SM1P0250

ENERGY AND AUTOMATION

SM1P0250

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V,



Number of poles	Product designation			Motor protective circuit breaker
Number of poles nr. 3 Magnetic protection yes Thermal protection yes Phase failure detection Yes Rated insulation voltage UI IEC/EN V 690 Rated insulation voltage Uimp kV 6 Rated frequency Hz 50/60 Thermal trip adjustment range 1.62.5 Rated current (In) A 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 400V kA 100 440V kA 100 400V kA 100 40V kA 100 40V kA 100 Maximum short-circuit current breaking capacity (Icu) at AC 230V kA 100 Maximum short-circuit current breaking capacity (Icu) at AC 230V kA 100 Maximum short-circuit current breaking capacity (Icu) at AC 230V kA </td <td>Product type designation</td> <td></td> <td></td> <td>SM1P</td>	Product type designation			SM1P
Magnetic protection yes Thermal protection yes Phase failure detection Yes Rated insulation voltage Ui IEC/EN V 690 Rated insulation voltage Uirip kV 6 Rated frequency Hz 50/60 Thermal trip adjustment range 1.62.5 Rated current (In) A 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 440V kA 100 440V kA 100 440V kA 100 440V kA 100 440V kA 100 440V kA 100 440V kA 100 500V kA 100 440V kA 100 690V kA 3 Tripping class 10A IEC Utilization category A Operations A Mechanical life cycles 100000 Mechanical features min bin 1.8 Trightening torque for terminals min bin 1.8 Max number of wires simultaneously connectable nr. 2 Conductor section AWG/Kcmil				
Thermal protection	·		nr.	
Phase failure detection				
Rated insulation voltage Ui IEC/EN	·			_
Rated impulse withstand voltage Uimp kV 6				
Rated frequency			-	
Thermal trip adjustment range				
Rated current (In)	Rated frequency		Hz	50/60
Magnetic tripping	Thermal trip adjustment range			
Total power dissipation	Rated current (In)		Α	2.5
Comparison	Magnetic tripping			13 x In
230V kA 100 400V kA 100 440V kA 100 500V kA 100 500V kA 3 100 690V kA 3 100 690V kA 3 100 400V kA 100 690V kA 3 100 690V kA	Total power dissipation		W	1.63
A00V	Operational short-circuit current breaking capacity (Ics) at AC			
Maximum short-circuit current breaking capacity (Icu) at AC 230V kA 100 690V kA 3 3		230V	kA	100
S00V kA 100 690V kA 3 3		400V	kA	100
Maximum short-circuit current breaking capacity (Icu) at AC		440V	kA	100
Maximum short-circuit current breaking capacity (Icu) at AC		500V	kA	100
230V		690V	kA	3
A00V	Maximum short-circuit current breaking capacity (Icu) at AC			
Add V KA 100 500V kA 100 690V kA 3 3 500V 500V		230V	kA	100
S00V KA 100 690V KA 3 3 3 3 3 3 3 3 3		400V	kA	100
Flexible w/o lug conductor section 690V kA 3 10A		440V	kA	100
Tripping class 10A IEC Utilization category		500V	kA	100
IEC Utilization category		690V	kA	3
Operations Mechanical life cycles 100000 Electrical life cycles 100000 Mechanical features Tightening torque for terminals min Nm 2.5 max Nm 3 min Ibin 1.8 max Ibin 2.2 Max number of wires simultaneously connectable nr. 2 Conductor section AWG/Kcmil min min 16 max 16 max Flexible w/o lug conductor section	Tripping class			10A
Mechanical life cycles 100000 Electrical life cycles 100000 Mechanical features Tightening torque for terminals min Nm 2.5 max Nm 3 min Ibin 1.8 max Ibin 2.2 Max number of wires simultaneously connectable nr. 2 Conductor section AWG/Kcmil min 16 max 8 Flexible w/o lug conductor section	IEC Utilization category			A
Electrical life	Operations			
Mechanical features	Mechanical life		cycles	100000
Tightening torque for terminals	Electrical life		cycles	100000
min Nm 2.5 max Nm 3 min lbin 1.8 max lbin 2.2	Mechanical features			
max Nm 3 min Ibin 1.8 max Ibin 2.2	Tightening torque for terminals			
Max number of wires simultaneously connectable nr. 2		min	Nm	2.5
Max number of wires simultaneously connectable nr. 2 Conductor section AWG/Kcmil min 16 max 8 Flexible w/o lug conductor section Flexible w/o lug conductor section		max	Nm	3
Max number of wires simultaneously connectable nr. 2 Conductor section AWG/Kcmil min 16 max 8 Flexible w/o lug conductor section Flexible w/o lug conductor section		min	lbin	1.8
Conductor section AWG/Kcmil min 16 max 8 Flexible w/o lug conductor section		max	lbin	2.2
AWG/Kcmil min 16 max 8 Flexible w/o lug conductor section	Max number of wires simultaneously connectable		nr.	2
AWG/Kcmil min 16 max 8 Flexible w/o lug conductor section	•			
min 16 max 8 Flexible w/o lug conductor section				
max 8 Flexible w/o lug conductor section		min		16
Flexible w/o lug conductor section				
· · · · · · · · · · · · · · · · · · ·	Flexible w/o lug conductor section			
		min	mm²	1



COLDO INDUSTRIAL MARINE RAILWAY

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

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	Flexible c/w lug conductor section			
	r lexible 6/w lug corludctor section	min	mm²	1
	Flexible with insulated spade lug conductor section			
	· -	min	mm²	1
Screwdriver				PH2
Power terminal protect	ction according to IEC/EN 60529			IP20
Cable stripping lenght				
		main circuit	mm	1
Ambient conditions				
Temperature				
	Operating temperature		0.0	00
		min	°C	-20
	Otana an tanan antuna	max	°C	60
	Storage temperature		°C	F0
		min	°C	-50
	Companyation to manage time	max	<u> </u>	80
	Compensation temperature	min	°C	-20
		max	°C	50 50
Max altitude		Шах		3000
Operating position			111	3000
Operating position		normal		Vertical plan
		allowable		Any
Fixing		unowabio		Screw / DIN rail
Maight				35mm 350
Weight UL technical data			g	330
Motor Disconnect				
MOTOL DISCONNECT		at 240V	kA	30
		at 480V	kA	30
		at 600V	kA	30
		protection	10 (100A class J
Group Motor Installation	on	protoction		10071010000
Oroup motor motamatic		at 240V	kA	30
		at 480V	kA	30
		at 600V	kA	30
		protection		100A class J
Tap Conductor Protect	etion			
,		at 480Y/277V	kA	50
		at 600Y/347V	kA	50
UL508 / UL 60947-4-1	Manual Self Protected Combination Motor Controller (
	(at 240V	kA	50
		at 480Y/277V	kA	50
	:	at 600Y/347V	kA	50
Maximum UL/CSA ho	rsepower ratings single-phase			
		110V-120V	HP	-
		220V-240V	HP	1/6
Maximum UL/CSA ho	rsepower ratings three-phase, 3-pole			
		200V-208V	HP	1/2
		220V-240V	HP	1/2
		440V-480V	HP	1
		550\/_600\/	HD	15

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550V-600V

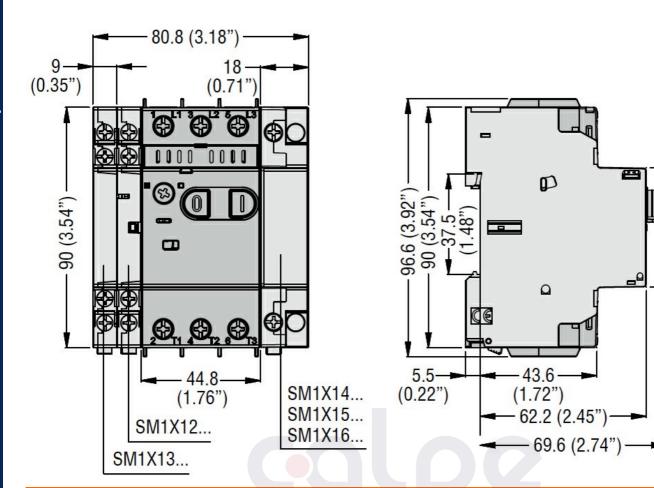
ΗP

1.5

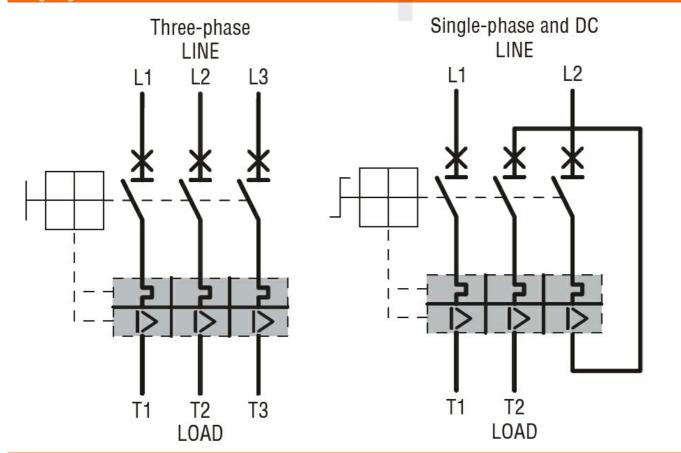
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INDUSTRIAL

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V,



Wiring diagrams



Certifications and compliance

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V,

Certifications

INDUSTRIAL MARINE RAILWAY

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CSA C22.2 n° 14 IEC/EN 60947-1 IEC/EN 60947-2 IEC/EN 60947-4-1

UL508

Compliance

cULus

EAC

ETIM classification

ETIM 8.0

EC000074 -Motor protection circuit-breaker

