Product data sheet
Characteristics

EVRPD440NZ5M
electronic voltage relay - 380..480 V AC 50 Hz - 85..250 V AC/DC

Main

Range of product	EOCR
Device short name	EVR-PD
Product or component type	Protection relay
Protection type	Sensitivity to phase loss Sensitivity to phase reverse Overvoltage, Vm > OVR setting Undervoltage, Vm < UVR setting Phase unbalance, 5...30 %
Product specific application	Voltage protection
Network type	AC
Network frequency	50 Hz
Voltage protection	380...480 V 300...440 V
Tripping threshold	380...480 V AC - overvoltage 300...440 V AC - undervoltage

Complementary

[Us] rated supply voltage	85...250 V AC/DC
Mounting support	35 mm DIN rail Panel
Contacts type and composition	1 C/O (OL)
Short-circuit and overld prot	By 4 A gG fuse
[Ue] rated operational voltage	Power circuit: 480 V AC 50 Hz IEC 60947-4-1
[Uimp] rated impulse withstand voltage	6 kV IEC 60947-4-1
Reset	Manual reset Electrical < 1 s by interruption of power supply Automatic reset 1...10 s
Time delay type	OV-Time: 0.2...10 s UV-Time: 0.2...10 s
Display type	7 segments LED
Power consumption per relay	< 3 W
Connections - terminals	Control circuit: 2 lug-clamp 1...2.5 mm² - flexible - without cable end - M3.5 Control circuit: 2 cable 1...2.5 mm² - flexible - without cable end - M3.5 Control circuit: 2 cable 1...2.5 mm² - flexible - with cable end - M3.5
Tightening torque	1.7 N.m for control circuit - lug-clamp, cable - 7 mm head
Height	79.3 mm
Width	50 mm
Depth	106.5 mm
Product weight	0.274 kg

Environment

Standards	IEC 60947-4-1
IP degree of protection	IP20 IEC 60529
Ambient air temperature for operation	-20...60 °C IEC 60947-4-1
Ambient air temperature for storage	-30...80 °C
Operating altitude	2000 m
Fire resistance	650 °C IEC 60695-2-12 960 °C UL 94
Shock resistance	15 gn for 11 ms IEC 60068-2-7

Vibration resistance	4 gn on panel mounting IEC 60068-2-6 2 gn on 35 mm DIN rail IEC 60068-2-6
Dielectric strength	2 kV at 50...60 Hz in between case and circuit IEC 60255-5 1 kV at 50...60 Hz in between contact IEC 60255-5 2 kV at 50...60 Hz in between circuit IEC 60255-5
Surge withstand	6 kV IEC 61000-4-5
Electromagnetic compatibility	Resistance to electrostatic discharge 8 kV air, 6 kV contact IEC 61000-4-2 Resistance to radiated electromagnetic fields 10 V/m level 3 IEC 61000-4-3 Resistance to fast transient 2 kV IEC 61000-4-4 Conducted RF disturbances 10 V EN 61000-4-6 Conducted RF disturbances class A EN 55011
[Ith] conventional free air thermal current	5 A, control circuit
Permissible current	250 V, 5 A