

MM513N

Motor starter 20.0-25.0A 2.5M

Technische Merkmale

Architecture

Number of poles	3 P
Type of pole	3 P

Main electrical features

Frequency	50/60 Hz
Rated operational voltage Ue	230/690 V

Voltage

Rated insulation voltage	690 V
Rated impulse withstand voltage	6000 V

Electric current

Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	50 kA
Rated service breaking capacity Ics AC according IEC 60947-2	20 %
Breaking point 230 V 50 Hz EN 60947-2 (IEC157-1)	16 kA
Breaking point 400 V 50 Hz EN 60947-2 (IEC157-1)	16 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	10 kA
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	3 kA
Magnetic regulating currrent at 40° C	12,4/15,5/18,6 In
Thermal trip setting with 30°	20/25 A

Electric current / temperature

Rating current -15°C	25 A
Rating current -20°C	25 A
Rating current 0°C	25 A
Rating current 10°C	25 A
Rating current -10°C	25 A
Rating current 15°C	25 A
Rating current 20°C	25 A
Rating current 25°C	25 A
Rating current -25°C	25 A
Rating current 30°C	25 A
Rating current 35°C	25 A
Rating current 40°C	25 A
Rating current 45°C	25 A
Rating current 5°C	25 A
Rating current -5°C	25 A
Rating current 50°C	25 A
Rating current 55°C	25 A
Rating current 0°C according to IEC 60947-2	25 A
Rating current 10°C according to IEC 60947-2	25 A
Rating current -10°C according to IEC 60947-2	25 A
Rating current 150°C according to IEC 60947-2	25 A
Rating current -15°C according to IEC 60947-2	25 A
Rating current 20°C according to IEC 60947-2	25 A
Rating current -20°C according to IEC 60947-2	25 A
Rating current 25°C according to IEC 60947-2	25 A
Rating current -25°C according to IEC 60947-2	25 A
Rating current 30°C according to IEC 60947-2	25 A
Rating current 35°C according to IEC 60947-2	25 A
Rating current 40°C according to IEC 60947-2	25 A
Rating current 45°C according to IEC 60947-2	25 A
Rating current 5°C according to IEC 60947-2	25 A
Rating current -5°C according to IEC 60947-2	25 A
Rating current 50°C according to IEC 60947-2	25 A
Rating current 55°C according to IEC 60947-2	25 A

Power

Power loss per pole at In	2,3 W
Total power loss under IN	7 W
Standard power rating of 3 phase motor in AC3 under 230V	5,5 kW
Standard power rating of 3 phase motor in AC3 under 400V	12,5 kW

Endurance

Electric endurance in number of cycles	50000
Mechanical endurance in number of operations per hour	40
Number of mechanical operations	100000

Dimensions

Depth of installed product	70 mm
Height of installed product	90 mm
Width of installed product	45 mm

Installation, mounting

Tightening torque	1,7Nm

Connection

Type of connection	with screw
Connection cross section of access and exit with screws, for flexible conductor	1/6 mm²
Connection cross-section of input and output with screws, for massive conductors	1/6 mm²

Settings

min/maxi threshold value of the AC magnetic operation	310/465 A

Equipment

Automatic compensation of the temperature	-25 to 55 °C

Use cases

Category of use	AC-3

Use

Vibrations and shocks withstand	half-sinusoidal shock 10ms to IEC 60068-2-27 - 25g

Standards

Standard text	IEC 60947-2, IEC 60 947-4-1
European directive WEEE	concerned

Safety

Protection index IP	IP20

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
Storage temperature	-25 to 80 °C
Air humidity protection	IEC 60068-2-78 / IEC 60068-2-30