

Data Sheet for Article: MX416333--

Moulded Case Circuit Breaker Type EM, 3 pole, 70kA, 1600A

Rated current 1600A, Short circuit switching capacity (400V) 70kA, Size type 4, Tripping Unit Digital electronic release - Type EM, Poles 3



Schrack-Info

Standard electronic type release for power distribution EM

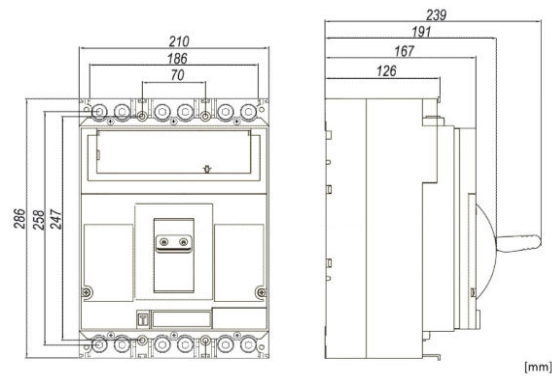
EM release has four-stage protection of overload, short circuit short-time delay, short circuit instantaneous protection and earth fault, with real-time current display, protection parameter information display, fault information display and parameter setting function.

- 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 $\pm 15\%$

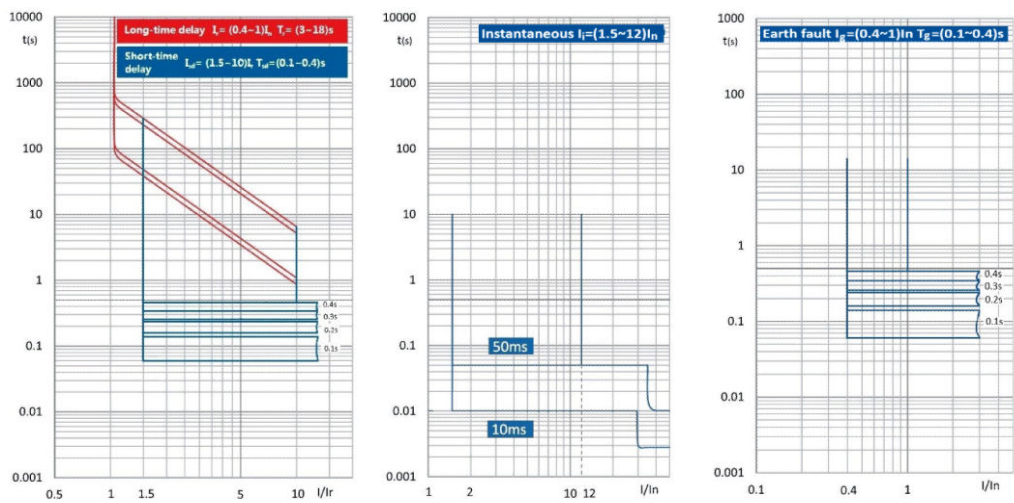
Technical Data

Net width (mm)	210,00
Net height (mm)	286,00
Net weight (kg)	13,50
EAN	9004840894967
Power loss (W)	307,00
Min. ambient temperature (°C)	-40
Max. ambient temperature (°C)	70
Device category	circuit breaker
Standard	EN 60947-2
Rated current (A)	1600
Rated voltage	< 690VAC
Short circuit switching capacity (400V) (kA)	70
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)	70
Rated service breaking capacity Ics (kA)	70
AC 380/400/415V	70kA (Icu) / 70kA (Ics)
AC 440V	65kA (Icu) / 50kA (Ics)
AC 500V	50kA (Icu) / 40kA (Ics)
AC 660/690V	30kA (Icu) / 30kA (Ics)
Electrical endurance (Operation cycle)	
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, 70kA, 1600A	
Rated current 1600A, Short circuit switching capacity (400V) 70kA, Size type 4, Tripping Unit Digital electronic release - Type EM, MX416333	
Poles 3	
Optional Accessories	
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.
Optional Accessories	
Tunnel Terminal 3x95-300mm ² for MX4, 1 piece, max. 1250A 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 ² for MX4, 1 piece, max. 1250A 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 Size type 4	MX496870
Under Voltage Release 220-240VAC for MX4 Size type 4	MX499471
Under Voltage Release 380-415VAC for MX4 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 Size type 4, Axle length 10cm	MX490172