

# Product datasheet

Specifications



Protection relay, EOCR Digital, 0.5 to 60A, 100 to 240VAC/DC, window connt, for motor protection

3DM2-WRDUWZ

## Main

|                              |   |
|------------------------------|---|
| Range of product             | EOCR  |
| Device short name            | EOCR-3DM2   |
| Product or component type    | Protection relay  |
| Protection type              | Overload, In > OC setting<br>Underload, In < UC setting<br>Locked rotor for starting, In > 2...8 times OC setting<br>Locked rotor for running, In > 1.5...5 times OC setting<br>Sensitivity to phase loss<br>Phase unbalance, 10...50 %<br>Sensitivity to phase reverse |
| Product specific application | Motor protection  |
| Network type                 | AC  |
| Network frequency            | 50...60 Hz  |
| protection ajustment range   | 0.5...60 A  |
| Tripping threshold           | 0.5...32 A (inverse and thermal)<br>0.5...60 A (definite)   |

## Complementary

|  |  |
|--|--|
| [Us] rated supply voltage              | 100...240 V AC/DC  |
| Mounting support                       | 35 mm DIN rail<br>Panel  |
| Contacts type and composition          | 1 NC + 1 NO (OL)<br>1 NO (AL/UL/TO)  |
| 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<br>690 V AC 50...60 Hz for power circuit conforming to CSA<br>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<br>Automatic reset 0.5...1200 s<br>Electrical 0...1 s by interruption of power supply   |
| Time delay type                        | D-Time: 0...200 s<br>O-Time: 0.2...30 s (definite)<br>O-Time: 1...30 class (inverse and thermal)<br>U-Time: 0.5...30 s   |
| Display type                           | Bar graph<br>7 segments LED  |
| power consumption per relay            | 3 W  |

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

|                         |  |
|-------------------------|--|
| Connections - terminals | Control circuit: cable 2 x 1...1.5 mm²flexible with cable end - M3<br>Control circuit: cable 2 x 1...1.5 mm²flexible without cable end - M3<br>Control circuit: cable 1 x 1...2.5 mm²flexible with cable end - M3<br>Control circuit: cable 1 x 1...2.5 mm²flexible without cable end - M3 |
| Tightening torque       | Control circuit: 0.8...1.2 N.m on cable, 4.7 mm  |
| Height                  | 74.5 mm  |
| Width                   | 70 mm  |
| Depth                   | 83.8 mm  |
| Net weight              | 0.315 kg   |

## Environment

|   |   |
|---|---|
| Standards                                   | IEC 60947-4-1   |
| Product certifications                      | UL  |
| 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         | -40...85 °C   |
| Operating altitude                          | 2000 m  |
| Fire resistance                             | 650 °C conforming to IEC 60695-2-12<br>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<br>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<br>1 kV 50...60 Hz in between contact conforming to IEC 60255-5<br>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<br>Resistance to electrostatic discharge: 8 kV air, 6 kV contact conforming to IEC 61000-4-2<br>Resistance to fast transient: 2 kV conforming to IEC 61000-4-4<br>Conducted RF disturbances: 10 V conforming to EN 61000-4-6<br>Conducted RF disturbances: class A conforming to EN 55011 |
| [Ith] conventional free air thermal current | 3 A for control circuit   |
| Permissible current                         | 250 V, 3 A AC   |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 10.2 cm |
| Package 1 Width              | 9.3 cm  |
| Package 1 Length             | 8.3 cm  |
| Package 1 Weight             | 325.0 g |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

# Sustainability




**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)

## Well-being performance

|   |   |   |
|---|---|---|
|  | Toxic Heavy Metal Free  |   |
|  | Mercury Free  |   |
|  | Rohs Exemption Information  | Yes   |
| Eu Rohs Directive   | Compliant   | <a href="#">EU RoHS Declaration</a>   |
| China Rohs Regulation   | <a href="#">China RoHS declaration</a>  | Product out of China RoHS scope. Substance declaration for your information |
| Weee  | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |   |