



**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 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 IEC 60947-4-1 690 V AC 50...60 Hz for power circuit conforming to IEC 60947-4-1 690 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 Control circuit: cable 2 x 1...1.5 mm <sup>2</sup> flexible without cable M3 Control circuit: cable 1 x 1...2.5 mm <sup>2</sup> flexible with cable Control circuit: cable 1 x 1...2.5 mm <sup>2</sup> flexible without cable 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
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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 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

