

DPX³ 250

Thermal magnetic and trip-free switches

DPX³-I 250

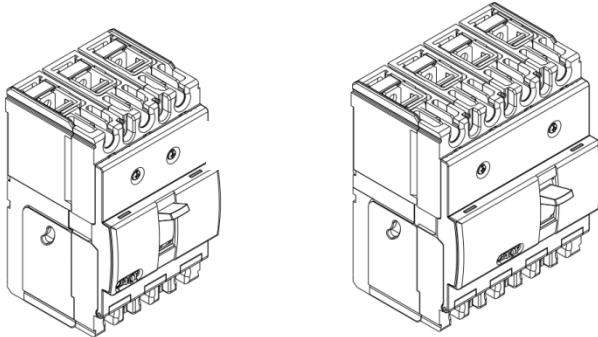
Reference(s) : 420 205/ 207/ 208/ 209/ 215/ 217/ 218/ 219

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1. USE

DPX³ "moulded case" circuit breaker offers optimal solutions to answer to protection requirements of tertiary and industrial installations.

2. RANGE

Circuit breakers

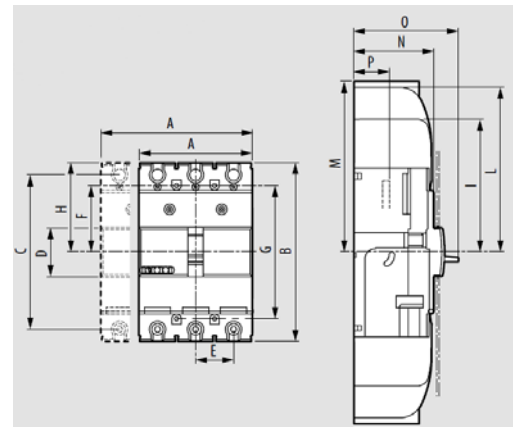
| I _n (A) | 25 kA | | 36 kA | |
|--------------------|----------|----------|----------|----------|
| | 3P | 4P | 3P | 4P |
| 100 | 4 202 05 | 4 202 15 | 4 202 35 | 4 202 45 |
| 160 | 4 202 07 | 4 202 17 | 4 202 37 | 4 202 47 |
| 200 | 4 202 08 | 4 202 18 | 4 202 38 | 4 202 48 |
| 250 | 4 202 09 | 4 202 19 | 4 202 39 | 4 202 49 |
| I _n (A) | 50 kA | | 70 kA | |
| | 3P | 4P | 3P | 4P |
| 100 | 4 202 65 | 4 202 75 | 4 206 05 | 4 206 15 |
| 160 | 4 202 67 | 4 202 77 | 4 206 07 | 4 206 17 |
| 200 | 4 202 68 | 4 202 78 | 4 206 08 | 4 206 18 |
| 250 | 4 202 69 | 4 202 79 | 4 206 09 | 4 206 19 |

Switches

| I _n (A) | 3P | 4P |
|--------------------|----------|----------|
| 160 | 4 202 99 | 4 203 00 |

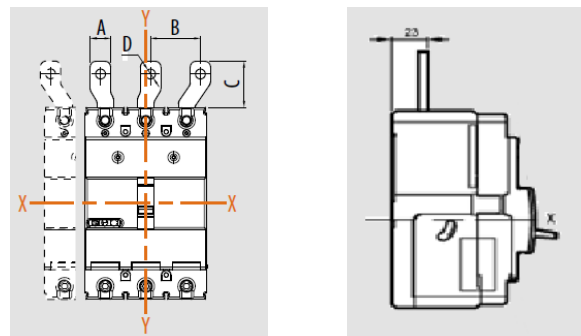
3. DIMENSIONS

Fixed version



| | A | B | C | D | E | F | G | H | I | L | N | O | P |
|----|-----|-----|-------|----|----|------|-----|------|-------|-----|----|-----|----|
| 3P | 105 | 165 | 142,5 | 45 | 35 | 61,5 | 123 | 82,5 | 112,5 | 150 | 74 | 100 | 18 |
| 4P | 140 | 165 | 142,5 | 45 | 35 | 61,5 | 123 | 82,5 | 112,5 | 150 | 74 | 100 | 18 |

Fixed version, front terminals



| A | B | C | D |
|----|------|-------|----|
| 33 | 48,5 | 54,75 | 13 |

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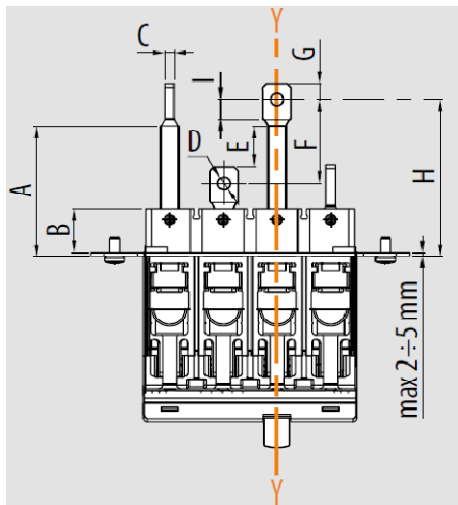
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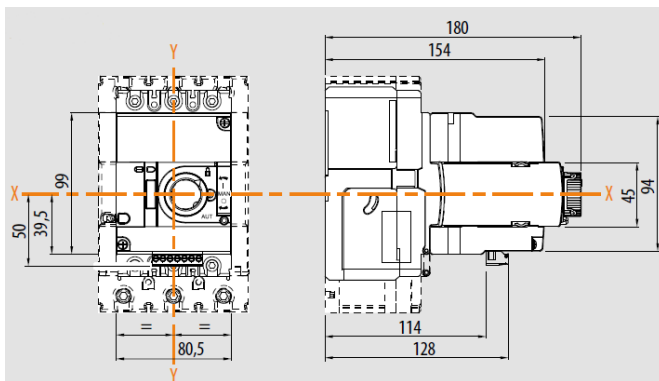
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Fixed version, rear terminals

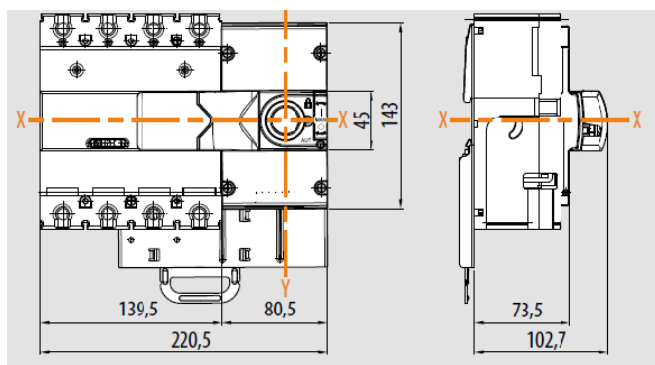


| A | B | C | D | E | F | G | H | I |
|------|----|---|-----|------|----|----|----|----|
| 66,5 | 22 | 6 | 8,4 | 15,5 | 44 | 15 | 79 | 10 |

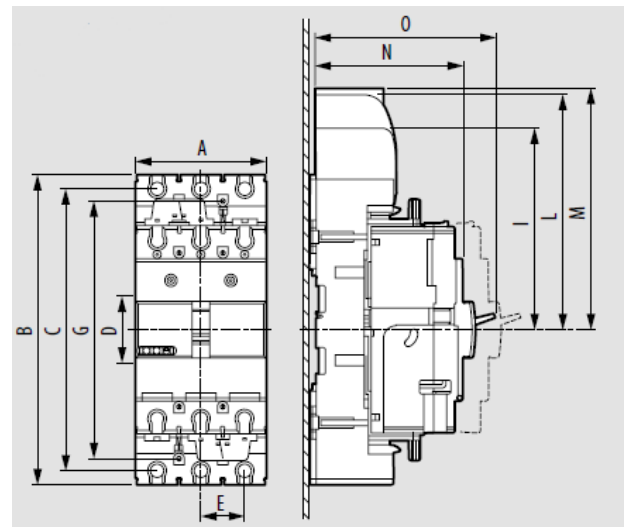
Fixed version, front motor operator



Fixed version, side motor operator



Plug-in version



| | A | B | C | D | E | F | G | H | I | L | M | N | O |
|----|-----|-----|-------|----|----|-----|-----|-----|-----|-------|---|-----|-----|
| 3P | 105 | 248 | 225,5 | 45 | 35 | 103 | 206 | 150 | 180 | 217,5 | | 122 | 148 |
| 4P | 140 | 278 | 255,5 | 45 | 35 | 103 | 236 | 150 | 180 | 217,5 | - | 122 | 148 |

4. OVERVIEW

4.1 Supplied

Supplied with

- fixing screws
- connection plates for bars and cable lugs
- insulating shields (phase barrier)

4.2 Mounting possibilities

On plate:

- Vertical
- Horizontal
- Supply inverter type

On DIN rail:

- Vertical
- Supply inverter type

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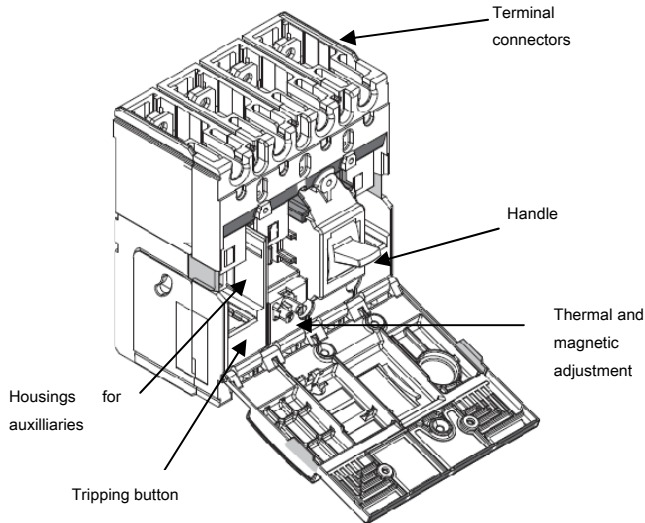
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5. ELECTRICAL AND MECHANICAL CHARACTERISTICS

5.1 Main parts constituting the circuit breaker



| Circuit Breaker | DPX ³ 250 (B/F/N/H) (25kA, 36kA, 50kA, 70kA) |
|---|--|
| Rated current (A) | 100, 160, 200, 250 |
| Poles | 3 - 4 |
| Rated insulation voltage U _i (V) | 800 |
| Rated operating voltage (50/60Hz) U _e (V) | 690 |
| Rated impulse withstand current U _{imp} (kV) | 8 |
| Rated frequency (Hz) | 50 - 60 |
| Reference ambient temperature (°C) | 40 - 50 |
| Operating temperature (°C) | -25 ÷ 70 |
| Mechanical endurance (cycles) | 20000 |
| Mechanical endurance with motor control (cycles) | 20000 |
| Electrical endurance at I _n (cycles) | 8000 |
| Electrical endurance at 0.5 I _n (cycles) | 10000 |
| Utilization category | A |
| Suitable for isolation | Yes |
| Type of protection | Thermal-magnetic |
| Magnetic adjustment | 5 - 10 x I _n |
| Thermal adjustment | 0.8 - 1 x I _n |
| Neutral protection for 4P version (%I _{tn}) | 100 |
| Dimensions (W x H x D) (mm) 3P | 105 x 165 x 100 |
| Dimensions (W x H x D) (mm) 4P | 140 x 165 x 100 |
| Weight (kg) | 1.9(3P) - 2.4(4P) |

| Switch | DPX ³ -I |
|--|---------------------|
| Uninterrupted nominal current I _n (A) | 250 |
| Short-time resistive current I _{sw} (kA) for 1s | 3 |
| Rated short-circuit making capacity I _{cm} (kA) | 4.5 |
| Isolated voltage U _i (V AC) | 800 |
| Maximum rated operating voltage U _e (V AC/DC) | 690 |
| Rated impulse withstand voltage U _{imp} (kV) | 8 |
| Utilisation category | AC22-23A |
| Rated frequency (Hz) | 50-60 |
| Operating temperature (°C) | -25 ÷ 70 |
| Mechanical endurance (cycles) | 20000 |
| Mechanical endurance with motor control (cycles) | 20000 |
| Electrical endurance (cycles) at I _n | 8000 |
| Electrical endurance (cycles) at 0.5 I _n | 10000 |
| Dimensions (W x H x D) (mm) 3P | 105 x 165 x 100 |
| Dimensions (W x H x D) (mm) 4P | 140 x 165 x 100 |
| Weight (kg) | 1.9(3P) - 2.4(4P) |

5.2 Breaking capacity (kA)

| | U _e /I _{cu} | Breaking capacity (kA) & I _{cs} | | | |
|------------------------------|---|--|-------|-------|-------|
| | | 3P-4P | 3P-4P | 3P-4P | 3P-4P |
| IEC 60947-2 | 220/240 V AC | 40 | 60 | 80 | 100 |
| | 380/415 V AC | 25 | 36 | 50 | 70 |
| | 440/460 V AC | 20 | 30 | 40 | 60 |
| | 480/500 V AC | 10 | 25 | 30 | 40 |
| | 600 V AC | 9 | 20 | 22 | 25 |
| | 690V AC | 8 | 16 | 18 | 20 |
| | I _{cs} (% I _{cu}) | 100 | 100 | 100 | 100 |
| | Rated making capacity under short circuit I _{cm} | | | | |
| I _{cm} (kA) at 415V | 52.5 | 75.6 | 105 | 154 | |
| NEMA AB-1 | 220/240 V AC | 40 | 60 | 80 | 100 |
| | 480/500 V AC | 10 | 25 | 30 | 40 |
| | 690V AC | 8 | 16 | 18 | 20 |

5.3 Rated current (I_n) at 40°C / 50°C

| I _n (A) | Assigned current trip | | | |
|--------------------|-----------------------|-----|----------|------|
| | thermal | | magnetic | |
| | L1-L2-L3 | N | L1-L2-L3 | N |
| 100 | 100 | 100 | 1000 | 1000 |
| 160 | 160 | 160 | 1600 | 1600 |
| 200 | 200 | 200 | 2000 | 2000 |
| 250 | 250 | 250 | 2500 | 2500 |

5.4 Power losses per pole under I_n

Circuit breaker

| Lugs | Power losses per pole (W) | | | |
|------|---------------------------|------|------|------|
| | I _n (A) | | | |
| | 100 | 160 | 200 | 250 |
| | 7.0 | 12.5 | 15.1 | 19.1 |

Values in the table are referred to single phase and they are measured with cold breaker (with hot breaker, increase of 10% must be considered)

5.5 Load operations

| Loads operation | |
|-------------------|-----------------------|
| Rated current (A) | I _n = 250A |
| Opening (N) | 45 |
| Closing (N) | 78 |
| Reset (N) | 75 |

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5.6 Functioning in particular conditions

5.6.1 Temperature

| I _n (A) | Temperature T _a (°C) | | | | | | | | | | | |
|--------------------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | -25 | -20 | -10 | -5 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
| 100 | 135 | 132 | 128 | 126 | 123 | 120 | 112 | 102 | 100 | 100 | 90 | 84 |
| 160 | 216 | 211 | 205 | 201 | 197 | 192 | 179 | 163 | 160 | 160 | 143 | 134 |
| 200 | 270 | 264 | 256 | 251 | 246 | 240 | 224 | 203 | 200 | 200 | 179 | 168 |
| 250 | 338 | 330 | 320 | 314 | 308 | 300 | 280 | 254 | 250 | 250 | 224 | 210 |

5.6.2 Altitude

| Altitude (m) | 2000 | 3000 | 4000 | 5000 |
|---|----------------|-----------------------|-----------------------|----------------------|
| U _e (V) | 690 | 590 | 520 | 460 |
| I _n (A) (T _a = 40°C/50°C) | I _n | 0.98 x I _n | 0.93 x I _n | 0.9 x I _n |

5.6.3 Use at 400 Hz

See table B.

6. CONFORMITY

DPX³ range of product concerning circuit-breakers and switch-disconnectors are in full compliance with the EN/IEC standard 60947-2 and 60947-3 respectively.

The certificate are issued by LOVAG and/or by IECEE CB-scheme certification scheme.

All the product range are CE, CCC, EAC, ANCE marked.

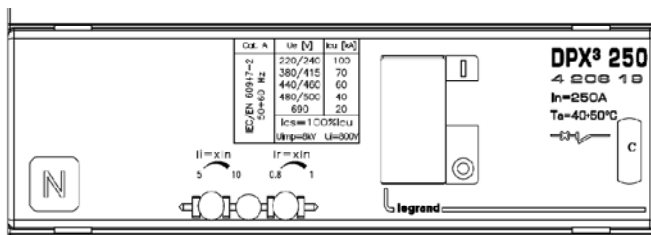
DMX³ are full in compliance with the Shipping Register of Lloyds, RINA, Bureau Veritas, Germanishe Lloyds, Norske Veritas and ABS.

" Tropical climate" :

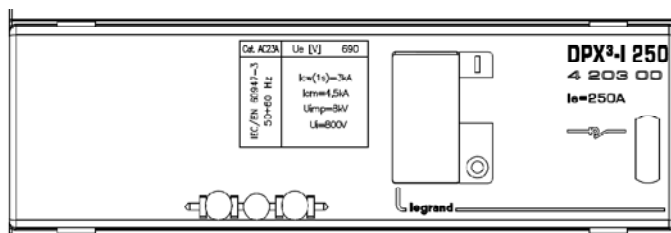
- execution II (all climates) according to IEC 60947-1 Annex Q, Cat. F.

6.1 Marking

Circuit breaker :



Switch:



7. EQUIPMENTS AND ACCESSORIES

7.1 Releases

- Shunt releases

| | |
|--------------|---------------|
| 12 V ac/dc | ref. 4 210 12 |
| 24 V ac/dc | ref. 4 210 13 |
| 48 V ac/dc | ref. 4 210 14 |
| 110-130 V ac | ref. 4 210 15 |
| 200-277 V ac | ref. 4 210 16 |
| 380-480 V ac | ref. 4 210 17 |

Maximum power = 400 VA / W

- Undervoltage releases

| | |
|-----------------|---------------|
| 12 V ac/dc | ref. 4 210 18 |
| 24 V ac/dc | ref. 4 210 19 |
| 48 V ac/dc | ref. 4 210 20 |
| 110-130 V ac/dc | ref. 4 210 21 |
| 200-240 V ac | ref. 4 210 22 |
| 277 V ac | ref. 4 210 23 |
| 380-415 V ac | ref. 4 210 24 |
| 440-480 V ac | ref. 4 210 25 |

Maximum power = 4 VA

Circuit breaker opening time < 50 ms

- Time-lag undervoltage releases (800ms)

Time-lag modules with voltage:

| | |
|----------|---------------|
| 230 V ac | ref. 0 261 90 |
| 400 V ac | ref. 0 261 91 |

Release:

To be equipped with a time-lag module ref. 4 210 98

7.2 Auxiliary contact

| | |
|--|---------------|
| set of connectors for aux contacts | ref. 4 210 44 |
| aux contacts (1NC and 1 NO) for all rotary handles | ref. 4 210 10 |
| signalling contact plugged-in version | ref. 4 210 48 |
| Changeover switch 3A – 250 VAC | ref. 4 210 11 |

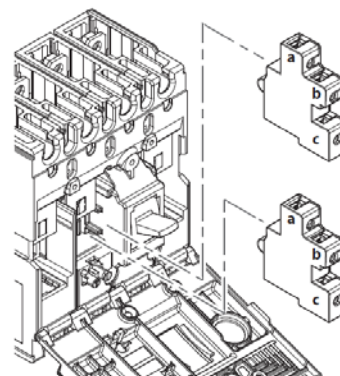
To show the state of the contacts or opening of the DPX³ on a fault:

Auxiliary contact (standard) OC
 Fault signal CTR

| Auxiliary contact | | |
|-----------------------------------|--------------|-----------|
| Nominal voltage (V _n) | V (AC or DC) | 24 to 250 |
| Intensity (A) | 24 V DC | 5 |
| | 48 V DC | 1.7 |
| | 110 V DC | 0.5 |
| | 230 V DC | 0.25 |
| | 110 V AC | 4 |
| | 230/250 V AC | 3 |

Configurations:

DPX³ 250 → 1 auxiliary contact + 1 fault signal



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7.3 Rotary handles

Direct

- DPX³ direct rotary handle ref. 4 210 00
- DPX³ emergency direct rotary handle ref. 4 210 02

Vari-depth handle IP55

- DPX³ vari depth rotary handle ref. 4 210 04
- DPX³ emergency vari depth rotary handle ref. 4 210 05

Locking accessories

- Ronis type flat key random for direct rotary handle ref. 4 210 06
- Profalux type star key random for direct rotary handle ref. 4 210 07
- Ronis type flat key random for vari-depth handle ref. 4 210 08
- Profalux type star key random for vari-depth handle ref. 4 210 09
- Ronis type flat key (cod. EL43525) for direct rotary handle ref. 4 228 00
- Ronis type flat key (cod. EL43363) for direct rotary handle ref. 4 228 01
- Ronis type flat key (cod. EL43525) for vari-depth handle ref. 4 228 02
- Ronis type flat key (cod. EL43363) for vari-depth handle ref. 4 228 03

7.4 Mechanical accessories

Insulated shields (phase barriers)

- Set of 36 ref. 4 210 70

Sealable terminal shields

- sealable terminal shield for rear terminals 3P ref. 4 210 52
- sealable terminal shield for rear terminals 4P ref. 4 210 53
- sealable terminal shield for front spreaders 3P ref. 4 210 56
- sealable terminal shield for front spreaders 4P ref. 4 210 57

Padlocks

- DPX³ padlock accessory for handle ("open" position) ref. 4 210 49

Interlock

- DPX³ interlock for fixed version ref. 4 210 58
- DPX³ interlock for plug-in / draw-out version ref. 4 210 59

7.5 Connection accessories

Cage terminals

- terminals for Cu/Al cables kit (3P) - flex 1x120mm², rigid 1x150mm², lugs 28.5 x 8 x 8.5mm ref. 4 210 30
- terminals for Cu/Al cables kit (4P) - flex 1x120mm², rigid 1x150mm², lugs 28.5 x 8 x 8.5mm ref. 4 210 31
- screw terminals for bar connections (3P) ref. 4 210 79
- screw terminals for bar connections (4P) ref. 4 210 80

Front spreaders

- DPX³ front spreaders for 3P DPX³ 250 (set of 3) ref. 4 210 34
- DPX³ front spreaders for 4P DPX³ 250 (set of 4) ref. 4 210 35

Rear terminals

- DPX³ flat rear terminals for 3P DPX³ 250 (set of 3) ref. 4 210 38
- DPX³ flat rear terminals for 4P DPX³ 250 (set of 4) ref. 4 210 39

7.6 Plug-in version

Bases

- front/rear terminals plug-in base 3P DPX³ 250 ref. 4 210 42
- front/rear terminals plug-in base 4P (with or without earth leakage module) ref. 4 210 43

Locking accessories

- Ronis type flat key (cod. ABA90GEL6149) for plug-in base ref. 4 210 45
- Profalux type star key (cod. HBA90GPS6149) for plug-in base ref. 4 210 46
- padlock accessory for plug-in base ref. 4 210 47

7.7 Motor operator

- side motor operator 24-230 Vac/dc ref. 4 210 60
- front motor operator 24-230 Vac/dc ref. 4 210 61

Locking accessories for front motor operator

- Ronis type flat key (cod. ABA90GEL6149) for front motor operator ref. 4 210 62
- Profalux type flat key (cod. HBA90GPS6149) for front motor operator ref. 4 210 63
- padlock selector for front motor operator ref. 4 210 64

Locking accessories for side motor operator

- Ronis type flat key (cod. ABA90GEL6149) for side motor operator ref. 4 210 65
- Profalux type flat key (cod. HBA90GPS6149) for side motor operator ref. 4 210 66
- padlock selector for side motor operator ref. 4 210 67

7.8 Mounting on rail fixing plate

- DPX³ 250 3P/4P without earth leakage module ref. 4 210 72
- DPX³ 160 3P/4P with side mounting motor operator ref. 4 210 69

7.9 Spare parts

- Fixing screws (set of 4) for plate installation ref. 4 210 81
- Battery kit (batteries + extractor) for 1 breaker ref. 4 210 82
- Fixing screws (set of 12) for DIN installation ref. 4 210 84
- Mini USB cap (for 20 device) - light grey colour ref. 4 210 89
- Plug-in base kit (for 1 breaker 3P or 4P) ref. 4 210 91
- Compact terminal shields 4P (set of 2) ref. 4 210 97
- Generic seals kit (for 4x seal kit) ref. 4 210 95

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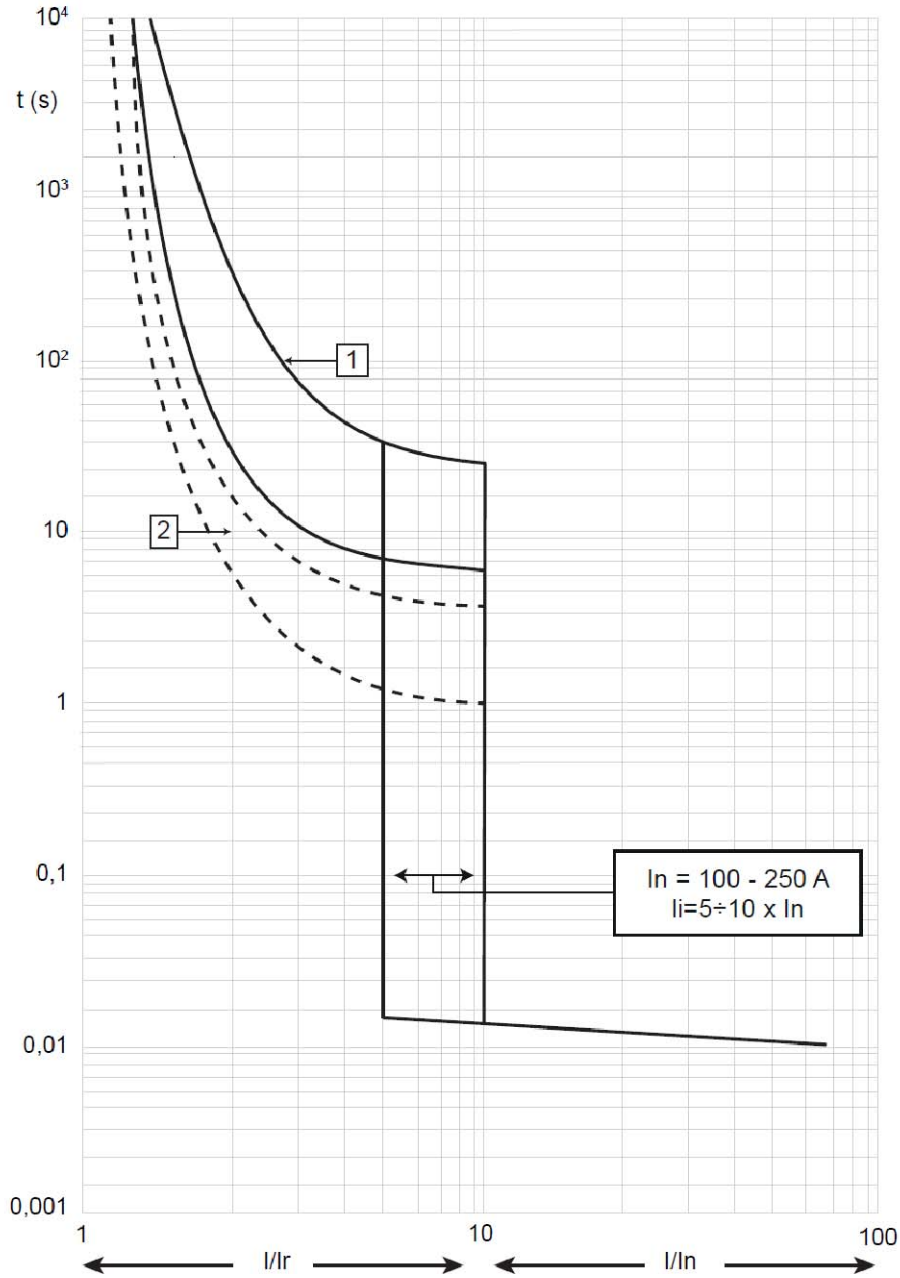
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8. CURVES

8.1 Thermal magnetic tripping curve



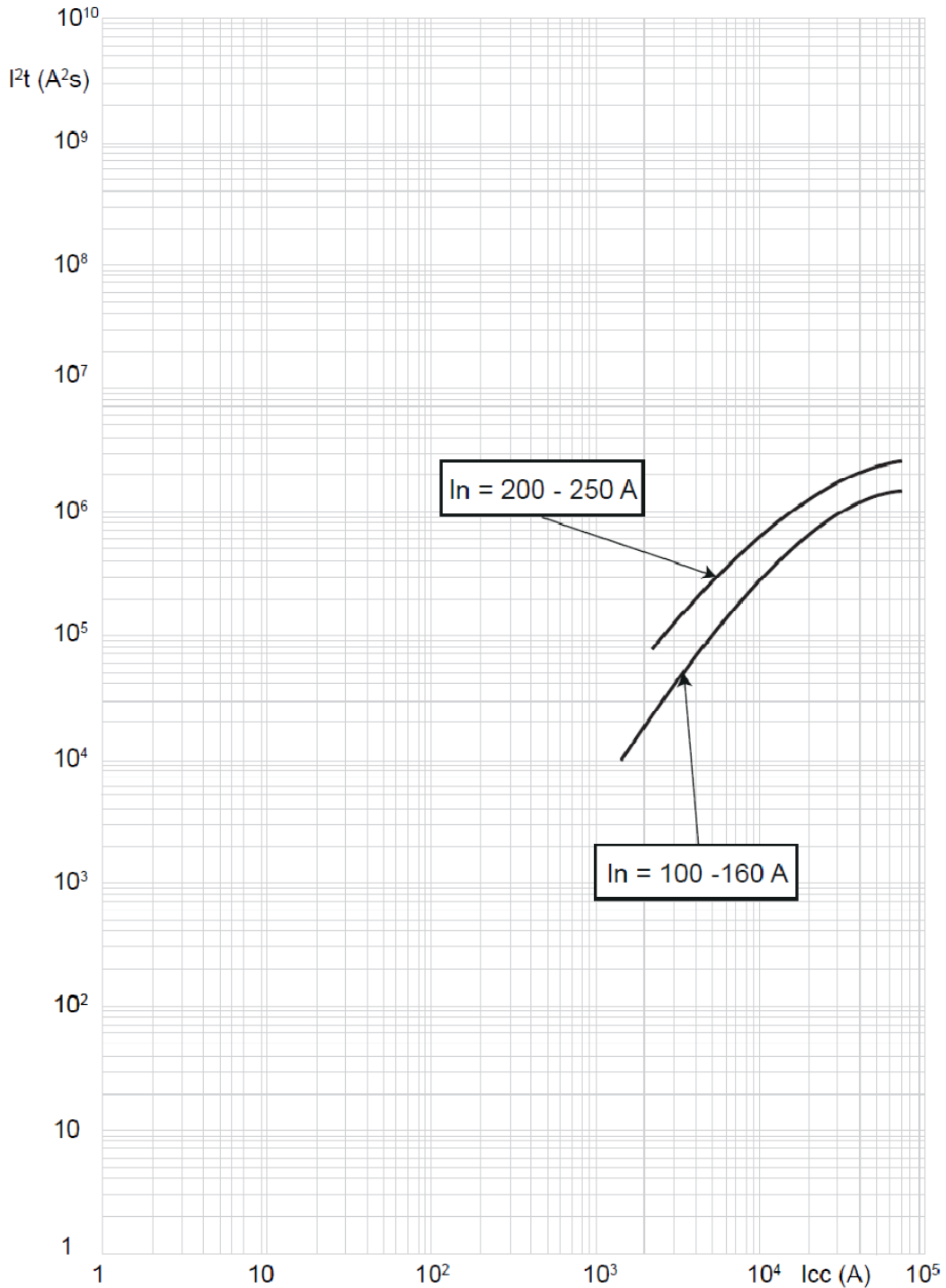
$I_{cu} = 25-36-50-70 \text{ kA}$ $I_{max} = 250 \text{ A}$ 3-4 P $U_o = 415 \text{ Vac}$

| Value | Description |
|---------|--------------------------------|
| t | time |
| I | current |
| I_n | rated current |
| I_r | long time setting current |
| curve 1 | characteristic with cold start |
| curve 2 | characteristic with hot start |

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8.2 Pass-through specific energy characteristic curve



$I_{cu} = 25-36-50-70 \text{ kA}$ $I_{max} = 250\text{A}$ 3-4 P $U_e = 415\text{Vac}$

| Value | Description |
|------------------------------|------------------------------|
| I_{cc} | short circuit current |
| $I^2t \text{ (A}^2\text{s)}$ | pass-through specific energy |

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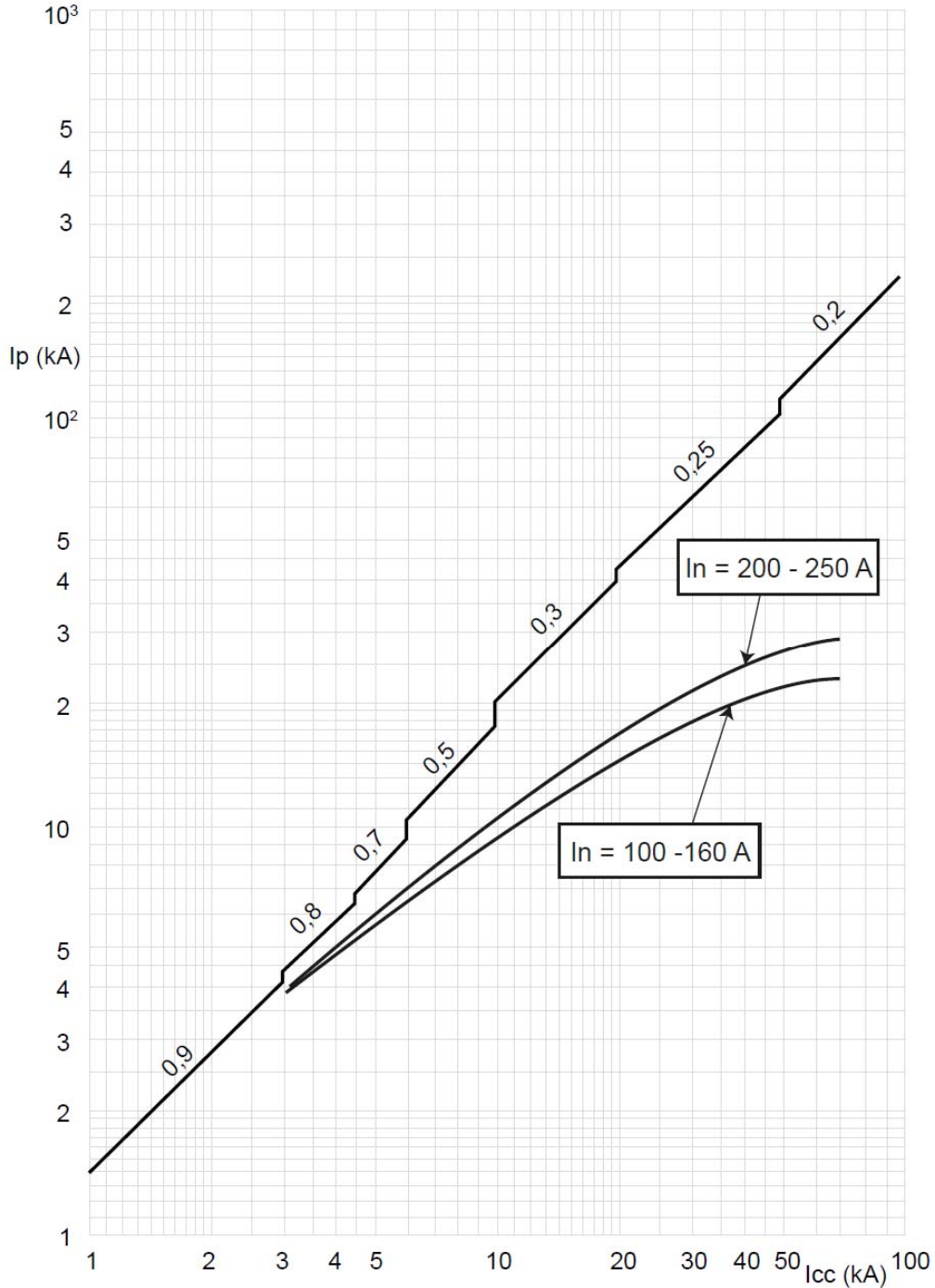
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8.3 Cut-off peak current characteristic curve (kA)



$I_{cu} = 25-36-50-70$ kA $I_{max} = 250$ A 3-4 P $U_e = 415$ Vac

| Value | Description |
|----------|--|
| I_{cc} | estimated short circuit symmetrical current (RMS value) |
| I_p | maximum short circuit peak current |
| | maximum prospective short circuit peak current corresponding at the power factor |
| | maximum real peak short circuit current |

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A) Derating Temperature and configurations

| Fixed version | | Ambient temperature | | | | | | | | | |
|---|--|----------------------|---------------------------------|----------------------|---------------------------------|----------------------|---------------------------------|----------------------|---------------------------------|----------------------|---------------------------------|
| | | 30 °C | | 40 °C | | 50 °C | | 60 °C | | 70 °C | |
| | | I _{max} (A) | I _r / I _n | I _{max} (A) | I _r / I _n | I _{max} (A) | I _r / I _n | I _{max} (A) | I _r / I _n | I _{max} (A) | I _r / I _n |
| DPX ³ 250 fixed - vertical installation | Cage terminals, flexible cable | 263 | 1,05 | 250 | 1 | 250 | 1 | 225 | 0,9 | 213 | 0,85 |
| | Cage terminals, flexible cable + sealable terminal shields | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Cage terminals, rigid cable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Lugs, flexible cable | 250 | 1 | 250 | 1 | 250 | 1 | 238 | 0,95 | 225 | 0,9 |
| | Lugs, rigid cable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Spreaders, flexible cables | 250 | 1 | 250 | 1 | 250 | 1 | 238 | 0,95 | 225 | 0,9 |
| | Spreaders, rigid cable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rear flat staggered terminals, flexible cable/elds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rear flat staggered terminals, rigid cable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Lugs, flexible cable + sealable terminal shields | 250 | 1 | 250 | 1 | 250 | 1 | 238 | 0,95 | 225 | 0,9 |
| Rear flat staggered term., flex. cable + sealable term. shields | 250 | 1 | 250 | 1 | 250 | 1 | 238 | 0,95 | 225 | 0,9 | |
| DPX ³ 250 fixed - horizontal installation | Cage terminals, flexible cable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Cage terminals, flexible cable + sealable terminal shields | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Cage terminals, rigid cable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Lugs, flexible cable | 250 | 1 | 250 | 1 | 250 | 1 | 238 | 0,95 | 225 | 0,9 |
| | Lugs, rigid cable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Spreaders, flexible cables | 250 | 1 | 250 | 1 | 250 | 1 | 238 | 0,95 | 225 | 0,9 |
| | Spreaders, rigid cable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rear flat staggered terminals, flexible cable/elds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Rear flat staggered terminals, rigid cable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Lugs, flexible cable + sealable terminal shields | 250 | 1 | 250 | 1 | 250 | 1 | 238 | 0,95 | 225 | 0,9 |
| Rear flat staggered term., flex. cable + sealable term. shields | 250 | 1 | 250 | 1 | 250 | 1 | 238 | 0,95 | 225 | 0,9 | |

B) Correct factor for adjustment for use at 400 Hz

| I _n (A) at 50 Hz | Thermal adjustment | | Magnetic adjustment | | |
|-----------------------------|--------------------|-----------------------------|---------------------|---------------------------------|---------------------------------|
| | Correction factor | I _n (A) at 400Hz | Correction factor | I _m (A) MIN at 400Hz | I _m (A) MAX at 400Hz |
| 100 | 0.95 | 95 | 2 | 1000 | 2000 |
| 160 | 0.9 | 144 | 2 | 1600 | 3200 |
| 200 | 0.85 | 170 | 2 | 2000 | 4000 |
| 250 | 0.85 | 213 | 2 | 2500 | 5000 |