Product datasheet

Specifications

Green Premium™

motor protection relay - 0.5..60 A - 100..240 V AC/DC

FMZ2-WRDUW

Discontinued on: May 12, 2023

Discontinued

Main

Range Of Product	EOCR
Device Short Name	EOCR-FMZ2
Product Or Component Type	Protection relay
Protection Type	Overload, In > OC setting Underload, In < UC setting Locked rotor for starting, In > 2...8 times OC setting Locked rotor for running, In > 1.5...5 times OC setting Sensitivity to phase loss Phase unbalance, 10...50 % Earth fault, Ig > Ig setting 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) 0.5...60 A (definite) 0.03...10 A (definite) - earth fault current

Complementary

[Us] Rated Supply Voltage	100...240 V AC/DC
Mounting Support	Base unit: 35 mm DIN rail Base unit: panel Display unit: flush
Contacts Type And Composition	1 NO (GR) 1 NC (OL)
Short-Circuit And Overload Protection	By 4 A gG fuse
[Ue] Rated Operational Voltage	600 V AC 8...200 Hz for power circuit conforming to UL 690 V AC 8...200 Hz for power circuit conforming to CSA 690 V AC 8...200 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 E-Time: 0.05...10 s Ed-Time: 0...30 s

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

Display Type	Bar graph 7 segments LED
Power Consumption Per Relay	3 W
Connections - Terminals	Control circuit: cable 2 x 1…1.5 mm²flexible with cable end - M3 Control circuit: cable 2 x 1…1.5 mm²flexible without cable end - M3 Control circuit: cable 1 x 1…2.5 mm²flexible with cable end - M3 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	0.397 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

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.5 cm
Package 1 Width	16.65 cm
Package 1 Length	10.5 cm
Package 1 Weight	417 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_2 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 >

Transparency RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins