

Product datasheet

Specifications



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

EOCRSE2-30NS

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 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 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 ² flexible with cable end - M3 Control circuit: cable 2 x 1...1.5 mm ² flexible without cable end - M3 Control circuit: cable 1 x 1...2.5 mm ² flexible with cable end - M3 Control circuit: cable 1 x 1...2.5 mm ² 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.

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
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 60695-2-12 960 °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
[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	9.5 cm
Package 1 Width	6.3 cm
Package 1 Length	5.7 cm
Package 1 Weight	221.3 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	10.46 kg
Unit Type of Package 3	P12
Number of Units in Package 3	896
Package 3 Height	75 cm

Package 3 Width	80 cm
Package 3 Length	120 cm
Package 3 Weight	177 kg

Contractual warranty

Warranty (in months)	18
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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	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant By Exemption

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	92
End of life manual availability	End of Life Information
Take-back	No