



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		24...32
Rated current ( $I_n$ )	A	32
Magnetic tripping		13 x $I_n$

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

230V	kA	50
400V	kA	5
440V	kA	5
500V	kA	5
690V	kA	2

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

230V	kA	50
400V	kA	10
440V	kA	10
500V	kA	10
690V	kA	2

### 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

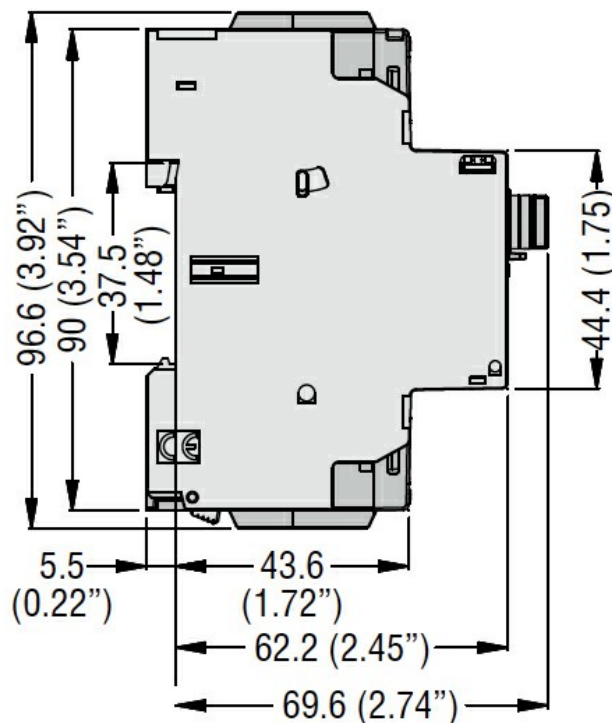
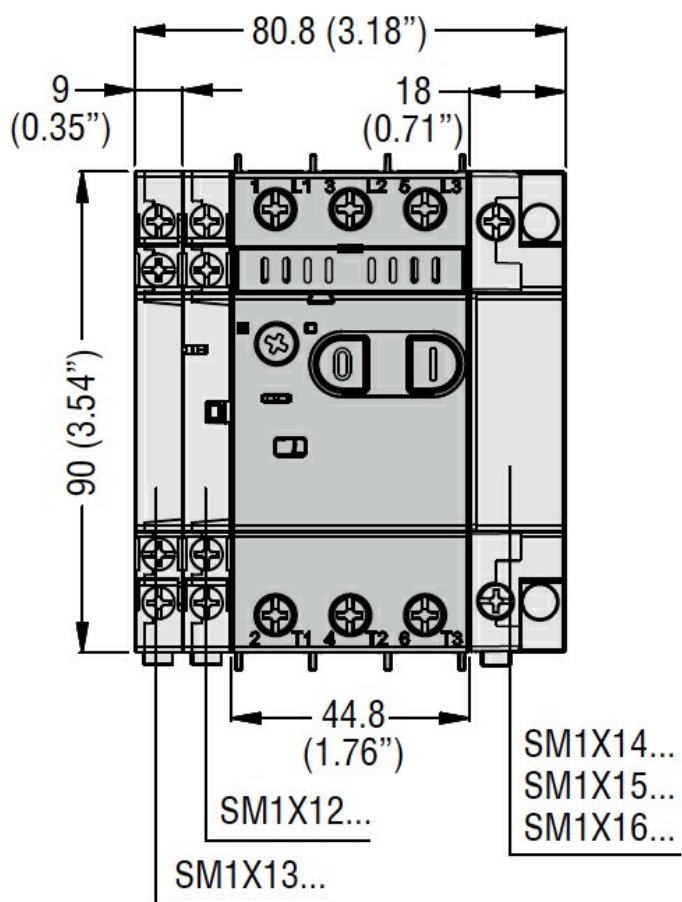
min	mm <sup>2</sup>	1
max	mm <sup>2</sup>	10

Flexible c/w lug conductor section

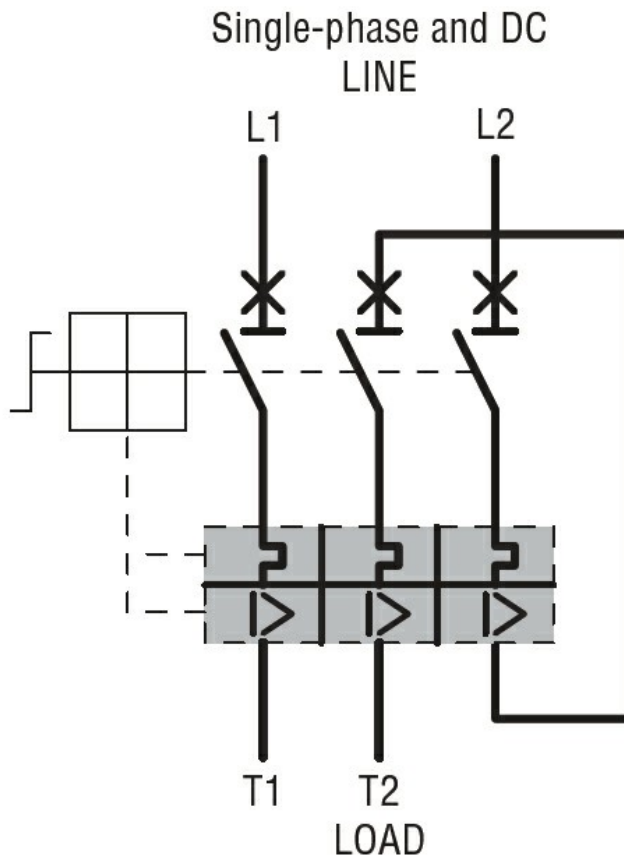
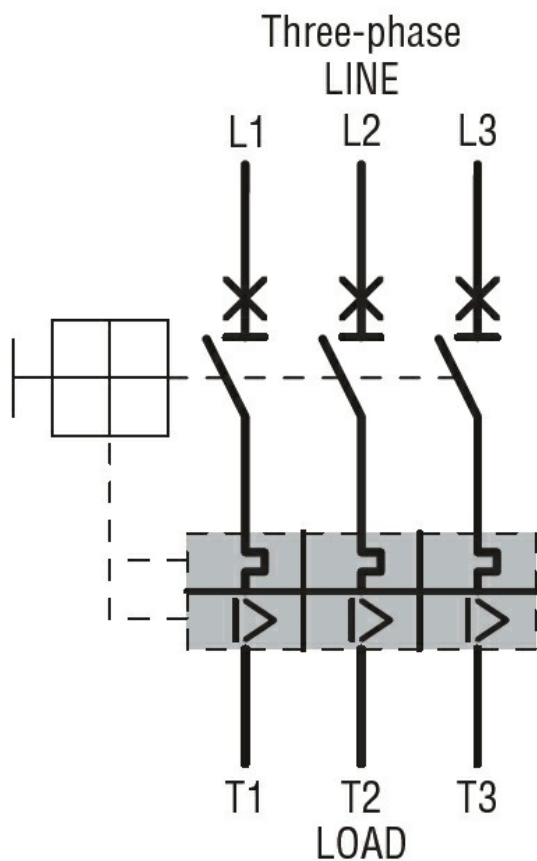
min	mm <sup>2</sup>	1
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		max	mm <sup>2</sup>	10
Flexible with insulated spade lug conductor section				
		min	mm <sup>2</sup>	1
		max	mm <sup>2</sup>	10
Screwdriver				PH2
Power terminal protection according to IEC/EN 60529				IP20
Cable stripping lenght				
	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	350
UL technical data				
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current				
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
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