



MM501N



Motor protection circuit breaker 3P 0.1-0.16A ; 0.02/0.03 kW at 230/415V

Technical properties

Architecture

Type of order	Short thumb-grip
Number of poles	3 P
Type of pole	3 P

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	0.16 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°	0.1 / 0.11 / 0.12 / 0.13 / 0.14 / 0.15 / 0.16 A
Rating current 0°C according to IEC 60947	0.16 A
Rating current 10°C according to IEC 60947	0.16 A
Rating current 20°C according to IEC 60947	0.16 A
Rating current 30°C according to IEC 60947	0.16 A
Rating current 40°C according to IEC 60947	0.16 A
Rating current 50°C according to IEC 60947	0.16 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 5.39 W

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 mm²

Connection cross section of access and exit with screws, for flexible conductor 1 / 6 mm²

Cable flexibel cross section for main circuit 1x (1 - 6) mm² / 2x (1 - 6) mm²

Cable rigid cross section for main circuit 1x (1 - 6) mm² / 2x (1 - 6) mm²

Type of connection with screw

Settings

min/maxi threshold value of the AC magnetic operation 2 / 3 A

Setting type In or Ith IN

Equipment

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

Safety

REACH conform Yes

RoHS conform Yes

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