



MM507N



## Motor protection circuit breaker 3P 1.6-2.5A ; 0.37/0.75 kW at 230/415V

### Technical characteristics

#### Architecture

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	2.5 A
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	5 kA
Magnetic regulating current	12.4 / 15.5 / 18.6 In
Thermal trip setting with 30°	1.6 / 1.7 / 1.8 / 1.9 / 2.1 / 2.2 / 2.3 / 2.4 / 2.5 A
Rating current 0°C according to IEC 60947	2.5 A
Rating current 10°C according to IEC 60947	2.5 A
Rating current 20°C according to IEC 60947	2.5 A
Rating current 30°C according to IEC 60947	2.5 A
Rating current 40°C according to IEC 60947	2.5 A
Rating current 50°C according to IEC 60947	2.5 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
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#### Dimensions

Strip length of main circuit connections	10 mm
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#### Frequency

Frequency	50 to 60 Hz
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#### Power

Total power loss under IN	5.16 W
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Standard power rating of 3 phase motor in AC3 under 230V	0.37 kW
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Standard power rating of 3 phase motor in AC3 under 400V	0.75 kW
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Rated operational power for 3P under 220-230V AC3 according IEC60947-4	0.37 kW
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Rated operational power for 3P under 240V AC3 according IEC60947-4	0.37 kW
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Rated operational power for 3P under 415V AC3 according IEC60947-4	0.75 kW
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Rated operational power for 3P under 440V AC3 according IEC60947-4	1.1 kW
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Rated operational power for 3P under 500V AC3 according IEC60947-4	1.1 kW
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#### Electrical specifications

Nominal tightening torque of main circuit	1.7 Nm
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#### Endurance

Electric endurance in number of cycles	50000
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Mechanical endurance in number of operations per hour	40
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Number of mechanical operations	100000
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#### Installation, mounting

Type connection of power circuit	with screw
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#### Connection

Connection cross-section of input and output with screws, for massive conductors	1 / 6 mm <sup>2</sup>
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Connection cross section of access and exit with screws, for flexible conductor	1 / 6 mm <sup>2</sup>
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Cable flexibel cross section for main circuit	1x (1 - 6) mm <sup>2</sup> / 2x (1 - 6) mm <sup>2</sup>
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Cable rigid cross section for main circuit	1x (1 - 6) mm <sup>2</sup> / 2x (1 - 6) mm <sup>2</sup>
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#### Settings

min/maxi threshold value of the AC magnetic operation	31 / 46.5 A
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Setting type In or Ith	IN
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#### Equipment

Automatic compensation of the temperature	-5 / 40 °C
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Can be accessorized	Yes
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#### Use cases

Subject to technical modifications

**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
RoHS conform	Yes
Halogen free	No
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

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Temperature of calibration	30 °C
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