

SM1P0400 MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V, 2.5...4A



Motor protective circuit Product designation breaker SM1P Product type designation Number of poles 3 nr. Magnetic protection yes Thermal protection yes Phase failure detection Yes Rated insulation voltage Ui IEC/EN V 690 Rated impulse withstand voltage Uimp kV 6 Rated frequency Hz 50/60 2.5...4 Thermal trip adjustment range Rated current (In) А 4 Magnetic tripping 13 x In Total power dissipation W 2.29 Operational short-circuit current breaking capacity (Ics) at AC 230V kΑ 100 400V kA 100 440V kA 100 500V kΑ 100 690V kΑ 3 Maximum short-circuit current breaking capacity (Icu) at AC 230V kΑ 100 400V kA 100 440V kΑ 100 500V kΑ 100 690V kΑ 3 Tripping class 10A IEC Utilization category Α Mechanical life 100000 cycles Electrical life cycles 100000 Mechanical f Tightening torque for terminals min Nm 2.5 max Nm 3 min lbin 1.8 Ibin max 2.2 Max number of wires simultaneously connectable nr. 2 Conductor section AWG/Kcmil min 16 max 8 Flexible w/o lug conductor section min mm² 1 Flexible c/w lug conductor section min mm² 1 Flexible with insulated spade lug conductor section mm² min 1 Screwdriver PH2 Power terminal protection according to IEC/EN 60529 IP20 Cable stripping lenght main circuit mm 1 Temperature Operating temperature °C -20 min °C 60 max Storage temperature °C -50 min max °C 80 Compensation temperature

Max altitude

SM1P0400

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

°C

°C

m

-20

50

3000

min

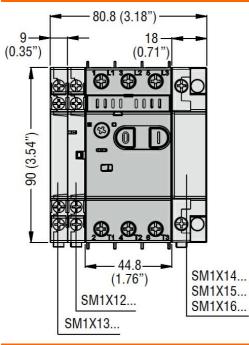
max

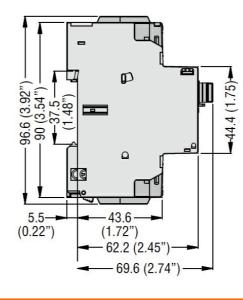


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ENERGY AND AUTOMATION

Dperating position		
normal		Vertical plan
allowable		Any
-ixing		Screw / DIN rail 35mm
Neight	g	350
JL technical data		
JL508 / UL60947-4-1 Manual Motor Controller - Short circuit current		
Notor Disconnect		
at 240V	kA	30
at 480V	kA	30
at 600V	kA	30
protection		100A class J
Group Motor Installation		
at 240V	kA	30
at 480V	kA	30
at 600V	kA	30
protection		100A class J
Fap Conductor Protection		
at 480Y/277V	kA	50
at 600Y/347V	kA	50
JL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short circuit current		
UL508 / UL 60947-4-1 Manual Self Protected Combination M	otor Ø ontr	oller5(Type E) Short-circuit
UL508 / UL 60947-4-1 Manual Self Protected Combination M	otor Koontr	oller5(Crype E) Short-circuit
UL508 / UL 60947-4-1 Manual Self Protected Combination M	otor Koontr	oller5(Type E) Short-circuit
Vaximum UL/CSA horsepower ratings single-phase		
at 110V-120V	hp	1/8
at 220V-240V	hp	1/3
Vaximum UL/CSA horsepower ratings three-phase, 3-pole		
at 200V-208V	hp	3/4
at 220V-240V	hp	3/4
at 440V-480V	hp	2





at 550V-600V

hp

3

Wiring diagrams

Dimension

SM1P0400

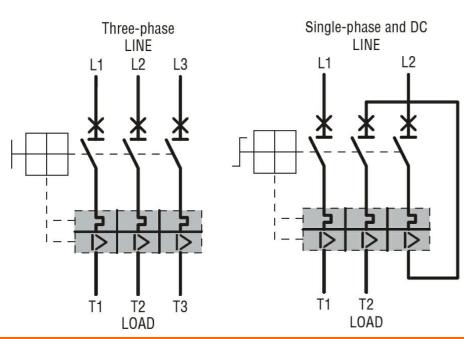
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Certifications and com	nce	
Certifications		
	CSA C22.2 n° 14	
	IEC/EN 60947-1	
	IEC/EN 60947-2	
	IEC/EN 60947-4-1	
	UL508	
Compliance		
	cULus	
	EAC	
ETIM 6 algoritization		

FIM 6 classification