



MM505N



Motor protection circuit breaker 3P 0.63-1A ; 0.12/0.25 kW at 230/415V

Technical properties

Architecture

Type of order	Short thumb-grip
Number of poles	3 P
Type of pole	3 P
Fixing mode	DIN rail type O (symmetrical)

Configuration

Number of modules	2.5
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Main electrical features

Rated operational voltage Ue	690 V
Type of supply voltage	AC
Frequency	50/60 Hz

Voltage

Rated insulation voltage	690 V
Rated impulse withstand voltage	6000 V

Electric current

Rated current	1 A
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	150 kA
Magnetic regulating current	12.4 / 15.5 / 18.6 In
Thermal trip setting with 30°	0.63 / 0.68 / 0.72 / 0.77 / 0.82 / 0.86 / 0.91 / 0.95 / 1 A
Rating current 0°C according to IEC 60947	0.04 A
Rating current 10°C according to IEC 60947	0.04 A
Rating current 20°C according to IEC 60947	0.04 A
Rating current 30°C according to IEC 60947	0.04 A
Rating current 40°C according to IEC 60947	0.04 A
Rating current 50°C according to IEC 60947	0.04 A
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 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	150 kA
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	150 kA
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 capacity Icu under 380V AC IEC 60947-2	150 kA
Dimensions	
Strip length of main circuit connections	10 mm
Frequency	
Frequency	50 to 60 Hz
Power	
Total power loss under IN	5.33 W
Standard power rating of 3 phase motor in AC3 under 230V	0.12 kW
Standard power rating of 3 phase motor in AC3 under 400V	0.25 kW
Rated operational power for 3P under 220-230V AC3 according IEC60947-4	0.12 kW
Rated operational power for 3P under 240V AC3 according IEC60947-4	0.12 kW
Rated operational power for 3P under 415V AC3 according IEC60947-4	0.25 kW
Rated operational power for 3P under 440V AC3 according IEC60947-4	0.25 kW
Rated operational power for 3P under 500V AC3 according IEC60947-4	0.38 kW
Electrical specifications	
Nominal tightening torque of main circuit	1.7 Nm
Endurance	
Electric endurance in number of cycles	50000
Mechanical endurance in number of operations per hour	40
Number of mechanical operations	100000
Installation, mounting	
Tightening torque	1,7Nm
Type connection of power circuit	with screw
Connection	
Connection cross-section of input and output with screws, for massive conductors	1 / 6 mm ²
Connection cross section of access and exit with screws, for flexible conductor	1 / 6 mm ²
Cable flexibel cross section for main circuit	1x (1 - 6) mm ² / 2x (1 - 6) mm ²
Cable rigid cross section for main circuit	1x (1 - 6) mm ² / 2x (1 - 6) mm ²
Type of connection	with screw
Settings	
min/maxi threshold value of the AC magnetic operation	12.4 / 18.6 A
Setting type In or Ith	IN
Equipment	

Subject to technical modifications

Automatic compensation of the temperature	-5 / 40 °C
Can be accessorized	Yes
Use cases	
Category of use	AC3
Standards	
Standard text	IEC 60947-4-1 ; EN 60947-4-1
European directive RoHs	voluntary compliance
European directive WEEE	concerned
Safety	
Protection index IP	IP20
Phase failure sensitive	Yes
Use conditions	
Operating temperature	-25...55 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Storage/transport temperature	-25...80 °C
temperatur	
Temperature of calibration	30 °C