



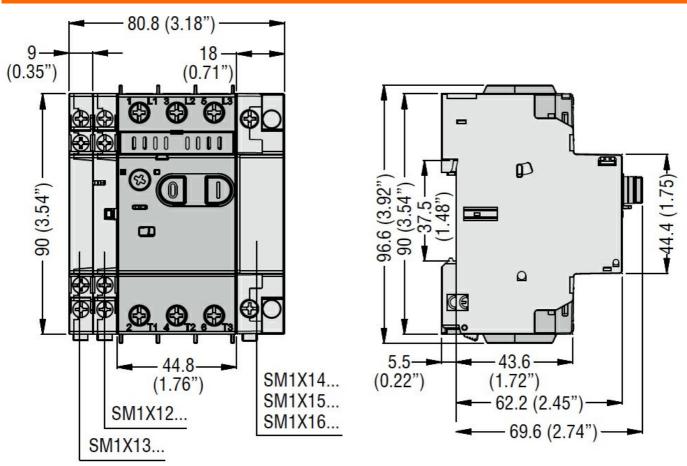
Product designation			Motor protection circuit breaker
Product type designation			SM1P
Electrical features			
Number of poles		Nr.	3
Magnetic protection			yes
Thermal protection			yes
Phase failure detection			yes
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range			0.631
Rated current (In)		Α	1
Magnetic tripping			13 x ln
Power dissipation per pole			
	min	W	0.85
	max	W	2.14
Operational short-circuit current breaking capacity (Ics) at AC			_
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	100
Maximum short-circuit current breaking capacity (Icu) at AC			
	230V	kA	100
	400V	kA	100
	440V	kA	100
	500V	kA	100
	690V	kA	100
Tripping class			10A
IEC Utilization category			Α
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



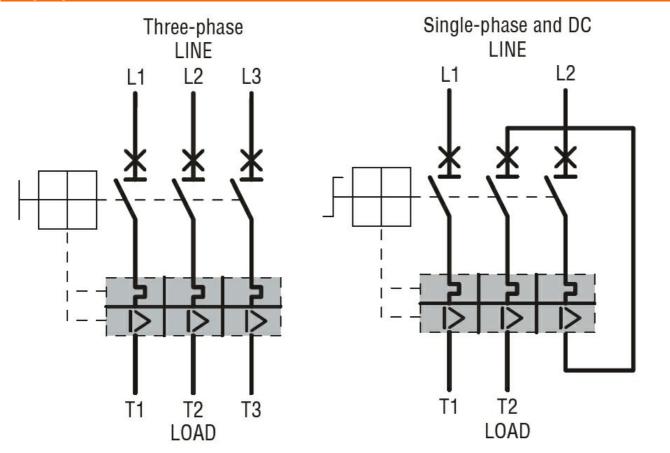
Flexible w/o lug conductor section					
Flexible c/w lug conductor section		Flexible w/o lug conductor section			
Flexible c/w lug conductor section min min mm² 1 mm² 10 max mm² 10 mm²			min		
Part			max	mm²	10
Max Minimum		Flexible c/w lug conductor section			
Flexible with insulated spade lug conductor section			min		
Main				mm²	10
Max		Flexible with insulated spade lug conducto			
Screwdriver					
Power terminal protection according to IEC/EN 60529			max	mm ²	
Cable stripping lenght					
Main circuit		tion according to IEC/EN 60529			IP20 on front
Ambient conditions Temperature	Cable stripping lenght				10
Temperature Operating temperature min °C 20 20 20 20 20 20 20 2	A 1.1 4 100		main circuit	mm	12
Operating temperature					
Main C -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20	Temperature				
Storage temperature		Operating temperature		00	00
Storage temperature					
Max altitude		Storage temperature	max	- 0	+00
Max		Storage temperature		°C	50
Compensation temperature					
Max altitude "C +50 Operating position normal allowable Vertical plan Any Fixing Screw / DIN rail 35mm Weight g 280 UL technical data 35mm Motor Disconnect at 240V kA 50 at 480V kA 50 at 600V kA 50 protection Fuse or CB Group Motor Installation at 240V kA 50 at 600V kA 50 at 600V/347V kA 50 Maximum UL/CSA horsepower ratings single-phase 110V-120V kA 50 Fuse or CB Maximum UL/CSA horsepower ratings three-phase, 3-pole 110V-120V kB -220V-240V kB -220V		Componentian temperature	max	<u> </u>	+60
Max altitude max °C +50 Operating position normal allowable Vertical plan Any Fixing Screw / DIN rail 35mm Weight g 280 UL technical data VkA 50 Motor Disconnect at 240V kA 50 at 600V kA 50 at 600V kA 50 group Motor Installation at 240V kA 50 at 480V kA 50 at 600V kA 50 </td <td></td> <td>Compensation temperature</td> <td>min</td> <td>°C</td> <td>20</td>		Compensation temperature	min	°C	20
Max altitude m 3000 Operating position normal allowable Vertical plan Any Fixing Screw / DIN rail 35mm Weight g 280 UL technical data Value of the control of the contro					
Normal allowable Normal allowable Normal allowable Normal allowable Normal Any	May altituda		IIIdX		
Normal allowable Nary				111	3000
Screw / DIN rail 35mm Screw / DIN rail 35mm	Operating position		normal		Vertical plan
Fixing Screw / DIN rail 35mm Weight g 280 UL technical data Motor Disconnect at 240V kA 50 at 480V kA 50 at 600V kA 50 at 480V kA 50 at 48					
Note			allowable		
Weight g 280 UL technical data Motor Disconnect at 240V kA 50 50 50 50 60 600V kA 50 50 60 60 60 60 kA 50 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60	Fixing				
Motor Disconnect	Weight			a	
Motor Disconnect at 240V				9	200
at 240V					
At 480V			at 240V	kA	50
At 600V KA 50 Fuse or CB					
Protection Fuse or CB					
At 240V KA 50 at 480V KA 50 at 600V KA 50 protection Fuse or CB Tap Conductor Protection at 480Y/277V KA 50 at 600Y/347V KA 50 at 600Y/347V KA 50 At 600Y/347V KA 50 Maximum UL/CSA horsepower ratings single-phase 110V-120V HP - 220V-240V HP - 220V-240V HP - 220V-240V HP - 440V-480V HP 1/2					
at 240V kA 50 at 480V kA 50 at 600V kA 50 protection Fuse or CB Tap Conductor Protection at 480Y/277V kA 50 at 600Y/347V kA 50 Maximum UL/CSA horsepower ratings single-phase 110V-120V HP - 220V-240V HP - 220V-208V HP - 220V-240V HP - 440V-480V HP 1/2	Group Motor Installation	on	•		
at 480V kA 50 at 600V kA 50 protection Fuse or CB Tap Conductor Protection at 480Y/277V at 600Y/347V kA 50 at 600Y/347V kA 50 The function of the control of	•		at 240V	kA	50
at 600V protection kA protection 50 Fuse or CB Tap Conductor Protection at 480Y/277V kA 50 at 600Y/347V kA 50 Maximum UL/CSA horsepower ratings single-phase 110V-120V HP - 220V-240V HP - Maximum UL/CSA horsepower ratings three-phase, 3-pole 200V-208V HP - 220V-240V HP - 440V-480V HP - 1/2					
Protection Fuse or CB					
Tap Conductor Protection at 480Y/277V					
at 480Y/277V at 600Y/347V kA 50 at 600Y/347V kA 50 Maximum UL/CSA horsepower ratings single-phase 110V-120V HP - 220V-240V HP - - 200V-208V HP - 220V-240V HP - - 440V-480V HP 1/2	Tap Conductor Protect	tion	•		
Maximum UL/CSA horsepower ratings single-phase 110V-120V			at 480Y/277V	kA	50
110V-120V			at 600Y/347V	kA	50
220V-240V HP -	Maximum UL/CSA hor	sepower ratings single-phase			
Maximum UL/CSA horsepower ratings three-phase, 3-pole 200V-208V HP - 220V-240V HP - 440V-480V HP 1/2			110V-120V	HP	-
200V-208V HP - 220V-240V HP - 440V-480V HP 1/2					-
200V-208V HP - 220V-240V HP - 440V-480V HP 1/2	Maximum UL/CSA hor	sepower ratings three-phase, 3-pole			
220V-240V HP - 440V-480V HP 1/2		- · · ·	200V-208V	HP	-
			220V-240V	HP	-
550V-600V HP 1/2			440V-480V	HP	1/2
			550V-600V	HP	1/2



Dimensions



Wiring diagrams









ENERGY AND AUTOMATION

Certifications and o	compliance	
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