

Product datasheet

Specifications



electronic overcurrent relay - 0.5..6 A - 220 V AC

EOCRSS-05S

Main

| | |
|------------------------------|--|
| Range of product | EOCR |
| Device short name | EOCR-3D420 |
| Product or component type | Protection relay |
| Protection type | Overload, In > OC setting Sensitivity to phase loss Sensitivity to phase reverse Locked rotor, In > 3 times OC setting Phase unbalance, 50 % |
| Product specific application | Overcurrent protection |
| Analogue output range | 4...20 mA |
| Network type | AC |
| Network frequency | 50...60 Hz |
| Protection ajustment range | 0.5...10 A |
| Tripping threshold | 0.5...6 A |

Complementary

| | |
|--|--|
| [Us] rated supply voltage | 220 V AC |
| Mounting support | 35 mm DIN rail Panel |
| Contacts type and composition | 1 NO + 1 NC (OL) |
| Short-circuit and overload protection | By 4 A gG fuse |
| [Ue] rated operational voltage | 600 V AC 50...60 Hz for power circuit conforming to UL 690 V AC 50...60 Hz for power circuit conforming to CSA 690 V AC 50...60 Hz for power circuit conforming to IEC 60947-4-1 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947-4-1 |
| Reset | Manual reset Electrical 0...1 s by interruption of power supply |
| Time delay type | O-Time: 0.3, 1...30 s, off (definite) D-Time: 1...120 s, off (definite) O-Time: 1...30 class (inverse) D-Time: 0...120 s (inverse) |
| Display type | 7 segments LED |
| Power consumption per relay | 3 W |
| Connections - terminals | Control circuit: cable 2 x 1...1.5 mm²flexible with cable end - M3 Control circuit: cable 2 x 1...1.5 mm²flexible without cable end - M3 |

| | |
|-------------------|---|
| | Control circuit: cable 1 x 1...2.5 mm²flexible with cable end - M3 Control circuit: cable 1 x 1...2.5 mm²flexible without cable end - M3 |
| Tightening torque | Control circuit: 0.8...1.2 N.m on cable, 4.7 mm |
| Height | 71 mm |
| Width | 70 mm |
| Depth | 68 mm |
| Net weight | 0.325 kg |

Environment

| | |
|---|---|
| Standards | IEC 60947-4-1 |
| IP degree of protection | IP20 conforming to IEC 60529 |
| Ambient air temperature for operation | -20...60 °C conforming to IEC 60947-4-1 |
| Ambient air temperature for storage | -30...80 °C |
| Operating altitude | 2000 m |
| Fire resistance | 650 °C conforming to IEC 60695-2-12 960 °C conforming to UL 94 |
| Shock resistance | 15 gn for 11 ms conforming to IEC 60068-2-7 |
| Vibration resistance | 4 gn on panel mounting conforming to IEC 60068-2-6 2 gn on 35 mm DIN rail conforming to IEC 60068-2-6 |
| Dielectric strength | 2 kV 50...60 Hz in between case and circuit conforming to IEC 60255-5 1 kV 50...60 Hz in between contact conforming to IEC 60255-5 2 kV 50...60 Hz in between circuit conforming to IEC 60255-5 |
| Surge withstand | 6 kV conforming to IEC 61000-4-5 |
| Electromagnetic compatibility | Resistance to radiated electromagnetic fields: 10 V/m level 3 conforming to IEC 61000-4-3 Resistance to electrostatic discharge: 8 kV air, 6 kV contact conforming to IEC 61000-4-2 Resistance to fast transient: 2 kV conforming to IEC 61000-4-4 Conducted RF disturbances: 10 V conforming to EN 61000-4-6 Conducted RF disturbances: class A conforming to EN 55011 |
| [Ith] conventional free air thermal current | 5 A for control circuit |
| Permissible current | 250 V, 5 A AC |

Packing Units

| | |
|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 5.9 cm |
| Package 1 Width | 8.2 cm |
| Package 1 Length | 7.9 cm |
| Package 1 Weight | 160.0 g |

Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| RoHS exemption information | Yes |

| | |
|--------------------------|---|
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| PVC free | Yes |

Recommended replacement(s)