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PLC-INTERFACE for railway applications, consisting of basic terminal block with spring-cage connection and plug-in miniature relay with multi-layer gold contact, range: $0.7 \times U_N$ to $1.25 \times U_N$, temperature class TX: -40°C to +70°C, 1 PDT, input voltage 72 V DC

The illustration shows the version PLC-RSP-24UC/21/RW

Product Features

- Certified according to EN 50155
- ☑ Safe isolation according to DIN EN 50178 between coil and contact
- ☑ Vibration and shock resistance according to EN 50155





Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	34.0 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

Dimensions

Width	6.2 mm
Height	80 mm



Technical data

Dimensions

Depth	94 mm

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	72 V DC
Input voltage range in reference to U _N	0.7 1.25
Typical input current at U _N	3 mA
Typical response time	4 ms
Typical release time	4 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	1 PDT
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Maximum inrush current	50 mA
Min. switching current	1 mA (at 24 V)
Limiting continuous current	50 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	1 A (24 V (DC13))
	0.2 A (110 V (DC13))
	0.1 A (220 V (DC13))
	3 A (24 V (AC15))
	3 A (120 V (AC15))
	3 A (230 V (AC 15))
Note	the following values are applicable if a gold layer is destroyed
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.)



Technical data

Contact side

Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)

General

Tool allow only Calledon or tool	411/ (F011- 4 min)	
Test voltage relay winding/relay contact	4 kV _{rms} (50 Hz, 1 min.)	
Operating mode	100% operating factor	
Degree of protection	RT III (relay)	
	IP20 (basic terminal block)	
Mechanical service life	Approx. 2 x 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	
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	Spring-cage connection
Stripping length	8 mm
Conductor cross section stranded min.	0.14 mm²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG/kcmil max	14



Technical data

Connection data

Conductor cross section AWG/kcmil min.	26

Classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371601

ETIM

ETIM 2.0	EC000196
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC001437

UNSPSC

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

Approvals

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Ex Approvals

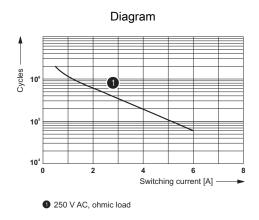
Approvals submitted

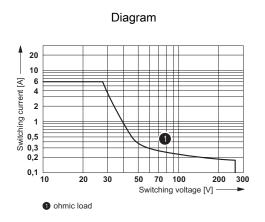


Approvals
Approval details
UL Listed (I)
cUL Listed •
GL
UL Recognized 51
cUL Recognized
cULus Recognized CS US
cULus Listed ^E Wes

Drawings



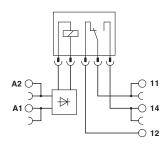




Electrical service life

DC interrupting rating

Circuit diagram



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