

# electronic overcurrent relay - 3-30A

## - 220 V AC EOCRSS-30S

URL:<https://www.sxplc.com/electronic-overcurrent-relay-3-30a-220-v-ac-eocrss-30s>

### Product data sheet

|                              |  |
|------------------------------|--|
| Range of product             | EOCR   |
| Device short name            | EOCR-3D420   |
| product or component type    | Protection relay   |
| Protection type              | Overload, $I_n > OC$ setting<br>Sensitivity to phase loss<br>Sensitivity to phase reverse<br>Locked rotor, $I_n > 3$ 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 adjustment 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 IEC 60947-4-1<br>690 V AC 50...60 Hz for power circuit conforming to IEC 60947-4-1<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 mm <sup>2</sup> flexible with cable gland<br>Control circuit: cable 2 x 1...1.5 mm <sup>2</sup> flexible without cable gland<br>M3<br>Control circuit: cable 1 x 1...2.5 mm <sup>2</sup> flexible with cable gland<br>Control circuit: cable 1 x 1...2.5 mm <sup>2</sup> flexible without cable gland<br>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<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 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 |
| [I <sub>th</sub> ] conventional free air thermal current | 5 A for control circuit   |
| Permissible current                                      | 250 V, 5 A AC   |

