



Product designation			Motor protection circuit breaker
Product type designation			SM1P
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)		А	18
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	1.34
	max	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			10A
IEC Utilization category			А
Operations			
Mechanical life		cycles	100000
Electrical life		cycles	100000
Mechanical features			
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbin	22
	max	lbin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		16
	max		8

SM1P1800



SM1P1800 MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 25KA AT 400V, 13...18A

ENERGY AND AUTOMATION				
	Flexible w/o lug conductor section			
	Trexible working conductor section	min	mm²	1
		max	mm²	10
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor se	ction		
		min	mm²	1
		max	mm²	10
Screwdriver				PH2
	tion according to IEC/EN 60529			IP20
Cable stripping lenght				10
Ambient conditions		main circuit	mm	12
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-20
		max	°Č	+60
	Storage temperature		-	
	5	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 (DINL)
Fixing				Screw / DIN rai 35mm
Weight			g	350
UL technical data			9	000
Motor Disconnect				
		at 240V	kA	30
		at 480V	kA	30
		protection		100A class J
UL technical data				
	Group Motor	Installation at 240V	kA	30
	· · · · · · · · · · · · · · · · · · ·	Installation at 480V	kA	30
	•	stallation protection		100A class J
Tap Conductor Protect	tion			
		at 480Y/277V	kA	50
	·····	at 600Y/347V	kA	50
Maximum UL/CSA ho	rsepower ratings single-phase	440140014		4
		110V-120V	HP	1

Maximum UL/CSA horsepower ratings three-phase, 3-pole

## Dimensions

SM1P1800

220V-240V

200V-208V

220V-240V

440V-480V

HP

ΗP

ΗP

HP

3

5

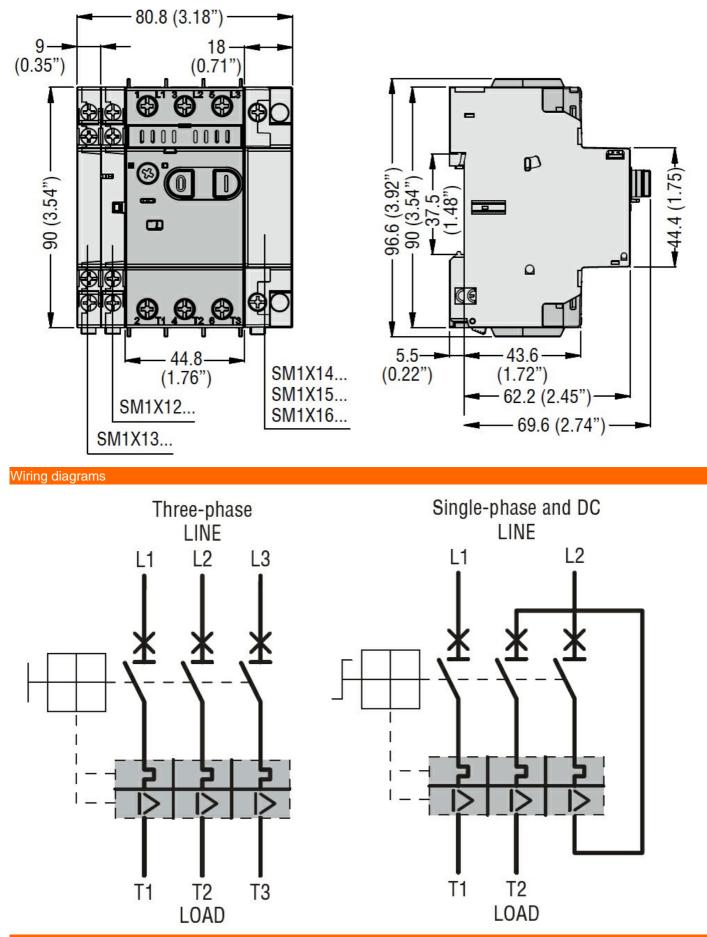
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rail





Certifications and compliance

SM1P1800

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



## Certifications

	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

EC000074 -Motor protection circuit-breaker

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