



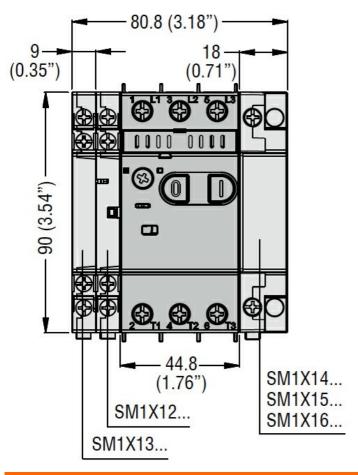
Product designation			Motor protection
Product type designation			circuit breaker SM1P
Electrical features			SIVITI
Number of poles		Nr.	3
Magnetic protection		141.	yes
Thermal protection			yes
Phase failure detection			yes
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Rated frequency		Hz	50/60
Thermal trip adjustment range		1 12	2432
		Α	32
Rated current (In)		^	13 x ln
Magnetic tripping  Power dissipation per pole			13 X III
Power dissipation per pole	min	14/	2.40
	min	W	2.49 4.42
Operational short aircuit current breaking conscitu (los) at AC	max	VV	4.42
Operational short-circuit current breaking capacity (Ics) at AC	2201/	LΔ	50
	230V	kΑ	50
	400V 440V	kΑ	5
	500V	kΑ	5 5
	690V	kA kA	2
Maximum abort aircuit aurrent breaking capacity (lau) at AC	090 V	KA	
Maximum short-circuit current breaking capacity (Icu) at AC	2201/	LεΛ	E0
	230V 400V	kA kA	50 10
	440V		10
		kΑ	
	500V	kΑ	10
Trianing along	690V	kA	2
Tripping class			10A
IEC Utilization category			A
Operations		a alaa	100000
Mechanical life		cycles	100000
Electrical life		cycles	100000
Mechanical features			
Tightening torque for terminals		NI	0.5
	min	Nm	2.5
	max	Nm	3
	min	Ibin	22
	max	Ibin	26.5
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	min		16
	max		8

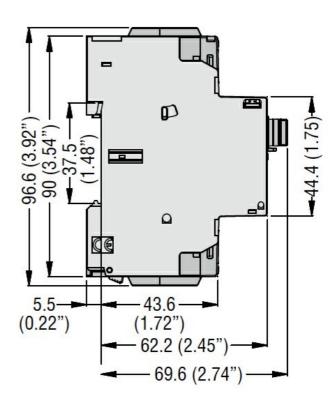


**ENERGY AND AUTOMATION** 

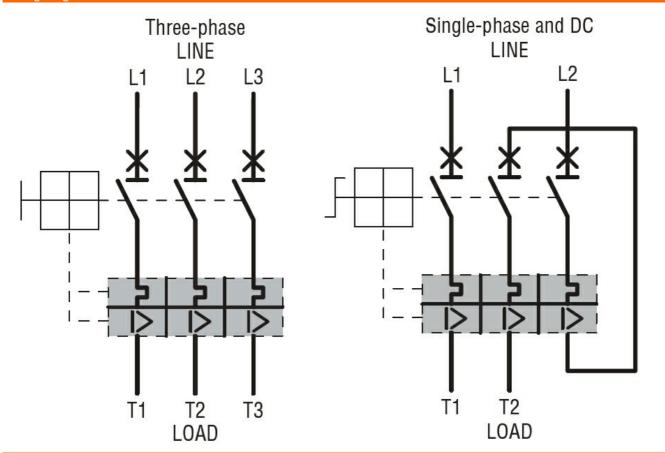
Flexible w/o lug conductor section					
Flexible c/w lug conductor section		Flexible w/o lug conductor section			
Flexible c/w lug conductor section			min	mm²	1
Part			max	mm²	10
Max		Flexible c/w lug conductor section			
Flexible with insulated spade lug conductor section			min		
Max a Max			max	mm²	10
Max   Max		Flexible with insulated spade lug conductor section			
PH2			min		
Power terminal protection according to IEC/EN 60529			max	mm²	
Main circuit					
Main circuit   Mm   12   12   12   12   13   13   14   14   14   15   15   15   15   15		ion according to IEC/EN 60529			IP20 on front
Ambient conditions   Temperature   Coperating temperature   Min   °C   -20   max   °C   -460   max   °C   -480   max   °C   -480   max   °C   -450   max   ~C   -450   max	Cable stripping lenght				
			main circuit	mm	12
Operating temperature					
Min   C   -20 max   C   +60	Temperature				
Max   C   +60		Operating temperature			
Storage temperature   min			min		
Max   C   550 max   C   480   C   600   C		-	max	°C	+60
Max   C   +80		Storage temperature	_		
Compensation temperature					
Max attitude         min max attitude         °C +50 mx         +50 mx         3000 mx         Max attitude         m 3000 mx         3000 mx         Max attitude         m 3000 mx         Max attitude         m 3000 mx         Max max mx         Max max mx         Morrial max mx         Morrial mx         Morrial mx         Morrial mx         Max mx			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         VkA         5 at 240V kA         5 at 480V kA         5 protection           Motor Disconnect         at 240V kA         5 protection         Fuse or CB           Group Motor Installation         at 240V kA         5 protection         5 protection           Tap Conductor Protection         Fuse or CB         Tat 480Y/277V kA         50 protection           Tap Conductor Protection         at 480Y/277V kA         50         50 protection         Fuse or CB           Maximum UL/CSA horsepower ratings single-phase         110V-120V kA         50         50           Maximum UL/CSA horsepower ratings three-phase, 3-pole         200V-208V HP         10         220V-240V HP         10           Adv0V-480V HP         10         440V-480V HP         10         10         440V-480V HP         20		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         5 at 480V         kA         5 protection         Fuse or CB           Group Motor Installation         at 240V         kA         5 protection         Fuse or CB           Tap Conductor Protection         at 480Y/27V         kA         5 protection         Fuse or CB           Tap Conductor Protection         at 480Y/277V         kA         50         50           Maximum UL/CSA horsepower ratings single-phase         110V-120V         HP         2         2           Maximum UL/CSA horsepower ratings three-phase, 3-pole         200V-208V         HP         10         2           Maximum UL/CSA horsepower ratings three-phase, 3-pole         200V-208V         HP         10         2           Maximum UL/CSA horsepower ratings three-phase, 3-pole         400V-480V         HP         10         40V-480V         HP         10					
Normal allowable   Normal allo	NA ICC - L		max		
Normal allowable   Nary				m	3000
Screw / DIN rail 35mm	Operating position				Mantiaglalan
Fixing Screw / DIN rail 35mm  Weight g 350  UL technical data  Motor Disconnect  at 240V kA 5 at 480V kA 5 protection Fuse or CB  Group Motor Installation  at 240V kA 5 protection Fuse or CB  Tap Conductor Protection  at 480V kA 5 protection Fuse or CB  Tap Conductor Protection  at 480V/277V kA 5 protection Fuse or CB  Maximum UL/CSA horsepower ratings single-phase  110V-120V HP 2 220V-240V HP 5  Maximum UL/CSA horsepower ratings three-phase, 3-pole  200V-208V HP 10 220V-240V HP 10 440V-480V HP 10 440V-480V HP 20					•
Natimum UL/CSA horsepower ratings three-phase, 3-pole   September 10   September 200V-240V   September 200V-			allowable		<u> </u>
Weight         g         350           UL technical data           Motor Disconnect         at 240V         kA         5           at 480V         kA         5           protection         Fuse or CB           Group Motor Installation         at 240V         kA         5           at 480V         kA         5           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         2           Maximum UL/CSA horsepower ratings three-phase, 3-pole         200V-240V         HP         10           220V-240V         HP         10           220V-240V         HP         10           440V-480V         HP         20	Fixing				
Motor Disconnect	Weight			a	
Motor Disconnect         at 240V         kA         5           at 480V         kA         5           protection         Fuse or CB           Group Motor Installation         at 240V         kA         5           at 480V         kA         5           at 480V/277V         kA         5           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         2           220V-240V         HP         5           Maximum UL/CSA horsepower ratings three-phase, 3-pole         200V-208V         HP         10           220V-240V         HP         10           440V-480V         HP         20				9	000
at 240V   kA   5   at 480V   kA   5   protection   Fuse or CB					
At 480V   KA   5			at 240V	kA	5
Protection   Fuse or CB					
At 240V   KA   5   at 480V   KA   5   protection   Tap Conductor Protection   at 480Y/277V   kA   50   at 600Y/347V   kA   50   at 600Y/347V   kA   50   at 600Y/347V   kA   50   st 600Y/347V   st 600					
at 240V       kA       5         at 480V       kA       5         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       2         220V-240V       HP       5         Maximum UL/CSA horsepower ratings three-phase, 3-pole         200V-208V       HP       10         220V-240V       HP       10         440V-480V       HP       20	Group Motor Installatio	n	protection.		
at 480V protection       kA 5 protection       5 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 2 220V-240V HP 5         Maximum UL/CSA horsepower ratings three-phase, 3-pole         200V-208V HP 10 220V-240V HP 10 440V-480V HP 20			at 240V	kA	5
Protection   Fuse or CB					
Tap Conductor Protection  at 480Y/277V					
at 480Y/277V at 600Y/347V       kA 50 at 600Y/347V       50 kA 50         Maximum UL/CSA horsepower ratings single-phase         110V-120V HP 2 220V-240V HP 5         Maximum UL/CSA horsepower ratings three-phase, 3-pole         200V-208V HP 10 220V-240V HP 10 440V-480V HP 20	Tap Conductor Protect	ion			,
at 600Y/347V     kA     50       Maximum UL/CSA horsepower ratings single-phase       110V-120V     HP     2       220V-240V     HP     5       Maximum UL/CSA horsepower ratings three-phase, 3-pole       200V-208V     HP     10       220V-240V     HP     10       440V-480V     HP     20	·		at 480Y/277V	kA	50
Maximum UL/CSA horsepower ratings single-phase  110V-120V					
110V-120V	Maximum UL/CSA hors	sepower ratings single-phase			-
220V-240V   HP   5			110V-120V	HP	2
Maximum UL/CSA horsepower ratings three-phase, 3-pole  200V-208V HP 10 220V-240V HP 10 440V-480V HP 20					
200V-208V HP 10 220V-240V HP 10 440V-480V HP 20	Maximum UL/CSA hors	sepower ratings three-phase, 3-pole			
220V-240V HP 10 440V-480V HP 20			200V-208V	HP	10
			220V-240V	HP	10
Dimensions			440V-480V	HP	20
	Dimensions				







## Wiring diagrams









**ENERGY AND AUTOMATION** 

Certifications

CSA C22.2 n° 14
IEC/EN 60947-1
IEC/EN 60947-2
IEC/EN 60947-4-1
UL508

UL

Compliance cULus

EAC

ETIM classification

ETIM 8.0

EC000074 -Motor protection circuit-breaker