



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 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
Total power dissipation	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	1.8
max	lbin	2.2

Max number of wires simultaneously connectable

nr. 2

Conductor section

AWG/Kcmil



SM1P1400

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 25KA AT 400V, 9...14A

	min		16
	max		8
Flexible w/o lug conductor section			
	min	mm ²	1
Flexible c/w lug conductor section			
	min	mm ²	1
Flexible with insulated spade lug conductor section			
	min	mm ²	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	Vertical plan
allowable	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

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

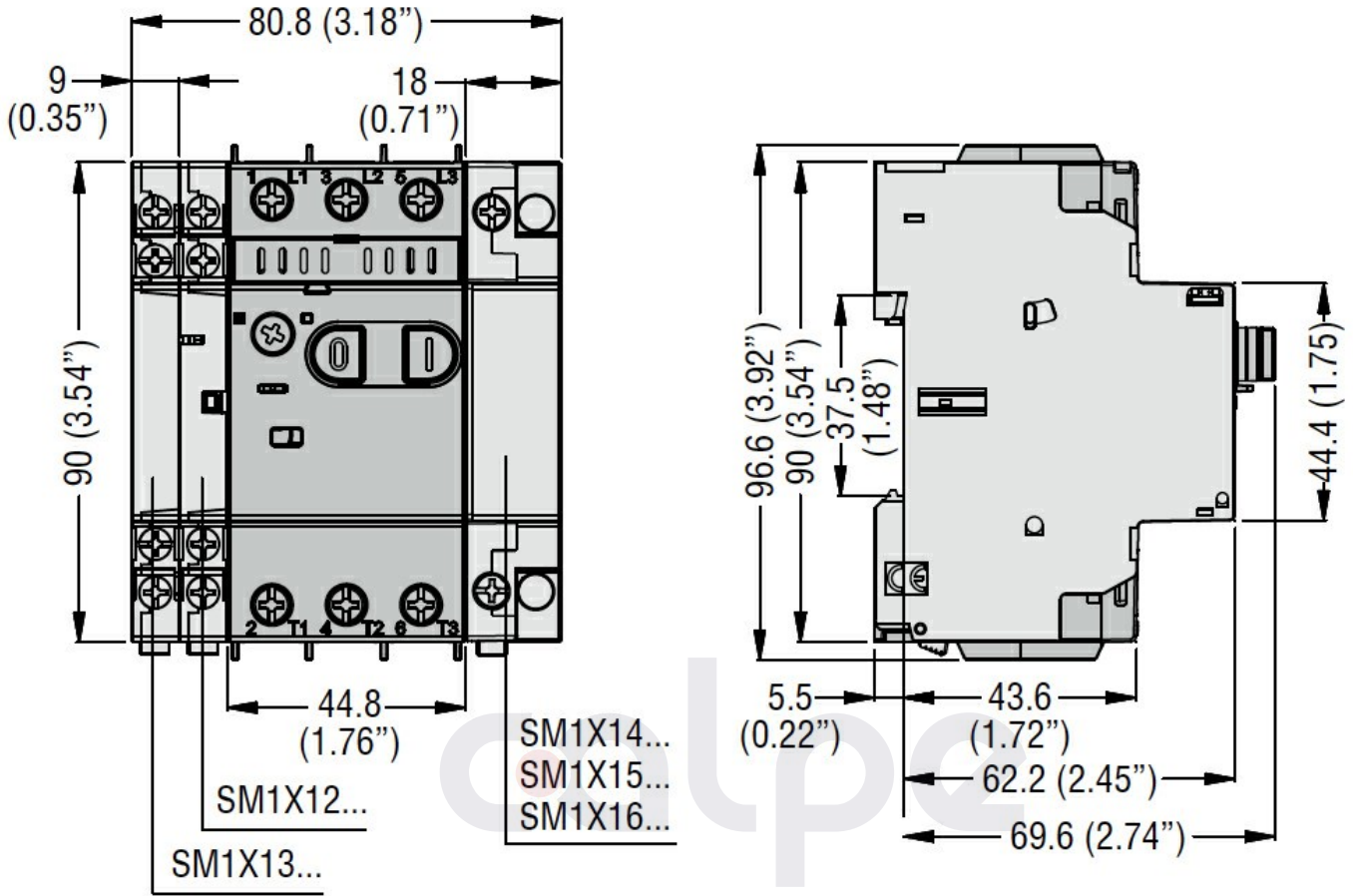
110V-120V	HP	3/4
220V-240V	HP	2

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

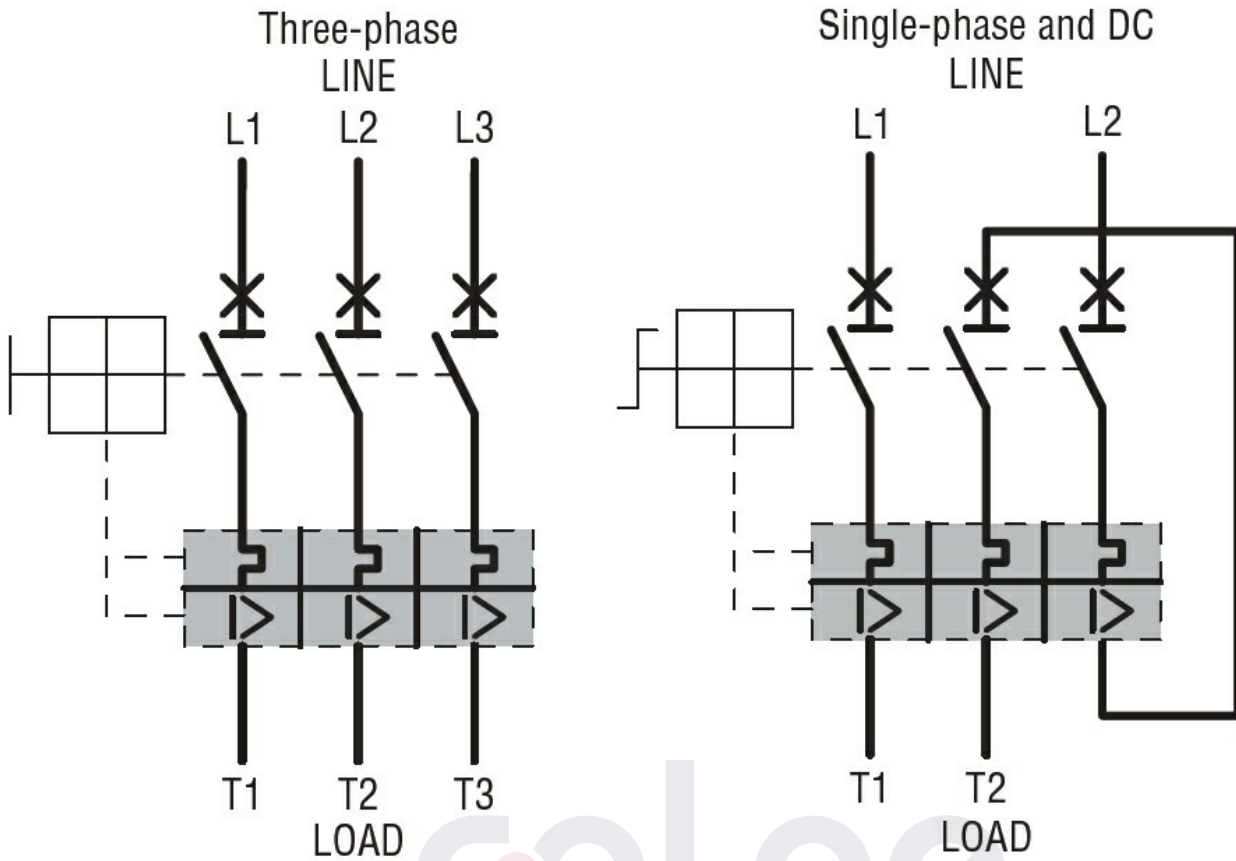
200V-208V	HP	3
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220V-240V	HP	3
440V-480V	HP	10

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