

# Moulded Case Circuit Breaker Type A, 4 pole, 50kA, 16A

Rated current 16A, Short circuit switching capacity (400V) 50kA, Size type 1, Tripping Unit Thermomagnetic release - Type A, Poles 4



## SCHRACK-Info

### Thermo-magnetic type release TM

Thermo-magnetic release of MX breakers can be set to meet protection requirements.

- Over-load protection  
Setting current (A)  $I_r = I_n \times 0,7-0,8-0,9-1,0$
- Short-circuit instantaneous protection  
Setting current (A)  $I_i = I_n \times 10$   
Accuracy  $\pm 20\%$

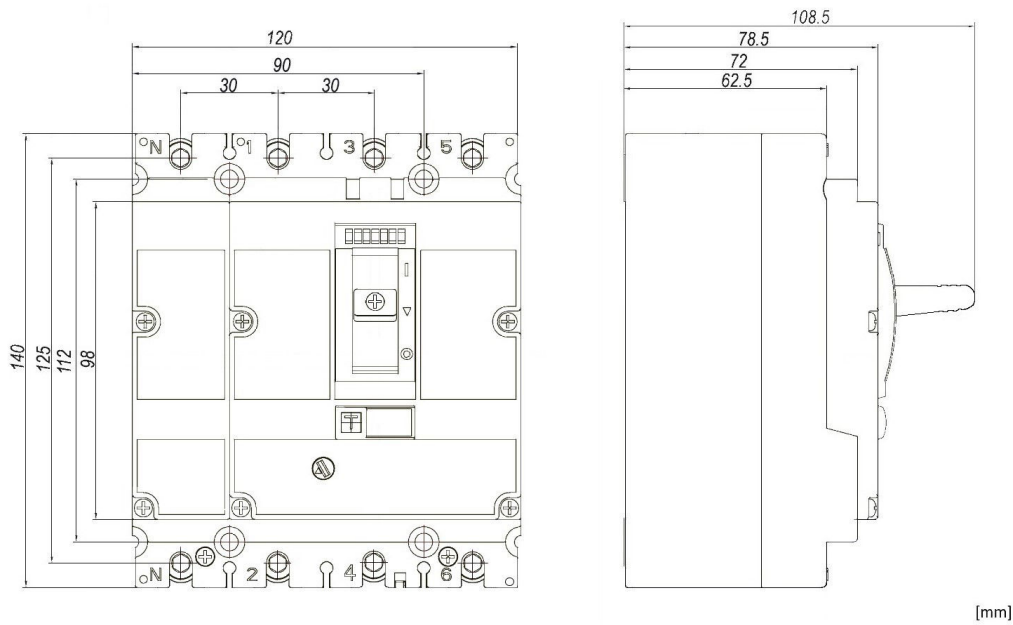
## Technical Data

|                               |               |
|-------------------------------|---------------|
| Net width (mm)                | 120,00        |
| Net height (mm)               | 140,00        |
| Net weight (kg)               | 1,55          |
| EAN                           | 9004840892680 |
| Power loss (W)                | 9,20          |
| Min. ambient temperature (°C) | -40           |

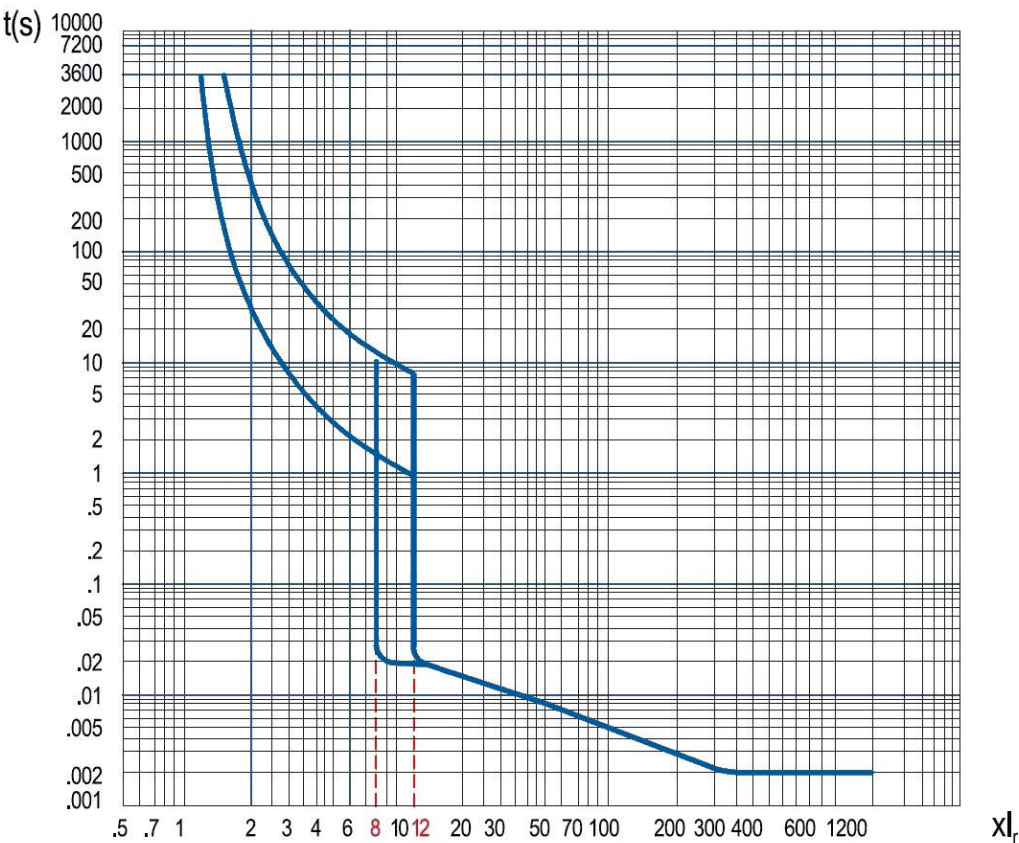
## Technical Data - continued

|                                                         |                                 |
|---------------------------------------------------------|---------------------------------|
| Max. ambient temperature (°C)                           | 70                              |
| Device category                                         | circuit breaker                 |
| Standard                                                | EN 60947-2                      |
| Rated current (A)                                       | 16                              |
| Rated voltage                                           | < 690VAC                        |
| Short circuit switching capacity (400V) (kA)            | 50                              |
| Size type                                               | 1                               |
| Tripping Unit                                           | Thermomagnetic release - Type A |
| Poles                                                   | 4                               |
| Pollution degree                                        | 3                               |
| IP Rating                                               | IP40                            |
| Mechanical durability                                   | 15000 operation cycles          |
| Rated insulation voltage [Ui] (V)                       | 1000                            |
| Rated impulse withstand voltage [Uimp] (V)              | 8000                            |
| Rated ultimate short-circuit breaking capacity Icu (kA) | 50                              |
| Rated service breaking capacity Ics (kA)                | 50                              |
| AC 380/400/415V                                         | 50kA (Icu) / 50kA (Ics)         |
| AC 440V                                                 | 50kA (Icu) / 50kA (Ics)         |
| AC 500V                                                 | 40kA (Icu) / 40kA (Ics)         |
| AC 660/690V                                             | 8kA (Icu) / 8kA (Ics)           |
| <b>Electrical endurance (Operation cycle)</b>           |                                 |
| AC 415V, In                                             | 8000                            |
| AC 690V, In                                             | 2000                            |

# Dimensions



# Tripping characteristic curves



## Article Table

| DESCRIPTION                                                                                                                                                                                                                                | Order No. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Moulded Case Circuit Breaker Type A, 4 pole, 50kA, 16A<br>Rated current 16A, Short circuit switching capacity (400V) 50kA, Size type 1, Tripping Unit Thermomagnetic release - Type A, Poles MX116241<br>4                                 |           |
| <b>Optional Accessories</b>                                                                                                                                                                                                                |           |
| Toggle Lever Locking Device for MX1<br>No lock included in the scope of delivery.                                                                                                                                                          | MX190199  |
| Clip Plate 35mm DIN-S for MX1 4 pole<br>Size type 1, Poles 4                                                                                                                                                                               | MX190214  |
| Box Terminal for MX1 2.5-75mm <sup>2</sup> , 1 piece<br>Size type 1 Al/Cu                                                                                                                                                                  | MX190015  |
| Connection extension 4 pole for MX1, 8 pieces<br>Poles 4, 8 pieces included per item, for 4-pole MX1 (for top and bottom)                                                                                                                  | MX190020  |
| Terminal Cover short 4 pole for MX1<br>Poles 4, for top and bottom                                                                                                                                                                         | MX190781  |
| Tunnel Terminal 1x16-95mm <sup>2</sup> for MX1, 1 piece, max. 100A<br>Size type 1, Al/Cu, current max. 100A, not maintenance-free for Aluminum, attend to connection conditions!! No use in PV applications/frequency inverters permitted! | MX196730  |
| Rear Connection, 4P for MX1, for both connection sides<br>Size type 1                                                                                                                                                                      | MX196735  |
| Socket for MX1 4 pole<br>Size type 1, Poles 4                                                                                                                                                                                              | MX196872  |
| Safety release for socket MX1<br>Size type 1                                                                                                                                                                                               | MX196873  |
| Phase separator plates MX1<br>Size type 1                                                                                                                                                                                                  | MX196870  |
| Rotary Handle complete, lockable for MX1                                                                                                                                                                                                   | MX190125  |
| Door Coupling Rotary Handle, lockable, for MX1<br>Size type 1, Axle length 50cm                                                                                                                                                            | MX190172  |
| Mechanical Interlock for MX1 4 pole<br>Size type 1, Poles 4                                                                                                                                                                                | MX191582  |
| Under Voltage Release 110VAC for MX1<br>Size type 1                                                                                                                                                                                        | MX199462  |
| Under Voltage Release 220-240VAC for MX1<br>Size type 1                                                                                                                                                                                    | MX199471  |
| Under Voltage Release 380-415VAC for MX1<br>Size type 1                                                                                                                                                                                    | MX199473  |
| Under Voltage Release 24VDC for MX1<br>Size type 1                                                                                                                                                                                         | MX199481  |

## Article Table

| DESCRIPTION                                                                                                                                                                                | Order No. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Optional Accessories</b>                                                                                                                                                                |           |
| Under Voltage Release 220VDC for MX1<br>Size type 1                                                                                                                                        | MX199489  |
| Shunt trip 110VAC for MX1<br>Poles 1                                                                                                                                                       | MX199567  |
| Shunt trip 220-240VAC for MX1                                                                                                                                                              | MX190154  |
| Shunt trip 380-415VAC for MX1                                                                                                                                                              | MX191607  |
| Shunt trip 24VDC for MX1                                                                                                                                                                   | MX199736  |
| Shunt trip 220VDC for MX1                                                                                                                                                                  | MX199742  |
| Remote Operator 24VDC for MX1<br>Size type 1                                                                                                                                               | MX199837  |
| Remote Operator 110VAC/110-120VDC for MX1<br>Size type 1                                                                                                                                   | MX199838  |
| Remote Operator 220-240VAC/220VDC for MX1<br>Size type 1                                                                                                                                   | MX199832  |
| Remote Operator 380-415VAC for MX1<br>Size type 1                                                                                                                                          | MX199833  |
| RCD für MX1 4 pole Type A 30-100-300-1000mA                                                                                                                                                | MX194610  |
| Auxiliary contact 1 CO                                                                                                                                                                     | MX199411  |
| Alarm contact 1 CO                                                                                                                                                                         | MX199511  |
| RCD for MX1 4 pole, 0.03 - 2A, Type A<br>Size type 1, Tripping Unit Residual Current Circuit Device - RCCD with setting range 0.03A - 0.05A - 0.1A - 0.2A - 0.3A - 0.5A - 1A - 2A, Poles 4 | MX194612  |