



## 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<br>Phase unbalance, 10...50 %<br>Sensitivity to phase loss<br>Locked rotor for running, $I_n > 1.5...5$ times OC setting<br>Locked rotor for starting, $I_n > 2...8$ times OC setting<br>Underload, $I_n < UC$ setting<br>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)<br>0.5...32 A (inverse and thermal)   |

## Complementary

|  |  |
|--|--|
| [Us] rated supply voltage              | 100...240 V AC/DC  |
| Mounting support                       | Flush - display unit<br>Panel - base unit<br>35 mm DIN rail - base unit  |
| Contacts type and composition          | 1 NO (AL/UL/TO)<br>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<br>Power circuit: 690 V AC 8...200 Hz CSA<br>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<br>Electrical < 1 s by interruption of power supply<br>Manual reset   |
| Time delay type                        | O-Time: 1...30 class (inverse and thermal)<br>U-Time: 0.5...30 s<br>O-Time: 0.2...30 s (definite)<br>D-Time: 0...200 s   |
| Display type                           | 7 segments LED<br>Bar graph  |
| Power consumption per relay            | < 3 W  |
| Connections - terminals                | Control circuit: 1 cable 1...2.5 mm <sup>2</sup> - flexible - without cable end - M3<br>Control circuit: 1 cable 1...2.5 mm <sup>2</sup> - flexible - with cable end - M3<br>Control circuit: 2 cable 1...1.5 mm <sup>2</sup> - flexible - without cable end - M3<br>Control circuit: 2 cable 1...1.5 mm <sup>2</sup> - flexible - with cable end - M3 |
| Tightening torque                      | 0.8...1.2 N.m for control circuit - cable - 4.7 mm head  |
| Height                                 | 56.3 mm  |
| Width                                  | 70 mm  |
| Depth                                  | 108.1 mm   |
| Product weight                         | 0.437 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<br>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<br>4 gn on panel mounting IEC 60068-2-6   |
| Dielectric strength                                      | 2 kV at 50...60 Hz in between circuit IEC 60255-5<br>1 kV at 50...60 Hz in between contact IEC 60255-5<br>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<br>Conducted RF disturbances 10 V EN 61000-4-6<br>Resistance to fast transient 2 kV IEC 61000-4-4<br>Resistance to radiated electromagnetic fields 10 V/m level 3 IEC 61000-4-3<br>Resistance to electrostatic discharge 8 kV air, 6 kV contact IEC 61000-4-2 |
| [I <sub>th</sub> ] conventional free air thermal current | 3 A, control circuit   |
| Permissible current                                      | 250 V, 3 A   |

## Contractual warranty

|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|