



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 Ui IEC/EN	V	690
Rated impulse withstand voltage Uimp	kV	6
Rated frequency	Hz	50/60
Thermal trip adjustment range		0.16...0.25
Rated current (In)	A	0.25
Magnetic tripping		10 x In
Total power dissipation	W	1.97

Operational short-circuit current breaking capacity (Ics) at AC

230V	kA	100
400V	kA	100
440V	kA	100
500V	kA	100
690V	kA	100

Maximum short-circuit current breaking capacity (Icu) 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 <sup>2</sup>	1
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Flexible c/w lug conductor section	min	mm <sup>2</sup>	1
Flexible with insulated spade lug conductor section	min	mm <sup>2</sup>	1
Screwdriver			PH2
Power terminal protection according to IEC/EN 60529			IP20
Cable stripping length	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 3000

#### Operating position

normal  
allowable

Vertical plan  
Any

#### Fixing

Screw / DIN rail  
35mm

#### Weight

g 280

### UL technical data

#### Motor Disconnect

at 240V	kA	50
at 480V	kA	50
at 600V	kA	50
protection		Fuse or CB

#### Group Motor Installation

at 240V	kA	50
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

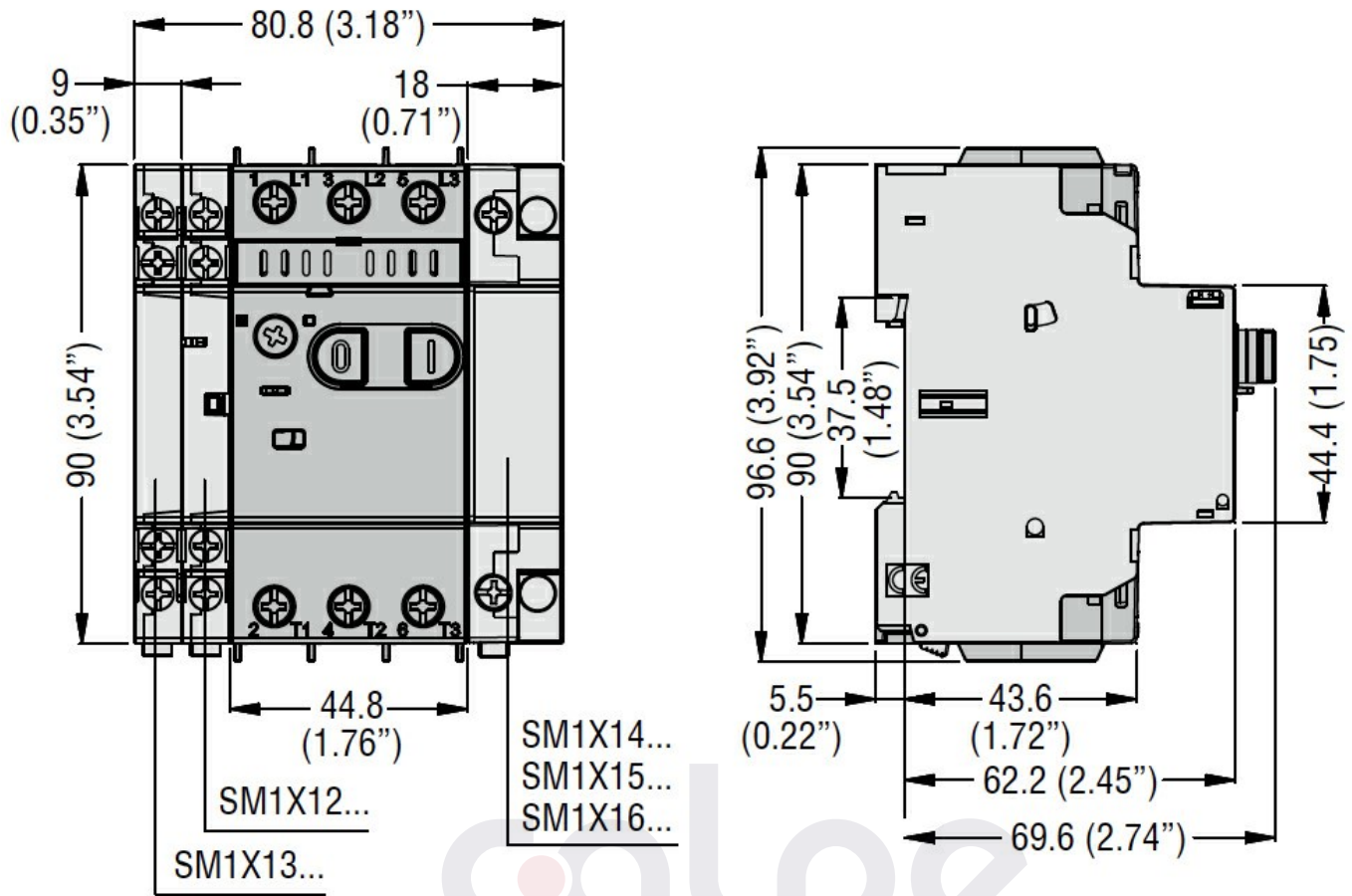
#### Maximum UL/CSA horsepower ratings single-phase

110V-120V	HP	-
220V-240V	HP	-

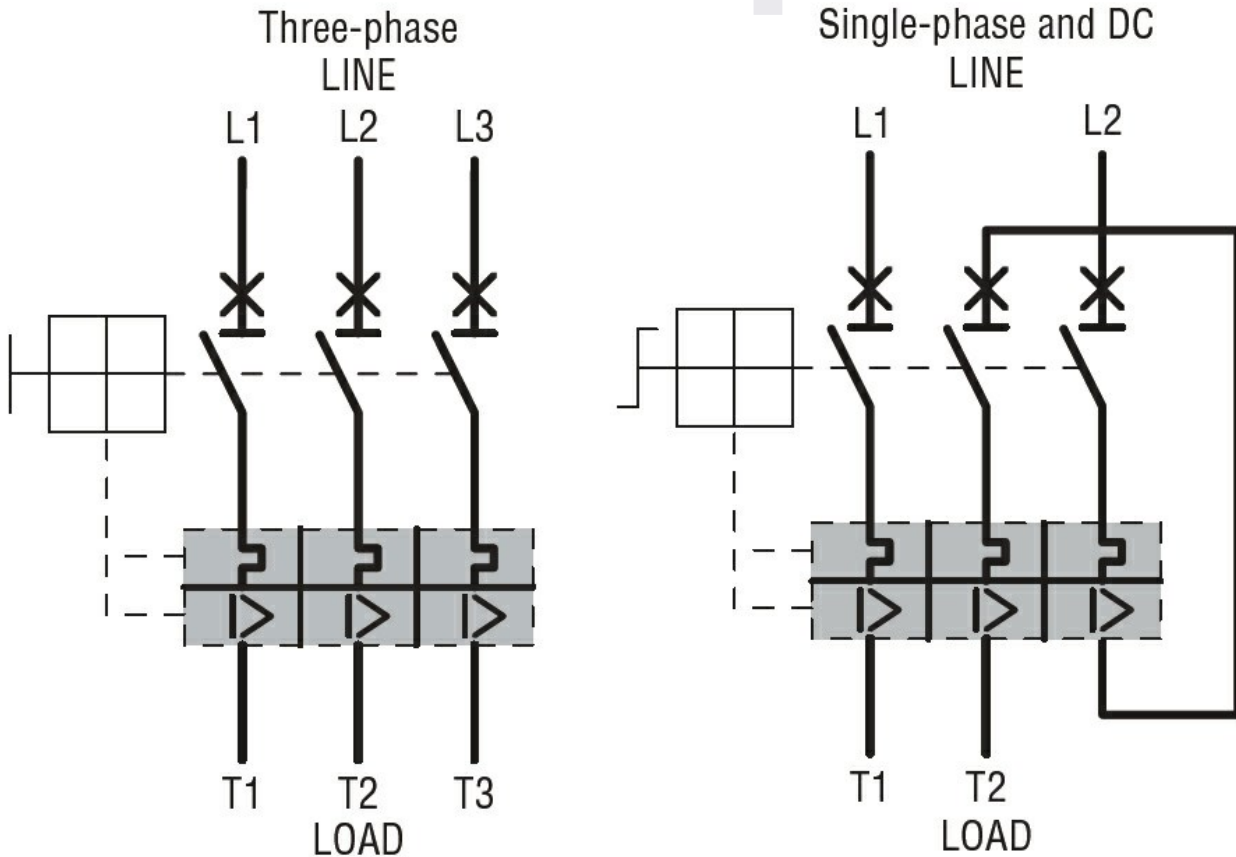
#### Maximum UL/CSA horsepower ratings three-phase, 3-pole

200V-208V	HP	-
220V-240V	HP	-
440V-480V	HP	-
550V-600V	HP	-

### Dimensions



Wiring diagrams



Certifications and compliance



**SM1P0025**  
 MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V,  
 0.16...0.25A

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

