

Data Sheet for Article: MX480233--

# Moulded Case Circuit Breaker Type EM, 3 pole, 50kA, 800A

Rated current 800A, Short circuit switching capacity (400V) 50kA, Size type 4, Tripping Unit Digital electronic release - Type EM, Poles 3



## Schrack-Info

### Standard electronic type release for power distribution EM

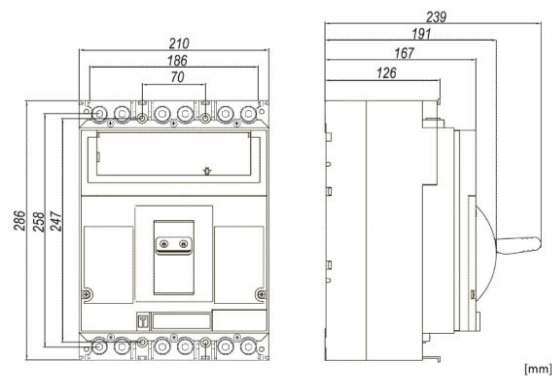
EM release has four-stage protection of overload, short circuit short-time delay, short circuit instantaneous protection and earth fault, with real-time current display, protection parameter information display, fault information display and parameter setting function.

- Over-load long-time delay protection  
Setting current  $I_r = I_n \times 0.4 \sim 1.0$ , Stepping 1A  
Tripping time  $T_r$  (s): 3~18, 1s, Accuracy  $\pm 10\%$
- Short circuit short-time delay protection  
Setting current  $I_{sd} = I_r \times 1.5 \sim 10$ , Stepping 1A, OFF, Accuracy  $\pm 15\%$   
Tripping time  $T_{sd}$  (s): 0.1-0.2-0.3-0.4, Accuracy  $\pm 20\%$  or  $\pm 40\text{ms}$  (higher value will be selected)
- Short circuit instantaneous protection  
Setting current  $I_i = I_n \times 1.5 \sim 12$ , Stepping 1A, OFF, Accuracy  $\pm 15\%$   
Max. tripping time (ms): 60
- Earth fault protection  
Setting current  $I_g = I_n \times 0.4-0.5-0.6-0.7-0.8-0.9-1.0$ , OFF, Accuracy  $\pm 15\%$   
Tripping time (s): 0.1-0.2-0.3-0.4, Accuracy  $\pm 15\%$

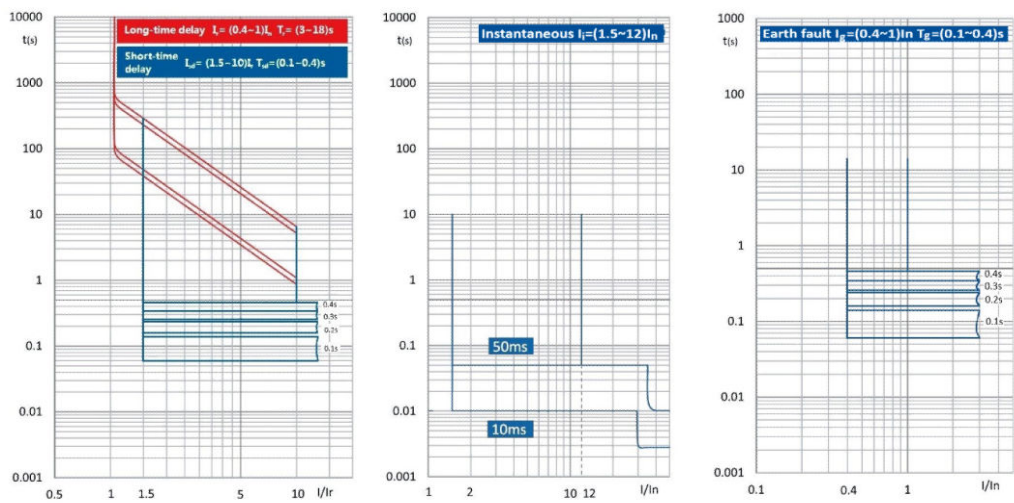
## Technical Data

|                                                         |                                      |
|---------------------------------------------------------|--------------------------------------|
| Net width (mm)                                          | 210,00                               |
| Net height (mm)                                         | 286,00                               |
| Net weight (kg)                                         | 13,50                                |
| EAN                                                     | 9004840894851                        |
| Power loss (W)                                          | 153,60                               |
| Min. ambient temperature (°C)                           | -40                                  |
| Max. ambient temperature (°C)                           | 70                                   |
| Device category                                         | circuit breaker                      |
| Standard                                                | EN 60947-2                           |
| Rated current (A)                                       | 800                                  |
| Rated voltage                                           | < 690VAC                             |
| Short circuit switching capacity (400V) (kA)            | 50                                   |
| Size type                                               | 4                                    |
| Tripping Unit                                           | Digital electronic release - Type EM |
| Poles                                                   | 3                                    |
| Pollution degree                                        | 3                                    |
| IP Rating                                               | IP40                                 |
| Mechanical durability                                   | 6000 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) / 40kA (Ics)              |
| AC 500V                                                 | 40kA (Icu) / 30kA (Ics)              |
| AC 660/690V                                             | 30kA (Icu) / 30kA (Ics)              |
| <b>Electrical endurance (Operation cycle)</b>           |                                      |
| AC 415V, In                                             | 1000                                 |
| AC 690V, In                                             | 1000                                 |

## Dimensions



## Tripping characteristic curves



## Article Table

| DESCRIPTION                                                                                                                                | Order No. |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Moulded Case Circuit Breaker Type EM, 3 pole, 50kA, 800A                                                                                   |           |
| Rated current 800A, Short circuit switching capacity (400V) 50kA, Size type 4, Tripping Unit Digital electronic release - Type EM, Poles 3 | MX480233  |
| <b>Optional Accessories</b>                                                                                                                |           |
| Communication module Modbus-RTU 24VDC 1.5m                                                                                                 | MX290000  |
| Communication module Modbus-RTU 230VAC 1.5m                                                                                                | MX290001  |
| Connection extension 3 pole for MX4, 1000-1250A, 6 pieces                                                                                  | MX490017  |
| Rated current 1000,1250A, Poles 3, 6 pieces included per item, for 3-pole MX4 (for top and bottom)                                         |           |
| Connection extension 3 pole for MX4, 1600A, 6 pieces                                                                                       | MX490019  |
| Rated current 1600A, Poles 4, 6 pieces included per item, for 3-pole MX4 (for top and bottom)                                              |           |

## Article Table

| DESCRIPTION                                                                                                                                                                                                                                                          | Order No. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Optional Accessories</b>                                                                                                                                                                                                                                          |           |
| Tunnel Terminal 3x95-300mm <sup>2</sup> for MX4, 1 piece, max. 1250A<br>Size type 4, current max. 1250A, Al/Cu, control connection: M3, not maintenance-free for Alminum, attend to connection conditions!! No use in PV applications/frequency inverters permitted! | MX496730  |
| Tunnel Terminal 4x95-240mm <sup>2</sup> for MX4, 1 piece, max. 1250A<br>Size type 4, current max. 1250A, Al/Cu, control connection: M3, not maintenance-free for Alminum, attend to connection conditions!! No use in PV applications/frequency inverters permitted! | MX496731  |
| Phase separator plates MX4<br>Size type 4                                                                                                                                                                                                                            | MX496870  |
| Under Voltage Release 220-240VAC for MX4<br>Size type 4                                                                                                                                                                                                              | MX499471  |
| Under Voltage Release 380-415VAC for MX4<br>Size type 4                                                                                                                                                                                                              | MX499473  |
| Shunt trip 220-240VAC for MX4                                                                                                                                                                                                                                        | MX490154  |
| Shunt trip 380-415VAC for MX4                                                                                                                                                                                                                                        | MX491607  |
| Shunt trip 24VDC for MX4                                                                                                                                                                                                                                             | MX499736  |
| Auxiliary contact 1 CO                                                                                                                                                                                                                                               | MX199411  |
| Alarm contact 1 CO                                                                                                                                                                                                                                                   | MX199511  |
|                                                                                                                                                                                                                                                                      | MX490215  |
| Door Coupling Rotary Handle, for MX4<br>Size type 4, Axle length 10cm                                                                                                                                                                                                | MX490172  |