# 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<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 |
| **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<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 Per Relay** | 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 |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **Height** | 71 mm |
| **Width** | 70 mm |
| **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

| | |
|---|---|
| **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 |

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Transparency



RoHS/REACh

## Well-being performance

| | |
|---|---|
| Mercury Free | |
| Rohs Exemption Information | Yes |
| Pvc Free | |

## Certifications & Standards

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|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant with Exemptions |
| **China Rohs Regulation** | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information |
| **Environmental Disclosure** | Product Environmental Profile |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| **Circularity Profile** | End of Life Information |