

# Product datasheet

Specifications



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

EOCRSE2-05NS

### Main

Range Of Product	EOCR
Device Short Name	EOCR-3D420
Product Or Component Type	Protection relay
Protection Type	Overload, $I_n > OC$ setting Sensitivity to phase loss Sensitivity to phase reverse Locked rotor, $I_n > 3$ 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 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 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 mm <sup>2</sup> flexible with cable end - M3 Control circuit: cable 2 x 1...1.5 mm <sup>2</sup> flexible without cable end - M3 Control circuit: cable 1 x 1...2.5 mm <sup>2</sup> flexible with cable end - M3 Control circuit: cable 1 x 1...2.5 mm <sup>2</sup> flexible 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.

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
[I <sub>th</sub> ] 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	9.5 cm
Package 1 Width	6.3 cm
Package 1 Length	5.7 cm
Package 1 Weight	221.6 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	56
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	10.38 kg
Unit Type Of Package 3	P12
Number Of Units In Package 3	896
Package 3 Height	75 cm

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<b>Package 3 Width</b>	80 cm
<b>Package 3 Length</b>	120 cm
<b>Package 3 Weight</b>	176 kg

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## 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<sub>2</sub> products.

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

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

## Well-being performance

 Mercury Free

 Rohs Exemption Information [Yes](#)

**Reach Regulation** [REACH Declaration](#)

**Eu Rohs Directive** Compliant with Exemptions

**China Rohs Regulation** [China RoHS declaration](#)  
Product out of China RoHS scope. Substance declaration for your information

**Weee** The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins