



Motor protective circuit
breaker
SM1P

Product designation

Product type designation

Electrical features

Number of poles	nr.	3
Magnetic protection		yes
Thermal protection		yes
Phase failure detection		yes
Rated insulation voltage U_i IEC/EN	V	690
Rated impulse withstand voltage U_{imp}	kV	6
Rated frequency	Hz	50/60
Thermal trip adjustment range		0.63...1
Rated current (I_n)	A	1
Magnetic tripping		13 x I_n
Total power dissipation	W	2.14

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

Tripping class 10A

IEC Utilization category A

Operations

Mechanical life	cycles	100000
Electrical life	cycles	100000

Mechanical features

Tightening torque for terminals	min	Nm	2.5
	max	Nm	3
	min	lbin	1.8
	max	lbin	2.2

Max number of wires simultaneously connectable nr. 2

Conductor section	AWG/Kcmil	min		16
		max		8
	Flexible w/o lug conductor section	min	mm ²	1
		min	mm ²	1
	Flexible with insulated spade lug conductor section	min	mm ²	1

Screwdriver PH2

Power terminal protection according to IEC/EN 60529 IP20

Cable stripping length	main circuit	mm	1
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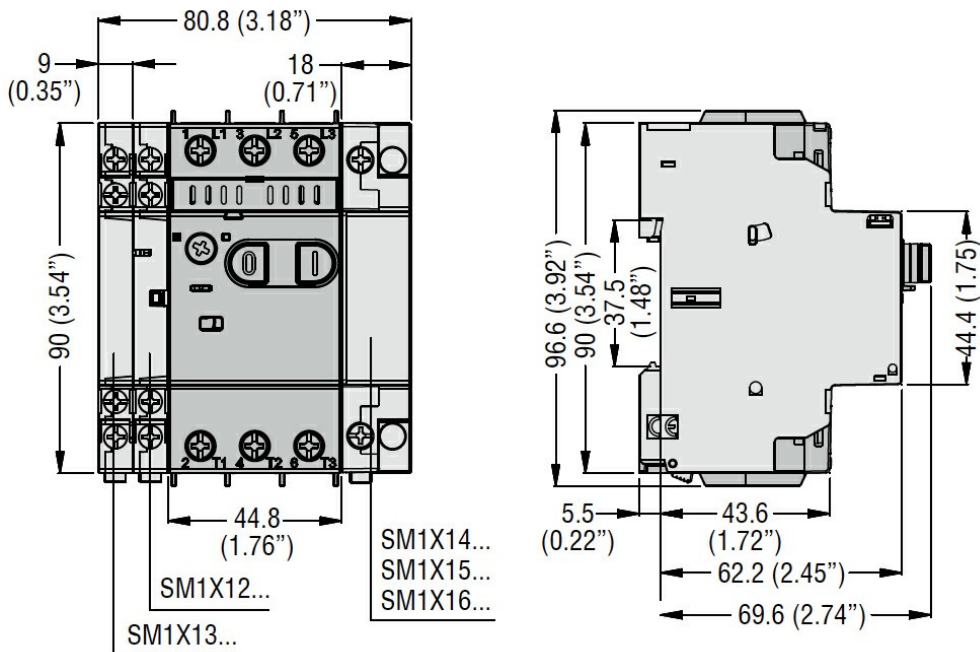
Ambient conditions

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

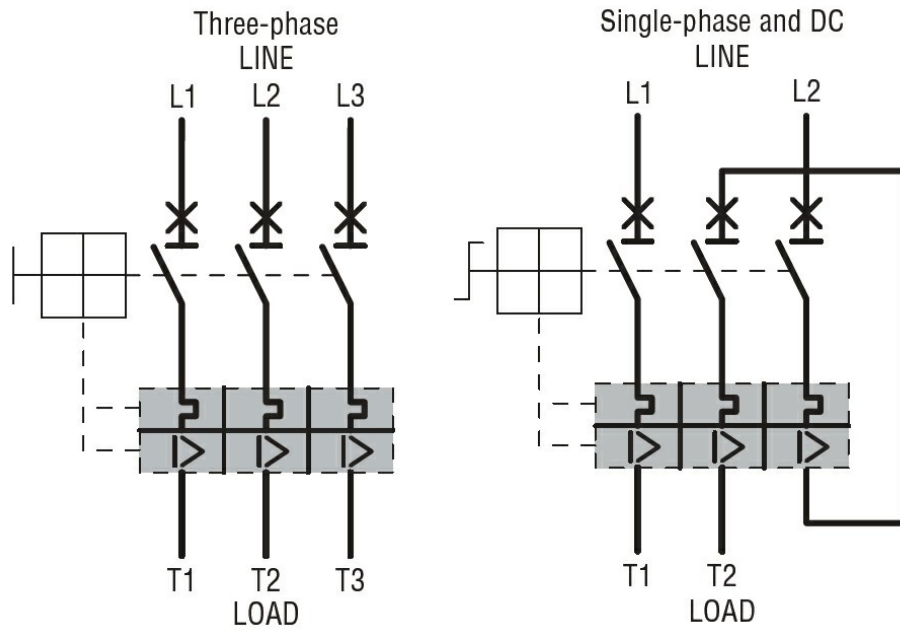
Max altitude m 3000

Operating position	normal allowable	Vertical plan Any
Fixing		Screw / DIN rail 35mm
Weight	g	280
UL technical data		
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current		
Motor Disconnect	at 240V at 480V at 600V protection	kA kA kA Fuse or CB
Group Motor Installation	at 240V at 480V at 600V protection	kA kA kA Fuse or CB
Tap Conductor Protection	at 480Y/277V at 600Y/347V	kA kA
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short circuit current		
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short-circuit current		
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short-circuit current		
UL508 / UL 60947-4-1 Manual Self Protected Combination Motor Controller (Type E) Short-circuit current		
Maximum UL/CSA horsepower ratings single-phase	at 110V-120V at 220V-240V	hp hp
Maximum UL/CSA horsepower ratings three-phase, 3-pole	at 200V-208V at 220V-240V at 440V-480V at 550V-600V	hp hp hp 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