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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Relay Module - PLC-RPT-110UC/21-21/RW - 2900348

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PLC-INTERFACE for railway applications, consisting of basic terminal block with push-in connection and plug-in miniature relay with power contact, range: $0.7 \times U_N$ to $1.25 \times U_N$, temperature class TX: -40°C to $+70^{\circ}\text{C}$, 2 PDTs, input voltage 110 V DC

The figure shows a version with a screw connection

Product Features

- ✓ Optimum relay operation thanks to wide-range electronics
- ✓ Safe isolation according to DIN EN 50178 between coil and contact
- ✓ Vibration and shock resistance according to EN 50155
- ✓ Certified according to EN 50155
- ✓ Input voltage range of 0.7 to $1.25 \times U_N$ ($1.4 \times U_N$ briefly)
- ✓ Temperature range from -40°C to $+70^{\circ}\text{C}$ ($+85^{\circ}\text{C}$ briefly)
- ✓ Spring-cage and Push-in connection technology



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	99.99 GRM
Custom tariff number	85364900
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	14 mm
Height	80 mm

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Technical data

Dimensions

Depth	94 mm
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Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C (Temperature class TX)
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Coil side

Nominal input voltage U_N	110 V DC
Input voltage range in reference to U_N	0.7 ... 1.25
Typical input current at U_N	4.5 mA
Typical response time	5 ms
Typical release time	11 ms
Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier Bridge rectifier
	Free-wheeling diode Damping diode
	Surge protection
	RCZ filter
	Wide-range electronics

Contact side

Contact type	2 PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC (Separating plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules.)
Minimum switching voltage	5 V (at 10 mA)
Maximum inrush current	15 A (300 ms)
Min. switching current	10 mA (At 5 V)
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	85 W (at 48 V DC)
	60 W (at 60 V DC)
	44 W (at 110 V DC)
	60 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
	0.2 A (at 250 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)

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Technical data

Contact side

	3 A (at 250 V, AC15)
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General

Test voltage relay winding/relay contact	5 kV _{rms} (50 Hz, 1 min.)
Test voltage PDT/PDT	2.5 kV _{rms} (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	Relay socket
	RT III (Relay)
Mechanical service life	Approx. 3×10^7 cycles
Inflammability class according to UL 94	V0
Standards/regulations	EN 50155 (VDE 0115 part 200)
	EN 50178
	IEC 62103
	EN 61373
	EN 50121
Rated surge voltage / insulation	6 kV / Basic isolation
Rated insulation voltage	250 V AC
Pollution degree	2
Surge voltage category	III
Mounting position	any
Assembly instructions	In rows with zero spacing

Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG/kcmil max	14
Conductor cross section AWG/kcmil min.	26

Classifications

eCl@ss

eCl@ss 4.0	27371001
eCl@ss 4.1	27371001
eCl@ss 5.0	27371001

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Classifications

eCl@ss

eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371001

ETIM

ETIM 4.0	EC000196
ETIM 5.0	EC000196

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

Approvals

Approvals

Approvals

UL Listed / cUL Listed / GL / UL Recognized / cUL Recognized / cULus Recognized / cULus Listed

Ex Approvals

Approvals submitted

Approval details

UL Listed 

cUL Listed 
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Relay Module - PLC-RPT-110UC/21-21/RW - 2900348

Approvals

GL

UL Recognized 

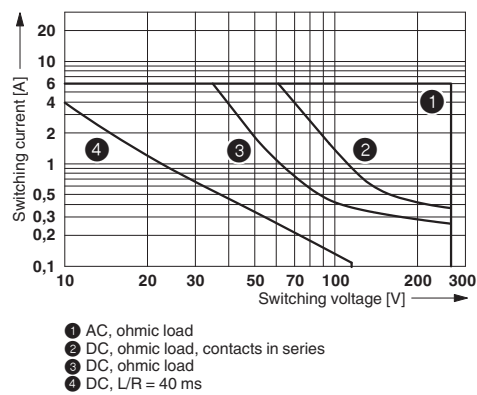
cUL Recognized 

cULus Recognized 

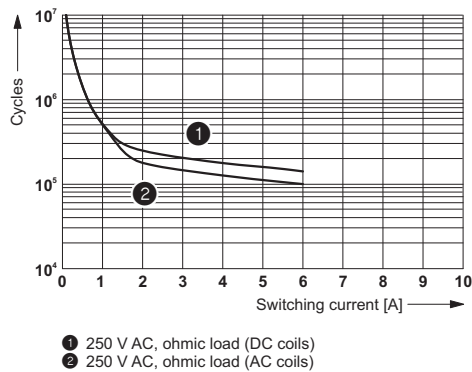
cULus Listed 

Drawings

Diagram



Diagram



Interrupting rating

Electrical service life

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Circuit diagram

