# Product data sheet
## Characteristics

# EOCRSS-60W
Electronic overcurrent relay, EOCR Digital, 5 to 60 A, 220 V AC



## Main

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|---|---|
| Range of product | EOCR |
| Device short name | EOCRSS |
| Product or component type | Protection relay |
| Protection type | Overload, In > OC setting<br>Sensitivity to phase loss<br>Sensitivity to phase reverse<br>Locked rotor, In > 3 times OC setting<br>Phase unbalance, 50 % |
| Product specific application | Overcurrent protection |
| Analogue output range | 4...20 mA |
| Network type | AC |
| Network frequency | 50...60 Hz |
| Thermal protection adjustment range | 5…60 A |
| Tripping threshold | 5...60 A |

## Complementary

| | |
|---|---|
| [Us] rated supply voltage | 220 V AC |
| Mounting support | 35 mm DIN rail<br>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<br>690 V AC 50...60 Hz for power circuit conforming to CSA<br>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<br>Electrical 0…1 s by interruption of power supply |
| Time delay type | O-Time: 0.3, 1...30 s, off (definite)<br>D-Time: 1...120 s, off (definite)<br>O-Time: 1...30 class (inverse)<br>D-Time: 0...120 s (inverse) |
| Display type | 7 segments LED |
| Power consumption in W | 3 W |
| Connections - terminals | Control circuit: cable 2 x 1…1.5 mm²flexible with cable end - M3<br>Control circuit: cable 2 x 1…1.5 mm²flexible without cable end - M3<br>Control circuit: cable 1 x 1…2.5 mm²flexible with cable end - M3<br>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 |

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|---|---|
| Depth | 68 Mm |
| Net weight | 0.325 Kg |

## Environment

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|---|---|
| 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<br>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<br>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<br>1 KV 50...60 Hz in between contact conforming to IEC 60255-5<br>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<br>Resistance to electrostatic discharge: 8 kV air, 6 kV contact conforming to IEC 61000-4-2<br>Resistance to fast transient: 2 kV conforming to IEC 61000-4-4<br>Conducted RF disturbances: 10 V conforming to EN 61000-4-6<br>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

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|---|---|
| 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

| | |
|---|---|
| Mercury free | Yes |
| EU RoHS Directive | Compliant By Exemption |
| PVC free | Yes |