance with 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/s<sup>2</sup>)

### Recognition:

. Recognition of the circuits by label in the "label holder" on the front-side of the MCB

### Power dissipated per pole (W) :

. Circuit breaker B and C curves

| I <sub>n</sub> | 0,5 A      | 1 A      | 2 A      | 3 A      | 4 A      | 6 A        | 10 A       |
|----------------|------------|----------|----------|----------|----------|------------|------------|
| 1P÷4P          | <b>1,7</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>1,1</b> | <b>1,8</b> |

| I <sub>n</sub> | 16 A     | 20 A       | 25 A       | 32 A       | 40 A     | 50A        | 63A        |
|----------------|----------|------------|------------|------------|----------|------------|------------|
| 1P÷4P          | <b>2</b> | <b>2,4</b> | <b>2,7</b> | <b>3,2</b> | <b>4</b> | <b>4,5</b> | <b>5,5</b> |

. Impedance per pole (Ω) =  $\frac{P \text{ dissipated}}{I_n^2}$

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

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## 5. GENERAL CHARACTERISTICS *(continued)*:

### Derating of circuit-breakers according to ambient temperature :

. The nominal characteristics of a circuit breaker are modified according to the ambient temperature inside the cabinet or the enclosure where the circuit breaker is located.

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

| In (A) | Ambient Temperature / In |        |      |      |      |      |      |      |      |      |
|--------|--------------------------|--------|------|------|------|------|------|------|------|------|
|        | - 25°C                   | - 10°C | 0°C  | 10°C | 20°C | 30°C | 40°C | 50°C | 60°C | 70°C |
| 0.5    | 0.62                     | 0.6    | 0.57 | 0.55 | 0.52 | 0.5  | 0.47 | 0.42 | 0.40 | 0.38 |
| 1      | 1.5                      | 1.4    | 1.3  | 1.2  | 1.1  | 1    | 0.9  | 0.8  | 0.7  | 0.6  |
| 1.5    | 1.9                      | 1.8    | 1.7  | 1.7  | 1.6  | 1.5  | 1.5  | 1.4  | 1.4  | 1.3  |
| 2      | 2.8                      | 2.6    | 2.5  | 2.3  | 2.2  | 2    | 2    | 1.9  | 1.8  | 1.7  |
| 3      | 3.8                      | 3.6    | 3.5  | 3.3  | 3.2  | 3.0  | 2.9  | 2.8  | 2.7  | 2.6  |
| 3.5    | 4.5                      | 4.2    | 4.0  | 3.9  | 3.7  | 3.5  | 3.4  | 3.3  | 3.2  | 3.1  |
| 5      | 6.4                      | 6.0    | 5.8  | 5.5  | 5.3  | 5.0  | 4.8  | 4.7  | 4.5  | 4.6  |
| 6      | 7.5                      | 7.0    | 6.6  | 6.4  | 6.2  | 6.0  | 5.8  | 5.6  | 5.4  | 5.3  |
| 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 MCB for use with fluorescent lights:

Ferromagnetic and electronic ballasts have a high inrush current for a short time. These currents can cause the tripping of circuit breakers.

At the time of the installation, it should take into account the maximum number of ballasts per circuit breaker that the manufacturers of lamps and ballasts indicate in their catalogues.

### Influence of the altitude:

|                         | ≤2000 m | 3000 m | 4000 m | 5000 m |
|-------------------------|---------|--------|--------|--------|
| Dielectric holding      | 3000 V  | 2500 V | 2000 V | 1500 V |
| Max operational Voltage | 400 V   | 400 V  | 400 V  | 400 V  |
| Derating at 30°C        | none    | none   | none   | none   |

### Derating of MCBs function of the number of devices side by side:

When several MCBs are juxtaposed and operate simultaneously, the thermal evacuation 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 60439-1, NF C 63421 and EN 60439-1 standards.

To avoid using these coefficients, it is necessary to allow a good ventilation and to separate the devices with 0.5 module spacing elements (cat. N° 4 063 07).

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

### Coordination between circuit-breakers 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 230/400V.

| m.c.b. downstream                        |     | Fuse upstream |       |       |       |       |       |       |       |       |       |      |
|--|-----|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|  |     | gG Type       |       |       |       |       |       |       |       |       |       |      |
|  |     | ≤20A          | 25A   | 32A   | 40A   | 50A   | 63A   | 80A   | 100A  | 125A  | 160A  |      |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 100kA         | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 10A | 100kA         | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 13A | 100kA         | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 16A | -             | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 20A | -             | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 25A | -             | -     | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 32A | -             | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 40A | -             | -     | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 50A | -             | -     | -     | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 63A | -             | -     | -     | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 40kA |

| m.c.b. downstream                        |     | Fuse upstream |       |       |       |       |       |       |       |       |       |      |
|--|-----|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|  |     | aM Type       |       |       |       |       |       |       |       |       |       |      |
|  |     | ≤20A          | 25A   | 32A   | 40A   | 50A   | 63A   | 80A   | 100A  | 125A  | 160A  |      |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 100kA         | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 10A | 100kA         | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 13A | 100kA         | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 16A | -             | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 20A | -             | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 25A | -             | -     | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 32A | -             | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 40A | -             | -     | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 50A | -             | -     | -     | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 63A | -             | -     | -     | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 40kA |

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the threshold and size of upstream fuse which must necessarily be higher.

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

### Coordination between modular circuit-breakers, 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 230/400V.

|  |     | m.c.b. upstream      |      |      |      |      |      |      |      |
|--|-----|----------------------|------|------|------|------|------|------|------|
|  |     | DX <sup>3</sup> 25kA |      |      |      |      |      |      |      |
|  |     | B, C and D Curves    |      |      |      |      |      |      |      |
| m.c.b. downstream                        |     | ≤25A                 | 32A  | 40A  | 50A  | 63A  | 80A  | 100A | 125A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 25kA                 | 25kA | 25kA | 25kA | 25kA | 25kA | 25kA | 25kA |
|  | 10A | 25kA                 | 25kA | 25kA | 25kA | 25kA | 25kA | 25kA | 25kA |
|  | 13A | 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 |

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit breakers which must necessarily be higher.

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

### Coordination between modular circuit-breakers, 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 230/400V.

|  |     | m.c.b. upstream      |      |      |      |      |      |                      |      |      |      |      |
|--|-----|----------------------|------|------|------|------|------|----------------------|------|------|------|------|
|  |     | DX <sup>3</sup> 36kA |      |      |      |      |      | DX <sup>3</sup> 50kA |      |      |      |      |
|  |     | C Curve              |      |      |      |      |      | B,C and D Curves     |      |      |      |      |
| m.c.b. downstream                        |     | ≤25A                 | 32A  | 40A  | 50A  | 63A  | 80A  | ≤25A                 | 32A  | 40A  | 50A  | 63A  |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 36kA                 | 36kA | 36kA | 36kA | 36kA | 36kA | 50kA                 | 50kA | 50kA | 50kA | 50kA |
|  | 10A | 36kA                 | 36kA | 36kA | 36kA | 36kA | 36kA | 50kA                 | 50kA | 50kA | 50kA | 50kA |
|  | 13A | 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 | -    | -                    | -    | -    | -    |      |

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit breakers which must necessarily be higher.

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

### Coordination between modular circuit-breakers and MCCBs, three-phase network (+ neutral) 400 / 415 V~ according to IEC/EN60947-2:

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 230/400V.

| m.c.b. downstream                        |     | m.c.c.b. upstream |      |      |      |      |      |         |      |      |      |      |      |
|--|-----|-------------------|------|------|------|------|------|---------|------|------|------|------|------|
|  |     | DPX 125           |      |      |      |      |      | DPX 125 |      |      |      |      |      |
|  |     | 16kA              |      |      |      |      |      | 25kA    |      |      |      |      |      |
|  |     | 16A               | 25A  | 40A  | 63A  | 100A | 125A | 16A     | 25A  | 40A  | 63A  | 100A | 125A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 16kA              | 16kA | 16kA | 16kA | 16kA | 16kA | 25kA    | 25kA | 25kA | 25kA | 25kA | 25kA |
|  | 10A | 16kA              | 16kA | 16kA | 16kA | 16kA | 16kA | 25kA    | 25kA | 25kA | 25kA | 25kA | 25kA |
|  | 13A | 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.b. downstream                        |     | m.c.c.b. upstream |      |      |      |      |      |      |   |      |      |      |      |      |      |
|--|-----|-------------------|------|------|------|------|------|------|---|------|------|------|------|------|------|
|  |     | DPX 125           |      |      |      |      |      |      | DPX <sup>3</sup> 160 / DPX <sup>3</sup> 160 + RCD |      |      |      |      |      |      |
|  |     | 36kA              |      |      |      |      |      |      | 16kA  |      |      |      |      |      |      |
|  |     | 16A               | 25A  | 40A  | 63A  | 100A | 125A | 16A  | 25A   | 40A  | 63A  | 80A  | 100A | 125A | 160A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 25kA              | 25kA | 25kA | 25kA | 25kA | 25kA | 16kA | 16kA  | 16kA | 16kA | 16kA | 16kA | 16kA | 16kA |
|  | 10A | 25kA              | 25kA | 25kA | 25kA | 25kA | 25kA | 16kA | 16kA  | 16kA | 16kA | 16kA | 16kA | 16kA | 16kA |
|  | 13A | 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 |

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit breakers which must necessarily be higher.



# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS (continued):

### Coordination between modular circuit-breakers and MCCBs, three-phase network (+ neutral) 400 / 415 V~ according to IEC/EN60947-2:

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 230/400V.

| m.c.b. downstream                        |     | m.c.c.b. upstream                                 |      |      |      |      |      |      |      |                |      |      |      |      |
|--|-----|---|------|------|------|------|------|------|------|----------------|------|------|------|------|
|  |     | DPX <sup>3</sup> 160 / DPX <sup>3</sup> 160 + RCD |      |      |      |      |      |      |      | DPX 160        |      |      |      |      |
|  |     | 25 - 36 - 50kA                                    |      |      |      |      |      |      |      | 25 - 36 - 50kA |      |      |      |      |
|  |     | 16A   | 25A  | 40A  | 63A  | 80A  | 100A | 125A | 160A | 25A            | 40A  | 63A  | 100A | 125A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 25kA  | 25kA | 25kA | 25kA | 25kA | 25kA | 25kA | 25kA | 25kA           | 25kA | 25kA | 25kA | 25kA |
|  | 10A | 25kA  | 25kA | 25kA | 25kA | 25kA | 25kA | 25kA | 25kA | 25kA           | 25kA | 25kA | 25kA | 25kA |
|  | 13A | 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.b. downstream                        |     | m.c.c.b. upstream |      |      |              |      |      |      |  |      |      |      |           |      |
|--|-----|-------------------|------|------|--------------|------|------|------|--|------|------|------|-----------|------|
|  |     | DPX 250ER         |      |      | DPX 250ER AB |      |      |      | DPX <sup>3</sup> 250 / DPX <sup>3</sup> 250+RCD<br>(Thermal-magnetic & electronic) |      |      |      | DPX 400AB |      |
|  |     | 25 - 36 - 50kA    |      |      | 36kA         |      |      |      | 25 - 36 - 50 - 70kA  |      |      |      | 36kA      |      |
|  |     | 100A              | 160A | 250A | 90A          | 130A | 170A | 240A | 100A   | 160A | 200A | 250A | 320A      | 400A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 25kA              | 25kA | 25kA | 25kA         | 25kA | 25kA | 25kA | 25kA   | 25kA | 25kA | 25kA | 25kA      | 25kA |
|  | 10A | 25kA              | 25kA | 25kA | 25kA         | 25kA | 25kA | 25kA | 25kA   | 25kA | 25kA | 25kA | 25kA      | 25kA |
|  | 13A | 25kA              | 25kA | 25kA | 25kA         | 25kA | 25kA | 25kA | 25kA   | 25kA | 25kA | 25kA | 25kA      | 25kA |
|  | 16A | 25kA              | 25kA | 25kA | 25kA         | 25kA | 25kA | 25kA | 25kA   | 25k□ | 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 | 20kA   | 25kA | 25kA | 25kA | 16kA      | 16kA |

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic (or electronic) threshold and to the size of upstream circuit breakers which must necessarily be higher.

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

### Coordination between modular circuit-breakers and MCCBs, three-phase network (+ neutral) 400 / 415 V~ according to IEC/EN60947-2:

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 230/400V.

| m.c.b. downstream                        |     | m.c.c.b. upstream                                  |      |      |      |      |      |  |      |      |      |      |
|--|-----|--|------|------|------|------|------|--|------|------|------|------|
|  |     | DPX / H / L 250<br>(Thermal-magnetic & electronic) |      |      |      |      |      | DPX / H / L 630<br>(Thermal-magnetic & electronic) |      |      |      |      |
|  |     | 36 – 70 – 100kA                                    |      |      |      |      |      | 36 – 70 – 100kA                                    |      |      |      |      |
|  |     | 25A  | 40A  | 63A  | 100A | 160A | 250A | 250A   | 320A | 400A | 500A | 630A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 25kA   | 25kA | 25kA | 25kA | 25kA | 25kA | 25kA   | 25kA | 25kA | 25kA | 25kA |
|  | 10A | 25kA   | 25kA | 25kA | 25kA | 25kA | 25kA | 25kA   | 25kA | 25kA | 25kA | 25kA |
|  | 13A | 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.b. downstream                        |        | m.c.c.b.. upstream                      |                              |
|--|--------|---|------------------------------|
|  |        | DPX / H / L 1250<br>(Thermal -magnetic) | DPX / H 1600<br>(electronic) |
|  |        | 50 – 70 – 100kA                         | 36 – 70kA                    |
|  |        | 500 to 1250A                            | 630 to 1600A                 |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A    | 25kA                                    | 25kA                         |
|  | 10A    | 25kA                                    | 25kA                         |
|  | 13A    | 25kA                                    | 25kA                         |
|  | 16A    | 25kA                                    | 25kA                         |
|  | 20A    | 25kA                                    | 25kA                         |
|  | 25A    | 20kA                                    | 20kA                         |
|  | 32A    | 15kA                                    | 15kA                         |
|  | 40A    | 15kA                                    | 15kA                         |
|  | 50A    | 12,5kA                                  | 12,5kA                       |
| 63A                                      | 12,5kA | 12,5kA                                  |                              |

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic (or electronic) threshold and to the size of upstream circuit breakers which must necessarily be higher.

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

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

| m.c.b. downstream                        |     | Fuse upstream |       |       |       |       |       |       |       |       |       |      |
|--|-----|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|  |     | gG Type       |       |       |       |       |       |       |       |       |       |      |
|  |     | ≤20A          | 25A   | 32A   | 40A   | 50A   | 63A   | 80A   | 100A  | 125A  | 160A  |      |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 100kA         | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 10A | 100kA         | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 13A | 100kA         | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 16A | -             | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 20A | -             | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 25A | -             | -     | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 32A | -             | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 40A | -             | -     | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 50A | -             | -     | -     | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 63A | -             | -     | -     | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 40kA |

| m.c.b. downstream                        |     | Fuse upstream |       |       |       |       |       |       |       |       |       |      |
|--|-----|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|  |     | aM Type       |       |       |       |       |       |       |       |       |       |      |
|  |     | ≤20A          | 25A   | 32A   | 40A   | 50A   | 63A   | 80A   | 100A  | 125A  | 160A  |      |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 100kA         | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 10A | 100kA         | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 13A | 100kA         | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 16A | -             | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 20A | -             | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 25A | -             | -     | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 32A | -             | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 40A | -             | -     | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 50A | -             | -     | -     | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 40kA |
|  | 63A | -             | -     | -     | -     | -     | -     | 100kA | 100kA | 100kA | 100kA | 40kA |

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the threshold and to the size of upstream fuses which must necessarily be higher.

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

Coordination between modular circuit-breakers, three-phase network (+ neutral) 230 / 240 V~ according to IEC/EN 60947-2:

|  |     | m.c.b. upstream      |      |      |      |      |      |      |      |
|--|-----|----------------------|------|------|------|------|------|------|------|
|  |     | DX <sup>3</sup> 25kA |      |      |      |      |      |      |      |
|  |     | B, C and D Curves    |      |      |      |      |      |      |      |
| m.c.b. downstream                        |     | ≤25A                 | 32A  | 40A  | 50A  | 63A  | 80A  | 100A | 125A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 50kA                 | 50kA | 25kA | 25kA | 25kA | 25kA | 25kA | 25kA |
|  | 10A | 50kA                 | 50kA | 25kA | 25kA | 25kA | 25kA | 25kA | 25kA |
|  | 13A | 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 |

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit breakers which must necessarily be higher.

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

Coordination between modular circuit-breakers, three-phase network (+ neutral) 230 / 240 V~ according to IEC/EN 60947-2:

| m.c.b. downstream                        |     | m.c.b. upstream      |      |      |      |      |                      |      |      |      |      |      |
|--|-----|----------------------|------|------|------|------|----------------------|------|------|------|------|------|
|  |     | DX <sup>3</sup> 36kA |      |      |      |      | DX <sup>3</sup> 50kA |      |      |      |      |      |
|  |     | C Curve              |      |      |      |      | B, C and D Curves    |      |      |      |      |      |
|  |     | ≤25A                 | 32A  | 40A  | 50A  | 63A  | 80A                  | ≤25A | 32A  | 40A  | 50A  | 63A  |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 50kA                 | 50kA | 50kA | 50kA | 50kA | 50kA                 | 50kA | 50kA | 50kA | 50kA | 50kA |
|  | 10A | 50kA                 | 50kA | 50kA | 50kA | 50kA | 50kA                 | 50kA | 50kA | 50kA | 50kA | 50kA |
|  | 13A | 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 | -                    | -    | -    | -    | -    |      |

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit breakers which must necessarily be higher.

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

Coordination between modular circuit-breakers and M.C.C.Bs (Moulded Case Circuit Breakers), three-phase network (+ neutral)  
230 / 240 V~ according to IEC/EN 60947-2:

|  |     | m.c.c.b. upstream |      |      |      |      |      |         |      |      |      |      |      |
|--|-----|-------------------|------|------|------|------|------|---------|------|------|------|------|------|
|  |     | DPX 125           |      |      |      |      |      | DPX 125 |      |      |      |      |      |
|  |     | 25kA              |      |      |      |      |      | 36kA    |      |      |      |      |      |
| m.c.b. downstream                        |     | 16A               | 25A  | 40A  | 63A  | 100A | 125A | 16A     | 25A  | 40A  | 63A  | 100A | 125A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 35kA              | 35kA | 35kA | 35kA | 35kA | 35kA | 40kA    | 40kA | 40kA | 40kA | 40kA | 40kA |
|  | 10A | 35kA              | 35kA | 35kA | 35kA | 35kA | 35kA | 40kA    | 40kA | 40kA | 40kA | 40kA | 40kA |
|  | 13A | 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                                 |      |      |      |      |      |      |      |
|--|-----|---|------|------|------|------|------|------|------|
|  |     | DPX <sup>3</sup> 160 / DPX <sup>3</sup> 160 + RCD |      |      |      |      |      |      |      |
|  |     | 16kA  |      |      |      |      |      |      |      |
| m.c.b. downstream                        |     | 16A   | 25A  | 40A  | 63A  | 80A  | 100A | 125A | 160A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 28kA  | 28kA | 28kA | 28kA | 28kA | 28kA | 28kA | 28kA |
|  | 10A | 28kA  | 28kA | 28kA | 28kA | 28kA | 28kA | 28kA | 28kA |
|  | 13A | 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 |

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit breakers which must necessarily be higher.

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

Coordination between modular circuit-breakers and M.C.C.Bs (Moulded Case Circuit Breakers), three-phase network (+ neutral)  
230 / 240 V~ according to IEC/EN 60947-2:

|  |     | m.c.c.b. upstream                                 |      |      |      |      |      |      |      |
|--|-----|---|------|------|------|------|------|------|------|
|  |     | DPX <sup>3</sup> 160 / DPX <sup>3</sup> 160 + RCD |      |      |      |      |      |      |      |
|  |     | 25kA  |      |      |      |      |      |      |      |
| m.c.b. downstream                        |     | 16A   | 25A  | 40A  | 63A  | 80A  | 100A | 125A | 160A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 40kA  | 40kA | 40kA | 40kA | 40kA | 40kA | 40kA | 40kA |
|  | 10A | 40kA  | 40kA | 40kA | 40kA | 40kA | 40kA | 40kA | 40kA |
|  | 13A | 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                                 |      |      |      |      |      |      |      |
|--|-----|---|------|------|------|------|------|------|------|
|  |     | DPX <sup>3</sup> 160 / DPX <sup>3</sup> 160 + RCD |      |      |      |      |      |      |      |
|  |     | 36 - 50kA   |      |      |      |      |      |      |      |
| m.c.b. downstream                        |     | 16A   | 25A  | 40A  | 63A  | 80A  | 100A | 125A | 160A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 50kA  | 50kA | 50kA | 50kA | 50kA | 50kA | 50kA | 50kA |
|  | 10A | 50kA  | 50kA | 50kA | 50kA | 50kA | 50kA | 50kA | 50kA |
|  | 13A | 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 |

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit breakers which must necessarily be higher.

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

Coordination between modular circuit-breakers and M.C.C.Bs (Moulded Case Circuit Breakers), 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 |      |      |      |      |
| m.c.b. downstream                        |     | 25A               | 40A  | 63A  | 100A | 125A | 25A       | 40A  | 63A  | 100A | 125A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 40kA              | 40kA | 40kA | 40kA | 40kA | 50kA      | 50kA | 50kA | 50kA | 50kA |
|  | 10A | 40kA              | 40kA | 40kA | 40kA | 40kA | 50kA      | 50kA | 50kA | 50kA | 50kA |
|  | 13A | 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 | -         | 50kA | 50kA | 50kA | 50kA |
|  | 32A | -                 | -    | -    | 40kA | 40kA | -         | 50kA | 50kA | 50kA | 50kA |
|  | 40A | -                 | -    | -    | 40kA | 40kA | -         | -    | 50kA | 50kA | 50kA |
|  | 50A | -                 | -    | -    | 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         |      |      |      |
| m.c.b. downstream                        |     | 100A              | 160A | 250A | 100A      | 160A | 250A | 90A          | 130A | 170A | 240A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 40kA              | 40kA | 40kA | 50kA      | 50kA | 50kA | 50kA         | 50kA | 50kA | 50kA |
|  | 10A | 40kA              | 40kA | 40kA | 50kA      | 50kA | 50kA | 50kA         | 50kA | 50kA | 50kA |
|  | 13A | 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 |

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic threshold and to the size of upstream circuit breakers which must necessarily be higher.



# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS (continued):

Coordination between modular circuit-breakers and M.C.C.Bs (Moulded Case Circuit Breakers), three-phase network (+ neutral)  
230 / 240 V~ according to IEC/EN 60947-2:

|  |     | m.c.c.b. upstream  |      |      |      |  |      |      |      |           |      |
|--|-----|--|------|------|------|--|------|------|------|-----------|------|
|  |     | DPX <sup>3</sup> 250 / DPX <sup>3</sup> 250+RCD<br>(Thermal-magnetic & electronic) |      |      |      | DPX <sup>3</sup> 250 / DPX <sup>3</sup> 250+RCD<br>(Thermal-magnetic & electronic) |      |      |      | DPX 400AB |      |
|  |     | 25kA   |      |      |      | 36 – 50 – 70kA   |      |      |      | 36kA      |      |
| m.c.b. downstream                        |     | 100A   | 160A | 200A | 250A | 100A   | 160A | 200A | 250A | 320A      | 400A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 40kA   | 40kA | 40kA | 40kA | 50kA   | 50kA | 50kA | 50kA | 50kA      | 50kA |
|  | 10A | 40kA   | 40kA | 40kA | 40kA | 50kA   | 50kA | 50kA | 50kA | 50kA      | 50kA |
|  | 13A | 40kA   | 40kA | 40kA | 40kA | 50kA   | 50kA | 50kA | 50kA | 50kA      | 50kA |
|  | 16A | 40kA   | 40kA | 40kA | 40kA | 50kA   | 50kA | 50□A | 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<br>(Thermal-magnetic & electronic) |      |      |      |      |      | DPX / H / L 630<br>(Thermal-magnetic & electronic) |      |      |      |      |
|  |     | 36 - 70 – 100kA                                    |      |      |      |      |      | 36 - 70 – 100kA                                    |      |      |      |      |
| m.c.b. downstream                        |     | 25A  | 40A  | 63A  | 100A | 160A | 250A | 250A   | 320A | 400A | 500A | 630A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 50kA   | 50kA | 50kA | 50kA | 50kA | 50kA | 50kA   | 50kA | 50kA | 50kA | 50kA |
|  | 10A | 50kA   | 50kA | 50kA | 50kA | 50kA | 50kA | 50kA   | 50kA | 50kA | 50kA | 50kA |
|  | 13A | 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 |

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic (or electronic) threshold and to the size of upstream circuit breakers which must necessarily be higher.

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

Coordination between modular circuit-breakers and M.C.C.Bs (Moulded Case Circuit Breakers), three-phase network (+ neutral) 230 / 240 V~ according to IEC/EN 60947-2:

|  |     | m.c.c.b. upstream                      |                              |
|--|-----|--|------------------------------|
|  |     | DPX / H / L 1250<br>(Thermal-magnetic) | DPX / H 1600<br>(electronic) |
|  |     | 50 – 70 – 100kA                        | 36 – 70kA                    |
| m.c.b. downstream                        |     | 500 to 1250A                           | 630 to 1600A                 |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 50kA                                   | 50kA                         |
|  | 10A | 50kA                                   | 50kA                         |
|  | 13A | 50kA                                   | 50kA                         |
|  | 16A | 50kA                                   | 50kA                         |
|  | 20A | 50kA                                   | 50kA                         |
|  | 25A | 50kA                                   | 50kA                         |
|  | 32A | 50kA                                   | 50kA                         |
|  | 40A | 50kA                                   | 50kA                         |
|  | 50A | 50kA                                   | 50kA                         |
|  | 63A | 50kA                                   | 50kA                         |

All these values are also valid for circuit breakers associated to RCD add-on modules.

According to the curves and ratings of circuit breakers, attention to the magnetic (or electronic) threshold and to the size of upstream circuit breakers which must necessarily be higher.

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 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 modular circuit breakers and fuses:

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

|  |     | Fuse upstream |      |      |      |      |      |      |      |
|--|-----|---------------|------|------|------|------|------|------|------|
|  |     | gG Type       |      |      |      |      |      |      |      |
| m.c.b. downstream                        |     | 32A           | 40A  | 50A  | 63A  | 80A  | 100A | 125A | 160A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 1300          | 1900 | 2500 | 4000 | 4600 | T    | T    | T    |
|  | 10A | -             | 1600 | 2200 | 3200 | 3600 | 7000 | T    | T    |
|  | 13A | -             | 1400 | 1800 | 2600 | 3000 | 5600 | 8000 | T    |
|  | 16A | -             | 1400 | 1800 | 2600 | 3000 | 5600 | 8000 | T    |
|  | 20A | -             | 1200 | 1500 | 2200 | 2500 | 4600 | 6300 | T    |
|  | 25A | -             | -    | 1300 | 2000 | 2200 | 4100 | 5000 | 9000 |
|  | 32A | -             | -    | 1200 | 1700 | 1900 | 3500 | 4500 | 8000 |
|  | 40A | -             | -    | -    | -    | 1700 | 3000 | 4000 | 6000 |
|  | 50A | -             | -    | -    | -    | 1600 | 2600 | 3500 | 5000 |
| 63A                                      | -   | -             | -    | -    | 2400 | 3300 | 5000 | 2400 |      |

|  |     | Fuse upstream |      |      |      |      |      |      |      |      |
|--|-----|---------------|------|------|------|------|------|------|------|------|
|  |     | aM Type       |      |      |      |      |      |      |      |      |
| m.c.b. downstream                        |     | 25A           | 32A  | 40A  | 50A  | 63A  | 80A  | 100A | 125A | 160A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 1000          | 1600 | 2100 | 3200 | 6200 | T    | T    | T    | T    |
|  | 10A | -             | 1000 | 1700 | 2500 | 5000 | 7800 | T    | T    | T    |
|  | 13A | -             | 1000 | 1400 | 2100 | 4000 | 6000 | 9000 | 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 |      |

- . T = Total discrimination

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

### Selectivity between modular circuit breakers:

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

|  |     | m.c.b. upstream      |           |           |            |            |             |             |             |             |             |             |
|--|-----|----------------------|-----------|-----------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|  |     | DX <sup>3</sup> 25kA |           |           |            |            |             |             |             |             |             |             |
|  |     | B Curve              |           |           |            |            |             |             |             |             |             |             |
| m.c.b. downstream                        |     | 10A                  | 16A       | 20A       | 25A        | 32A        | 40A         | 50A         | 63A         | 80A         | 100A        | 125A        |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | -                    | <b>64</b> | <b>80</b> | <b>100</b> | <b>700</b> | <b>1200</b> | <b>1500</b> | <b>3000</b> | <b>4000</b> | T           | T           |
|  | 10A | -                    | -         | <b>80</b> | <b>100</b> | <b>500</b> | <b>700</b>  | <b>1000</b> | <b>1800</b> | <b>3000</b> | <b>5000</b> | T           |
|  | 13A | -                    | -         | -         | <b>100</b> | <b>400</b> | <b>600</b>  | <b>900</b>  | <b>1500</b> | <b>2500</b> | <b>4000</b> | <b>6000</b> |
|  | 16A | -                    | -         | -         | -          | <b>300</b> | <b>500</b>  | <b>700</b>  | <b>1300</b> | <b>2000</b> | <b>3600</b> | <b>5500</b> |
|  | 20A | -                    | -         | -         | -          | -          | <b>400</b>  | <b>500</b>  | <b>1000</b> | <b>1600</b> | <b>3000</b> | <b>4000</b> |
|  | 25A | -                    | -         | -         | -          | -          | -           | <b>500</b>  | <b>800</b>  | <b>1300</b> | <b>2400</b> | <b>3300</b> |
|  | 32A | -                    | -         | -         | -          | -          | -           | <b>500</b>  | <b>600</b>  | <b>1000</b> | <b>1800</b> | <b>2700</b> |
|  | 40A | -                    | -         | -         | -          | -          | -           | -           | <b>600</b>  | <b>800</b>  | <b>1600</b> | <b>2400</b> |
|  | 50A | -                    | -         | -         | -          | -          | -           | -           | -           | <b>800</b>  | <b>900</b>  | <b>1700</b> |
| 63A                                      | -   | -                    | -         | -         | -          | -          | -           | -           | -           | <b>900</b>  | <b>1200</b> |             |

. T = Total discrimination

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

### Selectivity between modular circuit breakers:

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

|  |     | m.c.b. upstream      |     |     |     |     |      |      |      |      |      |      |
|--|-----|----------------------|-----|-----|-----|-----|------|------|------|------|------|------|
|  |     | DX <sup>3</sup> 25kA |     |     |     |     |      |      |      |      |      |      |
|  |     | C Curve              |     |     |     |     |      |      |      |      |      |      |
| m.c.b. downstream                        |     | 10A                  | 16A | 20A | 25A | 32A | 40A  | 50A  | 63A  | 80A  | 100A | 125A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 75                   | 120 | 150 | 187 | 700 | 1200 | 1500 | 3000 | 4000 | T    | T    |
|  | 10A | -                    | 120 | 150 | 187 | 500 | 700  | 1000 | 1800 | 3000 | 5000 | T    |
|  | 13A | -                    | 120 | 150 | 187 | 400 | 600  | 1200 | 1500 | 2500 | 4000 | 6000 |
|  | 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      |     |     |     |     |      |      |      |      |      |      |
|--|-----|----------------------|-----|-----|-----|-----|------|------|------|------|------|------|
|  |     | DX <sup>3</sup> 25kA |     |     |     |     |      |      |      |      |      |      |
|  |     | D Curve              |     |     |     |     |      |      |      |      |      |      |
| m.c.b. downstream                        |     | 10A                  | 16A | 20A | 25A | 32A | 40A  | 50A  | 63A  | 80A  | 100A | 125A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 120                  | 192 | 240 | 500 | 700 | 1200 | 1500 | 3000 | 4000 | T    | T    |
|  | 10A | -                    | 192 | 240 | 300 | 500 | 700  | 1000 | 1800 | 3000 | 5000 | T    |
|  | 13A | -                    | -   | 240 | 300 | 400 | 600  | 1200 | 1500 | 2500 | 4000 | 6000 |
|  | 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 |

. T = Total discrimination

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

### Selectivity between modular circuit breakers:

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

|  |     | m.c.b. upstream      |            |            |            |            |             |             |             |             |
|--|-----|----------------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
|  |     | DX <sup>3</sup> 36kA |            |            |            |            |             |             |             |             |
|  |     | C Curve              |            |            |            |            |             |             |             |             |
| m.c.b. downstream                        |     | 10A                  | 16A        | 20A        | 25A        | 32A        | 40A         | 50A         | 63A         | 80A         |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | <b>75</b>            | <b>120</b> | <b>170</b> | <b>500</b> | <b>700</b> | <b>1200</b> | <b>1500</b> | <b>3000</b> | <b>4000</b> |
|  | 10A | -                    | <b>120</b> | <b>150</b> | <b>210</b> | <b>500</b> | <b>700</b>  | <b>1000</b> | <b>1800</b> | <b>3000</b> |
|  | 13A | -                    | -          | <b>150</b> | <b>187</b> | <b>300</b> | <b>600</b>  | <b>900</b>  | <b>1500</b> | <b>2500</b> |
|  | 16A | -                    | -          | <b>150</b> | <b>187</b> | <b>300</b> | <b>500</b>  | <b>700</b>  | <b>1300</b> | <b>2000</b> |
|  | 20A | -                    | -          | -          | <b>187</b> | <b>300</b> | <b>400</b>  | <b>500</b>  | <b>1000</b> | <b>1600</b> |
|  | 25A | -                    | -          | -          | -          | <b>240</b> | <b>400</b>  | <b>500</b>  | <b>800</b>  | <b>1300</b> |
|  | 32A | -                    | -          | -          | -          | -          | <b>300</b>  | <b>500</b>  | <b>600</b>  | <b>1000</b> |
|  | 40A | -                    | -          | -          | -          | -          | -           | <b>400</b>  | <b>600</b>  | <b>800</b>  |
|  | 50A | -                    | -          | -          | -          | -          | -           | -           | <b>500</b>  | <b>800</b>  |
|  | 63A | -                    | -          | -          | -          | -          | -           | -           | -           | <b>650</b>  |

|  |     | m.c.b. upstream      |           |            |            |            |             |             |             |
|--|-----|----------------------|-----------|------------|------------|------------|-------------|-------------|-------------|
|  |     | DX <sup>3</sup> 50kA |           |            |            |            |             |             |             |
|  |     | B Curve              |           |            |            |            |             |             |             |
| m.c.b. downstream                        |     | 10A                  | 16A       | 20A        | 25A        | 32A        | 40A         | 50A         | 63A         |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | -                    | <b>64</b> | <b>170</b> | <b>500</b> | <b>700</b> | <b>1200</b> | <b>1500</b> | <b>3000</b> |
|  | 10A | -                    | -         | <b>150</b> | <b>210</b> | <b>500</b> | <b>700</b>  | <b>1000</b> | <b>1800</b> |
|  | 13A | -                    | -         | -          | <b>200</b> | <b>400</b> | <b>600</b>  | <b>1200</b> | <b>1500</b> |
|  | 16A | -                    | -         | -          | -          | <b>300</b> | <b>500</b>  | <b>700</b>  | <b>1300</b> |
|  | 20A | -                    | -         | -          | -          | -          | <b>400</b>  | <b>500</b>  | <b>1000</b> |
|  | 25A | -                    | -         | -          | -          | -          | -           | <b>500</b>  | <b>800</b>  |
|  | 32A | -                    | -         | -          | -          | -          | -           | <b>500</b>  | <b>600</b>  |
|  | 40A | -                    | -         | -          | -          | -          | -           | -           | <b>600</b>  |
|  | 50A | -                    | -         | -          | -          | -          | -           | -           | -           |
|  | 63A | -                    | -         | -          | -          | -          | -           | -           | -           |

. T = Total discrimination

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

### Selectivity between modular circuit breakers:

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

|  |     | m.c.b. upstream      |     |     |     |     |      |      |      |
|--|-----|----------------------|-----|-----|-----|-----|------|------|------|
|  |     | DX <sup>3</sup> 50kA |     |     |     |     |      |      |      |
|  |     | C Curve              |     |     |     |     |      |      |      |
| m.c.b. downstream                        |     | 10A                  | 16A | 20A | 25A | 32A | 40A  | 50A  | 63A  |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 75                   | 120 | 170 | 500 | 700 | 1200 | 1500 | 3000 |
|  | 10A | -                    | 120 | 150 | 210 | 500 | 700  | 1000 | 1800 |
|  | 13A | -                    | 120 | 150 | 200 | 400 | 600  | 1200 | 1500 |
|  | 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      |     |     |     |     |      |      |      |
|--|-----|----------------------|-----|-----|-----|-----|------|------|------|
|  |     | DX <sup>3</sup> 50kA |     |     |     |     |      |      |      |
|  |     | D Curve              |     |     |     |     |      |      |      |
| m.c.b. downstream                        |     | 10A                  | 16A | 20A | 25A | 32A | 40A  | 50A  | 63A  |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 120                  | 192 | 240 | 500 | 700 | 1200 | 1500 | 3000 |
|  | 10A | -                    | 192 | 240 | 300 | 500 | 700  | 1000 | 1800 |
|  | 13A | -                    | -   | 240 | 300 | 400 | 600  | 1200 | 1500 |
|  | 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 | -                    | -   | -   | -   | -   | -    | -    | -    |

. T = Total discrimination

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS (continued):

### Selectivity between M.C.Bs and M.C.C.Bs (Moulded Case Circuit Breakers):

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

| m.c.b. downstream                        |     | m.c.c.b. upstream |      |      |      |      |      |                |      |      |      |      |
|--|-----|-------------------|------|------|------|------|------|----------------|------|------|------|------|
|  |     | DPX 125           |      |      |      |      |      | DPX 160        |      |      |      |      |
|  |     | 16 - 25 - 36kA    |      |      |      |      |      | 25 - 36 - 50kA |      |      |      |      |
|  |     | 16A               | 25A  | 40A  | 63A  | 100A | 125A | 25A            | 40A  | 63A  | 100A | 160A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | 6000              | 6000 | 6000 | 6000 | T    | T    | T              | T    | T    | T    | T    |
|  | 10A | 5000              | 5000 | 5000 | 5000 | 6000 | 6000 | 7500           | 7500 | 7500 | 7000 | T    |
|  | 13A | -                 | 4000 | 4000 | 4000 | 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 |

| m.c.b. downstream                        |     | m.c.c.b. upstream                                  |      |      |      |      |      |      |      |                |      |      |
|--|-----|--|------|------|------|------|------|------|------|----------------|------|------|
|  |     | DPX <sup>3</sup> 160<br>DPX <sup>3</sup> 160 + RCD |      |      |      |      |      |      |      | DPX 250ER      |      |      |
|  |     | 16 - 25 - 36 - 50kA                                |      |      |      |      |      |      |      | 25 - 39 - 50kA |      |      |
|  |     | 16A  | 25A  | 40A  | 63A  | 80A  | 100A | 125A | 160A | 100A           | 160A | 250A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | T  | T    | T    | T    | T    | T    | T    | T    | T              | T    | T    |
|  | 10A | 5000   | T    | T    | T    | T    | T    | T    | T    | T              | T    | T    |
|  | 13A | -  | 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 |

. T = Total discrimination



# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS (continued):

### Selectivity between M.C.Bs and M.C.C.Bs (Moulded Case Circuit Breakers):

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

| m.c.b. downstream                        |     | m.c.c.b. upstream |      |      |      |  |      |      |      |      |      |
|--|-----|-------------------|------|------|------|--|------|------|------|------|------|
|  |     | DPX 250ER AB      |      |      |      | DPX 250 / H / L<br>(Thermal-Magnetic & electronic) |      |      |      |      |      |
|  |     | 25kA              |      |      |      | 36 - 70 - 100kA                                    |      |      |      |      |      |
|  |     | 90A               | 130A | 170A | 240A | 25A  | 40A  | 63A  | 100A | 160A | 250A |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | T                 | T    | T    | T    | 6000   | 6000 | 6000 | T    | T    | T    |
|  | 10A | T                 | T    | T    | T    | 5000   | 5000 | 5000 | T    | T    | T    |
|  | 13A | T                 | T    | T    | T    | 4000   | 4000 | 4000 | T    | T    | T    |
|  | 16A | T                 | T    | T    | T    | 4000   | 4000 | 4000 | T    | T    | T    |
|  | 20A | T                 | T    | T    | T    | -  | 4000 | 4000 | 8000 | T    | T    |
|  | 25A | T                 | T    | T    | T    | -  | 3000 | 3000 | 6000 | T    | T    |
|  | 32A | T                 | T    | T    | T    | -  | -    | 2000 | 5000 | T    | T    |
|  | 40A | 4000              | T    | T    | T    | -  | -    | 2000 | 5000 | T    | T    |
|  | 50A | 4000              | 4000 | T    | T    | -  | -    | -    | 4000 | 8000 | T    |
|  | 63A | 3000              | 3000 | T    | T    | -  | -    | -    | 4000 | 8000 | T    |

| m.c.b. downstream                        |     | m.c.c.b. upstream  |      |      |      |           |      |  |              |                  |                              |
|--|-----|--|------|------|------|-----------|------|--|--------------|------------------|------------------------------|
|  |     | DPX <sup>3</sup> 250<br>DPX <sup>3</sup> 250 + diff<br>(Thermal-Magnetic & electronic) |      |      |      | DPX 400AB |      | DPX / H / L 630<br>(Thermal-Magnetic & electronic) |              | DPX / H / L 1250 | DPX / H 1600<br>(electronic) |
|  |     | 25 - 36 - 50 - 70kA  |      |      |      | 36kA      |      | 36 - 70 - 100kA                                    |              | 36 - 70 - 100kA  | 36 - 70kA                    |
|  |     | 100A   | 160A | 200A | 250A | 320A      | 400A | 160 to 630A  | 500 to 1250A | 630 to 1600A     |                              |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | T  | T    | T    | T    | T         | T    | T  | T            | T                |                              |
|  | 10A | T  | T    | T    | T    | T         | T    | T  |              | T                |                              |
|  | 13A | T  | T    | T    | T    | T         | T    | T  |              | T                |                              |
|  | 16A | T  | T    | T    | T    | T         | T    | T  | T            | T                |                              |
|  | 20A | 8000   | T    | T    | T    | T         | T    | T  | T            | T                |                              |
|  | 25A | 6000   | T    | T    | T    | T         | T    | T  | T            | T                |                              |
|  | 32A | 5000   | T    | T    | T    | T         | T    | T  | T            | T                |                              |
|  | 40A | 5000   | T    | T    | T    | T         | T    | T  | T            | T                |                              |
|  | 50A | 4000   | 8000 | T    | T    | T         | T    | T  | T            | T                |                              |
|  | 63A | 4000   | 8000 | T    | T    | T         | T    | T  | T            | T                |                              |

. T = Total discrimination

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 5. GENERAL CHARACTERISTICS *(continued)*:

### Selectivity between M.C.Bs and M.C.C.Bs (Moulded Case Circuit Breakers):

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

|  |     | m.c.c.b. upstream  |      |      |      |           |      |   |                  |                              |
|--|-----|--|------|------|------|-----------|------|---|------------------|------------------------------|
|  |     | DPX <sup>3</sup> 250<br>DPX <sup>3</sup> 250 + diff<br>(Thermal-Magnetic & electronic) |      |      |      | DPX 400AB |      | DPX / H / L 630<br>(Thermal-Magnetic<br>& electronic) | DPX / H / L 1250 | DPX / H 1600<br>(electronic) |
|  |     | 25 - 36 - 50 - 70kA  |      |      |      | 36kA      |      | 36 - 70 - 100kA                                       | 36 - 70 - 100kA  | 36 - 70kA                    |
| m.c.b. downstream                        |     | 100A   | 160A | 200A | 250A | 320A      | 400A | 160 to 630A   | 500 to 1250A     | 630 to 1600A                 |
| DX <sup>3</sup> 10000A<br>B and C Curves | ≤6A | T  | T    | T    | T    | T         | T    | T   | T                | T                            |
|  | 10A | T  | T    | T    | T    | T         | T    | T   |                  | T                            |
|  | 13A | T  | T    | T    | T    | T         | T    | T   |                  | T                            |
|  | 16A | T  | T    | T    | T    | T         | T    | T   | T                | T                            |
|  | 20A | 8000   | T    | T    | T    | T         | T    | T   | T                | T                            |
|  | 25A | 6000   | T    | T    | T    | T         | T    | T   | T                | T                            |
|  | 32A | 5000   | T    | T    | T    | T         | T    | T   | T                | T                            |
|  | 40A | 5000   | T    | T    | T    | T         | T    | T   | T                | T                            |
|  | 50A | 4000   | 8000 | T    | T    | T         | T    | T   | T                | T                            |
|  | 63A | 4000   | 8000 | T    | T    | T         | T    | T   | T                | T                            |

. T = Total discrimination

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 6. COMPLIANCE AND APPROVALS

### In accordance with standards:

- . EN/IEC 60898-1 with 10000A breaking capacity
- . CEE guidelines : 73/23/CEE + 93/68/CEE
- . Legrand circuit-breakers can be used under the conditions of use as defined by EN/IEC 60947.
- . The performance of circuit breakers can be influenced by particular climates: hot dry, cold dry, hot humid, salt fog atmosphere

### Classification according to Annex Q (standard IEC/EN 60947-1) :

- . Category C with a range test temperature -25 °C / +70 °C
- . salt fog atmosphere according IEC 60068-2-52

### Environment respect – Compliance with CEE directives:

- . Compliance with Directive 2002/95/EC of 27/01/03 called "RoHS" which provides for the banning of hazardous substances such as lead, mercury, cadmium, hexavalent chromium, brominated flame retardants polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) from 1<sup>st</sup> July 2006
- . Compliance with Directive 91/338/CEE of 18/06/91 and Decree 94-647 of 27/07/04

### Plastic materials :

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

### Packaging:

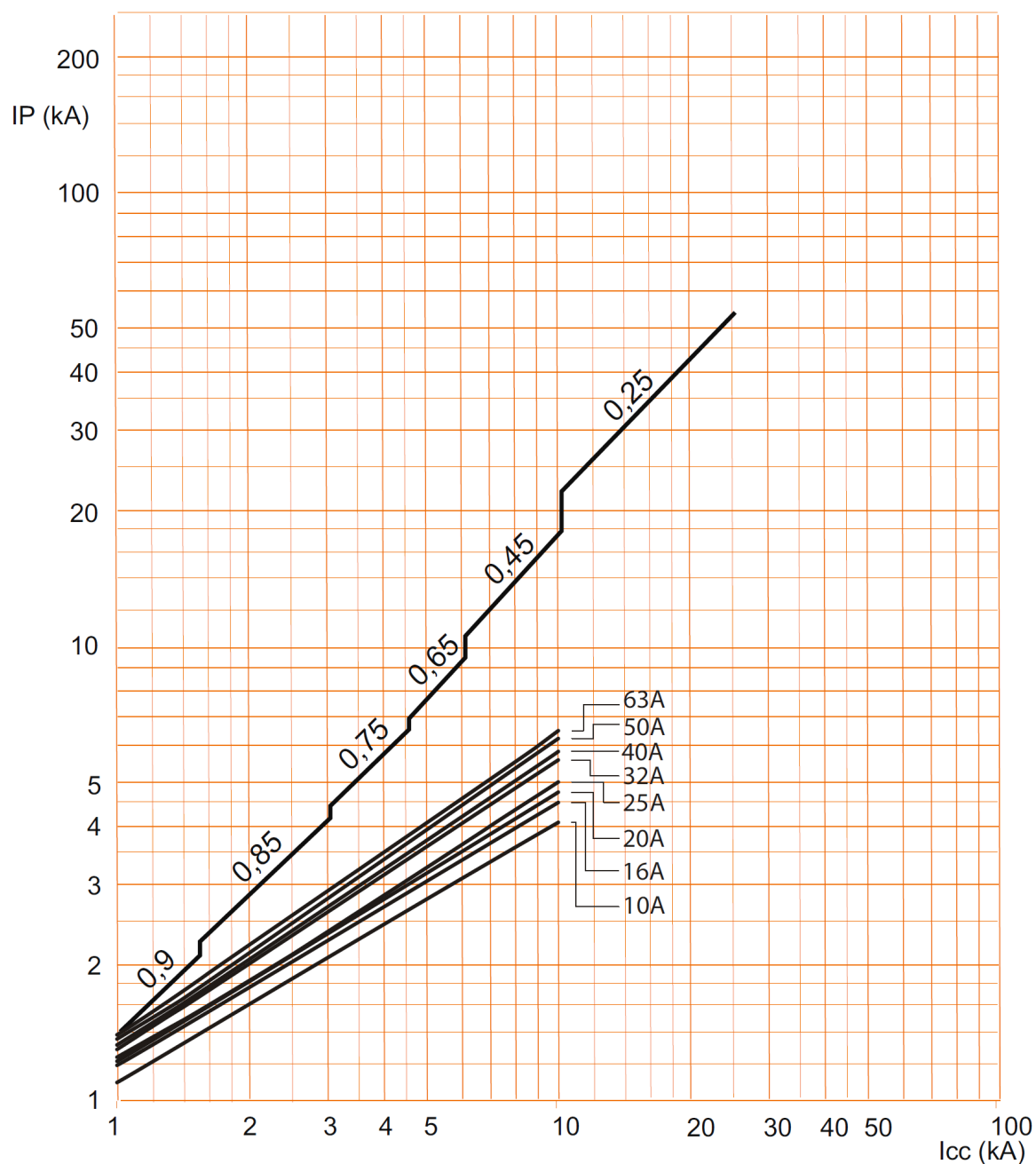
- . Design and manufacture of packaging in accordance with Decree 98-638 of 07.20.98 and Directive 94/62/EC

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 7. CHARACTERISTIC CURVES

Limiting current curve: circuit breakers B and C curves:



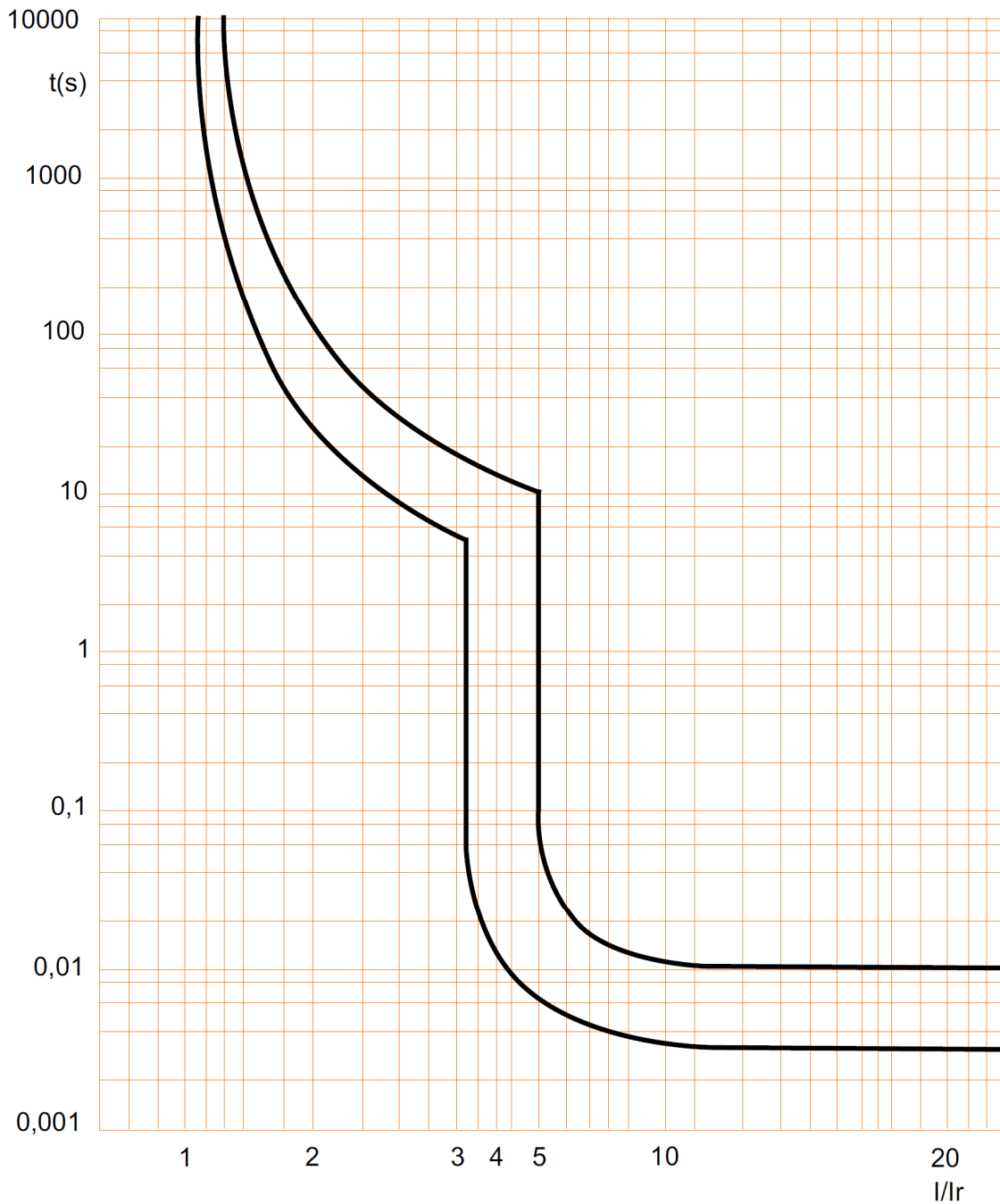
- . Icc = Square value of symmetric component of the short circuit current ( kA ).
- . IP = Max peak value ( kA )

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

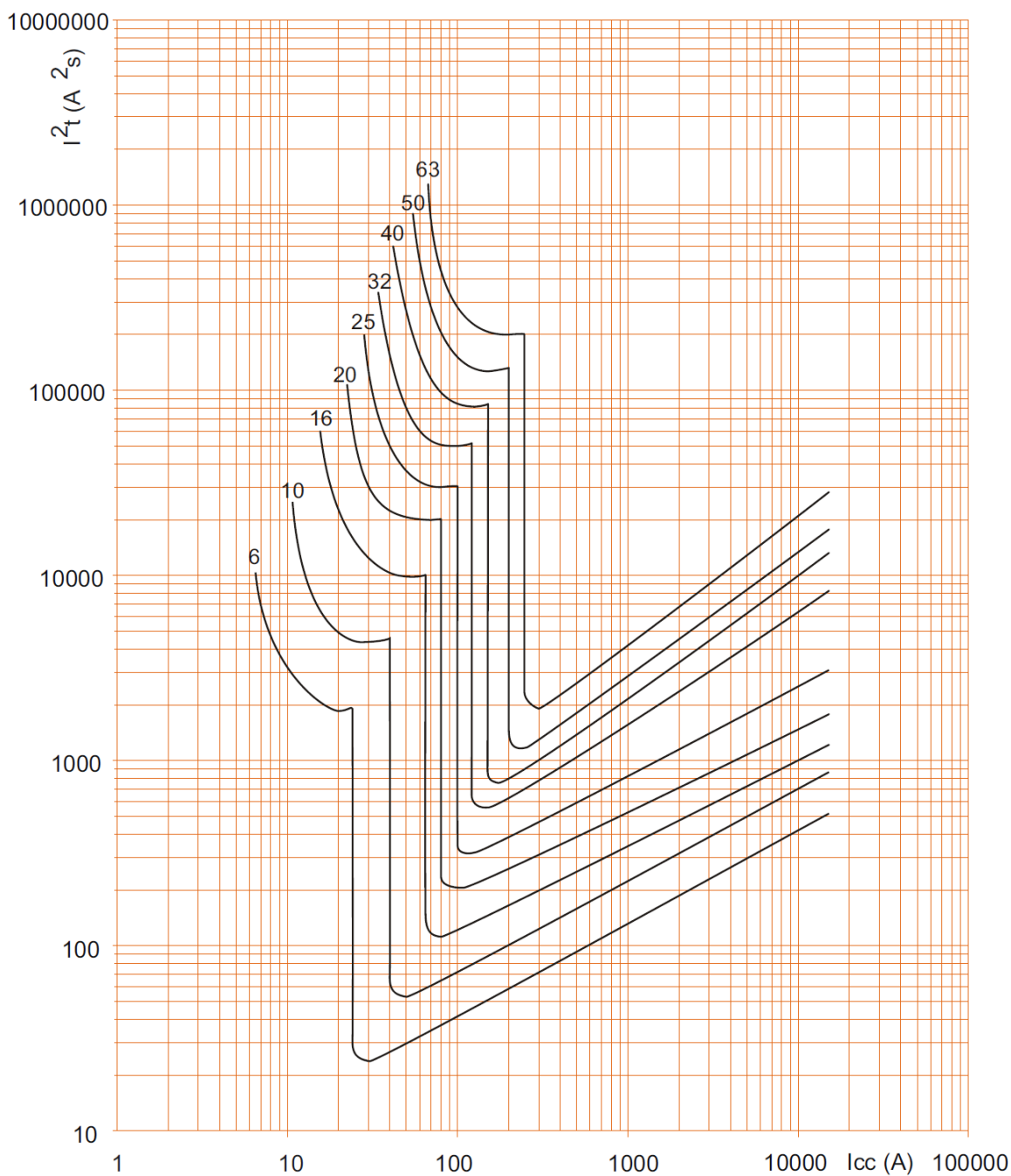
## 7. CHARACTERISTIC CURVES *(continued)*

Operating characteristic of circuit breakers B curve:



7. CHARACTERISTIC CURVES (continued)

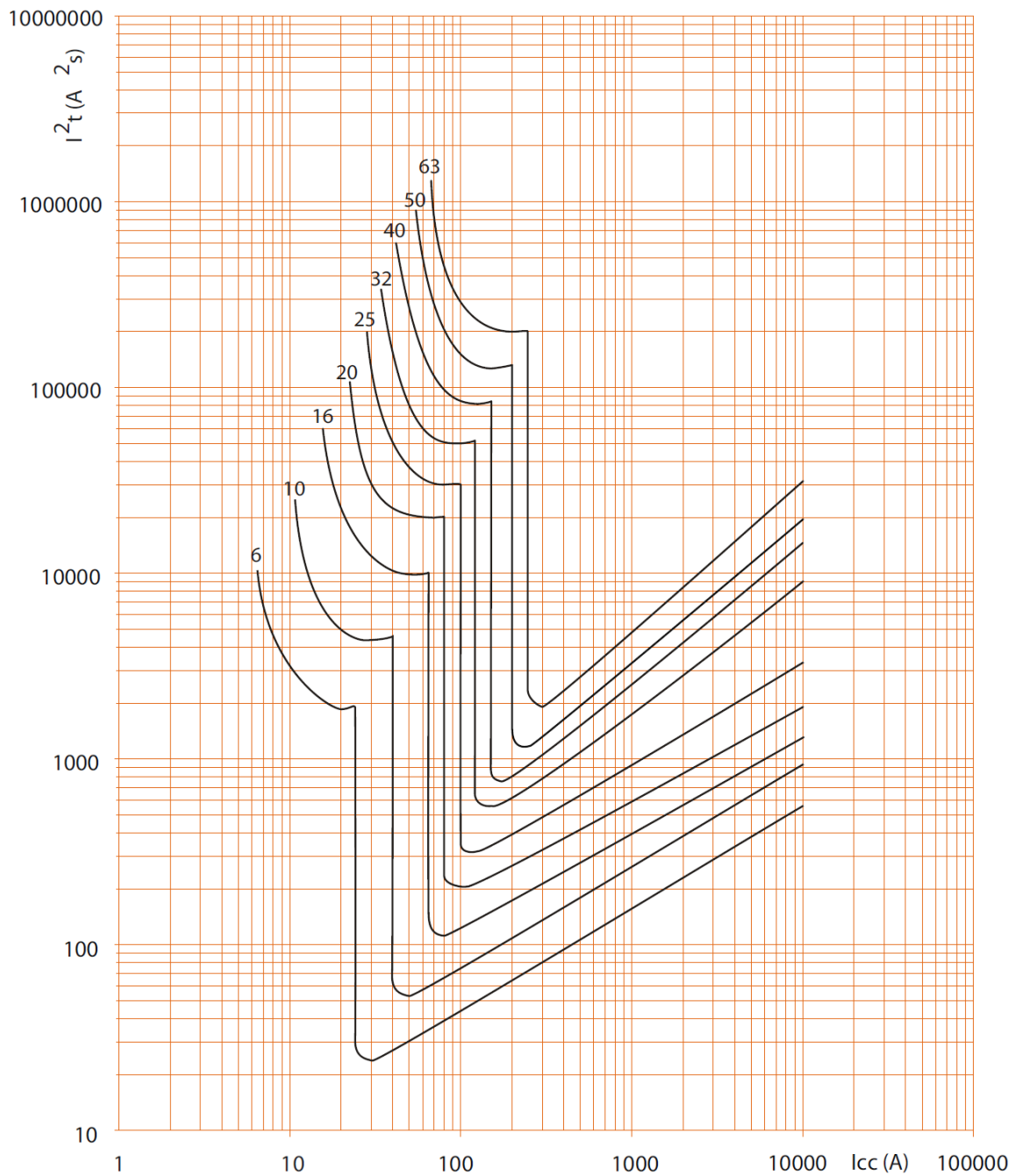
. Limiting thermal energy curve of circuit breakers B curve, 2P (230V~ / 50Hz):



.  $I_{cc}$  = Square value of symmetric component of the short circuit current ( kA ).  
 .  $I^2t$  = Thermal energy limited ( $A^2s$ ).

7. CHARACTERISTIC CURVES (continued)

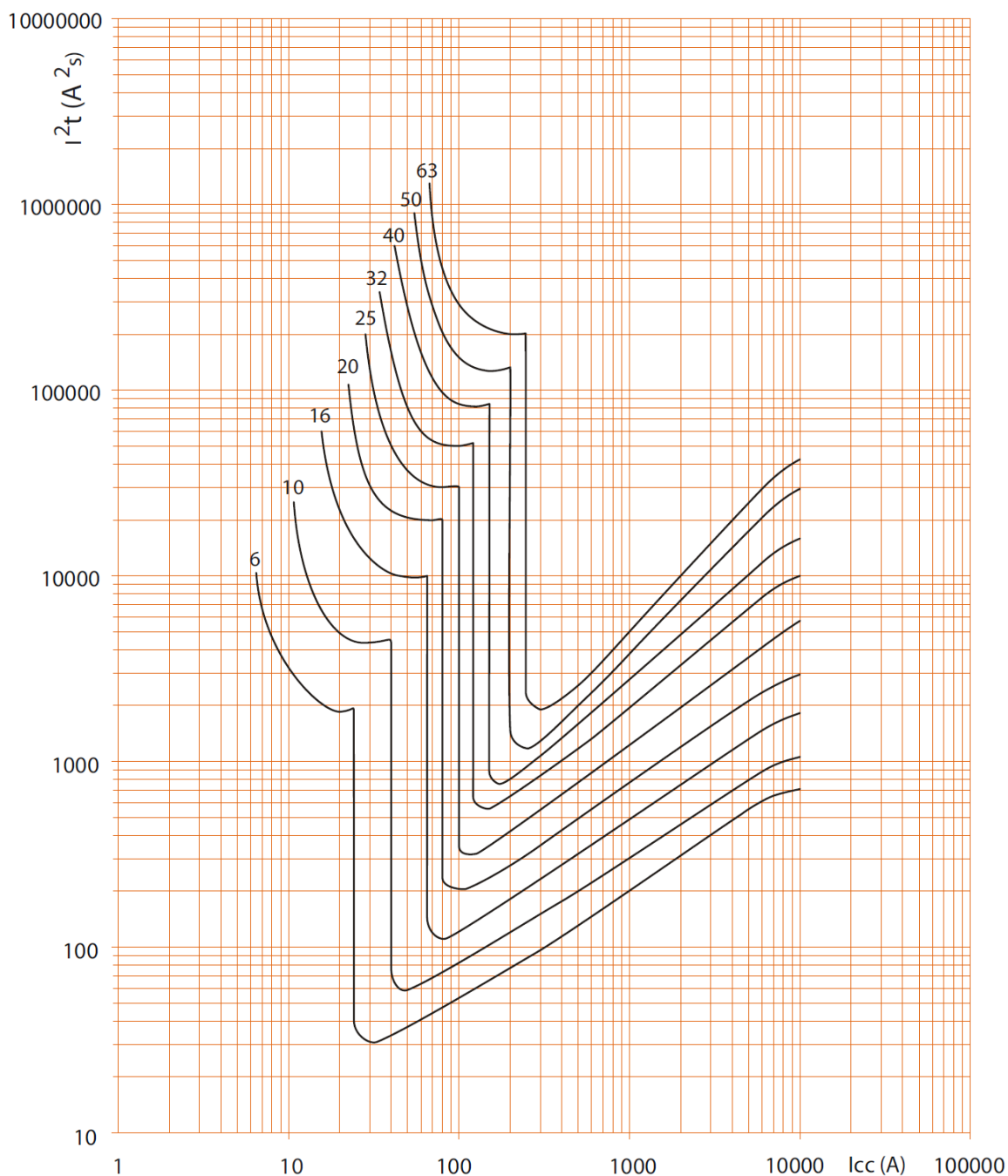
. Limiting thermal energy curve of circuit breakers B curve, 2P (400V~ / 50Hz) :



.  $I_{cc}$  = Square value of symmetric component of the short circuit current ( kA ).  
.  $I^2t$  = Thermal energy limited ( $A^2s$ ).

7. CHARACTERISTIC CURVES (continued)

. Limiting thermal energy curve of circuit breakers B curve, 3P / 4P (400V~ / 50Hz) :

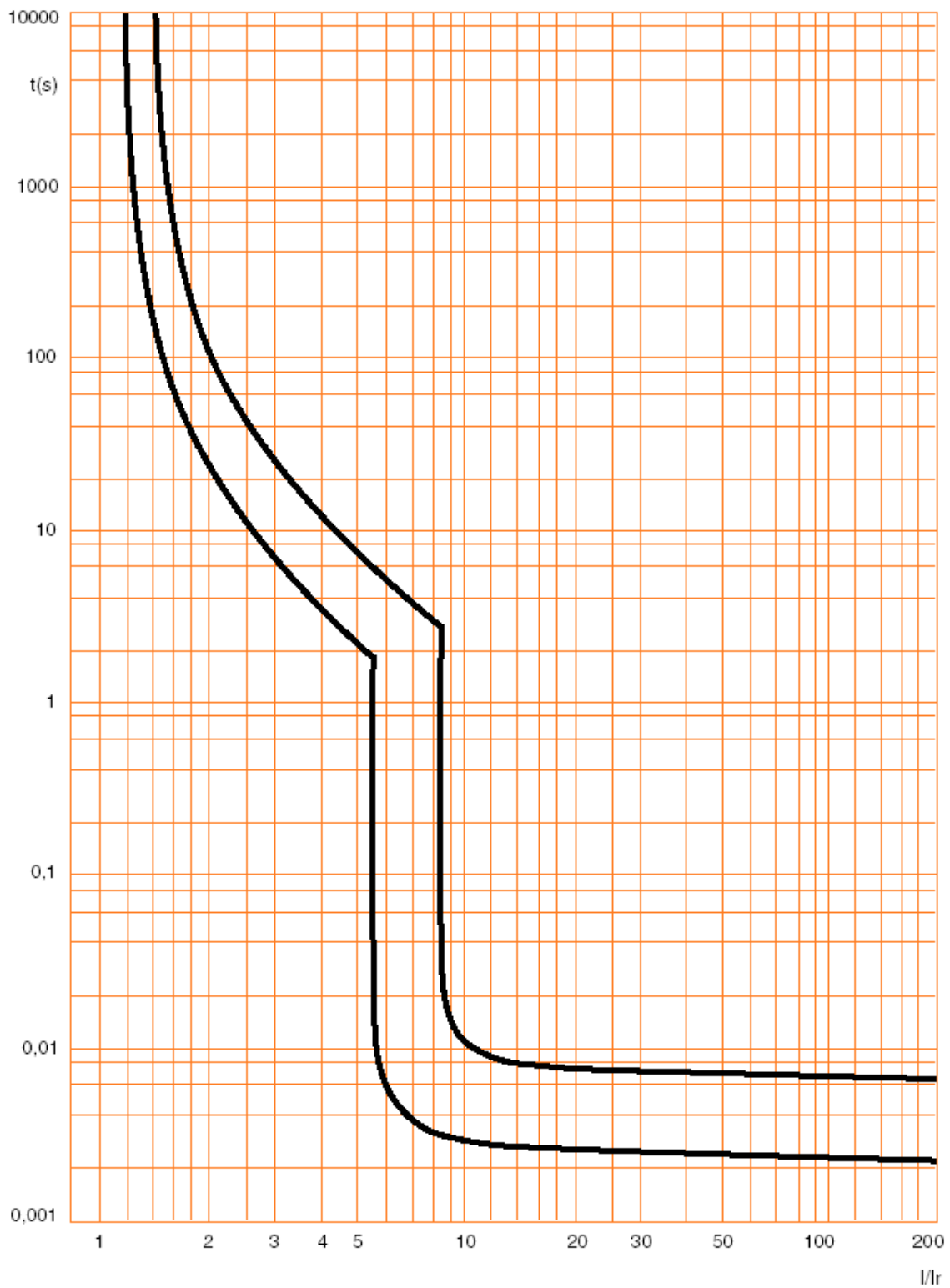


.  $I_{cc}$  = Square value of symmetric component of the short circuit current ( kA ).  
.  $I^2t$  = Thermal energy limited ( $A^2s$ ).



7. CHARACTERISTIC CURVES (continued)

Operating characteristic of circuit breakers C curve:

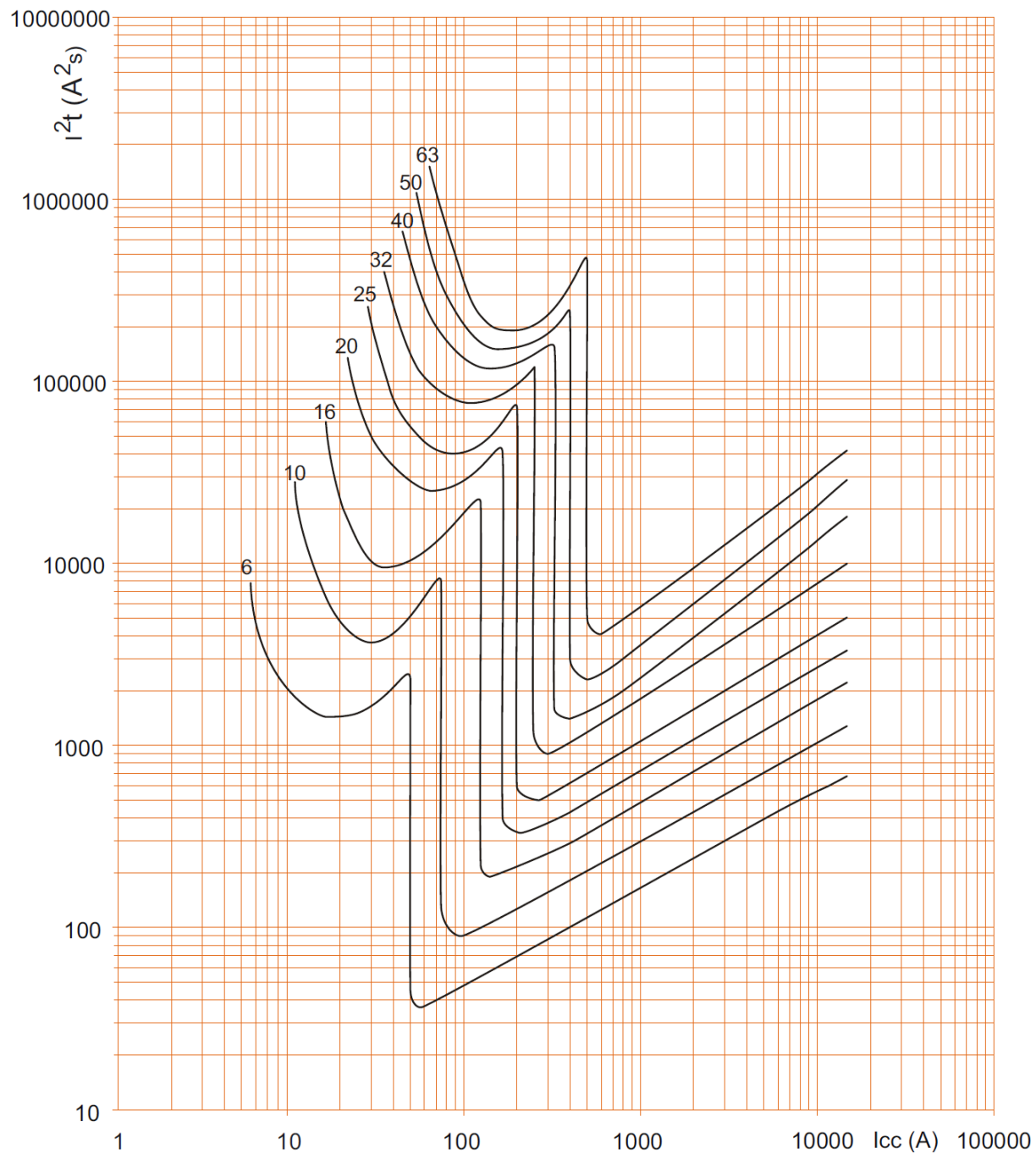


# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 7. CHARACTERISTIC CURVES (continued)

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



.  $I_{cc}$  = Square value of symmetric component of the short circuit current ( kA ).

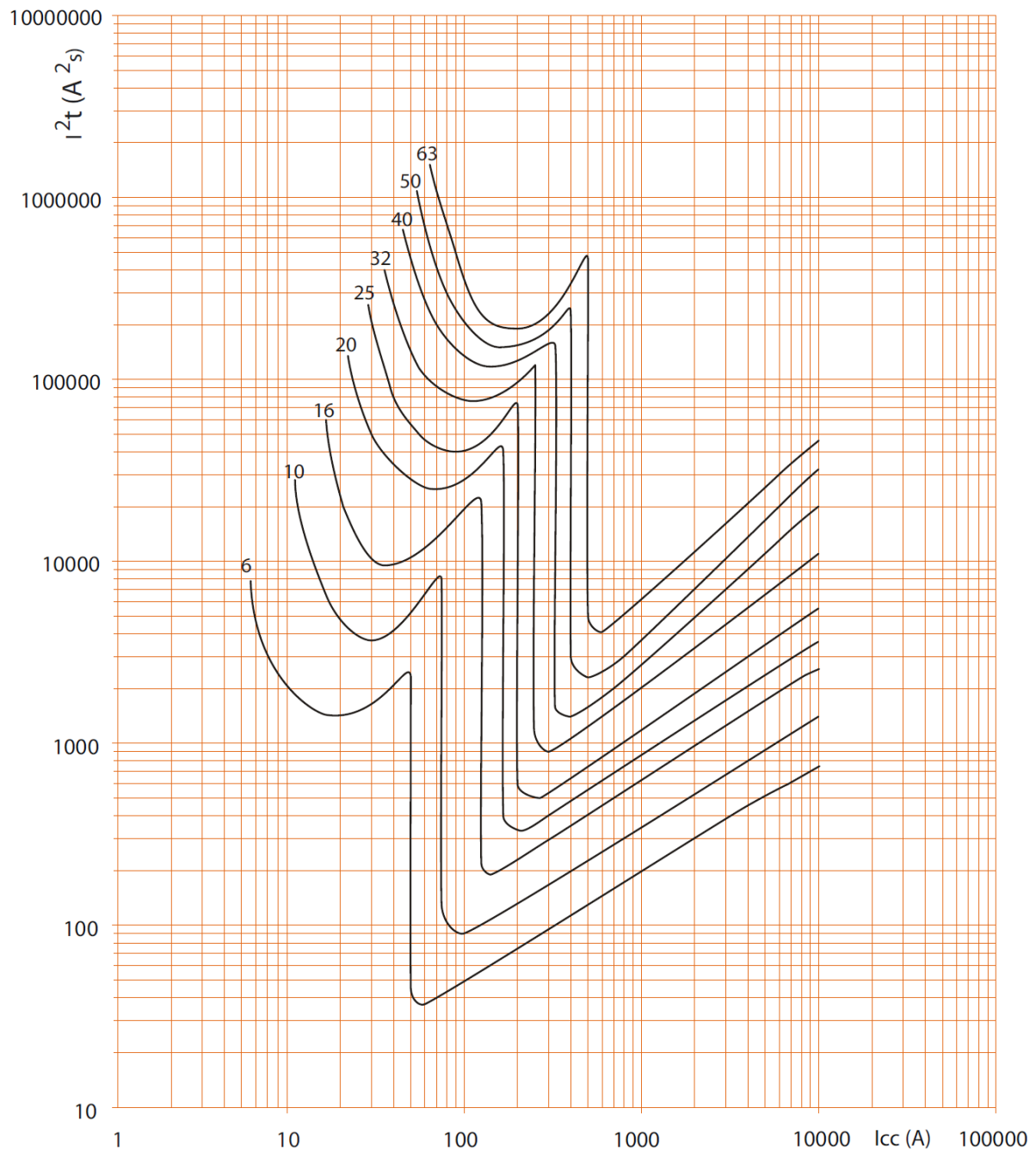
.  $I^2t$  = Thermal energy limited ( $A^2s$ ).

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 7. CHARACTERISTIC CURVES (continued)

. Limiting thermal energy curve of circuit breakers C curve , 2P (400V~ / 50Hz) :



.  $I_{cc}$  = Square value of symmetric component of the short circuit current ( kA ).

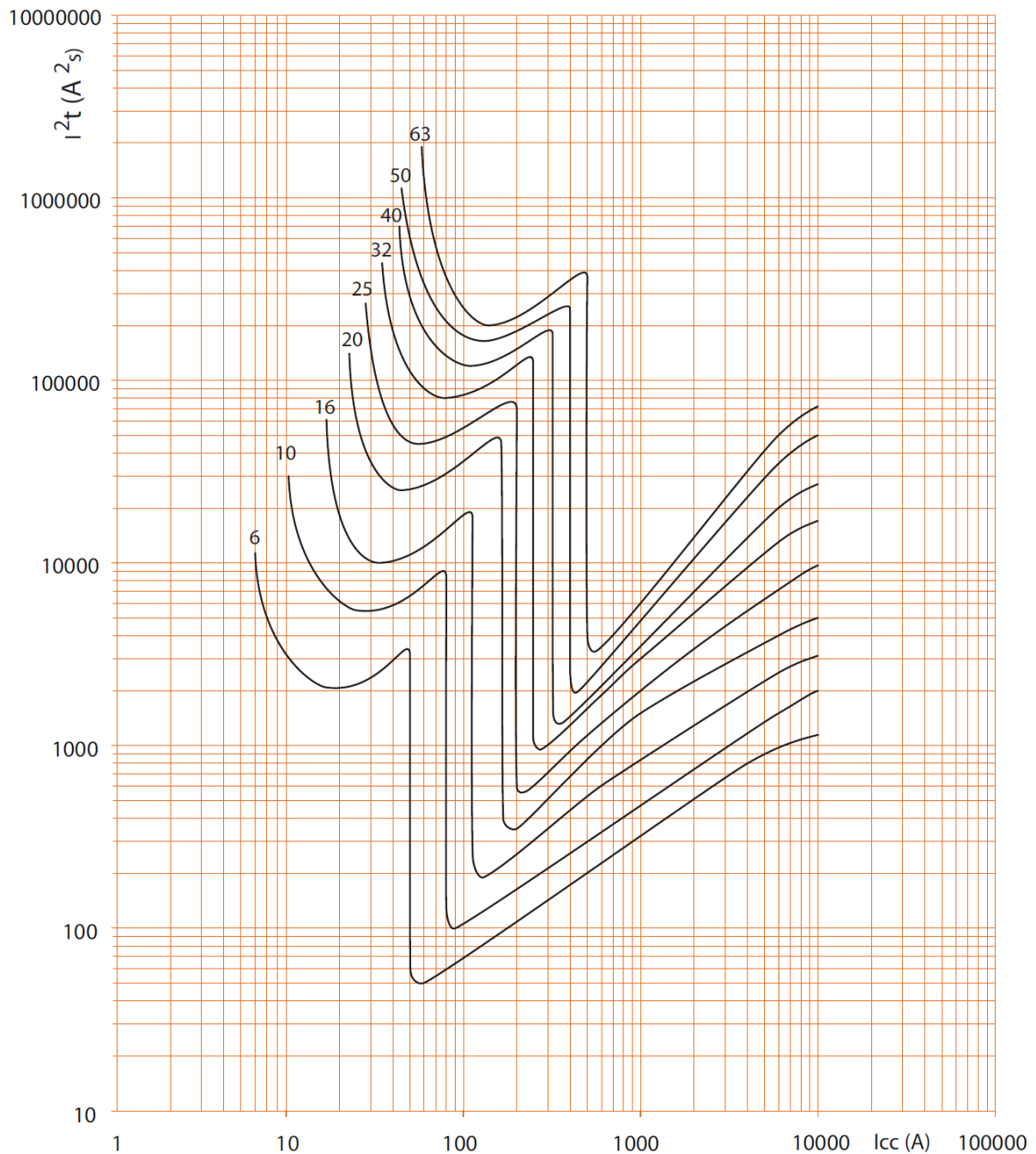
.  $I^2t$  = Thermal energy limited ( $A^2s$ ).

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 7. CHARACTERISTIC CURVES (continued)

. Limiting thermal energy curve of circuit breakers C curve , 1P / 3P / 4P (400V~ / 50Hz) :



.  $I_{cc}$  = Square value of symmetric component of the short circuit current ( kA ).

.  $I^2t$  = Thermal energy limited ( $A^2s$ ).

# Circuit breaker DX<sup>3</sup> 10000 A up to 63A monoconnect (1 module per pole)

Cat. N° (s) : 4 088 64 to 4 093 42

## 8. AUXILIARIES AND ACCESSORIES

### Coupling with RCD add-on modules up to 63A:

| m.c.b. | r.c.d. |    |    |
|--------|--------|----|----|
|        | 2P     | 3P | 4P |
| 2P     | X      | -  | -  |
| 3P     | -      | X  | -  |
| 4P     | -      | -  | X  |

### Wiring accessories:

- . Pin busbar HX<sup>3</sup> traditional.
- . Sealable screw cover (cat n° 4 063 04).
- . Insulating shields (cat n° 4 063 05)
- . Dispatcher row Lexiclic
- . Dispatcher row HX<sup>3</sup>.

### Signal 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).
- . Overvoltage release (1 module – cat n° 4 062 86).
- . Autonomous shunt trip for NC push-button (1 module - cat n° 4 062 84 / 87).

### Motor driven control modules

- . Motor driven control 24-48V / 230V (1 module – cat n° 4 062 90 /91)
- . Motor driven control module with automatic resetting integrated (2 modules – cat n° 4 062 93 /95)

### Possible combinations of m.c.b and auxiliaries:

- . Auxiliaries are clipped on 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 / 86 /87).
- . One remote control or Stop & Go motor driven remote control
- . 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

## 8. AUXILIARIES AND ACCESSORIES (continued)

### Sealing:

- . Possible in "Open" position (OFF) or "Close" position (ON).

### Locking:

- . By 5 mm padlock (cat. N° 4 063 13) or 6 mm padlock (cat. N° 0 227 97) with padlock support (cat. N° 0 044 42) in "Open" position (OFF).

### Installation software:

- . XL PRO<sup>3</sup>