SM1P1800

ENERGY AND AUTOMATION

INDUSTRIAL MARINE RAILWAY

SM1P1800

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 25KA AT 400V,



Product designation			circuit breaker
Product type designation			SM1P
Electrical features			SWITE
Number of poles		nr.	3
Magnetic protection		111.	
			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
Thermal trip adjustment range			1318
Rated current (In)		Α	18
Magnetic tripping			13 x ln
Total power dissipation		W	2.57
Operational short-circuit current breaking capacity (Ics) at AC			
	230V	kA	50
	400V	kA	12.5
	440V	kA	5
	500V	kA	5
	690V	kA	3
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	25
	440V	kA	10
	500V	kA	10
	690V	kA	3
Tripping class	0001	10 (10A
IEC Utilization category			A
Operations Operations			<i>/</i> \
Mechanical life		cycles	100000
Electrical life		-	
		cycles	100000
Mechanical features			
Tightening torque for terminals			0.5
	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			
-	min	mm²	1

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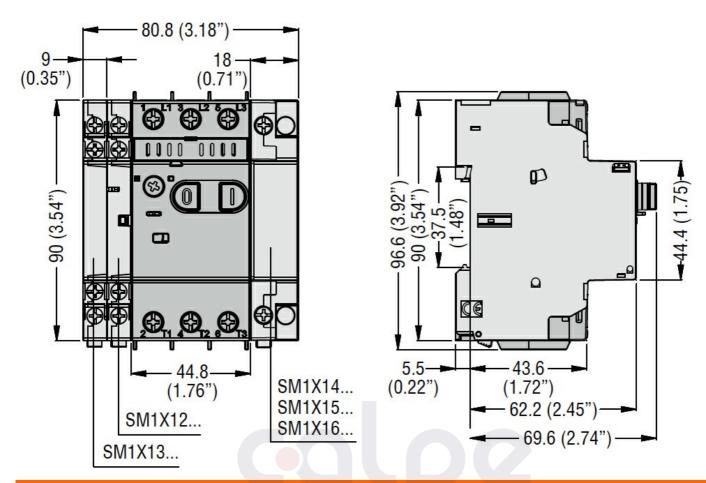
MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 25KA AT 400V,

	Flexible c/w lug conductor section				
	3	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	
Ambient conditions					
Temperature					
	Operating temperature				
		min	°C	-20	
		max	°C	60	
	Storage temperature				
		min	°C	-50	
		max	°C	80	
	Compensation temperature				
		min	°C	-20	
		max	°C	50	
Max altitude			m	3000	
Operating position					
		normal		Vertical plan	
		allowable		Any	
Fixing				Screw / DIN rail 35mm	
Weight			g	350	
UL technical data					
Motor Disconnect					
		at 240V	kA	30	
		at 480V	kA	30	
		protection		100A class J	
Group Motor Installation	on				
		at 240V	kA	30	
		at 480V	kA	30	
		protection		100A class J	
Tap Conductor Protec	tion				
		at 480Y/277V	kA	50	
-		at 600Y/347V	kA	50	
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short					
		at 240V	kA	50	
		at 480Y/277V	kA	50	
		at 600Y/347V	kA	50	
Maximum UL/CSA hor	sepower ratings single-phase				
		110V-120V	HP	1	
		220V-240V	HP	3	
Maximum UL/CSA horsepower ratings three-phase, 3-pole					
		200V-208V	HP	5	
		220V-240V	HP	5	
D'		440V-480V	HP	10	
Dimensions					

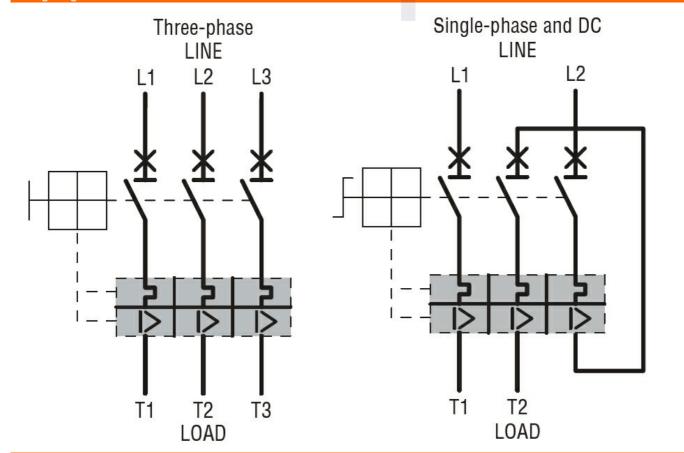
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Wiring diagrams



Certifications and compliance

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Certifications

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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

EC000074 -**ETIM 8.0** Motor protection circuit-breaker

