Product data sheet
Characteristics

PMR-440N7Q
phase monitoring relay - 340..480 V - 440 V AC - EP



Main

Range of product	EOCR
Device short name	PMR
Product or component type	Phase monitoring relay
Protection type	Sensitivity to phase loss Sensitivity to phase reverse Phase unbalance, 2...15 %
Network type	AC
Network frequency	50...60 Hz
Tripping threshold	340...480 V AC

Complementary

[Us] rated supply voltage	440 V AC
Mounting support	35 mm DIN rail Panel
Contacts type and composition	1 C/O (PL)
Short-circuit and overload protection	By 4 A gG fuse
[Ue] rated operational voltage	480 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 Electrical 0…1 s by interruption of power supply
Display type	2 LEDs
Power consumption in W	2 W
Connections - terminals	Control circuit: lug-clamp 2 x 1…2.5 mm²flexible without cable end - M3.5 Control circuit: cable 2 x 1…2.5 mm²flexible without cable end - M3.5 Control circuit: cable 2 x 1…2.5 mm²flexible with cable end - M3.5
Tightening torque	Control circuit: 1.7 N.m on lug-clamp, cable, 7 mm
Height	79.3 Mm
Width	50 Mm
Depth	106.5 Mm
Net weight	0.21 Kg

Environment

Standards	IEC 60947-4-1
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	-30…80 °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	5 A for control circuit
Permissible current	250 V, 5 A

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.6 Cm
Package 1 Width	5.9 Cm
Package 1 Length	11.4 Cm
Package 1 Weight	220 G

Offer Sustainability

Mercury free	Yes
EU RoHS Directive	Compliant By Exemption
PVC free	Yes