



MM503N

Motor protection circuit breaker 3P 0.25-0.4A ; 0.06/0.09 kW at 230/415V

Technical characteristics

Number of poles	3 F
Configuration	
Number of modules	2.5
Main electrical features	
Rated operational voltage Ue	690 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	690 \
Rated impulse withstand voltage	6000 V
Electric current	
Rated current	0.4 Å
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	150 kA
Magnetic regulating currrent	12.4 / 15.5 / 18.6 lr
Thermal trip setting with 30°	0.25 / 0.27 / 0.29 / 0.31 / 0.33 / 0.34 / 0.36 / 0.38
Rating current 0°C according to IEC 60947	0.4 /
Rating current 10°C according to IEC 60947	0.4 4
Rating current 20°C according to IEC 60947	0.4 /
Rating current 30°C according to IEC 60947	0.4 Å
Rating current 40°C according to IEC 60947	0.4 Å
Rating current 50°C according to IEC 60947	0.4 Å
Rated service breaking capacity Ics AC according IEC 60947-2	100 %
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	150 k/
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	150 k/
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	150 k/
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	100 kA
Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2	150 kA
Rated ultimate short-circuit breaking	

Dimensions

Frequency	
Frequency	50 to 60
Power	
Total power loss under IN	5.22
Standard power rating of 3 phase motor in AC3 under 230V	0.06
Standard power rating of 3 phase motor in AC3 under 400V	0.09
Rated operational power for 3P under 220- 230V AC3 according IEC60947-4	0.6
Rated operational power for 3P under 240V AC3 according IEC60947-4	0.06
Rated operational power for 3P under 415V AC3 according IEC60947-4	0.09
Rated operational power for 3P under 440V AC3 according IEC60947-4	0.12
Rated operational power for 3P under 500V AC3 according IEC60947-4	0.12
Electrical specifications	
Nominal tightening torque of main circuit	1.7
Endurance	
Electric endurance in number of cycles	500
Mechanical endurance in number of operations per hour	
Number of mechanical operations	1000
Installation, mounting	
 Tightening torque	1,71
Type connection of power circuit	with sci
Connection	
Connection cross-section of input and output with screws, for massive conductors	1 / 6 m
Connection cross section of access and exit with screws, for flexible conductor	1 / 6 m
Cable flexibel cross section for main circuit	1x (1 - 6) mm² / 2x (1 - 6) m
Cable rigid cross section for main circuit	1x (1 - 6) mm² / 2x (1 - 6) m
Type of connection	with scr
Settings	
min/maxi threshold value of the AC magnetic operation	4.96 / 7.
Setting type In or Ith	
Equipment	
Automatic compensation of the temperature	-5 / 40
Can be accessorized	Ň

Use cases

Standards

Standard text	IEC 60947-4-1 ; EN 60947-4-1
European directive RoHs	voluntary compliance

Safety

IP20
Yes
Yes
No
Yes

Use conditions

Operating temperature	-2555 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Storage/transport temperature	-2580 °C

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Temperature of calibration

30 °C