

DOVR280RBR

electronic DC overvoltage relay - Automatic -
120..280 V - 24 V AC/DC



Main

Commercial Status	Commercialised
Range of product	EOCR
Device short name	DOVR
Product or component type	Protection relay
Protection type	Overvoltage, $V_m > OVR$ setting
Product specific application	Overvoltage protection
Network type	DC
Network frequency	50...60 Hz
Voltage protection	120...280 V
Tripping threshold	120...280 V DC

Complementary

[Us] rated supply voltage	24 V AC/DC
Mounting support	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: 280 V DC 50...60 Hz IEC 60947-4-1
[Uimp] rated impulse withstand voltage	6 kV IEC 60947-4-1
Reset	Automatic reset 0.3 s Electrical < 1 s by interruption of power supply Manual reset
Time delay type	O-Time: 0.2...30 s
Display type	1 LED
Power consumption per relay	< 2 W
Connections - terminals	Control circuit: 2 cable 1...2.5 mm ² - flexible - with cable end - M3.5 Control circuit: 2 cable 1...2.5 mm ² - flexible - without cable end - M3.5 Control circuit: 2 lug-clamp 1...2.5 mm ² - flexible - without cable end - M3.5
Tightening torque	1.7 N.m for control circuit - lug-clamp, cable - 7 mm head
Height	44 mm
Width	72 mm
Depth	65 mm
Product weight	0.171 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	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
[I _{th}] conventional free air thermal current	5 A, control circuit
Permissible current	125 V, 5 A AC

Contractual warranty

Period	18 months
--------	-----------