

# Technical Data Ex9M2

## Moulded Case Circuit Breakers up to 250 A

### General parameters

Suitable for household as well as industrial applications

Thermal release adjustable  $(0.8-0.9-1) \times I_n$

Instantaneous short-circuit current release  $(5-6-7-8-9-10) \times I_n$

#### Internal accessories

Auxiliary contact unit	AX21	101395
Alarm contact unit	AL21	101396
Early-make auxiliary contact	EC 21	106317
Shunt trip releases	SHT22	101416-101424
Undervoltage releases	UVT22	101425-101426
Max. number of installed internal accessories is 2 pcs of AX21, 1 pc of AL21 or EC 21 and 1 pc of a release (SHT22 or UVT22)		

#### External accessories

Direct rotary handle	RHD22	101429
Extended rotary handle	ERH22	101428
Remote motor operators	MOD22	101430-101434
Terminal cover, short	TCV22 3P, 4P	101442, 102374
Terminal cover, long	TCE22 3P, 4P	101443, 102375
Phase barrier set	PB22 3P, 4P	101444, 104853
Connection terminals	MC22	103709-103714
DIN-rail adaptor	DRA22	106320

Mounting screws, box terminals as well as phase barriers in the scope of delivery

### Electrical parameters

	Ex9M2S	Ex9M2N	Ex9M2H	Ex9M2P
Tested according to	IEC/EN 60947-2			
Rated op. voltage $U_e$	415/690 V AC			
Rated insulation voltage $U_i$	800 V			
Rated impulse withstand voltage $U_{imp}$	8 kV			
Rated frequency	50/60 Hz			
Rated ultimate short-circuit breaking capacity $I_{cu}$	36 kA / 415 V 6 kA / 690 V	50 kA / 415 V 6 kA / 690 V	100 kA / 415 V 8 kA / 690 V	150 kA / 415 V 10 kA / 690 V
Rated service short-circuit breaking capacity $I_{cs}$	36 kA / 415 V 6 kA / 690 V	50 kA / 415 V 6 kA / 690 V	100 kA / 415 V 8 kA / 690 V	150 kA / 415 V 10 kA / 690 V
Rated short-circuit making capacity $I_{cm}$	75.6 kA / 415 V 7.5 kA / 690 V	105 kA / 415 V 7.5 kA / 690 V	220 kA / 415 V 9 kA / 690 V	330 kA / 415 V 13.6 kA / 690 V
Rated current	125 — 250 A			
Overvoltage category	III / 3			
Utilization category	A			
Mechanical service life	15 000 operation cycles			
Electrical service life	5 000 operation cycles			
Maximum frequency of switch. cycles	120 operating cycles per hour			
Total disconnection time at short circuit	< 2 ms			
Internal resistance per pole at 250 A	0.40 mΩ			
Power loss per pole at 250 A	25 W			
Line voltage connection	arbitrary above or below			

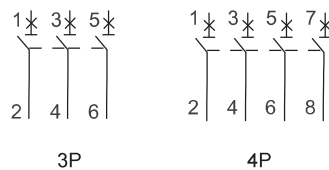
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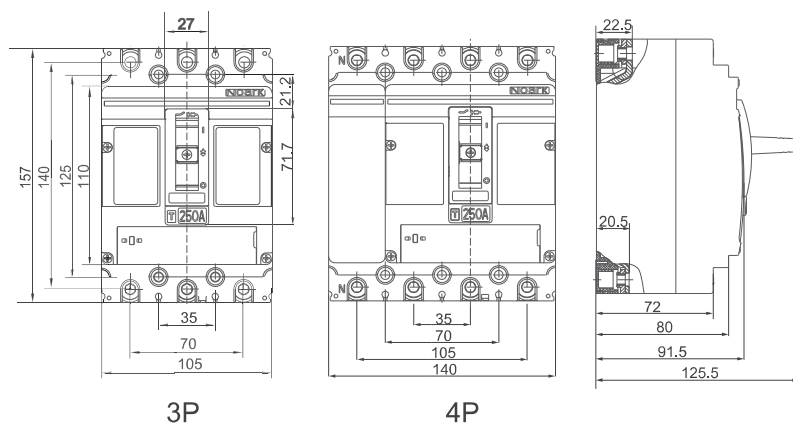
### Mechanical parameters

Device width 3P / 4P	105 mm / 140 mm
Device height	157 mm
Device depth	91.5 mm
Mounting	onto panel
Degree of protection	IP40, IP20 terminals
Terminals	box
Terminal capacity	10 — 120 mm <sup>2</sup>
Fastening torque of terminals	25 Nm
Ambient temperature	-25 — +70 °C
Altitude	≤ 2 000 m
Relative humidity	≤ 50 % at 40 °C, ≤ 90 % monthly average
Resistance to humidity and heat	class 2
Pollution degree	3
Weight 3P / 4P	1.7 kg / 2.2 kg
Mounting position	vertical, can be rotated by 90° in each axis

### Wiring diagram



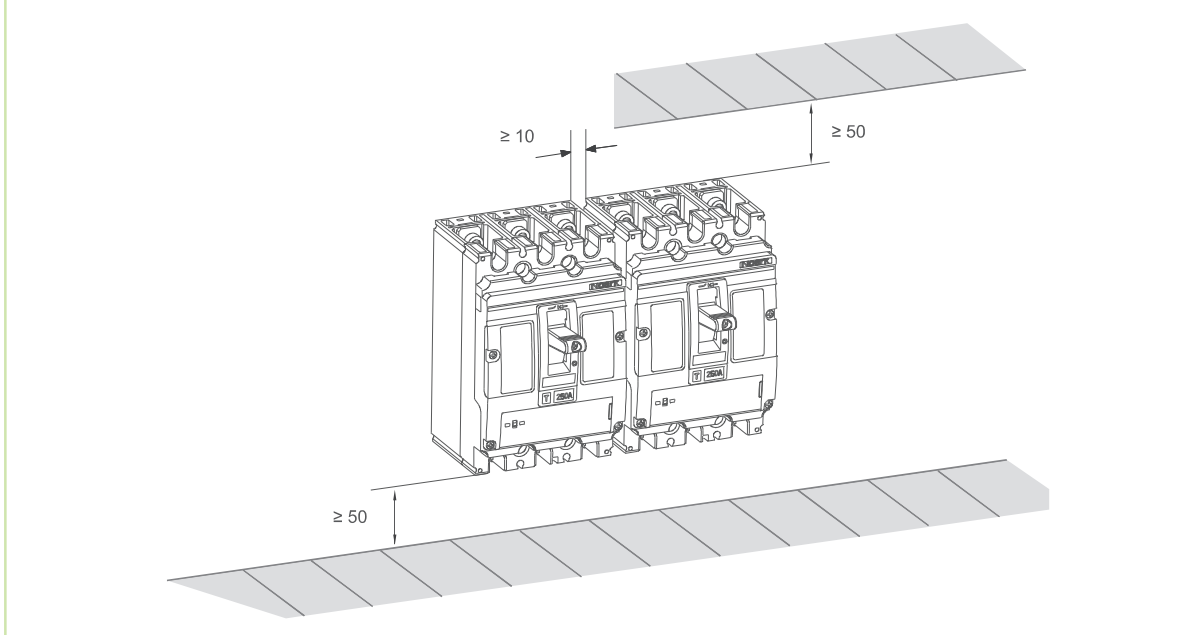
### Dimensions



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### Installation space



### Tripping characteristics

