

Moulded Case Circuit Breaker Type A, 4 pole, 50kA, 80A

Rated current 80A, 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 $\pm 20\%$

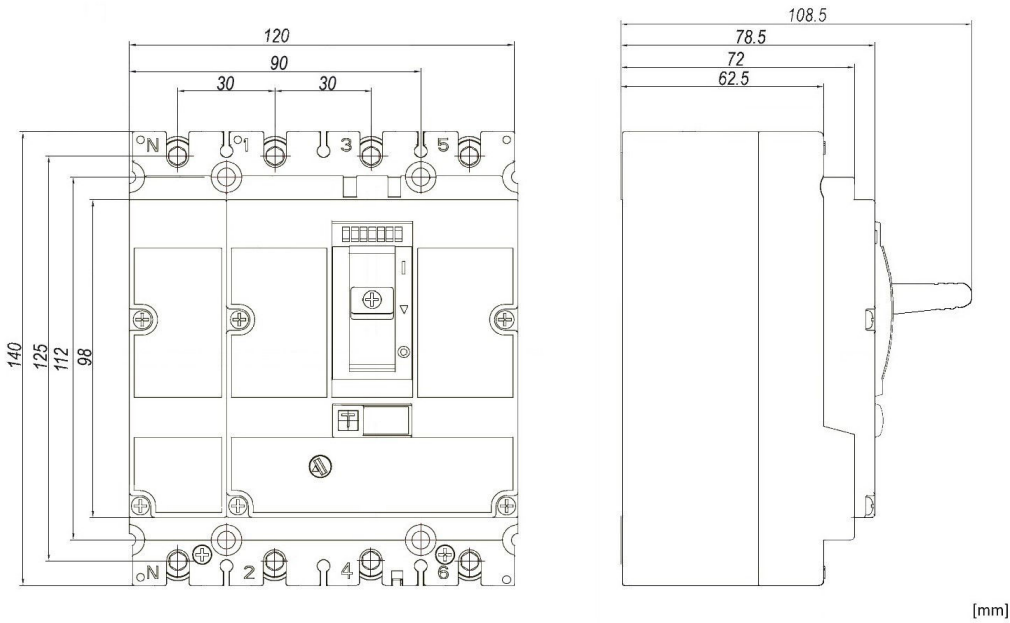
Technical Data

Net width (mm)	120,00
Net height (mm)	140,00
Net weight (kg)	1,55
EAN	9004840892758
Power loss (W)	33,20
Min. ambient temperature (°C)	-40

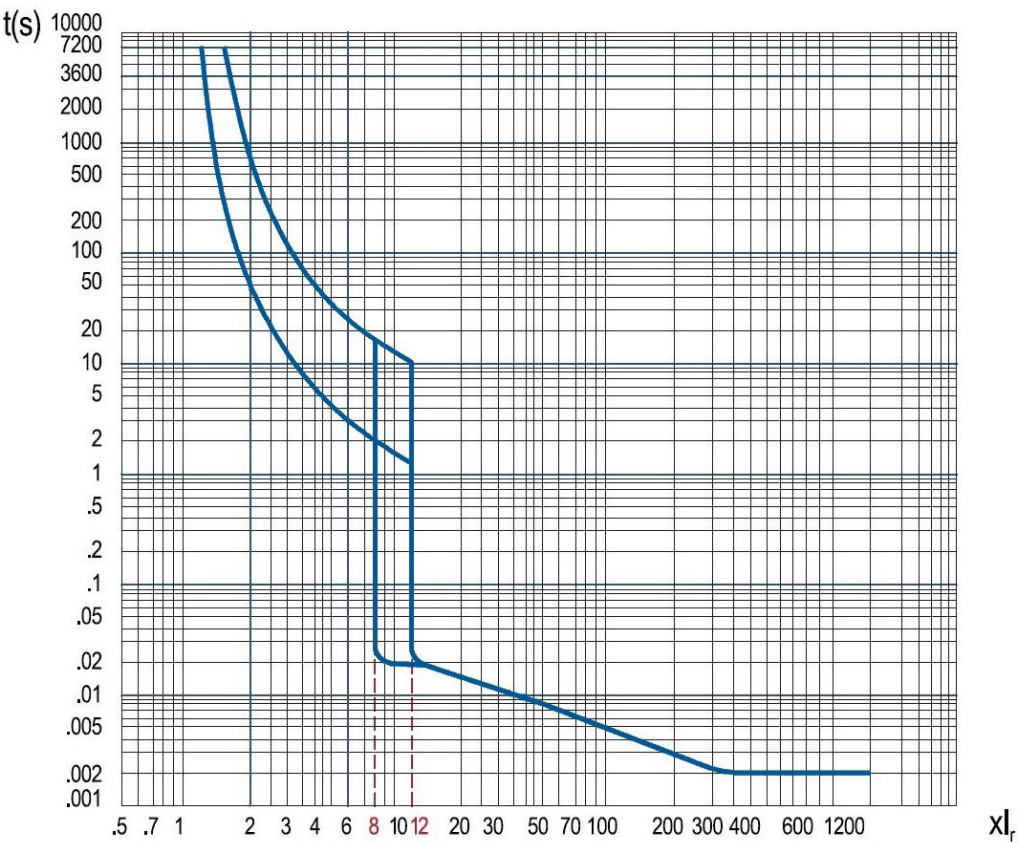
Technical Data - continued

Max. ambient temperature (°C)	70
Device category	circuit breaker
Standard	EN 60947-2
Rated current (A)	80
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)
Electrical endurance (Operation cycle)	
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, 80A Rated current 80A, Short circuit switching capacity (400V) 50kA, Size type 1, Tripping Unit Thermomagnetic release - Type A, Poles MX180241 4	
Optional Accessories	
Toggle Lever Locking Device for MX1 No lock included in the scope of delivery.	MX190199
Clip Plate 35mm DIN-S for MX1 4 pole Size type 1, Poles 4	MX190214
Box Terminal for MX1 2.5-75mm ² , 1 piece Size type 1 Al/Cu	MX190015
Connection extension 4 pole for MX1, 8 pieces Poles 4, 8 pieces included per item, for 4-pole MX1 (for top and bottom)	MX190020
Terminal Cover short 4 pole for MX1 Poles 4, for top and bottom	MX190781
Tunnel Terminal 1x16-95mm ² for MX1, 1 piece, max. 100A 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 Size type 1	MX196735
Socket for MX1 4 pole Size type 1, Poles 4	MX196872
Safety release for socket MX1 Size type 1	MX196873
Phase separator plates MX1 Size type 1	MX196870
Rotary Handle complete, lockable for MX1	MX190125
Door Coupling Rotary Handle, lockable, for MX1 Size type 1, Axle length 50cm	MX190172
Mechanical Interlock for MX1 4 pole Size type 1, Poles 4	MX191582
Under Voltage Release 110VAC for MX1 Size type 1	MX199462
Under Voltage Release 220-240VAC for MX1 Size type 1	MX199471
Under Voltage Release 380-415VAC for MX1 Size type 1	MX199473
Under Voltage Release 24VDC for MX1 Size type 1	MX199481

Article Table

DESCRIPTION	Order No.
Optional Accessories	
Under Voltage Release 220VDC for MX1 Size type 1	MX199489
Shunt trip 110VAC for MX1 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 Size type 1	MX199837
Remote Operator 110VAC/110-120VDC for MX1 Size type 1	MX199838
Remote Operator 220-240VAC/220VDC for MX1 Size type 1	MX199832
Remote Operator 380-415VAC for MX1 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 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