



Product designation

SM1R

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		0,1...0,16
Rated current (I_n)	A	-
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

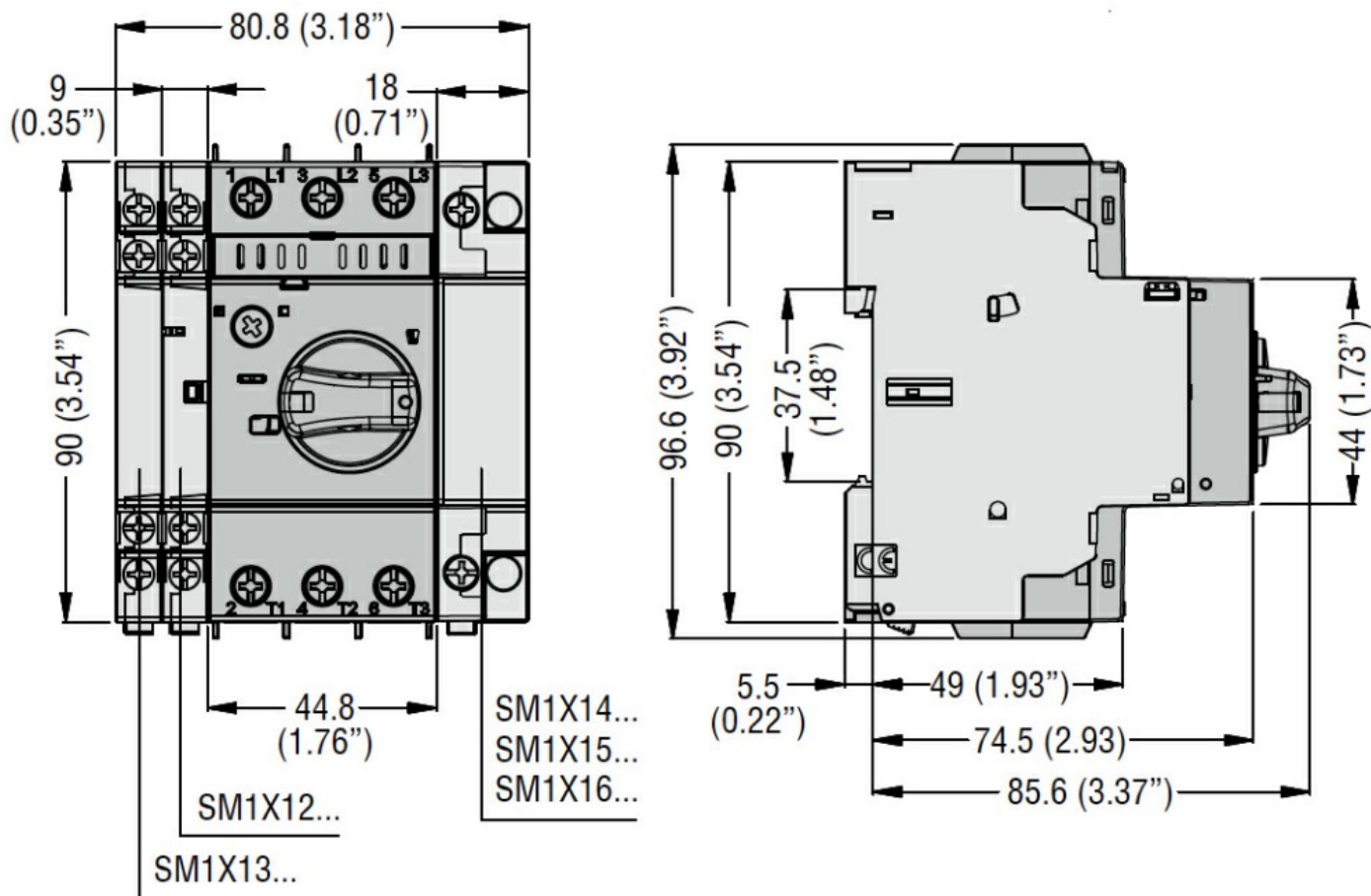
min	mm ²	1
max	mm ²	10

Flexible c/w lug conductor section

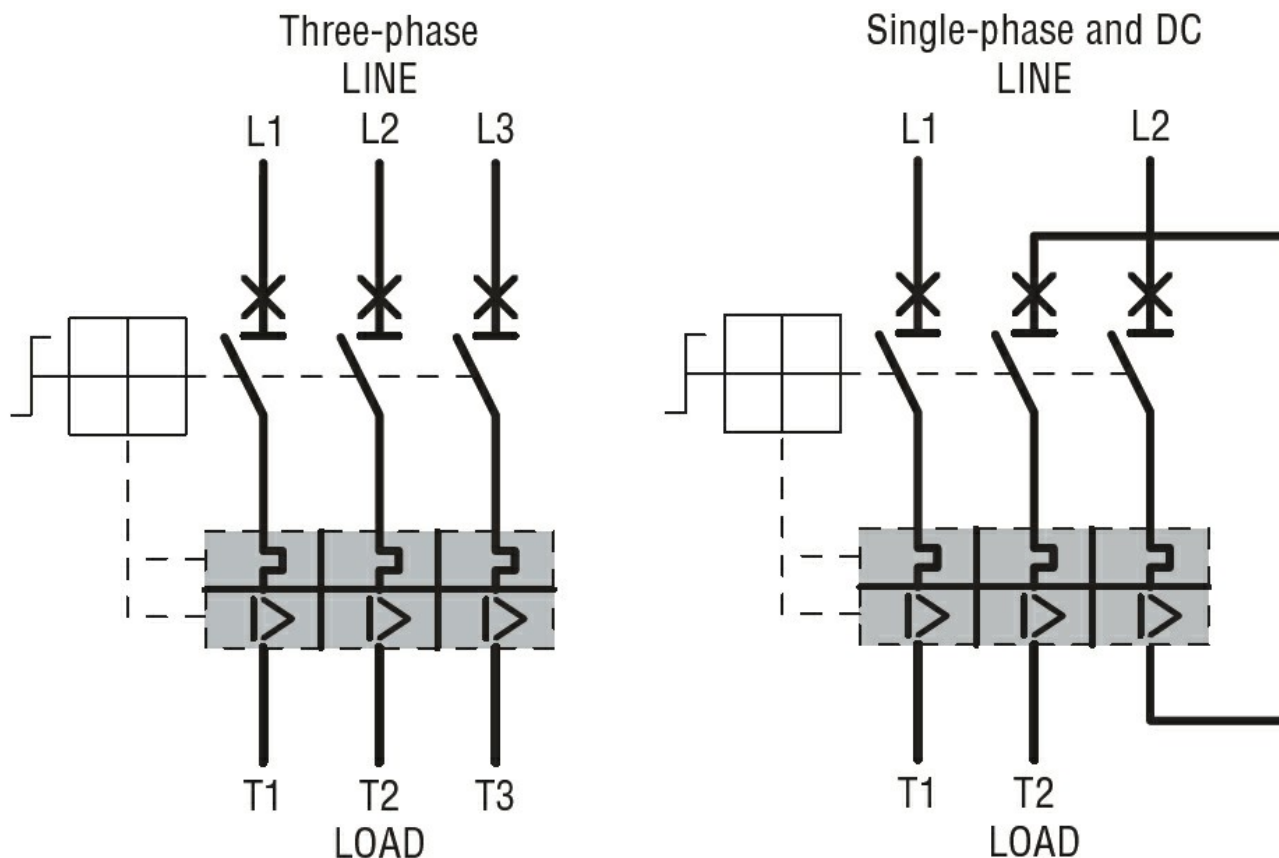
min	mm ²	1
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		max	mm ²	10
Flexible with insulated spade lug conductor section				
		min	mm ²	1
		max	mm ²	10
Screwdriver				PH2
Power terminal protection according to IEC/EN 60529				IP20
Cable stripping lenght				
	main circuit	mm		1
Ambient conditions				
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	320
UL technical data				
UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current				
Motor Disconnect				
	at 480V	kA		50
	at 600V	kA		50
	protection			Fuse or CB
Group Motor Installation				
	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