

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.1...0.16A



| Product type designation | | | Motor protection circuit breaker SM1P |
|--|------|--------|---------------------------------------|
| Product type designation Electrical features | | | SIVITE |
| 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 | | | 0.10.16 |
| Rated current (In) | | Α | 0.16 |
| Magnetic tripping | | | 10 x ln |
| Power dissipation per pole | | | |
| the state of the s | min | W | 0.81 |
| | max | W | 2.07 |
| Operational short-circuit current breaking capacity (Ics) at AC | | | |
| 3 , (, | 230V | kA | 100 |
| | 400V | kA | 100 |
| | 440V | kA | 100 |
| | 500V | kA | 100 |
| | 690V | kA | 100 |
| Maximum short-circuit current breaking capacity (Icu) at AC | | | |
| 3 1 7 7 | 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 |
| | | | |



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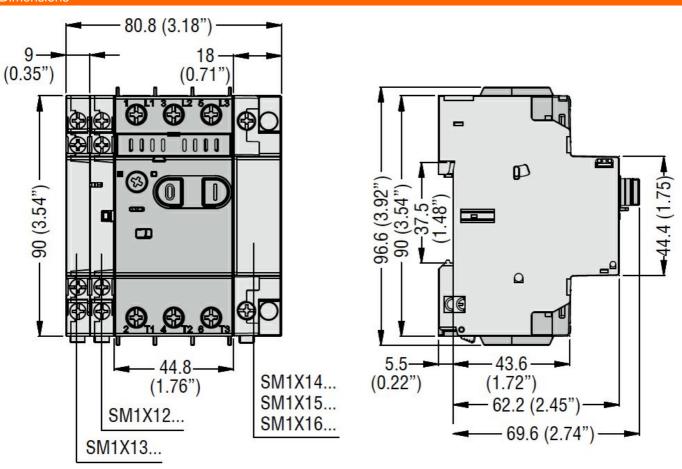
| | Flexible w/o lug conductor section | | | |
|-----------------------|--|---|----------------------------|----------------------|
| | | min | mm² | 1 |
| | m | nax | mm² | 10 |
| | Flexible c/w lug conductor section | | | |
| | | min | mm² | 1 |
| | | nax | mm² | 10 |
| | Flexible with insulated spade lug conductor section | | | |
| | r | min | mm² | 1 |
| | m | nax | mm² | 10 |
| Screwdriver | | | | PH2 |
| Power terminal prote | ction according to IEC/EN 60529 | | | IP20 |
| Cable stripping lengh | ıt | | | |
| | main circ | cuit | mm | 12 |
| Ambient conditions | | | | |
| Temperature | | | | |
| | Operating temperature | _ | | |
| | | min | °C | -20 |
| | | nax | °C | +60 |
| | Storage temperature | | 0.0 | 5 0 |
| | | min | °C | -50 |
| | | nax | °C | +80 |
| | Compensation temperature | ! | °C | 20 |
| | | min | °C | -20 |
| Max altitude | tr | nax | | +50 |
| | | | m | 3000 |
| Operating position | no.w | ol | | Vartical plan |
| | norn allowal | | | Vertical plan Any |
| | allOwal | DIE | | Screw / DIN rail |
| Fixing | | | | 35mm |
| Weight | | | g | 280 |
| UL technical data | | | 9 | 200 |
| Motor Disconnect | | | | |
| | at 24 | .0V | kA | 50 |
| | at 48 | | kA | 50 |
| | at 60 | | kA | 50 |
| | protecti | | | Fuse or CB |
| UL technical data | · | | | |
| | Group Motor Installation at 24 | .0V | kA | 50 |
| | Group initialiation at 24 | | | |
| | Group Motor Installation at 48 | | kA | 50 |
| | | 80V | kA kA | 50 50 |
| | Group Motor Installation at 48 | 80V 90V | | |
| Tap Conductor Protec | Group Motor Installation at 48 Group Motor Installation at 60 Group Motor Installation protecti | 80V 90V | | 50 |
| Tap Conductor Protec | Group Motor Installation at 48 Group Motor Installation at 60 Group Motor Installation protecti | 80V 90V ion | | 50 |
| Tap Conductor Proted | Group Motor Installation at 48 Group Motor Installation at 60 Group Motor Installation protection | 80V 90V ion 77V | kA | 50 Fuse or CB |
| 1 | Group Motor Installation at 48 Group Motor Installation at 60 Group Motor Installation protectiction at 480Y/27 | 80V 90V ion 77V | kA kA | 50 Fuse or CB |
| • | Group Motor Installation at 48 Group Motor Installation at 60 Group Motor Installation protection at 480Y/27 at 600Y/34 | 80V 90V ion 77V 47V | kA kA | 50 Fuse or CB |
| | Group Motor Installation at 48 Group Motor Installation at 60 Group Motor Installation protection at 480Y/27 at 600Y/34 prsepower ratings single-phase | 80V 90V iion 77V 47V | kA kA kA | 50 Fuse or CB |
| Maximum UL/CSA ho | Group Motor Installation at 48 Group Motor Installation at 60 Group Motor Installation protection at 480Y/27 at 600Y/34 presepower ratings single-phase 110V-12 | 80V 90V iion 77V 47V | kA kA kA | 50 Fuse or CB |
| Maximum UL/CSA ho | Group Motor Installation at 48 Group Motor Installation at 60 Group Motor Installation protection at 480Y/27 at 600Y/34 presepower ratings single-phase 110V-12 220V-24 | 80V 00V ion 77V 77V 20V | kA kA kA | 50 Fuse or CB |
| Maximum UL/CSA ho | Group Motor Installation at 48 Group Motor Installation at 60 Group Motor Installation protectication at 480Y/27 at 600Y/34 presepower ratings single-phase 110V-12 220V-24 presepower ratings three-phase, 3-pole | 80V 90V ion 77V 77V 20V -0V | kA kA kA HP HP | 50 Fuse or CB |
| | Group Motor Installation at 48 Group Motor Installation at 60 Group Motor Installation protection at 480Y/27 at 600Y/34 presepower ratings single-phase 110V-12 220V-24 presepower ratings three-phase, 3-pole 200V-20 | 80V 90V 90V 97V 97V 90V 98V | kA kA kA HP HP | 50 Fuse or CB |

SM1P0016

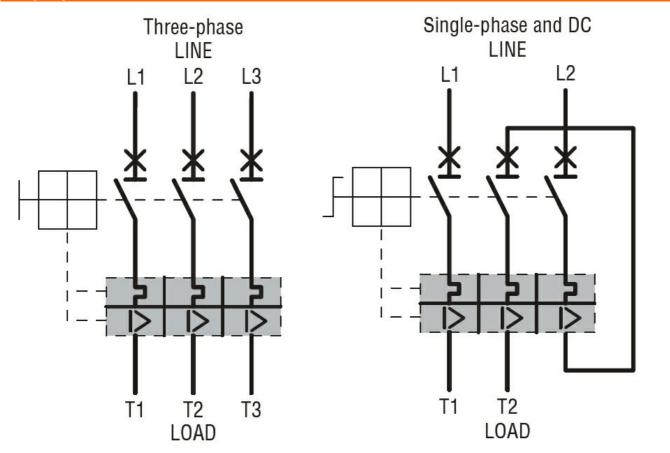


ENERGY AND AUTOMATION

Dimensions



Wiring diagrams





circuit-breaker



ENERGY AND AUTOMATION

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| Certifications and com | pliance | |
|------------------------|------------------|--------------------------------|
| 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 |