



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 mm² 1
max mm² 10

Flexible c/w lug conductor section

min mm² 1
max mm² 10

Flexible with insulated spade lug conductor section

min mm² 1
max mm² 10

Screwdriver

PH2

Power terminal protection according to IEC/EN 60529

IP20

Cable stripping length

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

UL technical data

Group Motor Installation at 240V kA 30
Group Motor Installation at 480V kA 30
Group Motor Installation at 600V kA 30
Group Motor Installation protection 100A class J

Tap Conductor Protection

at 480Y/277V kA 50
at 600Y/347V kA 50

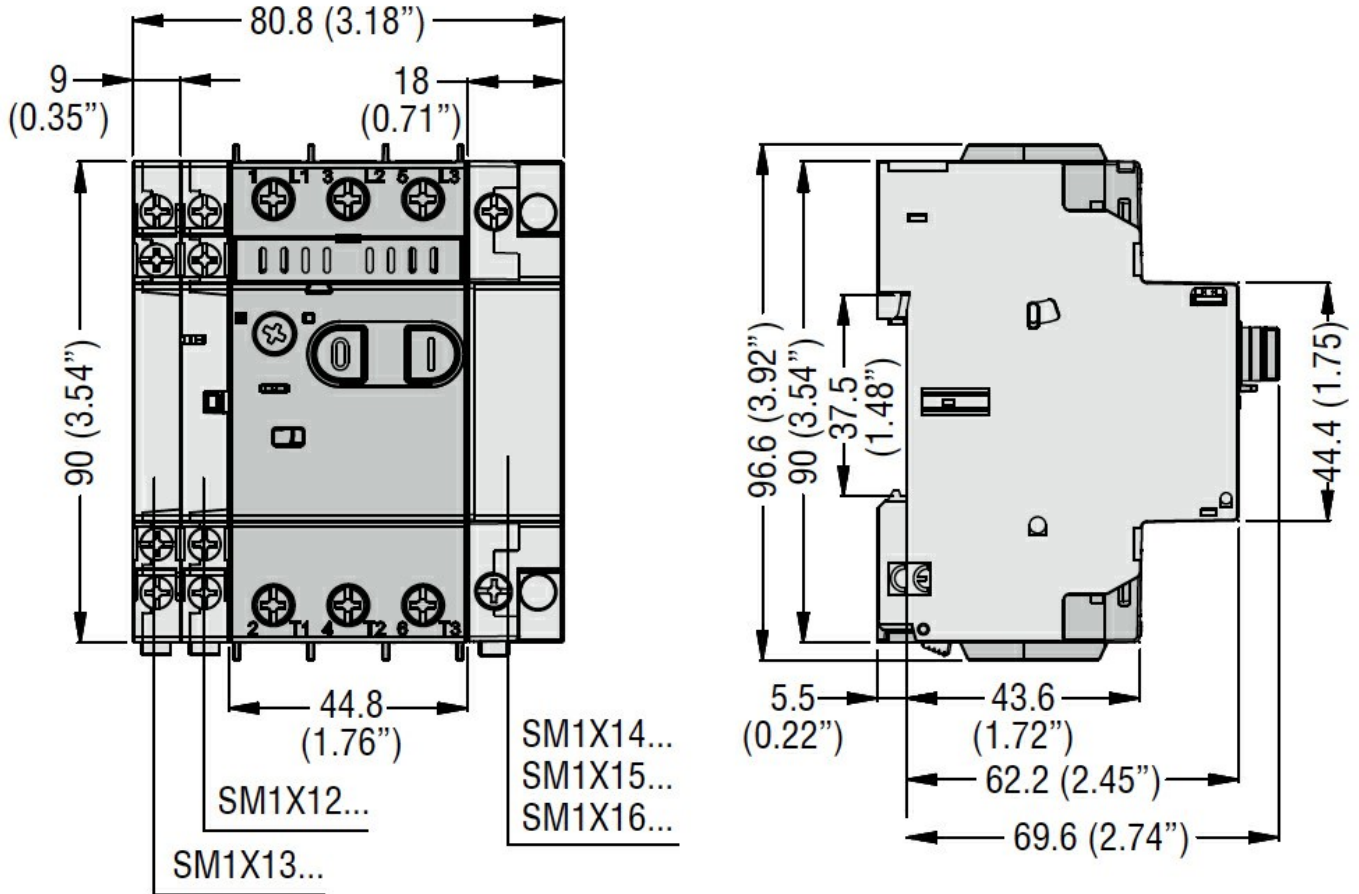
Maximum UL/CSA horsepower ratings single-phase

110V-120V HP 3/4
220V-240V HP 2

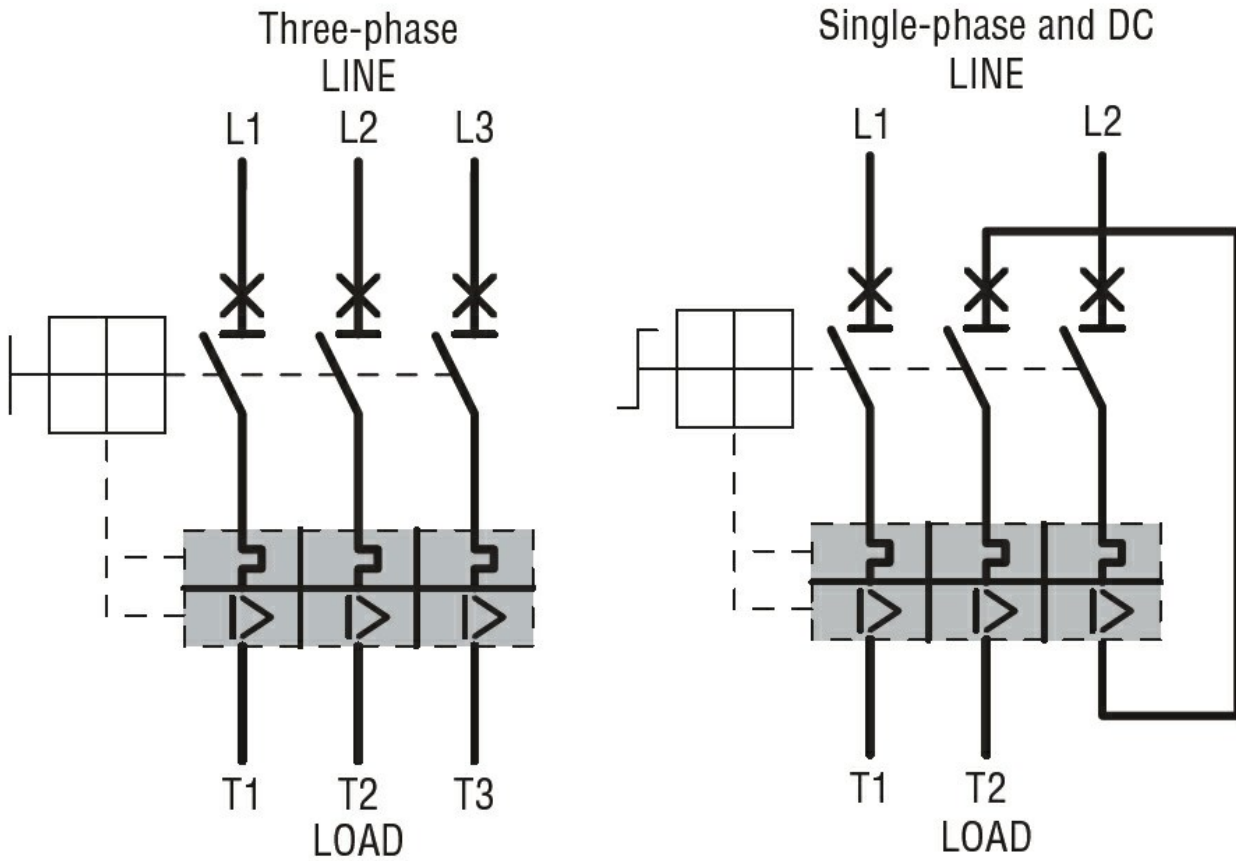
Maximum UL/CSA horsepower ratings three-phase, 3-pole

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