



Main

Range of product	EOCR
Device short name	EOCR-i3DM
Product or component type	Protection relay
Protection type	Overload, $I_n > OC$ setting Underload, $I_n < UC$ setting Locked rotor for starting, $I_n > 2...8$ times OC setting Locked rotor for running, $I_n > 1.5...5$ times OC setting Sensitivity to phase loss Phase unbalance, 10...50 % Sensitivity to phase reverse
Product specific application	Motor protection
Network type	AC
Network frequency	50...60 Hz
Communication port protocol	Modbus RTU
Protection adjustment range	0.5...60 A
Tripping threshold	0.5...32 A (inverse and thermal) 0.5...60 A (definite)

Complementary

[Us] rated supply voltage	100...240 V AC/DC
Mounting support	Panel 35 mm DIN rail
Contacts type and composition	1 NC + 1 NO (OL) 1 NO (AL/UL/TO)
Short-circuit and overload protection	By 4 A gG fuse
[Ue] rated operational voltage	Power circuit : 600 V AC 8...200 Hz UL Power circuit : 690 V AC 8...200 Hz CSA Power circuit : 690 V AC 8...200 Hz IEC 60947-4-1
[Uimp] rated impulse withstand voltage	6 kV IEC 60947-4-1
Reset	Electrical 0...1 s by interruption of power supply Manual reset

Automatic reset 0.5...1200 s

Time delay type	D-Time : 0...200 s O-Time : 0.2...30 s (definite) O-Time : 1...30 class (inverse and thermal) U-Time : 0.5...30 s
Display type	7 segments LED Bar graph
Power consumption per relay	< 3 W
Connections - terminals	Control circuit : 2 cable 1...1.5 mm ² - flexible - with cable end - M3 Control circuit : 2 cable 1...1.5 mm ² - flexible - without cable end - M3 Control circuit : 1 cable 1...2.5 mm ² - flexible - with cable end - M3 Control circuit : 1 cable 1...2.5 mm ² - flexible - without cable end - M3
Tightening torque	0.8...1.2 N.m for control circuit - cable - 4.7 mm head
Height	74.5 mm
Width	70 mm
Depth	83.8 mm
Product weight	0.383 kg

Environment

Standards	IEC 60947-4-1
Product certifications	UL
IP degree of protection	IP20 IEC 60529
Ambient air temperature for operation	-20...60 °C IEC 60947-4-1
Ambient air temperature for storage	-40...85 °C
Operating altitude	2000 m
Fire resistance	650 °C IEC 60695-2-12 960 °C UL 94
Shock resistance	15 gn for 11 ms IEC 60068-2-7
Vibration resistance	4 gn on panel mounting IEC 60068-2-6 2 gn on 35 mm DIN rail IEC 60068-2-6
Dielectric strength	2 kV at 50...60 Hz in between case and circuit IEC 60255-5 1 kV at 50...60 Hz in between contact IEC 60255-5 2 kV at 50...60 Hz in between circuit IEC 60255-5
Surge withstand	6 kV IEC 61000-4-5
Electromagnetic compatibility	Resistance to electrostatic discharge 8 kV air, 6 kV contact IEC 61000-4-2 Resistance to radiated electromagnetic fields 10 V/m level 3 IEC 61000-4-3 Resistance to fast transient 2 kV IEC 61000-4-4 Conducted RF disturbances 10 V EN 61000-4-6 Conducted RF disturbances class A EN 55011
[I _{th}] conventional free air thermal current	3 A, control circuit
Permissible current	250 V, 3 A

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0951 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

Contractual warranty

Warranty period	18 months
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