



Main

Commercial Status	Commercialised
Range of product	EOCR
Device short name	EOCR-FDM2
Product or component type	Protection relay
Protection type	Sensitivity to phase reverse Phase unbalance, 10...50 % Sensitivity to phase loss Locked rotor for running, $I_n > 1.5...5$ times OC setting Locked rotor for starting, $I_n > 2...8$ times OC setting Underload, $I_n < UC$ setting Overload, $I_n > OC$ setting
Product specific application	Motor protection
Network type	AC
Network frequency	50...60 Hz
Protection adjustment range	0.5...60 A
Tripping threshold	0.5...60 A (definite) 0.5...32 A (inverse and thermal)

Complementary

[Us] rated supply voltage	100...240 V AC/DC
Mounting support	Flush - display unit Panel - base unit 35 mm DIN rail - base unit
Contacts type and composition	1 NO (AL/UL/TO) 1 NC + 1 NO (OL)
Short-circuit and overId prot	By 4 A gG fuse
[Ue] rated operational voltage	Power circuit: 690 V AC 8...200 Hz IEC 60947-4-1 Power circuit: 690 V AC 8...200 Hz CSA Power circuit: 600 V AC 8...200 Hz UL
[Uimp] rated impulse withstand voltage	6 kV IEC 60947-4-1
Reset	Automatic reset 0.5...1200 s Electrical < 1 s by interruption of power supply Manual reset
Time delay type	O-Time: 1...30 class (inverse and thermal) U-Time: 0.5...30 s O-Time: 0.2...30 s (definite) D-Time: 0...200 s
Display type	7 segments LED Bar graph
Power consumption per relay	< 3 W
Connections - terminals	Control circuit: 1 cable 1...2.5 mm ² - flexible - without cable end - M3 Control circuit: 1 cable 1...2.5 mm ² - flexible - with cable end - M3 Control circuit: 2 cable 1...1.5 mm ² - flexible - without cable end - M3 Control circuit: 2 cable 1...1.5 mm ² - flexible - with cable end - M3 Power circuit: 1 lug-clamp 2.5...25 mm ² - flexible - without cable end - M6
Tightening torque	2.5 N.m for power circuit - lug-clamp - 11 mm head 0.8...1.2 N.m for control circuit - cable - 4.7 mm head
Height	98.3 mm
Width	70 mm
Depth	108.1 mm
Product weight	0.555 kg

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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

Contractual warranty

Period	18 months
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