

Product datasheet

Specifications



Protection relay, EO CR Digital, 0.5 to 60A, 24VAC/DC, bottom connt, for motor protection

3DM2-WRDBHZ

Main

Range of product	EOCR
Device short name	EOCR-3DM2
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
protection ajustment range	0.5...80 A
Tripping threshold	0.5...80 A (definite) 0.5...32 A (inverse and thermal)

Complementary

[Us] rated supply voltage	24 V AC/DC
Mounting support	35 mm DIN rail Panel
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	600 V AC 50...60 Hz for power circuit conforming to UL 690 V AC 50...60 Hz for power circuit conforming to CSA 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 Automatic reset 0.5...1200 s Electrical 0...1 s by interruption of power supply
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

Excluding VAT, FCA Jabal Ali & amp; are subject to change – check with your local distributor.

Connections - terminals	Control circuit: cable 2 x 1...1.5 mm ² flexible with cable end - M3 Control circuit: cable 2 x 1...1.5 mm ² flexible without cable end - M3 Control circuit: cable 1 x 1...2.5 mm ² flexible with cable end - M3 Control circuit: cable 1 x 1...2.5 mm ² flexible without cable end - M3
Tightening torque	Control circuit: 0.8...1.2 N.m on cable, 4.7 mm
Height	56.3 mm
Width	70 mm
Depth	108.1 mm
Product weight	0.355 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 60695-2-12 960 °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 3 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
[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	11.5 cm
Package 1 Width	9.4 cm
Package 1 Length	10.5 cm
Package 1 Weight	365.0 g

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better



Materials and Substances

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **No**

EU RoHS Directive [Compliant](#)

Use Longer



Lifetime extension

Repair **No**

Use Again



Repack and remanufacture

Take-back **No**