SM1R1800

ENERGY AND AUTOMATION

INDUSTRIAL MARINE RAILWAY

SM1R1800

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



Product designation			Motor protective circuit breaker
Product type designation			SM1R
Electrical features			
Number of poles		nr.	3
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
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	100
	400V	kA	100
	440V	kA	5
	500V	kA	5
	690V	kA	2
Maximum short-circuit current breaking capacity (Icu) at AC			
3 . , (. , ,	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	10
	690V	kA	4
Tripping class			10A
IEC Utilization category			A
Operations			
Mechanical life		cycles	100000
Electrical life		cycles	100000
Mechanical features		0,0.00	
Tightening torque for terminals			
riginormig to que les terminais	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	Ibin	2.2
Max number of wires simultaneously connectable	max	nr.	2
Conductor section			-
AWG/Kcmil			
, (1) 3/1(OHIII	min		16
	max		8
Flexible w/o lug conductor section	max		<u> </u>
Tioxible W/o lag conductor section	min	mm²	1
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	Flexible c/w lug conductor section			_	
		min	mm²	1	
	Flexible with insulated spade lug conductor section				
		min	mm²	1	
Screwdriver				PH2	
Power terminal protect	tion according to IEC/EN 60529			IP20	
Cable stripping lenght					
		main circuit	mm	1	
Ambient conditions					
Temperature					
·	Operating temperature				
	3 · · · · · · · · · · · · · · · · · · ·	min	°C	-20	
		max	°C	60	
	Storage temperature				
	6.0.1.0gc 10.1.1pc 10.1.1.1	min	°C	-50	
		max	°C	80	
	Compensation temperature				
		min	°C	-20	
		max	°C	50	
Max altitude			m	3000	
Operating position					
1 01		normal		Vertical plan	
		allowable		Any	
				Screw / DIN rail	
Fixing				35mm	
Weight			g	390	
UL technical data					
Motor Disconnect					
		at 480V	kA	30	
		at 600V	kA	30	
		protection		200A class J	
Group Motor Installation	on	•			
•		at 480V	kA	30	
		at 600V	kA	30	
		protection		200A class J	
Maximum UL/CSA horsepower ratings single-phase					
		110V-120V	HP	1	
		220V-240V	HP	3	
Maximum UL/CSA hor	sepower ratings three-phase, 3-pole				
	, , , , ,	200V-208V	HP	5	

Dimensions

5

10

15

ΗP

HP

ΗP

220V-240V

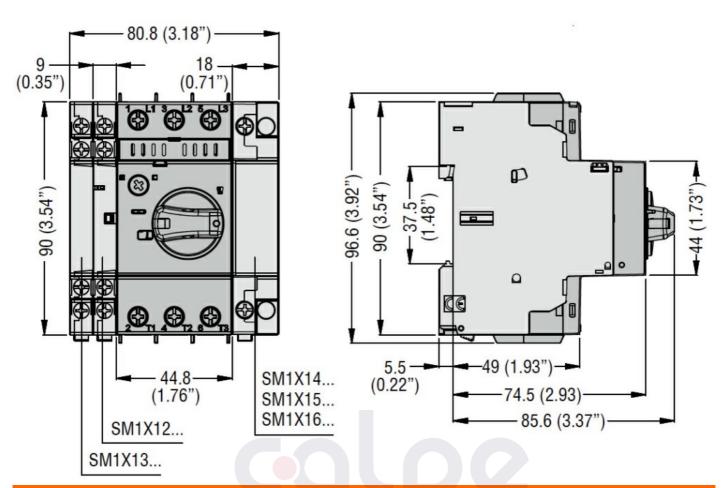
440V-480V

550V-600V

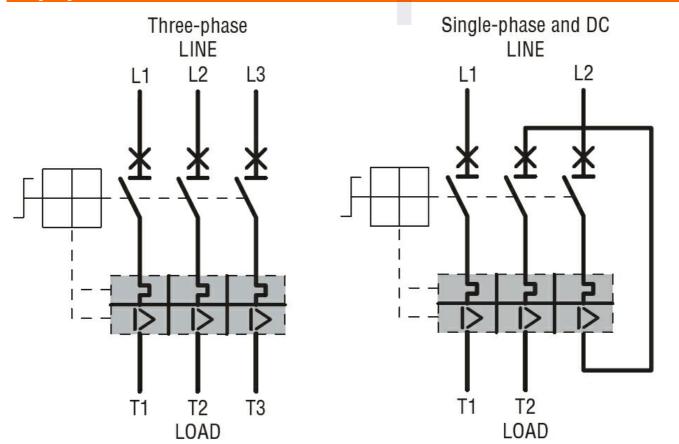
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Wiring diagrams



Certifications and compliance

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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

