

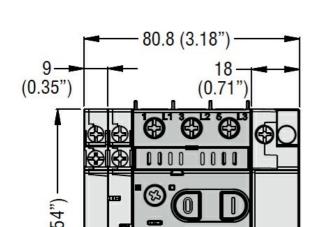


Product designation			Motor protection circuit breaker SM1P
Product type designation Electrical features			SIVITE
Number of poles		Nr.	3
Magnetic protection			yes
Thermal protection			yes
Phase failure detection			yes
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range			1318
Rated current (In)		Α	18
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	1.34
	max	W	2.57
Operational short-circuit current breaking capacity (Ics) at AC			
5 to 1 to	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			A
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	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		16
	max		8



Flexible w/o lug conductor section					
Flexible c/w lug conductor section		Flexible w/o lug conductor section			
Flexible c/w lug conductor section			min	mm²	1
Part			max	mm²	10
Max		Flexible c/w lug conductor section			
Flexible with insulated spade lug conductor section			min		
Main mm² 10 10 10 10 10 10 10 1			max	mm²	10
Max Max		Flexible with insulated spade lug conductor section			
PH2 Power terminal protection according to IEC/EN 60529			min		
Power terminal protection according to IEC/EN 60529	<u></u>		max	mm²	
Main circuit main circuit mm 12					
Main circuit		ion according to IEC/EN 60529			IP20 on front
Ambient conditions Temperature Coperating temperature Min °C -20 max °C -460 max °C -450 max -450 max	Cable stripping lenght				
Operating temperature			main circuit	mm	12
Parameter Para					
Min C -20 max C +60	Temperature				
Name		Operating temperature			
Storage temperature min			min		
Max a C +50 max C		-	max	°C	+60
Max C +80		Storage temperature	_		
Compensation temperature					
Max attitude min max of contents C +50 max of contents Operating position normal allowable Vertical plan Any Fixing Screw / DIN rail 35mm Weight g 350 UL technical data Wat 480 kA 30 at 480V kA 30 protection 30 at 480V kA 30 protection Group Motor Installation at 240V kA 30 at 480V kA 30 at 480V kA 30 protection 30 at 480V kA			max	°C	+80
Max altitude max °C +50 Operating position normal allowable Vertical plan Any Fixing Screw / DIN rail 35mm Weight g 350 UL technical data VA 30 Motor Disconnect at 240V kA 30 at 480V kA 30 protection 30 at 480V kA 30 at 480V kA 30 protection Group Motor Installation at 240V kA 30 at 480V kA 30 protection 30 at 480V kA 30 protection Tap Conductor Protection at 480Y/277V kA 50 at 600Y/347V kA 50 Maximum UL/CSA horsepower ratings single-phase 110V-120V HP 1 at 220V-240V HP 3 Maximum UL/CSA horsepower ratings three-phase, 3-pole 200V-208V HP 5 5 at 220V-240V HP 5 at 220V-240V HP 5 5 at 2		Compensation temperature		0.0	00
Max attitude m 3000 Operating position normal allowable Vertical plan Any Fixing Screw/ DIN rail 35mm Weight g 350 UL technical data Total 480V kA 30 at 480V kA 50 at 600V/347V					
Departing position	Marralitaria		max		
Normal allowable Nary				m	3000
Screw / DIN rail 35mm	Operating position				Mantia al miana
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 at 240V kA 30 protection 100A class J Tap Conductor Protection at 480V kA 30 protection 100A class J Tap Conductor Protection at 480V/277V kA 50 at 600Y/347V kA 50 Maximum UL/CSA horsepower 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 440V-480V HP 10					•
Name	-		allowable		
Weight g 350 UL technical data Motor Disconnect at 240V kA 30 at 480V kA 30 protection 100A class J Group Motor Installation at 240V kA 30 at 480V kA 30 at 480V kA 30 protection 100A class J 10	Fixing				
Motor Disconnect	Weight			α	
Motor Disconnect at 240V kA 30 at 480V kA 30 protection 30 protection 100A class J Group Motor Installation at 240V kA 30 at 480V kA 30 protection 30 protection 100A class J Tap Conductor Protection at 480Y/277V kA 50 at 600Y/347V kA 50 Maximum UL/CSA horsepower 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 440V-480V HP 5 440V-480V HP 10				9	000
At 240V KA 30 At 480V At 50 At 600Y/347V KA 50 At 600Y/347V KA 50 At 600Y/347V KA 50 At 600Y/347V KA 50 At 600Y/347V At At 6					
At 480V KA 30 Protection 100A class J			at 240V	kA	30
Protection 100A class J					
At 240V KA 30 at 480V KA 30 protection Tap Conductor Protection at 480Y/277V KA 50 at 600Y/347V At 50 At 600Y/347V				10 (
at 240V kA 30 at 480V kA 30 protection 100A class J Tap Conductor Protection at 480Y/277V kA 50 at 600Y/347V kA 50 Maximum UL/CSA horsepower 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 220V-240V HP 5 440V-480V HP 10	Group Motor Installatio	n	1 .2.2.2		
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Tap Conductor Protection					
Tap Conductor Protection at 480Y/277V kA 50 at 600Y/347V kA 50 Maximum UL/CSA horsepower 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 440V-480V HP 10					
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Maximum UL/CSA horsepower 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 440V-480V HP 10					
110V-120V	Maximum UL/CSA hors	sepower ratings single-phase			
220V-240V HP 3			110V-120V	HP	1
Maximum UL/CSA horsepower ratings three-phase, 3-pole 200V-208V HP 5 220V-240V HP 5 440V-480V HP 10					
200V-208V HP 5 220V-240V HP 5 440V-480V HP 10	Maximum UL/CSA hors	sepower ratings three-phase, 3-pole			
220V-240V HP 5 			200V-208V	HP	5
			220V-240V	HP	
Dimensions			440V-480V	HP	10
	Dimensions				



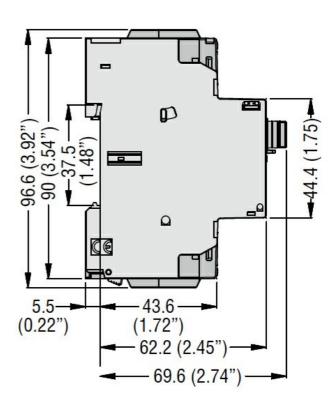


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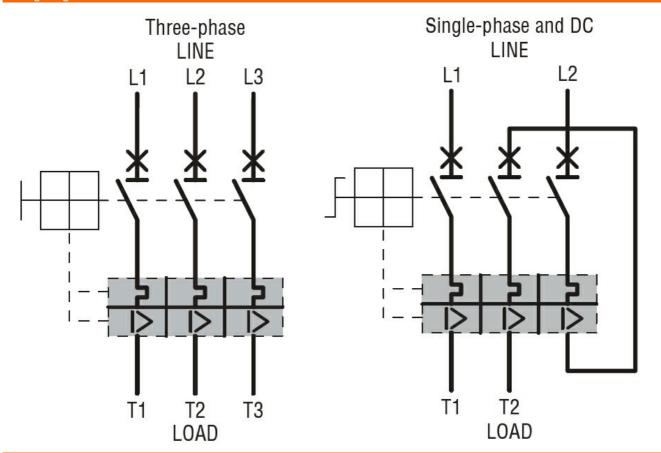
(1.76")

SM1X12...

SM1X13...



Wiring diagrams



SM1X14...

SM1X15...

SM1X16...







Certifications

CSA C22.2 n° 14

IEC/EN 60947-1

IEC/EN 60947-2

IEC/EN 60947-4-1

UL508

CULus

Compliance

cULus EAC

ETIM classification

ETIM 8.0

EC000074 -Motor protection circuit-breaker