

# Product datasheet

Specifications



## Protection relay, EOCR Digital, 0.5 to 80A, 24VAC/DC, bottom connt, for motor protection

IFBZ-WRABHZ

### Main

Range of product	EOCR
Device short name	EOCR-IFBZ
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 % Earth fault, $I_g > I_g$ setting Sensitivity to phase reverse
Product specific application	Motor protection
Network type	AC
Network frequency	50...60 Hz
Communication port protocol	Modbus RTU
protection ajustment range	0.5...80 A
Tripping threshold	0.5...80 A (definite) 0.5...32 A (inverse and thermal) 0.03...10 A (definite) - earth fault current

### Complementary

[Us] rated supply voltage	24 V AC/DC
Mounting support	Base unit: 35 mm DIN rail Base unit: panel Display unit: flush
Contacts type and composition	1 NC + 1 NO (OL) 1 NO (GR)
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) U-Time: 1...30 s, off E-Time: 0.1...10 s Ed-Time: 1...30 s, off O-Time: 1...30 class (inverse and thermal)

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

<b>Display type</b>	Bar graph 7 segments LED
<b>power consumption per relay</b>	3 W
<b>Connections - terminals</b>	Control circuit: cable 2 x 1...1.5 mm <sup>2</sup> flexible with cable end - M3 Control circuit: cable 2 x 1...1.5 mm <sup>2</sup> flexible without cable end - M3 Control circuit: cable 1 x 1...2.5 mm <sup>2</sup> flexible with cable end - M3 Control circuit: cable 1 x 1...2.5 mm <sup>2</sup> flexible without cable end - M3
<b>Tightening torque</b>	Control circuit: 0.8...1.2 N.m on cable, 4.7 mm
<b>Height</b>	56.3 mm
<b>Width</b>	70 mm
<b>Depth</b>	108.1 mm
<b>Product weight</b>	0.508 kg

## Environment

<b>Standards</b>	IEC 60947-4-1
<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Ambient air temperature for operation</b>	-20...60 °C conforming to IEC 60947-4-1
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Operating altitude</b>	2000 m
<b>Fire resistance</b>	650 °C conforming to IEC 60695-2-12 960 °C conforming to UL 94
<b>Shock resistance</b>	15 gn for 11 ms conforming to IEC 60068-2-7
<b>Vibration resistance</b>	4 gn on panel mounting conforming to IEC 60068-2-6 2 gn on 35 mm DIN rail conforming to IEC 60068-2-6
<b>Dielectric strength</b>	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
<b>Surge withstand</b>	6 kV conforming to IEC 61000-4-5
<b>Electromagnetic compatibility</b>	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
<b>[I<sub>th</sub>] conventional free air thermal current</b>	3 A for control circuit
<b>Permissible current</b>	250 V, 3 A

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	11.5 cm
<b>Package 1 Width</b>	16.65 cm
<b>Package 1 Length</b>	10.5 cm
<b>Package 1 Weight</b>	528.0 g



## 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**