electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.25...0.4A **ENERGY AND AUTOMATION**



| Product designation | | | Motor protection circuit breaker SM1R |
|---|------|--------|---------------------------------------|
| Product type designation Electrical features | | | SIVITR |
| 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 | | | 0.250.4 |
| Rated current (In) | | Α | 0.4 |
| Magnetic tripping | | | 13 x ln |
| Power dissipation per pole | | | |
| | min | W | 0.78 |
| | max | W | 1.99 |
| 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 | | | |
| | 230V | kA | 100 |
| | 400V | kA | 100 |
| | 440V | kA | 100 |
| | 500V | kA | 100 |
| | 690V | kA | 100 |
| Tripping class | | | 10A |
| IEC Utilization category | | | Α |
| 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 | Ibin | 26.5 |
| Max number of wires simultaneously connectable | | Nr. | 2 |
| Conductor section | | | |
| AWG/Kcmil | | | |
| | min | | 16 |
| | max | | 8 |
| | | | |

ENERGY AND AUTOMATION

electric MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.25...0.4A

| | Flexible w/o lug conductor section | | |
|-----------------------------|--|------|--------------------------|
| | min | mm² | 1 |
| | max | mm² | 10 |
| | Flexible c/w lug conductor section | | |
| | min | mm² | 1 |
| | max | mm² | 10 |
| | Flexible with insulated spade lug conductor section | | |
| | min | mm² | 1 |
| | max | mm² | 10 |
| Screwdriver | | | PH2 |
| Power terminal prote | ction according to IEC/EN 60529 | | IP20 on front |
| Cable stripping lengh | t | | |
| | main circuit | mm | 12 |
| Ambient conditions | | | |
| Temperature | | | |
| | Operating temperature | | |
| | min | °C | -20 |
| | max | °C | +60 |
| | Storage temperature | 0 = | |
| | min | °C | -50 |
| | max | °C | +80 |
| | Compensation temperature | 0.0 | 22 |
| | min | °C | -20 |
| A Ista I | max | °C | +50 |
| Max altitude | | m | 3000 |
| Operating position | | | |
| | normal | | Vertical plan |
| | allowable | | Any |
| Fixing | | | Screw / DIN rail 35mm |
| Noight | | | 320 |
| Weight UL technical data | | g | 320 |
| Motor Disconnect | | | |
| MOTOL DISCONNECT | at 480V | kA | 50 |
| | at 600V | kA | 50 |
| | protection | IVΛ | Fuse or CB |
| Group Motor Installati | · | | 1 036 01 00 |
| C. Sup Motor motunati | at 480V | kA | 50 |
| | at 600V | kA | 50 |
| | protection | IVA | Fuse or CB |
| Tap Conductor Prote | · | | . 200 0. 00 |
| | at 480Y/277V | kA | 50 |
| | at 4001/277V at 600Y/347V | kA | 50 |
| JL508 / UL 60947-4- | 1 Manual Self Protected Combination Motor Controller (Type E) Short of | | |
| C_555, GE 55571 4 | at 240V | kA | 65 |
| | at 480Y/277V | kA | 65 |
| | at 4001/277V at 600Y/347V | kA | 50 |
| Maximum UI /C.SA ho | prsepower ratings single-phase | 10.1 | |
| | 110V-120V | HP | _ |
| | 220V-240V | HP | _ |
| Maximum III /C.SA ho | prsepower ratings three-phase, 3-pole | | |
| | 200V-208V | HP | _ |
| | 200V-206V 220V-240V | HP | _ |
| | 220 V -240 V | | |

MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.25...0.4A **ENERGY AND AUTOMATION**

440V-480V HP

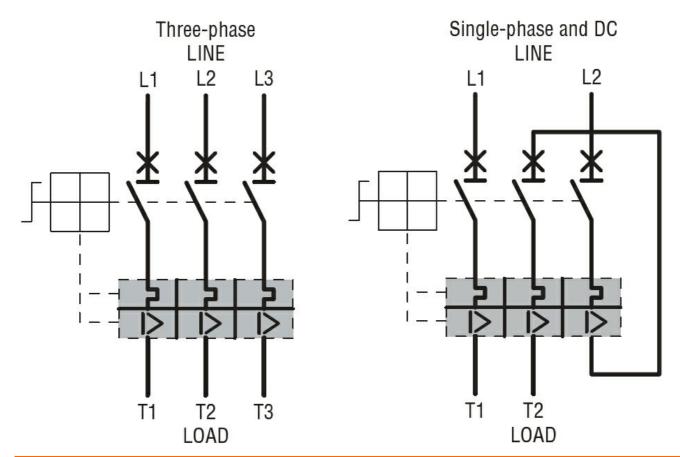
550V-600V HP

Dimensions 80.8 (3.18") -9 (0.35"D 96.6 (3.92") 90 (3.54") 90 (3.54") 0 49 (1.93") 5.5 - (0.22") - 44.8-(1.76") SM1X14... 74.5 (2.93) SM1X15... SM1X16... -85.6 (3.37") SM1X12... SM1X13...

Wiring diagrams

ENERGY AND AUTOMATION

MOTOR PROTECTION CIRCUIT BREAKER TYPE E, IEC BREAKING CAPACITY ICU 100KA AT 400V, 0.25...0.4A



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