

Product designation

Magnetic protection

Thermal protection

Phase failure detection

Electr

Product type designation

feature Number of poles

## SM1P0250 MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V, 1.6...2.5A



Motor protective circuit breaker SM1P 3 nr. yes yes Yes V 690

Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range			1.62.5
Rated current (In)		А	2.5
Magnetic tripping			13 x ln
Total power dissipation		W	1.63
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	3
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	3
Tripping class			10A
IEC Utilization category			А
Operations			
Mechanical life		cycles	100000
Electrical life		cycles	100000
Mechanical features			
Tightening torque for terminals			

Nm min 2.5 Nm max 3 min lbin 1.8 Ibin 2.2 max Max number of wires simultaneously connectable nr. 2 Conductor section AWG/Kcmil 16 min max 8 Flexible w/o lug conductor section mm² min 1 Flexible c/w lug conductor section min mm² 1 Flexible with insulated spade lug conductor section min mm² 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 ۰**۲** 60

		max	U	60	
	Storage temperature				
		min	°C	-50	
		max	°C	80	
	Compensation temperature				
		min	°C	-20	
		max	°C	50	
e			m	3000	

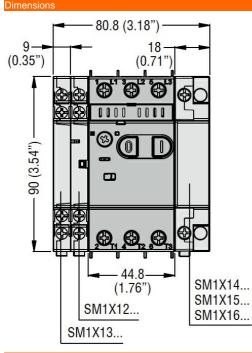


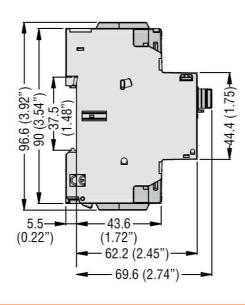


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ENERGY AND AUTOMATION

Operating position	normal		Vertical plan
	allowable		Any
-ixing			Screw / DIN rail 35mm
Neight		g	350
UL 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
ρ	rotection		100A class J
Group Motor Installation			
	at 240V	kA	30
	at 480V	kA	30
	at 600V	kA	30
ρ	rotection		100A class J
Fap Conductor Protection			
at 48	0Y/277V	kA	50
at 60	0Y/347V	kA	50
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short circuit current			
UL508 / UL 60947-4-1 Manual Self Protected Cor	mbination Moto	or KAlontro	oller5(Crype E) Short-circuit o
UL508 / UL 60947-4-1 Manual Self Protected Cor			
UL508 / UL 60947-4-1 Manual Self Protected Cor	mbination Moto	or KAontro	oller5(0Type E) Short-circuit
Maximum UL/CSA horsepower ratings single-phase			
at 11	0V-120V	hp	-
	0V-240V	hp	1/6
Maximum UL/CSA horsepower ratings three-phase, 3-pole			
at 20	0V-208V	hp	1/2
at 22	0V-240V	hp	1/2
-1.44	01/ 4001/		





at 440V-480V

at 550V-600V

hp

hp

1

1.5

Wiring diagrams

SM1P0250

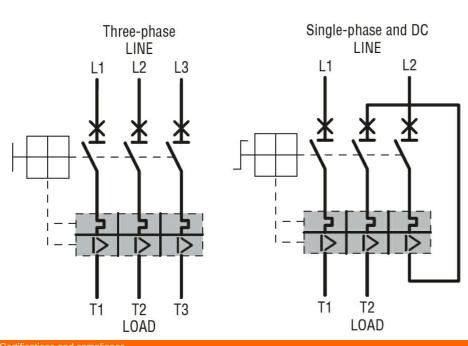
SM1P0250





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Certifications and compli		
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 classification		