



| Product designation | | | Motor protection circuit breaker |
|---|------|--------|----------------------------------|
| Product type designation Electrical features | | | SM1R |
| 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 | | | 2025 |
| Rated current (In) | | Α | 25 |
| Magnetic tripping | | | 13 x ln |
| Power dissipation per pole | | | |
| | min | W | 1.81 |
| | max | W | 2.83 |
| Operational short-circuit current breaking capacity (Ics) at AC | | | |
| | 230V | kA | 100 |
| | 400V | kA | 25 |
| | 440V | kA | 5 |
| | 500V | kA | 5 |
| | 690V | kA | 2 |
| Maximum short-circuit current breaking capacity (Icu) at AC | | | |
| | 230V | kA | 100 |
| | 400V | kA | 50 |
| | 440V | kA | 10 |
| | 500V | kA | 10 |
| | 690V | kA | 4 |
| 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 | Ibin | 22 |
| | max | Ibin | 26.5 |
| Max number of wires simultaneously connectable | | Nr. | 2 |
| Conductor section | | | _ |
| AWG/Kcmil | | | |
| | min | | 16 |
| | max | | 8 |
| | | | |

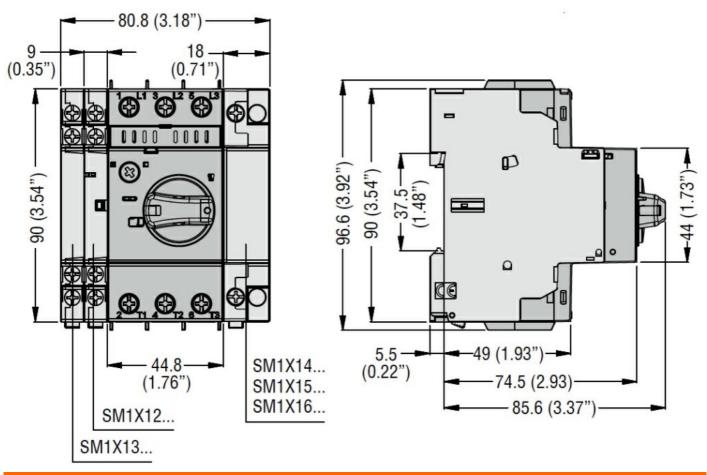




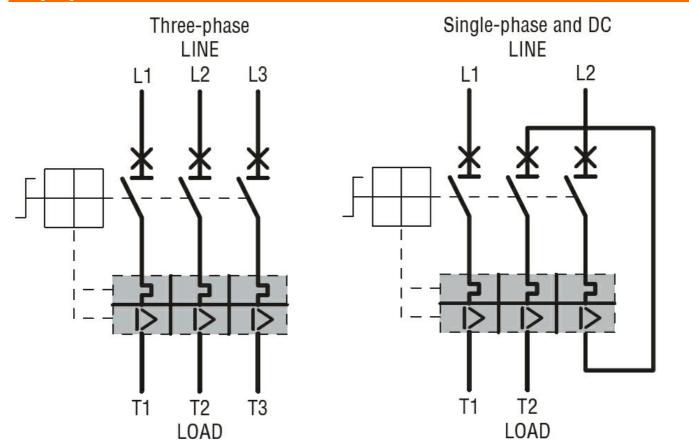
MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V,

| | Flexible w/o lug conductor sed | ction | | |
|---|---------------------------------|-------------------------------------|-----|--------------------------|
| | Ğ | min | mm² | 1 |
| | | max | mm² | 10 |
| | Flexible c/w lug conductor sed | ction | | |
| | G | min | mm² | 1 |
| | | max | mm² | 10 |
| | Flexible with insulated spade I | lug conductor section | | |
| | | min | mm² | 1 |
| | | max | mm² | 10 |
| Screwdriver | | | | PH2 |
| Power terminal protection | on according to IEC/EN 60529 | | | IP20 |
| Cable stripping lenght | <u> </u> | | | |
| | | main circuit | mm | 12 |
| 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 | 390 |
| UL technical data | | | | |
| Motor Disconnect | | | | |
| | | at 480V | kA | 30 |
| | | at 600V | kA | 30 |
| | | protection | | 200A class J |
| UL technical data | | • | | |
| | | Group Motor Installation at 480V | kA | 30 |
| | | Group Motor Installation at 600V | kA | 30 |
| | | Group Motor Installation protection | | 200A class J |
| Maximum UL/CSA horse | epower ratings single-phase | - | | |
| | | 110V-120V | HP | 2 |
| | | 220V-240V | HP | 3 |
| Maximum UL/CSA horsepower ratings three-phase, 3-pole | | | | |
| | . , | 200V-208V | HP | 5 |
| | | 220V-240V | HP | 7.5 |
| | | 440V-480V | HP | 15 |
| | | 550V-600V | HP | 20 |
| Dimensions | | | | |





Wiring diagrams



Certifications and compliance



SM1R2500

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 50KA AT 400V, 20...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