



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		0,4...0,63	
Rated current (I_n)	A	1	
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

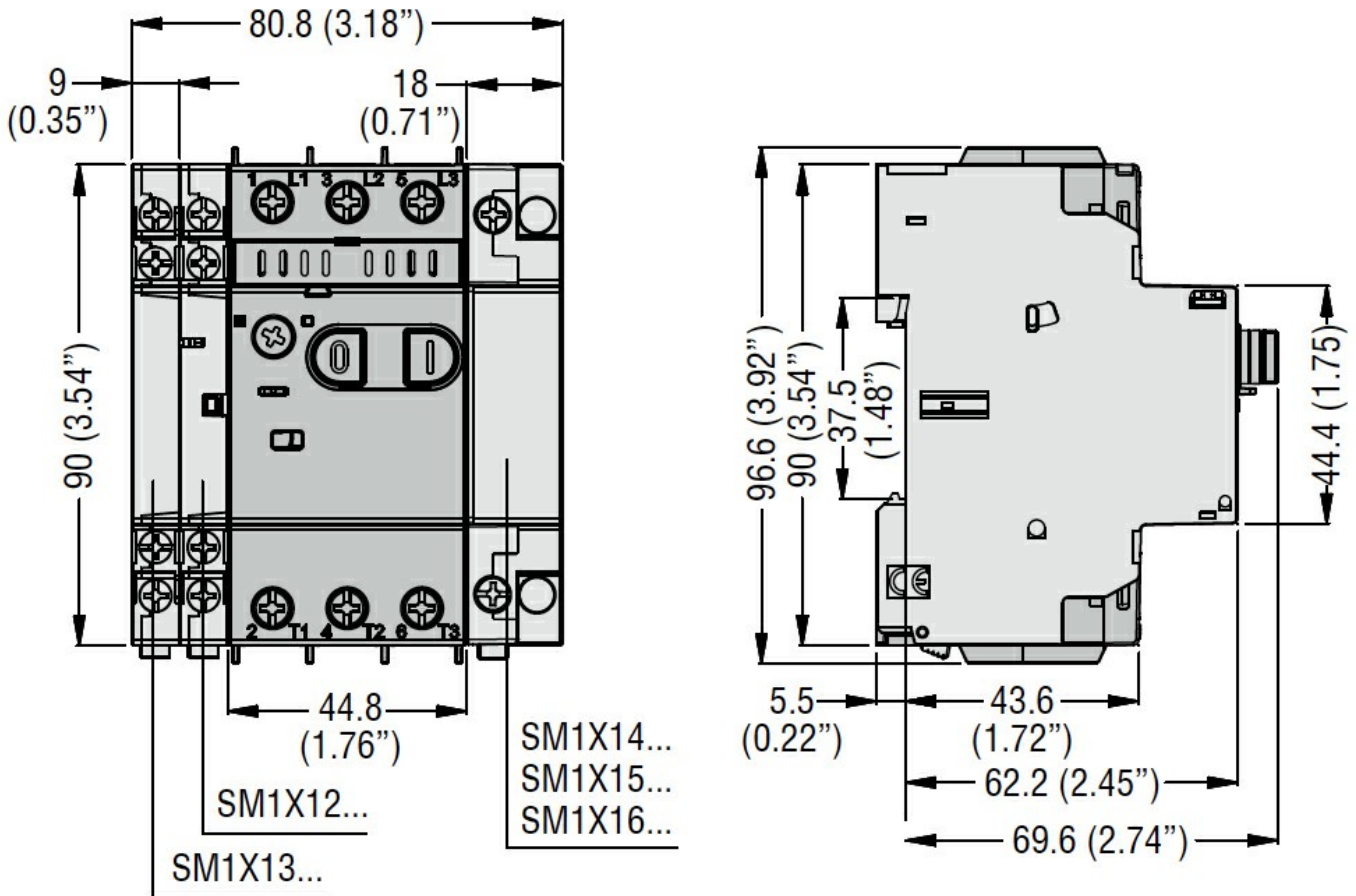
min	mm ²	1
max	mm ²	10

Flexible c/w lug conductor section

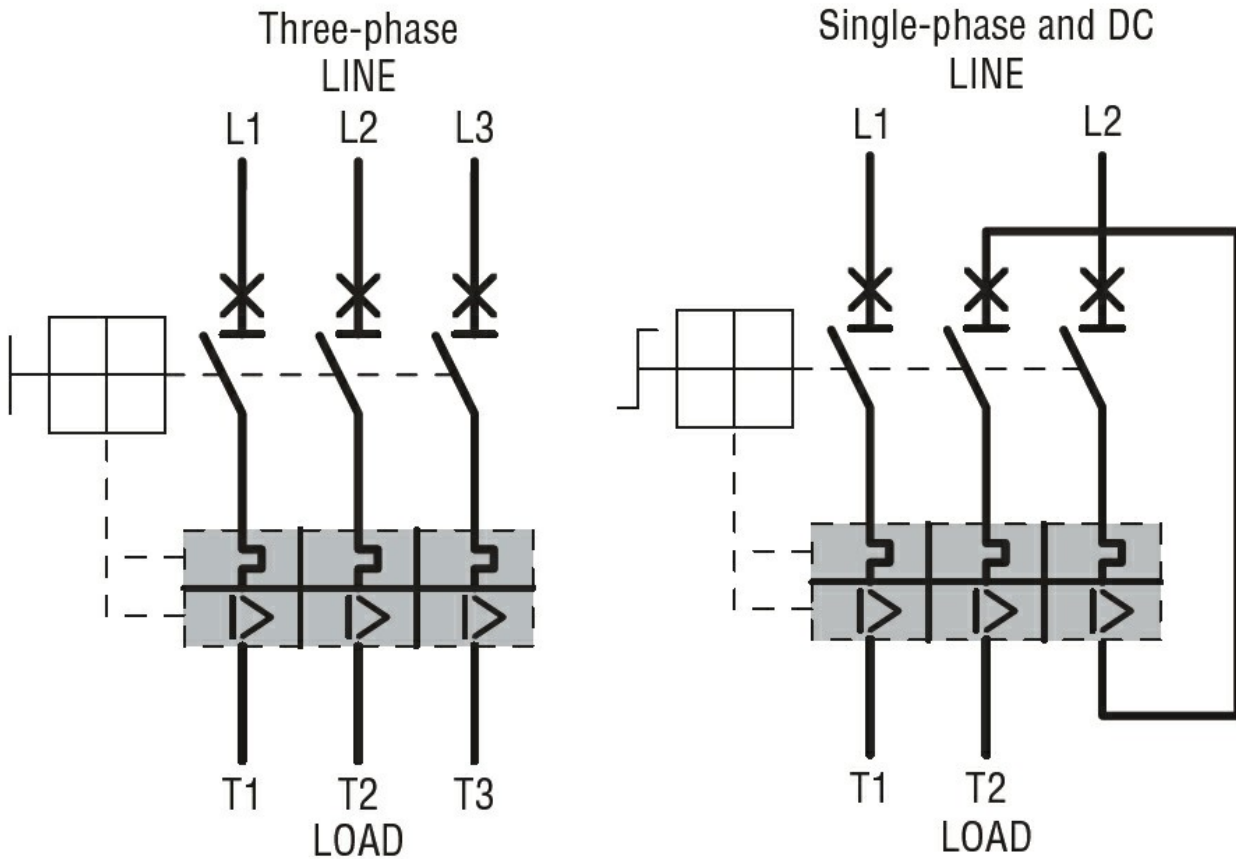
min	mm ²	1
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	max	mm ²	10
Flexible with insulated spade lug conductor section			
	min	mm ²	1
	max	mm ²	10
Screwdriver			PH2
Power terminal protection according to IEC/EN 60529			IP20
Cable stripping length			
	main circuit	mm	1
Ambient conditions			
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