

# Moulded Case Circuit Breakers (MCCB)

## M series

### Technical Data

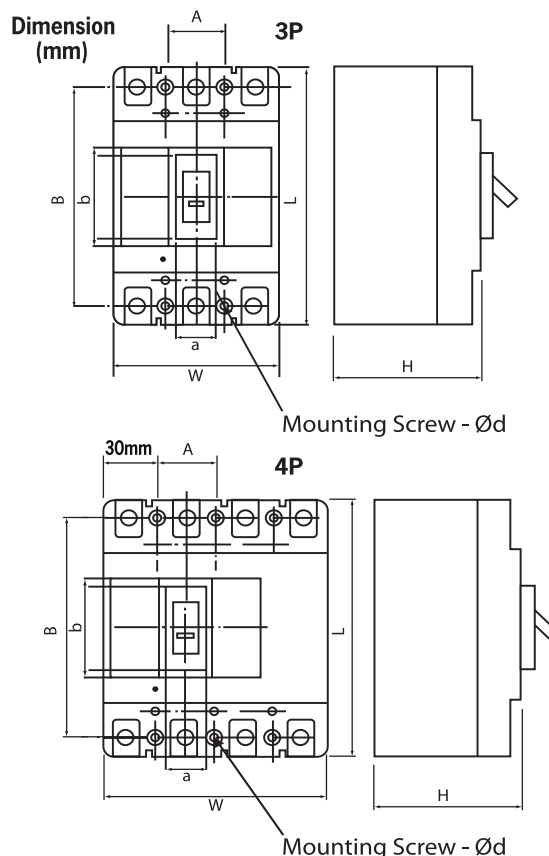
#### Description

- \* To protect conductors against overloads and short circuits currents in electrical distribution systems.
- \* Use in domestic, commercial and industrial installations.

#### Electrical

Design according to	IEC 60947-2
Rated voltage (Ue)	415V~
Rated current (In)	20 - 400A at 40°C
Utilization category	Cat A
Rated insulation voltage (Ui)	690 V~
Frequency	50/60Hz
Tripping mechanism	Fixed thermal & magnetic
Calibration Temp	40°C
Degree of protection	IP20
Electrical & mechanical endurance	10,000 operating cycles
Polution Degree	3
Rated Impulse Voltage (1-2/50µs) (Uimp)	6kV
Ith	I the =In

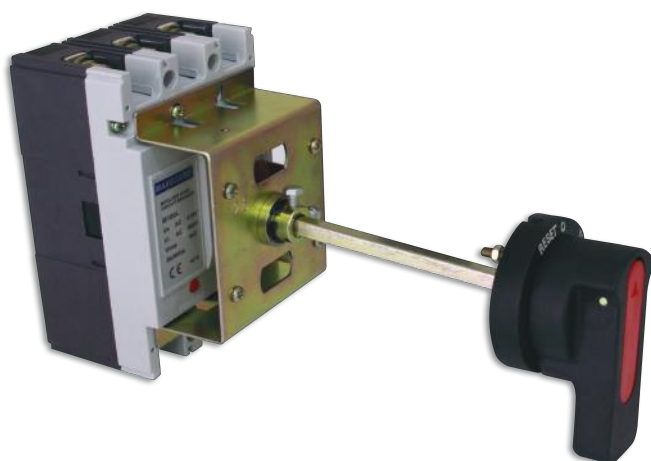
**Note:** 4P MCCB - N is Protected



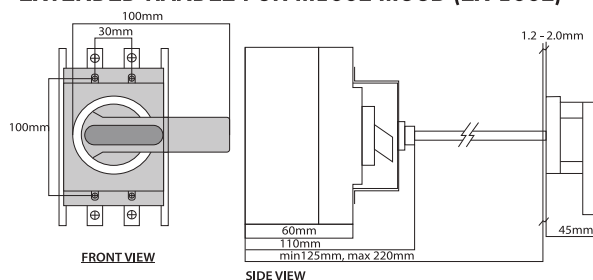
### MCCB Dimension (mm)

MODEL	POLE	W	L	H	A	B	a	b	Ød	WEIGHT(Kg)
M63L	2P / 3P	78	135	74	25	116	22	60	M3	0.8/0.9
M100L	3P	92	150	69	30	128	22	60	M4	1.25
M100L	* 4P	122	150	69	30	128	22	51	M4	1.6
M225L	3P	106	165	88	35	126	25	60	M4	1.9
M400L	3P	140	257	107	44	215	55	102	M5	4.5

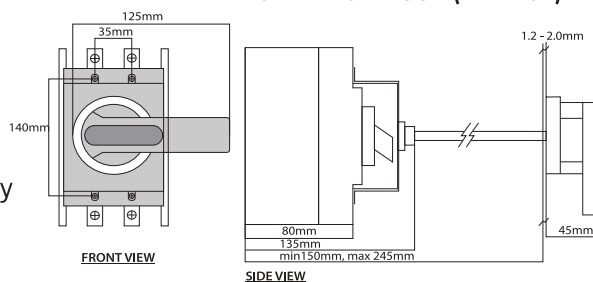
\*N-PROTECTED



### EXTENDED HANDLE FOR M100L MCCB (EX-100L)



### EXTENDED HANDLE FOR M225L MCCB (EX-225L)

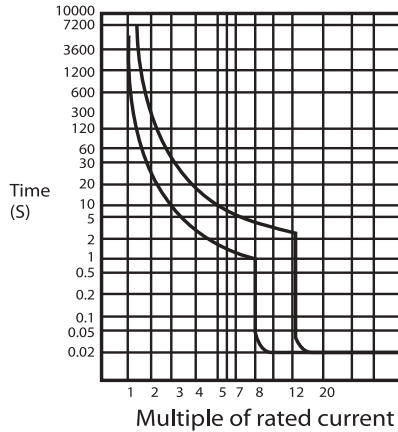


Externally operated handles for MCCBs which can be installed to enclosures of varying depth. Handles are padlockable. Mechanically transfer the position ON-TRIP-OFF of MCCBs.

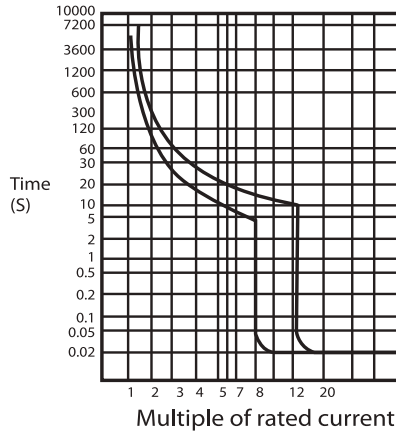
# Moulded Case Circuit Breakers (MCCB) M series



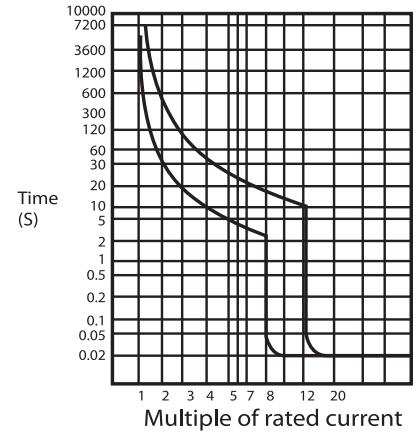
Tripping curve of M63L/M100L (16-32)



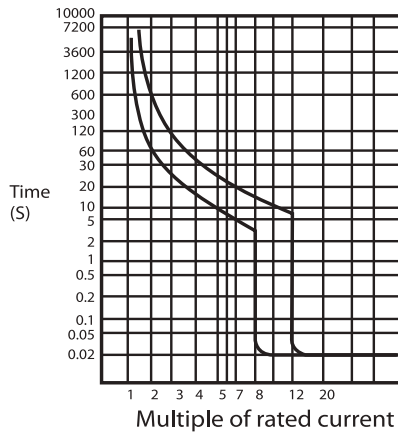
Tripping curve of M63L/M100L (40-100)



Tripping curve of M225L



Tripping curve of M400L



Temperature Compensation Table

Ambient Temperature (°C)	Rated Current %			
	M63L & M100L (16A - 32A)	M63L & M100L (40A - 100A)	M225L	M400L
0	123	113	113	122
10	117	110	110	117
15	115	108	108	115
20	112	106	106	112
25	110	105	105	110
30	107	103	103	106
35	105	102	102	104
40	100	100	100	100
50	90	92	92	94
55	87	90	90	90

## 24 Hour Time Switch (Q24TH)



Type	cat. no.
Analogue	Q24TH
<b>Width</b>	72mm
<b>Packing size box /carton</b>	1/ 100

Technical Data	
<b>Electrical</b>	
Rated voltage	240V~
Rated current (contact)	10A
Power reserve	72h
Frequency	50Hz

Mechanical	
Terminal capacity	1-4mm <sup>2</sup>
Mounting installation	DIN rail EN 50022

