



Product designation

SM1P

Product type designation

Motor protective  
circuit breaker

### Electrical features

Number of poles	nr.	3
Magnetic protection		Yes
Thermal protection		Yes
Phase failure detection		Yes
Rated insulation voltage $U_i$	V	690
Rated impulse withstand voltage $U_{imp}$	kV	6
Rated frequency	Hz	50/60
Thermal trip adjustment range		1...1,6
Rated current ( $I_n$ )	A	2
Magnetic tripping		13 x $I_n$

Operational short-circuit current breaking capacity ( $I_{cs}$ ) at AC

230V	kA	100
400V	kA	100
440V	kA	100
500V	kA	100
690V	kA	100

Maximum short-circuit current breaking capacity ( $I_{cu}$ ) at AC

230V	kA	100
400V	kA	100
440V	kA	100
500V	kA	100
690V	kA	100

### Operations

Mechanical life	Cycles	100,000
Electrical life	Cycles	100,000

### Mechanical features

Tightening torque for terminals

min	Nm	3
max	Nm	3
min	lbft	2
max	lbft	2

max number of wires simultaneously connectable

nr. 2

Conductor section

AWG

min	16
max	8

Flexible w/o lug conductor section

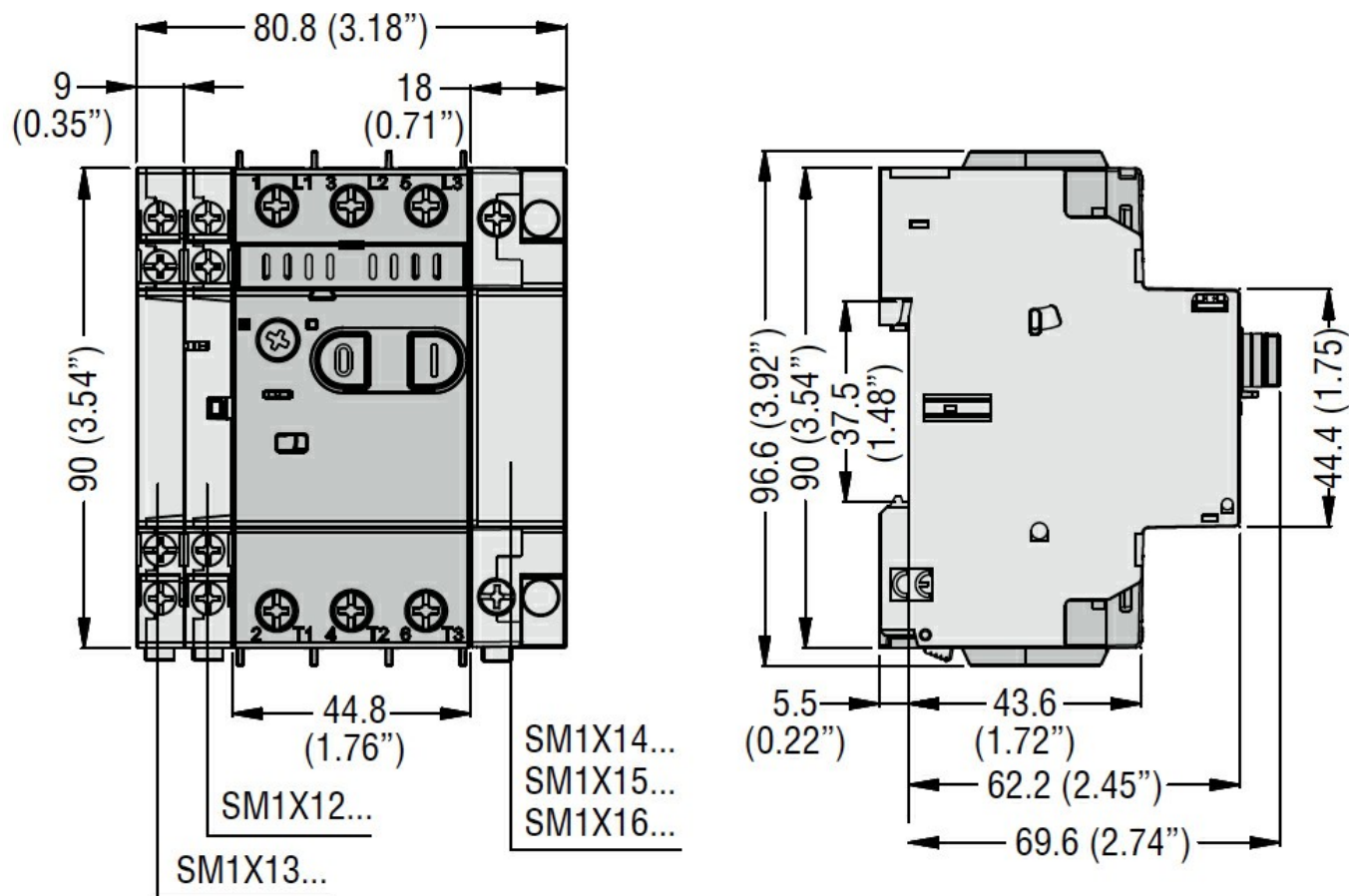
min	mm <sup>2</sup>	1
max	mm <sup>2</sup>	10

Flexible c/w lug conductor section

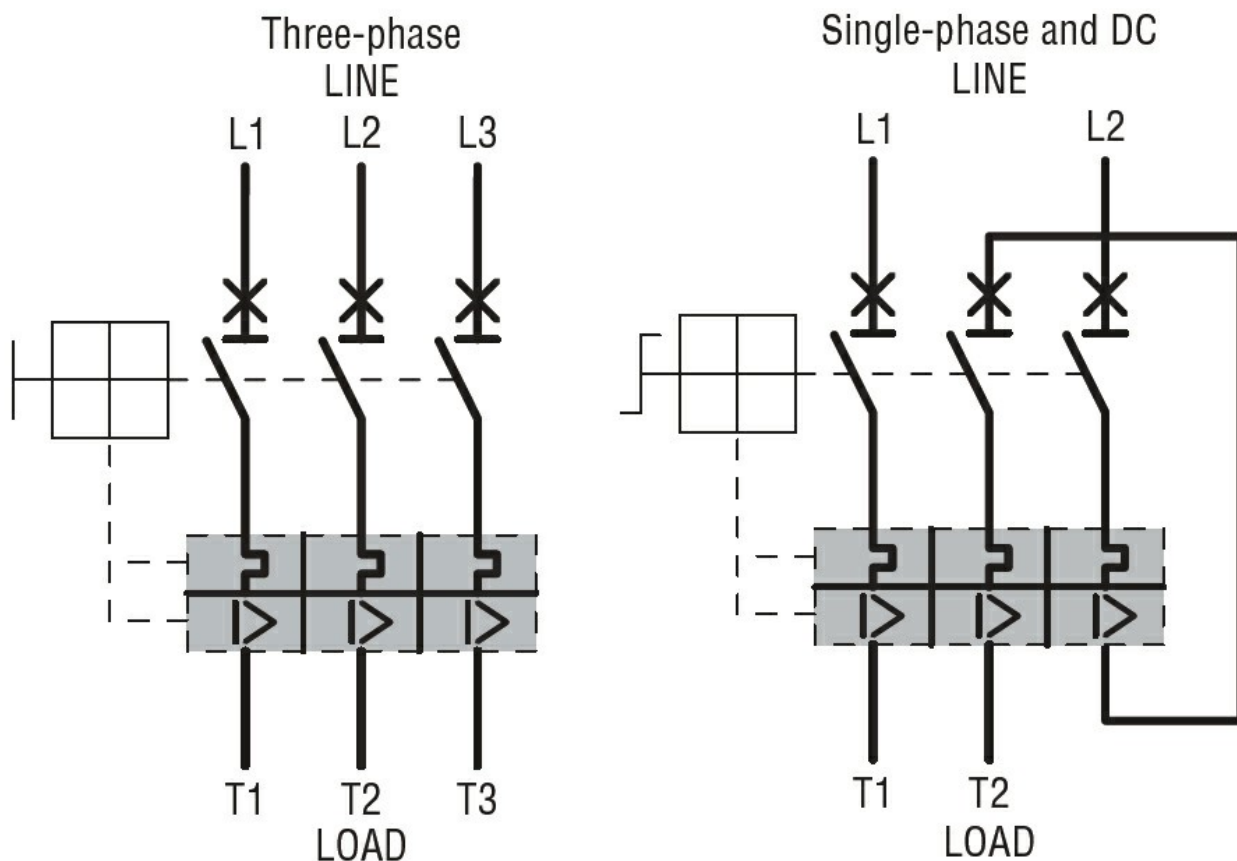
min	mm <sup>2</sup>	1
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		max	mm²	10
Flexible with insulated spade lug conductor section		min	mm²	1
		max	mm²	10
Screwdriver				PH2
Power terminal protection according to IEC/EN 60529				IP20
Cable stripping lenght		main circuit	mm	1
Ambient conditions				
Temperature				
Operating temperature		min	°C	-20
		max	°C	60
Storage temperature		min	°C	-50
		max	°C	80
Compensation temperature		min	°C	-20
		max	°C	50
Max altitude			m	3,000
Operating position		normal allowable	Su piano verticale Qualsiasi	
Mounting			A vite / profilato omega 35mm	
Weight			g	280
UL technical data				
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current				
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 480V	kA	50
		at 600V	kA	50
		protection	Fuse or CB	
Tap Conductor Protection		at 480Y/277V	kA	50
		at 600Y/347V	kA	50
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short circuit current				
		at 240V	kA	50
		at 480Y/277V	kA	50
		at 600Y/347V	kA	50
Maximum UL/CSA horsepower ratings single-phase		at 110V-120V	hp	1
		at 220V-240V	hp	2
Maximum UL/CSA horsepower ratings three-phase, 3-pole		at 200V-208V	hp	3
		at 220V-240V	hp	3
		at 440V-480V	hp	10
		at 550V-600V	hp	-

## Dimensions



## Wiring diagrams



## Certifications and 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 6 classification