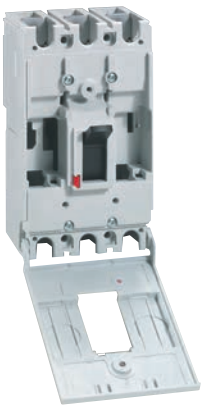
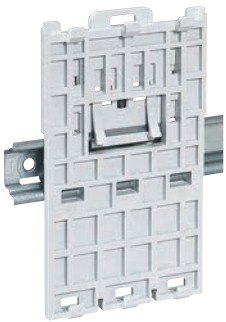
# DRX™ 250

**thermal magnetic MCCBs from 125 to 250 A**


0 271 06


0 271 04


0 271 12 (captive cover)


0 271 88


0 271 74


0 271 80

Technical characteristics and curves **p. 11 to 13**

For switching, control, isolation and protection of low-voltage electrical lines
Can be fitted with auxiliaries
Supplied with:
- M8 terminals
- Fixing screws
- Insulating shields (2 for 3P and 3 for 4P)

Fixed thermal and magnetic
Conform to IEC 60947-2

## DRX 250

| Pack | Cat.Nos 3P | Cat.Nos 4P | In |
|---|---|---|---|
| | | | **Breaking capacity Icu 18 kA (415 V~)** |
| 1 | 0 271 00 | 0 271 06 | 125 A |
| 1 | 0 271 01 | 0 271 07 | 150 A |
| 1 | 0 272 28 | 0 272 29 | 160 A |
| 1 | 0 271 02 | 0 271 08 | 175 A |
| 1 | 0 271 03 | 0 271 09 | 200 A |
| 1 | 0 271 04 | 0 271 10 | 225 A |
| 1 | 0 271 05 | 0 271 11 | 250 A |
| | | | **Breaking capacity Icu 25 kA (415 V~)** |
| | | | In |
| 1 | 0 271 12 | 0 271 18 | 125 A |
| 1 | 0 271 13 | 0 271 19 | 150 A |
| 1 | 0 272 30 | 0 272 31 | 160 A |
| 1 | 0 271 14 | 0 271 20 | 175 A |
| 1 | 0 271 15 | 0 271 21 | 200 A |
| 1 | 0 271 16 | 0 271 22 | 225 A |
| 1 | 0 271 17 | 0 271 23 | 250 A |
| | | | **Breaking capacity Icu 36 kA (415 V~)** |
| | | | In |
| 1 | 0 271 24 | 0 271 30 | 125 A |
| 1 | 0 271 25 | 0 271 31 | 150 A |
| 1 | 0 272 32 | 0 272 33 | 160 A |
| 1 | 0 271 26 | 0 271 32 | 175 A |
| 1 | 0 271 27 | 0 271 33 | 200 A |
| 1 | 0 271 28 | 0 271 34 | 225 A |
| 1 | 0 271 29 | 0 271 35 | 250 A |

### Mounting on rail

| Pack | Cat.Nos | |
|---|---|---|
| 1 | 0 271 88 | Plate for fixing DRX 250 on DIN rail |

### Rotary handles

| Pack | Cat.Nos | |
|---|---|---|
| | | **Direct on DRX** |
| 1 | 0 271 78 | Standard (grey) |
| | | **Vari-depth handle** |
| | | Comprising: connecting rod, bracket, drilling template, mounting accessories, door locking mechanism |
| 1 | 0 271 79 | Standard (grey) |

## Connection accessories

### Insulating shields

Used to isolate the connection between each pole

| Pack | Cat.Nos 3P | Cat.Nos 4P | |
|---|---|---|---|
| 1 | 0 271 81 | | Set of 2 |
| 1 | | 0 271 82 | Set of 3 |

### Sealable terminal shields

| Pack | Cat.Nos | |
|---|---|---|
| 1 | 0 271 85 \| 0 271 86 | Set of 2 |

### Cage terminals

| Pack | Cat.Nos | |
|---|---|---|
| 1 | 0 271 74 \| 0 271 75 | Up to 250 A |
| 1 | 0 271 94 | Set of 60 pieces |

### Padlock for DRX 125 and 250

| Pack | Cat.Nos | |
|---|---|---|
| 1 | 0 271 80 | For locking on "OFF" position (up to 3 locks) |

## Control and signalling auxiliaries for DRX 125 and 250

### Auxiliary contact blocks

For left-hand side mounting
Up to 250 V~ and ⎓

| Pack | Cat.Nos | |
|---|---|---|
| 1 | 0 271 40 | Block with 1 auxiliary |
| 1 | 0 271 41 | Block with 1 alarm |
| 1 | 0 271 42 | Block with 1 auxiliary + 1 alarm |

### Shunt trips

| Pack | Cat.Nos | |
|---|---|---|
| 1 | 0 271 50 | 12 V~ and ⎓ |
| 1 | 0 271 51 | 24 V~ and ⎓ |
| 1 | 0 271 52 | 48 V~ and ⎓ |
| 1 | 0 271 53 | 100/130 V~ |
| 1 | 0 271 54 | 200/277 V~ |
| 1 | 0 271 55 | 380/480 V~ |

### Undervoltage releases

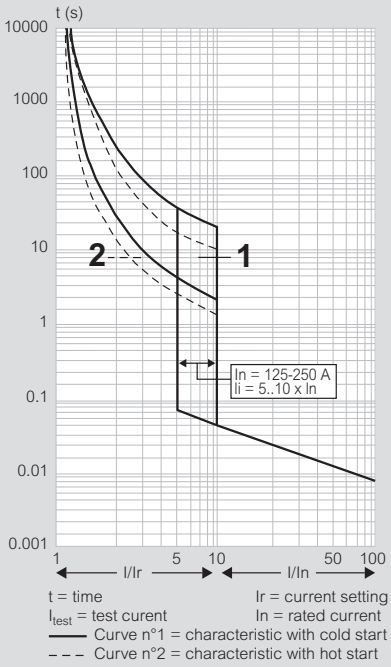
| Pack | Cat.Nos | |
|---|---|---|
| 1 | 0 271 60 | 12 V~ and ⎓ |
| 1 | 0 271 61 | 24 V~ and ⎓ |
| 1 | 0 271 62 | 48 V~ and ⎓ |
| 1 | 0 271 68 | 110 V⎓ |
| 1 | 0 271 63 | 110/130 V~ |
| 1 | 0 271 64 | 200/240 V~ |
| 1 | 0 271 67 | 277 V~ |
| 1 | 0 271 65 | 380/415 V~ |
| 1 | 0 271 66 | 440/480 V~ |

# DRX™ 250

## technical characteristics and curves

## Curves

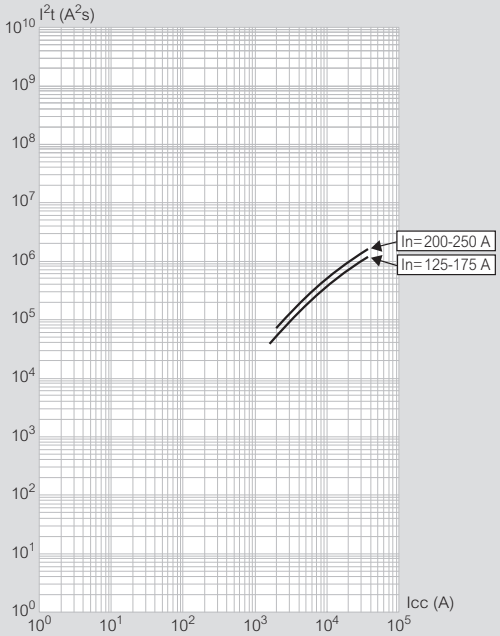
**DRX 250** Imax = 250 A from 18 kA to 36 kA 3P - 4P at 415 V~




t = time
Ir = current setting
$I_{test}$ = test curent
In = rated current
Curve n°1 = characteristic with cold start
Curve n°2 = characteristic with hot start

### Pass-through specific energy characterictics

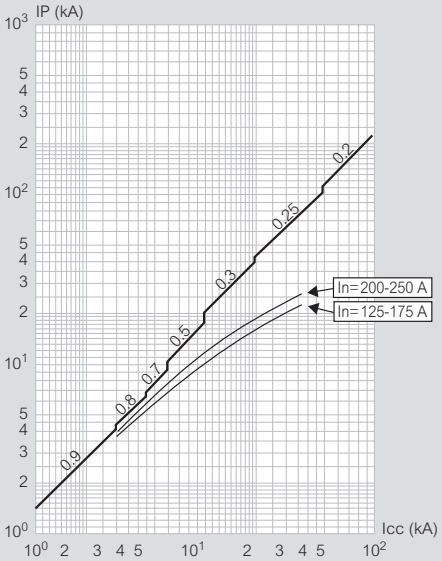
DRX 250 Imax = 250 A from 18 kA to 36 kA 3P - 4P at 415 V~




Icc = estimated short circuit symmetrical current (RMS value)
$I^2t$ ($A^2s$) = pass-throught specific energy

### Current limitation

DRX 250 Imax = 250 A from 18 kA to 36 kA 3P - 4P at 415 V~




Icc = estimated short circuit symmetrical current (RMS value)
Ip = maximum short circuit peak current

maximum prospective short circuit peak current corresponding at the power factor

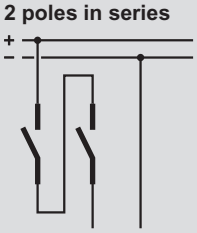
maximum real peak short circuit current

## Technical characteristics

| | | DRX - 18 kA | DRX - 25 kA | DRX - 36 kA |
|---|---|---|---|---|
| **Number of poles** | | 3P - 4P | 3P - 4P | 3P - 4P |
| **Nominal current In (A)** | | 125-250 | 125-250 | 125-250 |
| **Neutral protection for 4P version (%)** | | 100 | 100 | 100 |
| **Rated insulation voltage Ui (V)** | | 690 | 690 | 690 |
| **Rated impulse withstand current Uimp (kV)** | | 6 | 6 | 6 |
| **Rated operating voltage (50/60 Hz) Ue (V)** | | 600 | 600 | 600 |
| **Ultimate breaking capacity Icu (kA) IEC 60947-2** | **110/130 V~** | 35 | 60 | 85 |
| | **220/240 V~** | 35 | 50 | 65 |
| | **380/415 V~** | 18 | 25 | 36 |
| | **440/460 V~** | 15 | 25 | 30 |
| | **480/550 V~** | 10 | 15 | 20 |
| | **600 V~** | 7,5 | 10 | 12 |
| | **125 V⎓** | 10(1) | 20(1) | 30(1) |
| | **250 V⎓** | 5(1) | 10(1) | 15(1) |
| **Ultimate breaking capacity Icu (kA) NEMA AB-1** | **240 V~** | 35 | 50 | 65 |
| | **480 V~** | 10 | 15 | 20 |
| | **600 V~** | 7.5 | 10 | 15 |
| **Standard breaking capacity Ics (% Icu)** | | 50 | 50 | 50 |
| **Category of use** | | A | A | A |
| **Suitable for isolation** | | YES | YES | YES |
| **Endurance (cycles)** | **mechanical** | 25000 | 25000 | 25000 |
| | **electrical at In** | 8000 | 8000 | 8000 |
| | **electrical at 0.5 In** | 10000 | 10000 | 10000 |

1: 2 poles in series

### 2 poles in series

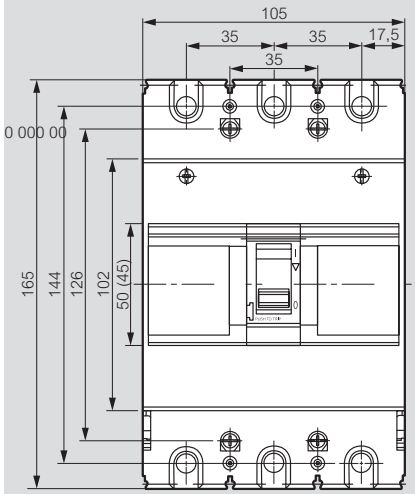


# DRX™ 250

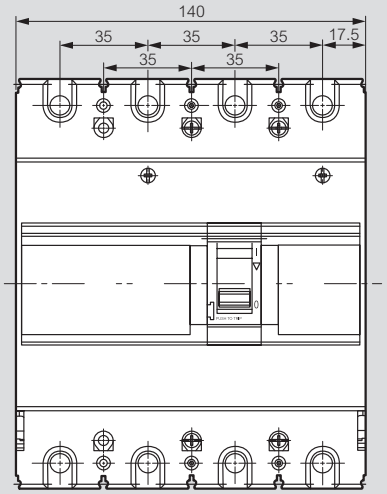
**dimensions, mounting principle and connection**

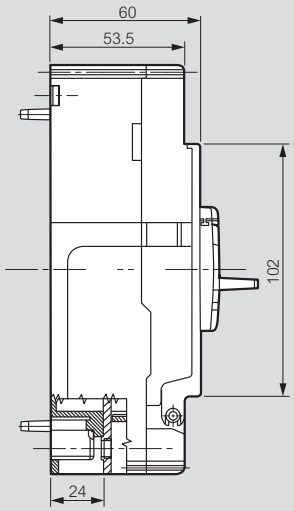
## Dimensions

3P




4P

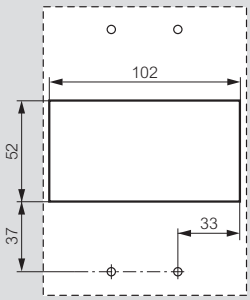


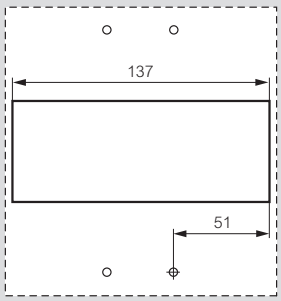

## Mounting principle

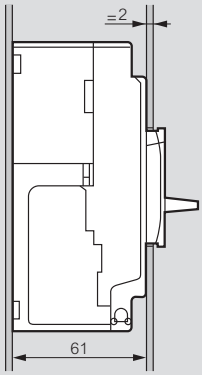
**Door cut-out**

3P

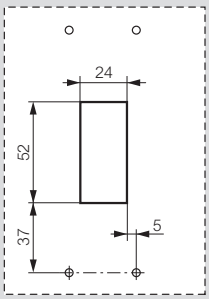


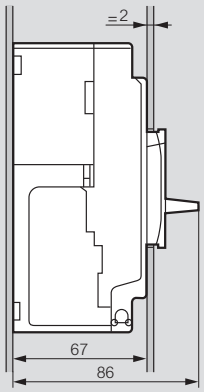

4P



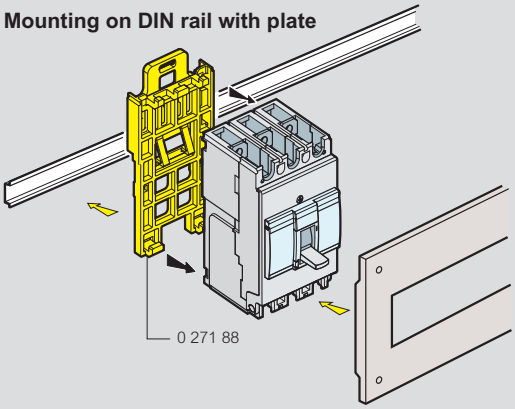




3-4P

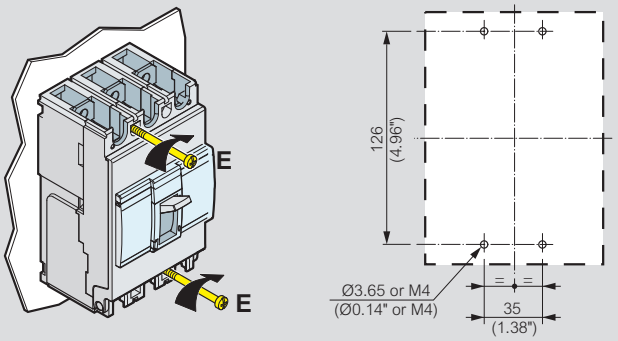


### Mounting on DIN rail with plate

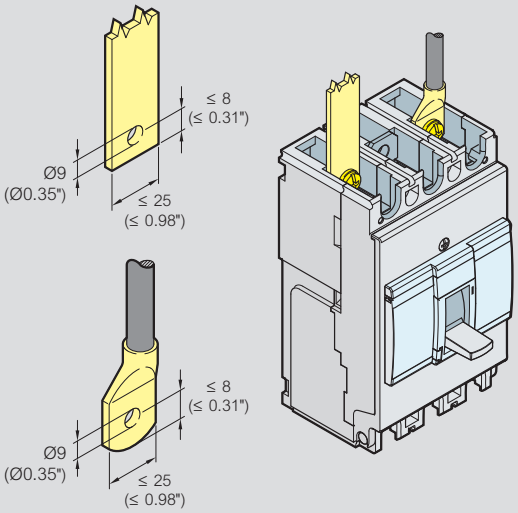



### Fixing on plate

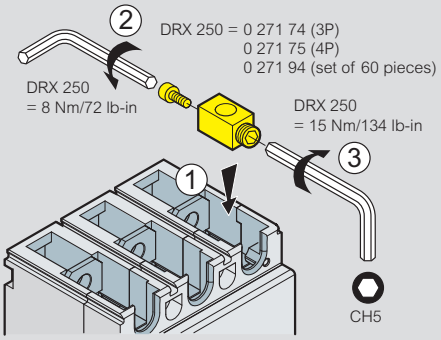



## Connection

### Connection via busbar




### Connection via cable




**DRX 250 - 125 to 250 A**

Flexible
35 mm² ➡ 120 mm²
#2 ➡ #250 MCM

or

Solid
35 mm² ➡ 150 mm²
#2 ➡ #300 MCM

## Auxiliary contacts

| | Voltage (V) | Resistive load (A) |
|---|---|---|
| Vac | 125 | 5 |
| | 250 | 5 |
| Vdc | 30 | 5 |
| | 50 | 1 |
| | 75 | 0.75 |
| | 125 | 0.5 |
| | 250 | 0.25 |
| Mechanical endurance (No. of operations) | | 5 x $10^6$ |
| Temperature (°C) | | - 40 to 85 °C |

