



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

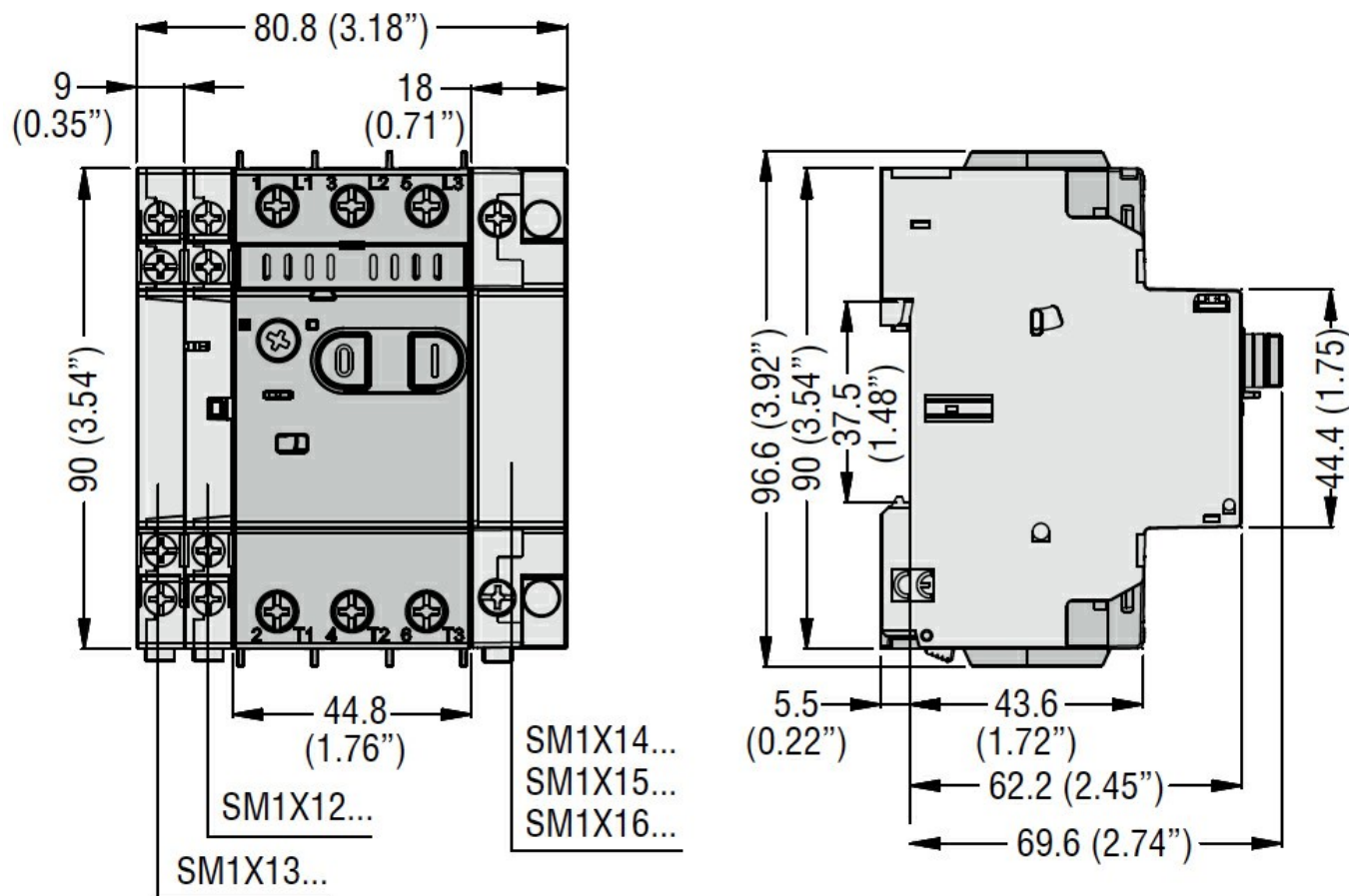
Max number of wires simultaneously connectable

Nr. 2

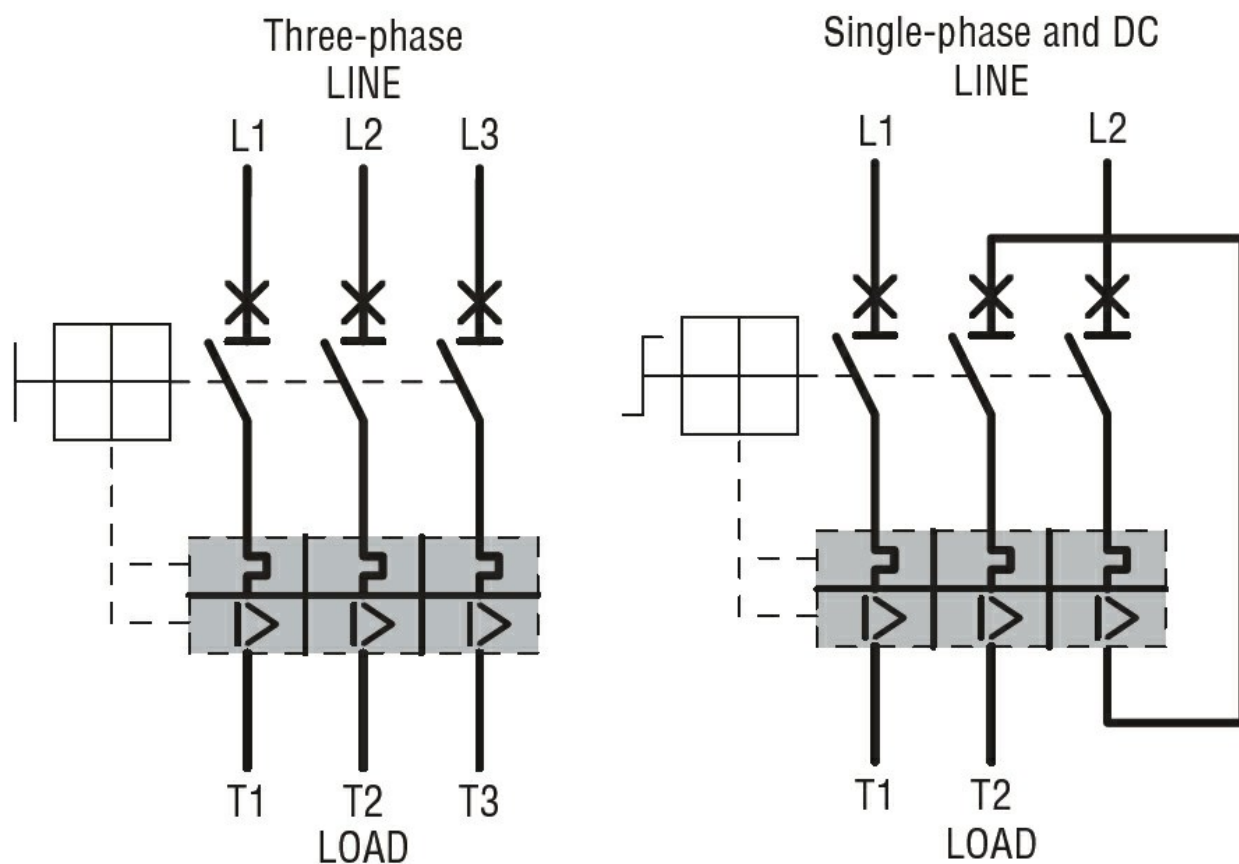
Conductor section			
AWG/Kcmil		min	16
		max	8
Flexible w/o lug conductor section			
		min	mm ² 1
		max	mm ² 10
Flexible c/w lug conductor section			
		min	mm ² 1
		max	mm ² 10
Flexible with insulated spade lug conductor section			
		min	mm ² 1
		max	mm ² 10
Screwdriver			PH2
Power terminal protection 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