

# Product datasheet

Specifications



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

EOCRSS-05S

### Main

|                              |                                                                                                                                                          |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                   |
| Network type                 | AC                                                                                                                                                       |
| Network frequency            | 50...60 Hz                                                                                                                                               |
| protection ajustment range   | 0.5...6 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                                                                                                                                                                                                                                            |
| Height                                 | 71 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

|                |          |
|----------------|----------|
| Width          | 70 mm    |
| Depth          | 68 mm    |
| Product 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<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 |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 94 kg CO2 eq.                                 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 2 kg CO2 eq.                                  |
| Carbon footprint of the distribution phase [A4]        | 0.2 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 92 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.6 kg CO2 eq.                                |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| Packaging made with recycled cardboard | Yes                                    |
| Packaging without single use plastic   | No                                     |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a> |
| PVC free                               | Yes                                    |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                                 |                                         |
|---------------------------------|-----------------------------------------|
| Recyclability potential, in %   | 92                                      |
| End of life manual availability | <a href="#">End of Life Information</a> |
| Take-back                       | No                                      |