



Product designation

Motor protection
circuit breaker
SM1P

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		9...14
Rated current (I_n)	A	14
Magnetic tripping		13 x I_n

Power dissipation per pole

min	W	1.13
max	W	2.73

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

230V	kA	100
400V	kA	12.5
440V	kA	5
500V	kA	5
690V	kA	3

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

230V	kA	100
400V	kA	25
440V	kA	10
500V	kA	10
690V	kA	3

Breaking capacity short-circuit current (I_{cn}) at DC

150V	kA	0
300V	kA	0
450V	kA	0

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	22
max	lbin	26.5

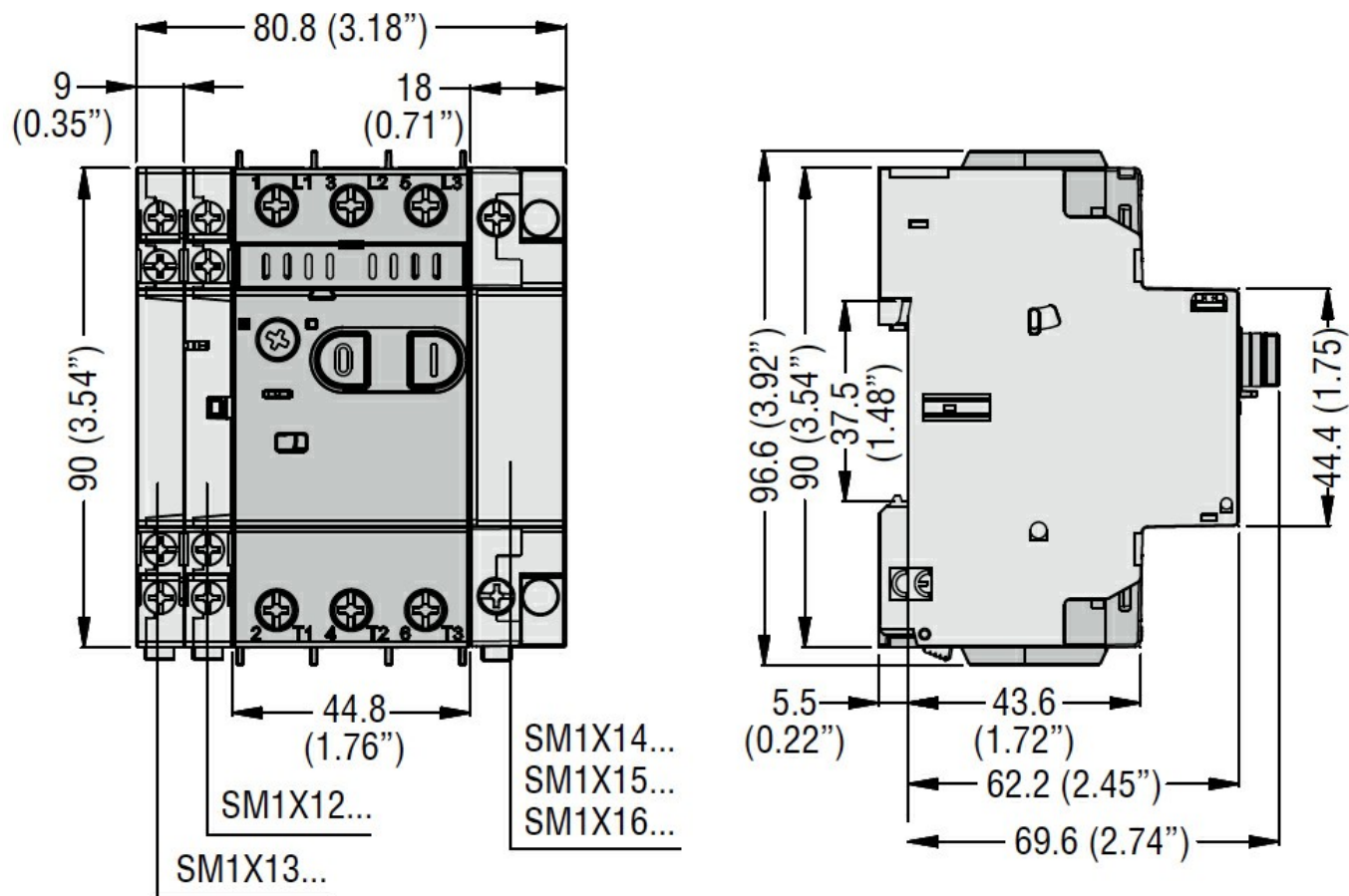
Max number of wires simultaneously connectable

Nr. 2

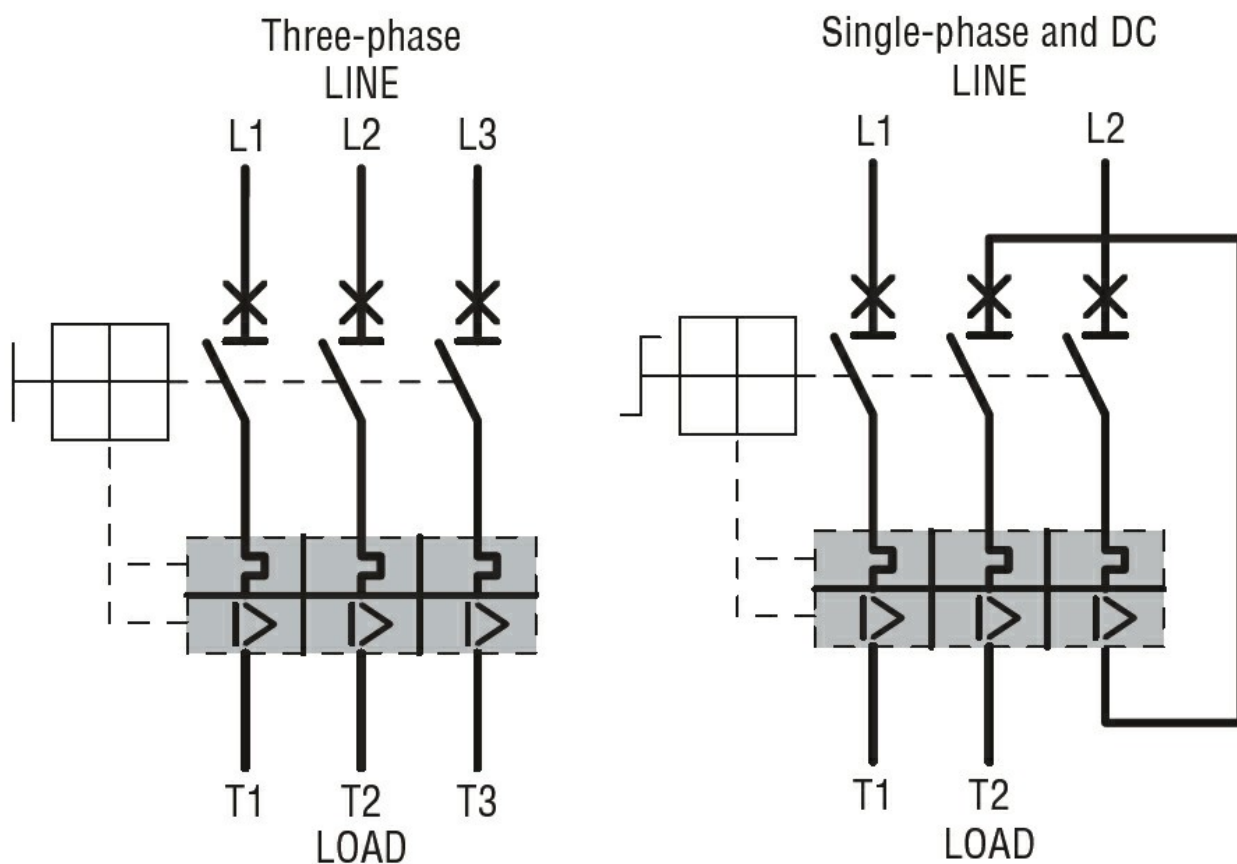
Conductor section				
AWG/Kcmil				
		min	16	
		max	8	
Flexible w/o lug conductor section				
		min	mm ²	1
		max	mm ²	10
Flexible c/w lug conductor section				
		min	mm ²	1
		max	mm ²	10
Flexible with insulated spade lug conductor section				
		min	mm ²	1
		max	mm ²	10
Screwdriver				PH2
Power terminal protection according to IEC/EN 60529				IP20 on front
Cable stripping lenght				
		main circuit	mm	12
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	350
UL technical data				
Motor Disconnect				
		at 240V	kA	30
		at 480V	kA	30
		at 600V	kA	30
		protection	100A class J	
Group Motor Installation				
		at 240V	kA	30
		at 480V	kA	30
		at 600V	kA	30
		protection	100A class J	
Tap Conductor Protection				
		at 480Y/277V	kA	50
		at 600Y/347V	kA	50
Maximum UL/CSA horsepower ratings single-phase				
		110V-120V	HP	3/4
		220V-240V	HP	2
Maximum UL/CSA horsepower ratings three-phase, 3-pole				

200V-208V	HP	3
220V-240V	HP	3
440V-480V	HP	10

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 classification

ETIM 8.0

EC000074 -
Motor protection
circuit-breaker