

Technical Data Ex9M3

Moulded Case Circuit Breakers up to 400 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 23	106317
Shunt trip releases	SHT22	101416-101424
Undervoltage releases	UVT22	101425-101426
Max. number of installed internal accessories is 3 pcs of AX21, 1 pc of AL21 or EC 23 and 1 pc of a release (SHT22 or UVT22)		

External accessories

Direct rotary handle	RHD23	101483
Extended rotary handle	ERH23	101482
Remote motor operators	MOD23	101484-101488
Terminal cover, short	TCV23 3P, 4P	101489, 102376
Terminal cover, long	TCE23 3P, 4P	101490, 102377
Phase barrier set	PB23 3P, 4P	101491, 104854
Connection terminals	MC23	103715-103722

Mounting screws as well as phase barriers in the scope of delivery

Electrical parameters

	Ex9M3S	Ex9M3N	Ex9M3H	Ex9M3P
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 3 kA / 690 V	50 kA / 415 V 3 kA / 690 V	100 kA / 415 V 4 kA / 690 V	150 kA / 415 V 5 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	250 — 400 A			
Overvoltage category	III			
Utilization category	A			
Mechanical service life	10 000 operation cycles			
Electrical service life	2 000 operation cycles			
Maximum frequency of switch. cycles	60 cycles per hour			
Total disconnection time at short circuit	< 2 ms			
Internal resistance per pole at 400 A	0.15 mΩ			
Power loss per pole at 400 A	24 W			
Line voltage connection	arbitrary above or below			

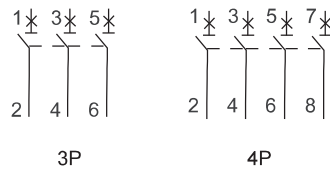
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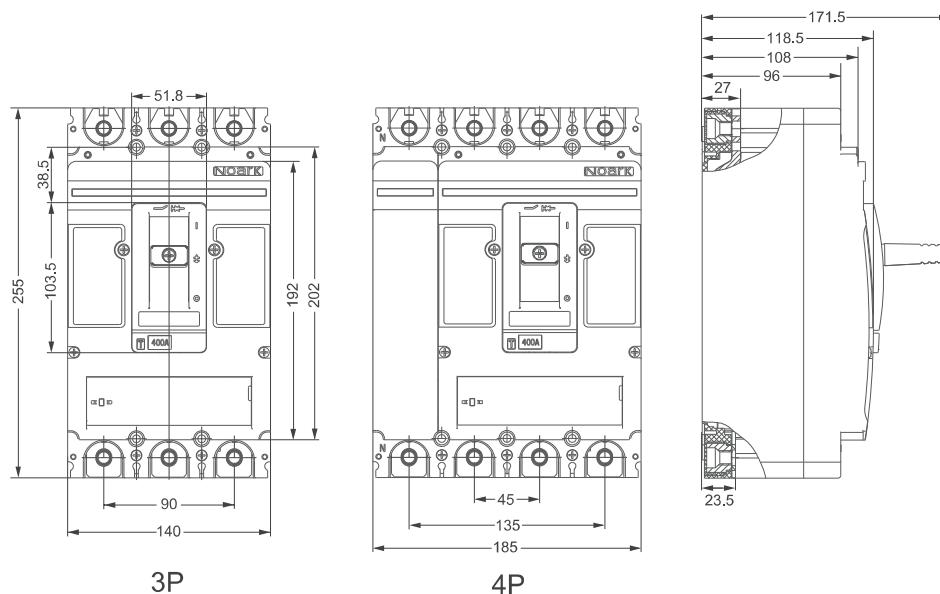
Mechanical parameters

Device width 3P / 4P	140 mm / 185 mm
Device height	255 mm
Device depth	118.5 mm
Mounting	onto panel
Degree of protection	IP40, IP20 terminals
Terminals	M10 screws
Busbar thickness	≤ 8 mm
Busbar width	≤ 30 mm
Cable lug width	≤ 30 mm
Fastening torque of terminals	25 — 30 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	5 kg / 6.6 kg
Mounting position	vertical, can be rotated by 90° in each axis

Wiring diagram



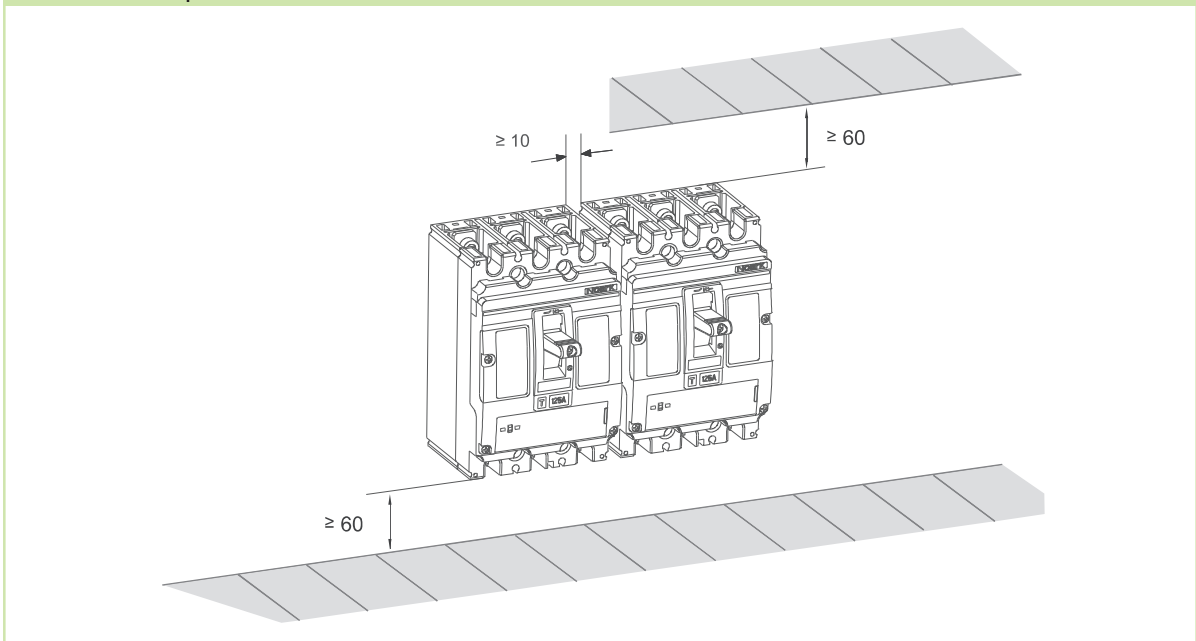
Dimensions



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Installation space



Tripping characteristics

