

Product data sheet

Characteristics

uDOUCR

Digital Current Relay - 0.6..70 A - 220 V AC



Main

Product Feature	Advance Electric Control MCU Microprocessor Over and Under Current protection Auto / Manual / Electrical reset Display trip cause and trip current
Protection type	Over and Under Current protection Locked rotor for starting, $I_n > 2...10$ times OC setting Sensitivity to phase reverse Sensitivity to phase loss Locked rotor for running, $I_n > 1.5...5$ times OC setting Underload, $I_n < UC$ setting Overload, $I_n > OC$ setting
Product specific application	Over & Under Current
Power	AC
Network frequency	50...60 Hz
Protection adjustment range	0.6...70 A
Tripping threshold	0.6...70 A 0.6...70 A (definite)

Complementary

[Us] rated supply voltage	220 V AC
Mounting support	Panel 35 mm DIN rail
Contacts type and composition	Common NCNO
Short-circuit and overld prot	By 4 AgG fuse
[Ue] rated operational voltage	Power circuit: 690 V AC 50...60 Hz IEC 60947-4-1 Power circuit: 690 V AC 50...60 Hz CSA Power circuit: 600 V AC 50...60 Hz UL
[Uimp] rated impulse withstand voltage	6 kV IEC 60947-4-1
Reset	Electrical < 1 s by interruption of power supply Manual reset
Time delay type	O-Time: 0.5...30 (definite) U- Time: 0.5...30 s D-Time: 0.5...30 s, off
Display type	7 segments LED
Power consumption per relay	< 3 W
Connections - terminals	Control circuit: 1 cable 1...2.5 mm ² - flexible - without cable end - M3 Control circuit: 1 cable 1...2.5 mm ² - flexible - with cable end - M3 Control circuit: 2 cable 1...1.5 mm ² - flexible - without cable end - M3 Control circuit: 2 cable 1...1.5 mm ² - flexible - with cable end - M3
Tightening torque	0.8...1.2 N.m for control circuit - cable - 4.7 mm head
Height	85 mm
Width	52 mm
Depth	52 mm
Product weight	0.300 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	960 °C UL 94 650 °C IEC 60695-2-12
Shock resistance	15 gn for 11 ms IEC 60068-2-7
Vibration resistance	2 gn on 35 mm DIN rail IEC 60068-2-6 4 gn on panel mounting IEC 60068-2-6
Dielectric strength	2 kV at 50...60 Hz in between circuit IEC 60255-5 1 kV at 50...60 Hz in between contact IEC 60255-5 2 kV at 50...60 Hz in between case and circuit IEC 60255-5
Surge withstand	6 kV IEC 61000-4-5
Electromagnetic compatibility	Conducted RF disturbances class A EN 55011 Conducted RF disturbances 10 V EN 61000-4-6 Resistance to fast transient 2 kV IEC 61000-4-4 Resistance to radiated electromagnetic fields 10 V/m level 3 IEC 61000-4-3 Resistance to electrostatic discharge 8 kV air, 6 kV contact IEC 61000-4-2
[Ith] conventional free air thermal current	5 A, control circuit
Permissible current	250 V, 5 A AC

Contractual warranty

Period	12 months
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