ENERGY AND AUTOMATION

INDUSTRIAL MARINE RAILWAY

SM1P0160

MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V,



| Product designation | | | Motor protective circuit breaker |
|---|------|--------|----------------------------------|
| Product type designation | | | SM1P |
| Electrical features | | | |
| 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 | | | 11.6 |
| Rated current (In) | | Α | 1.6 |
| Magnetic tripping | | | 13 x In |
| Total power dissipation | | W | 2.30 |
| Operational short-circuit current breaking capacity (Ics) at AC | | | |
| | 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 | | | 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 | 1.8 |
| | max | Ibin | 2.2 |
| Max number of wires simultaneously connectable | | nr. | 2 |
| Conductor section | | | · |
| AWG/Kcmil | | | |
| , o, | min | | 16 |
| | max | | 8 |
| Flexible w/o lug conductor section | max | | |
| Toxible We lag conductor socion | min | mm² | 1 |
| | | | • |

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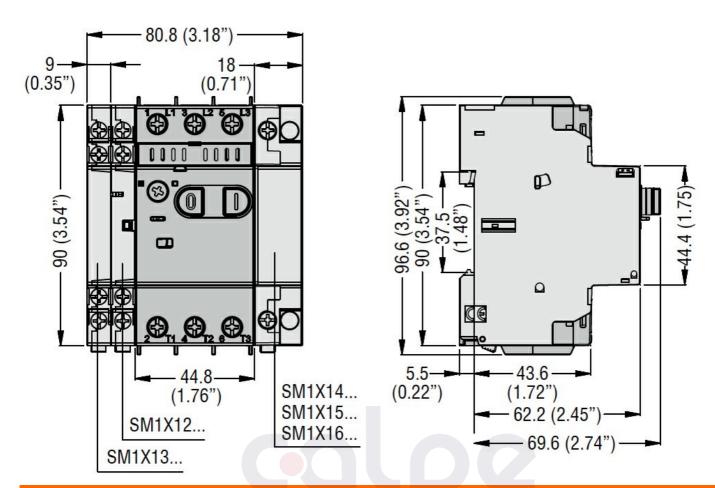
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|-----------------------|--|------------------------|------------|----------------------|
| | Flexible c/w lug conductor section | | | |
| | | min | mm² | 1 |
| | Flexible with insulated spade lug conductor section | | | |
| | | min | mm² | 1 |
| Screwdriver | | | | PH2 |
| | tection according to IEC/EN 60529 | | | IP20 |
| Cable stripping leng | ght | | | 4 |
| Ambient conditions | | main circuit | mm | 1 |
| Temperature | | | | |
| Temperature | Operating temperature | | | |
| | | min | °C | -20 |
| | | max | °C | 60 |
| | Storage temperature | | | |
| | | min | °C | -50 |
| | | max | °C | 80 |
| | Compensation temperature | | | |
| | | min | °C | -20 |
| Marralett I. | | max | °C | 50 |
| Max altitude | | | m | 3000 |
| Operating position | | normal | | Vertical plan |
| | | allowable | | Vertical plan Any |
| | | allowable | | Screw / DIN rail |
| Fixing | | | | 35mm |
| Weight | | | g | 280 |
| UL technical data | | | | |
| Motor Disconnect | | | | |
| | | at 240V | kA | 50 |
| | | at 480V | kA | 50 |
| | | at 600V | kA | 50 |
| Oracia Matar Install | ation. | protection | | Fuse or CB |
| Group Motor Installa | ation | ot 0.40\/ | LεA | 50 |
| | | at 240V at 480V | kA kA | 50 50 |
| | | at 460V at 600V | kA kA | 50 |
| | | protection | IV V | Fuse or CB |
| Tap Conductor Prof | tection | , | | |
| | | at 480Y/277V | kA | 50 |
| | | at 600Y/347V | kA | 50 |
| UL508 / UL 60947- | 4-1 Manual Self Protected Combination Motor Controller (| Type E) Short o | circuit cu | rrent |
| | | at 240V | kA | 50 |
| | | at 480Y/277V | kA | 50 |
| | | at 600Y/347V | kA | 50 |
| Maximum UL/CSA | horsepower ratings single-phase | | | |
| | | 110V-120V | HP | - |
| Maximum III /00 A | haraanawar ratinga thesa whasa 2 = 1- | 220V-240V | HP | 1/10 |
| waximum UL/CSA | horsepower ratings three-phase, 3-pole | 2001/ 2001/ | ПD | |
| | | 200V-208V 220V-240V | HP HP | - |
| | | 440V-480V | HP | 3/4 |
| | | 550V-600V | HP | 1 |
| Dimensions | | 222. 2001 | | • |

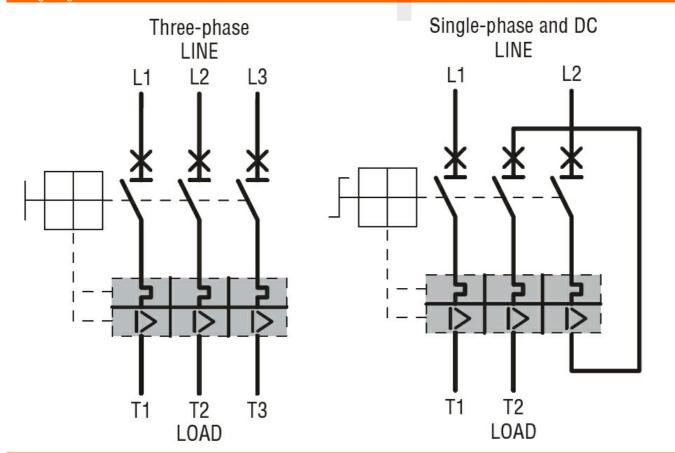
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Wiring diagrams



Certifications and compliance

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MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY ICU 100KA AT 400V,

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

EC000074 -**ETIM 8.0** Motor protection circuit-breaker

