



Product designation

SM1P

Product type designation

Motor protective
circuit breaker

Electrical features

| | | |
|---|-----|------------|
| Number of poles | nr. | 3 |
| Magnetic protection | | Yes |
| Thermal protection | | Yes |
| Phase failure detection | | Yes |
| Rated insulation voltage U_i | V | 690 |
| Rated impulse withstand voltage U_{imp} | kV | 6 |
| Rated frequency | Hz | 50/60 |
| Thermal trip adjustment range | | 1...1,6 |
| Rated current (I_n) | A | 2 |
| Magnetic tripping | | 13 x I_n |

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

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

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

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

Operations

| | | |
|-----------------|--------|---------|
| Mechanical life | Cycles | 100,000 |
| Electrical life | Cycles | 100,000 |

Mechanical features

Tightening torque for terminals

| | | |
|-----|------|---|
| min | Nm | 3 |
| max | Nm | 3 |
| min | lbft | 2 |
| max | lbft | 2 |

max number of wires simultaneously connectable

nr. 2

Conductor section

AWG

| | |
|-----|----|
| min | 16 |
| max | 8 |

Flexible w/o lug conductor section

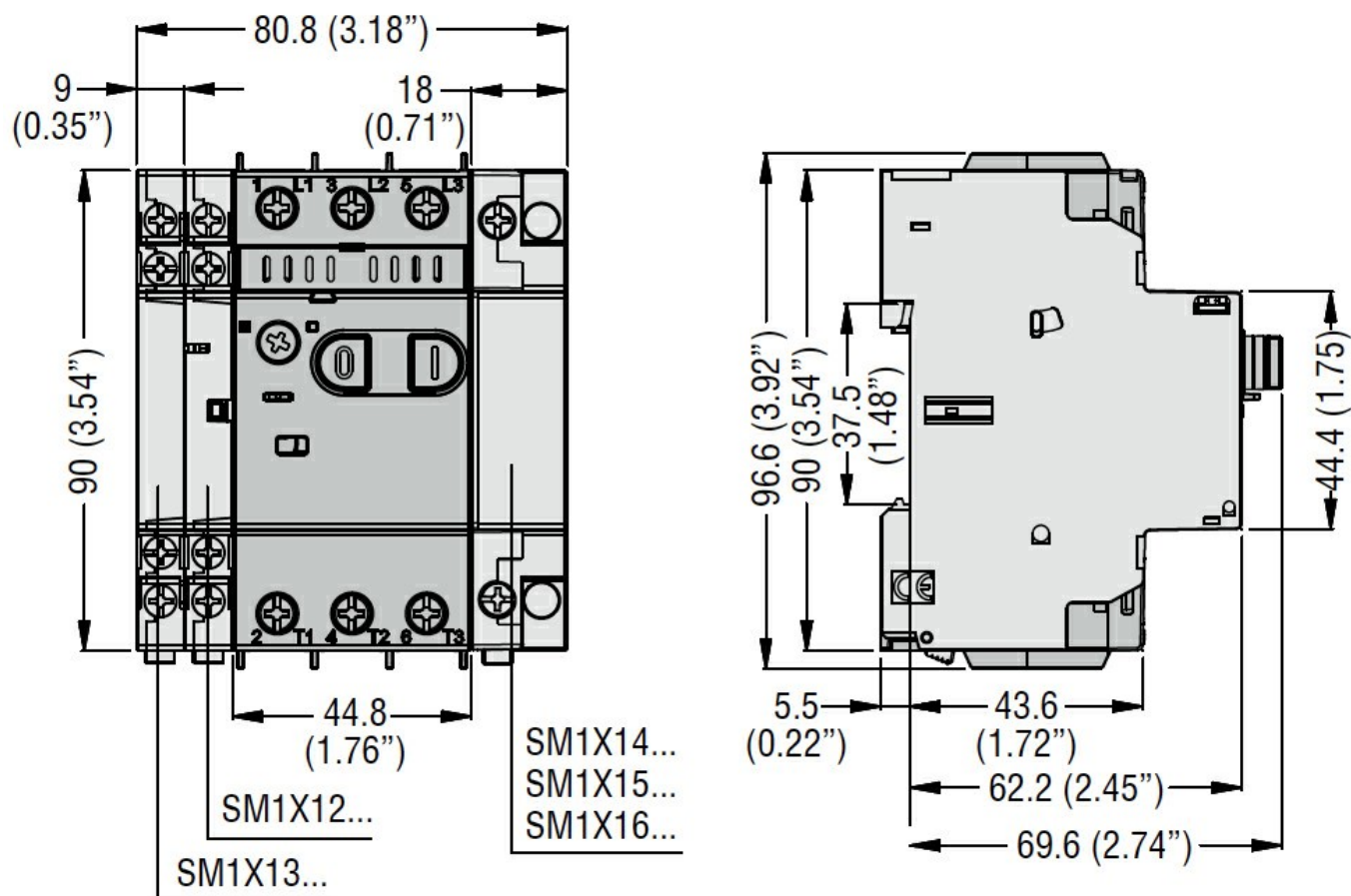
| | | |
|-----|-----------------|----|
| min | mm ² | 1 |
| max | mm ² | 10 |

Flexible c/w lug conductor section

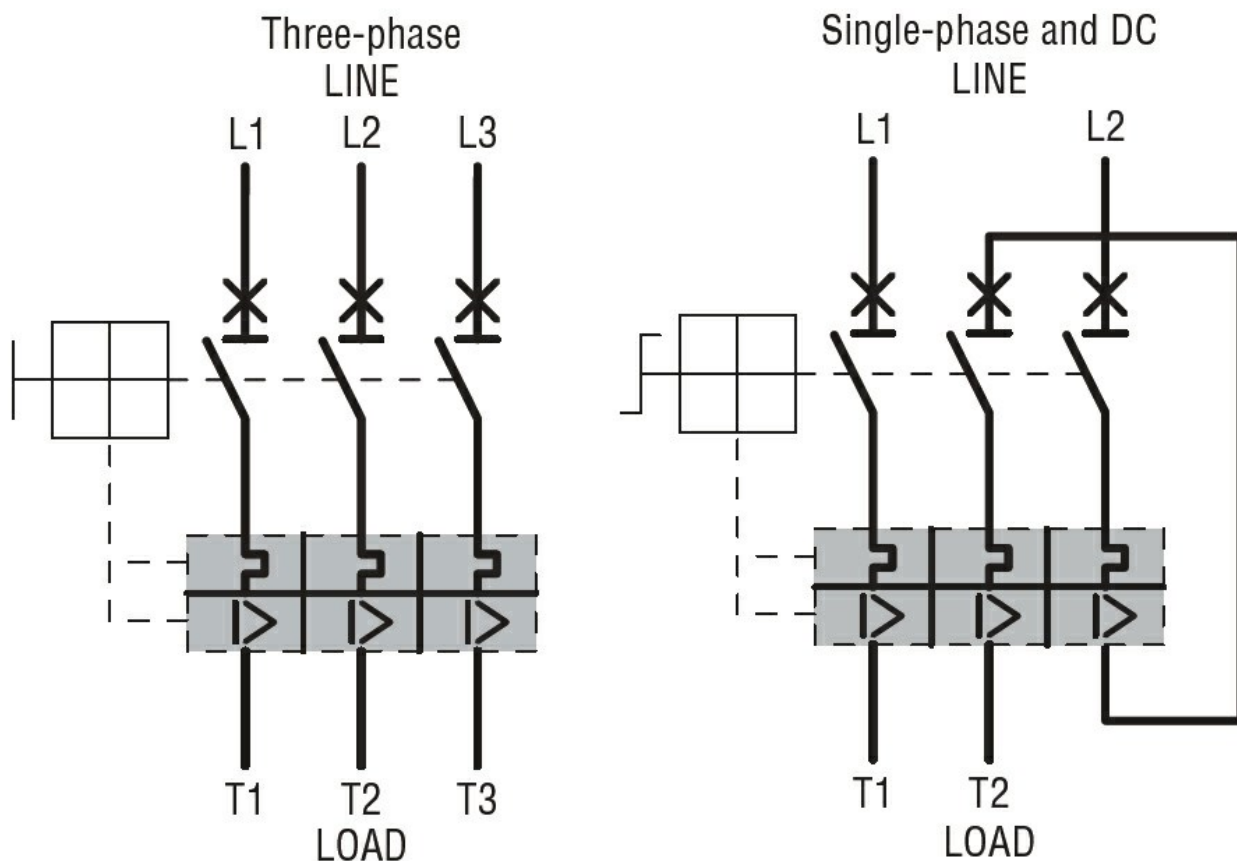
| | | |
|-----|-----------------|---|
| min | mm ² | 1 |
|-----|-----------------|---|

| | | | | |
|--|--|---------------------|----------------------------------|------------|
| | | max | 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 lenght | | 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 | 3,000 |
| Operating position | | normal allowable | Su piano verticale Qualsiasi | |
| Mounting | | | A vite / profilato omega 35mm | |
| Weight | | | g | 280 |
| UL technical data | | | | |
| UL508 / UL60947-4-1 Manual Motor Controller - Short circuit current | | | | |
| 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 | | at 110V-120V | hp | 1 |
| | | at 220V-240V | hp | 2 |
| Maximum UL/CSA horsepower ratings three-phase, 3-pole | | at 200V-208V | hp | 3 |
| | | at 220V-240V | hp | 3 |
| | | at 440V-480V | hp | 10 |
| | | at 550V-600V | hp | - |

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 6 classification