



### 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             |     | 0.4...0.63 |
| Rated current ( $I_n$ )                   | A   | 0.63       |
| Magnetic tripping                         |     | 13 x $I_n$ |
| Power dissipation per pole                | min | W 0.79     |
|                                           | max | W 1.95     |

### 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 |

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

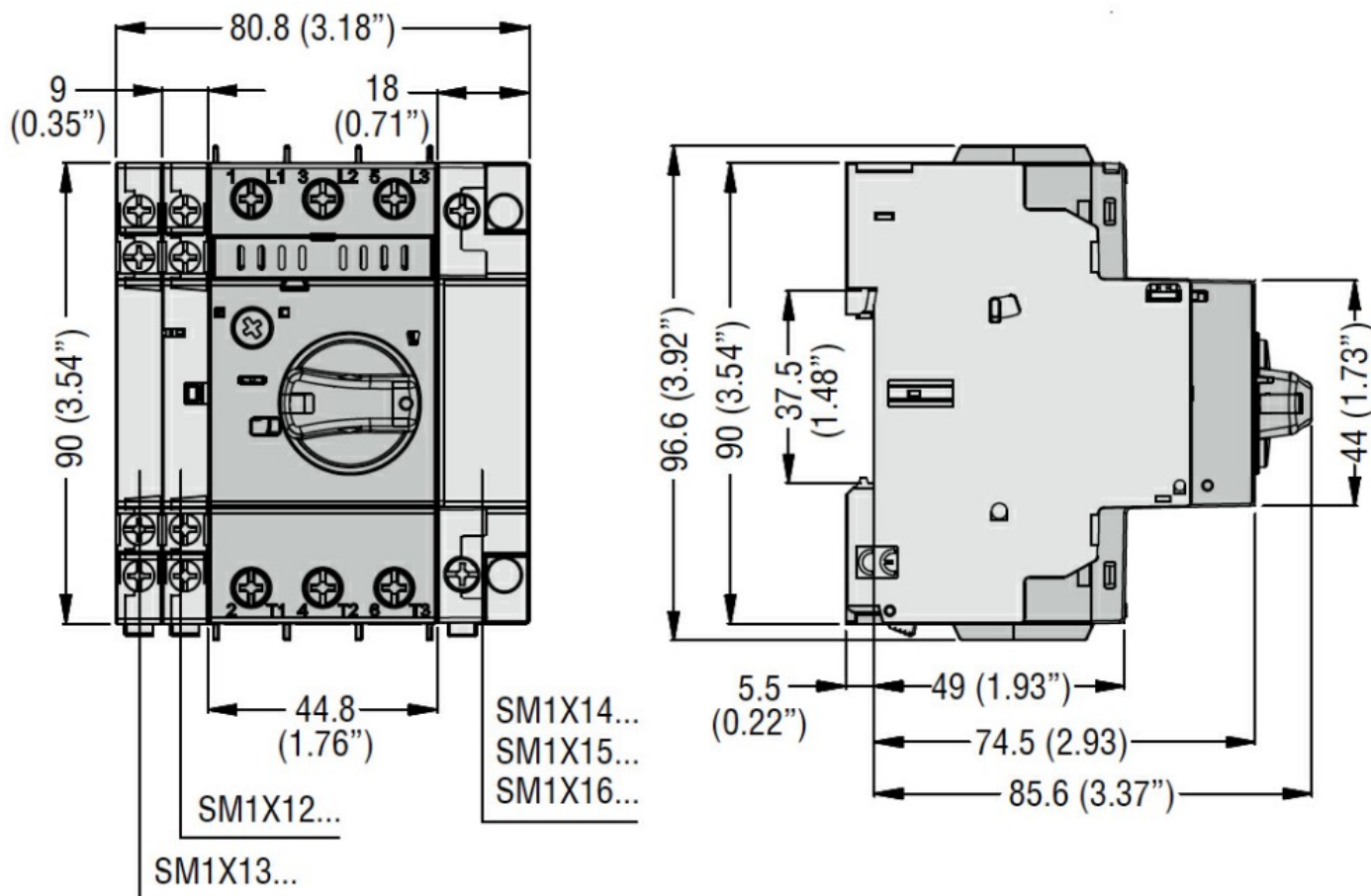
|     |    |
|-----|----|
| min | 16 |
| max | 8  |

Flexible w/o lug conductor section

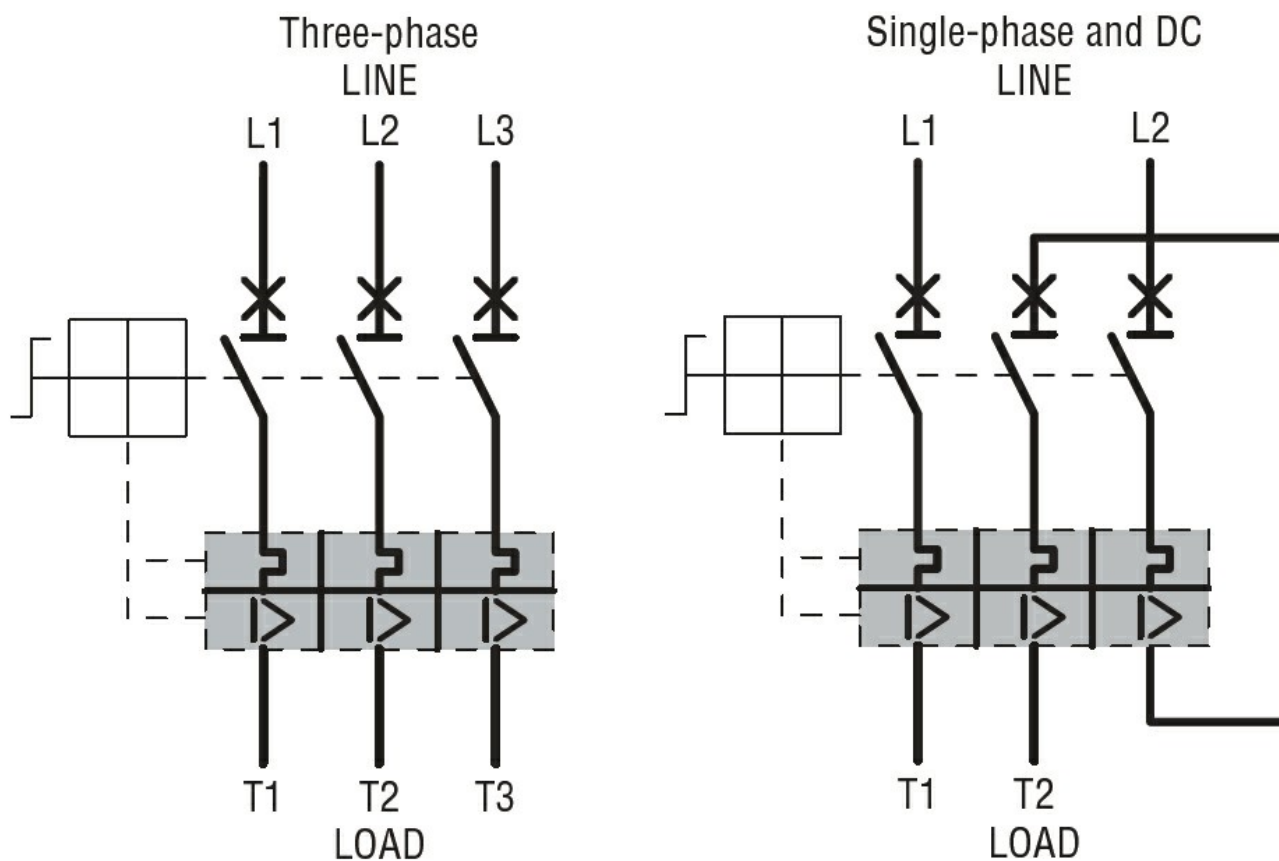
|     |                 |    |
|-----|-----------------|----|
| min | mm <sup>2</sup> | 1  |
| max | mm <sup>2</sup> | 10 |

|                                                                                                        |                  |                 |                          |
|--------------------------------------------------------------------------------------------------------|------------------|-----------------|--------------------------|
| Flexible c/w lug conductor section                                                                     |                  |                 |                          |
|                                                                                                        | min              | mm <sup>2</sup> | 1                        |
|                                                                                                        | max              | mm <sup>2</sup> | 10                       |
| Flexible with insulated spade lug conductor section                                                    |                  |                 |                          |
|                                                                                                        | min              | mm <sup>2</sup> | 1                        |
|                                                                                                        | max              | mm <sup>2</sup> | 10                       |
| Screwdriver                                                                                            |                  |                 | PH2                      |
| Power terminal protection according to IEC/EN 60529                                                    |                  |                 | IP20 on front            |
| Cable stripping lenght                                                                                 |                  |                 |                          |
|                                                                                                        | main circuit     | mm              | 10                       |
| 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<br>Any     |
| Fixing                                                                                                 |                  |                 | Screw / DIN rail<br>35mm |
| Weight                                                                                                 |                  | g               | 320                      |
| UL technical data                                                                                      |                  |                 |                          |
| Motor Disconnect                                                                                       |                  |                 |                          |
|                                                                                                        | at 240V          | kA              | 65                       |
|                                                                                                        | at 480V          | kA              | 65                       |
|                                                                                                        | at 600V          | kA              | 50                       |
|                                                                                                        | protection       |                 | Fuse or CB               |
| Group Motor Installation                                                                               |                  |                 |                          |
|                                                                                                        | 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              | 65                       |
|                                                                                                        | at 480Y/277V     | kA              | 65                       |
|                                                                                                        | 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

### 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