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Relay Module - PLC-RPT-110UC/21-21AU/RW - 2900351

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PLC-INTERFACE for railway applications, consisting of basic terminal block with push-in 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 $+70^\circ\text{C}$, 2 PDTs, input voltage 110 V DC

The figure shows a version with a screw connection

Why buy this product

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



Key Commercial Data

Packing unit	10 STK
GTIN	 4 046356 510097

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
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	$-40^\circ\text{C} \dots 70^\circ\text{C}$ (Temperature class TX)
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Relay Module - PLC-RPT-110UC/21-21AU/RW - 2900351

Technical data

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 85 °C
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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
Coil voltage	60 V DC
Protective circuit	Bridge rectifier Bridge rectifier
	Free-wheeling diode Damping diode
	Surge protection
	RCZ filter
	Wide-range electronics
Operating voltage display	Yellow LED
Power dissipation for nominal condition	0.5 W

Contact side

Contact type	2 PDT
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Min. switching current	1 mA (at 24 V)
Maximum inrush current	50 mA
Limiting continuous current	50 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
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.)
Minimum switching voltage	12 V AC/DC
Limiting continuous current	2x 6 A (see derating curve)
Maximum inrush current	15 A (300 ms)
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	100 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)

Relay Module - PLC-RPT-110UC/21-21AU/RW - 2900351

Technical data

Contact side

	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	2 A (at 24 V, AC15)
	2 A (at 120 V, AC15)
	2 A (at 250 V, AC15)

Connection data input side

Connection name	Coil side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14

Connection data output side

Connection name	Contact side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14

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 x 10 ⁷ cycles
Flammability rating 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
Degree of pollution	2
Overvoltage category	III
Mounting position	any
Assembly instructions	In rows with zero spacing

Standards and Regulations

Relay Module - PLC-RPT-110UC/21-21AU/RW - 2900351

Technical data

Standards and Regulations

Connection in acc. with standard	CUL
Standards/regulations	EN 50155 (VDE 0115 part 200)
	EN 50178
	IEC 62103
	EN 61373
	EN 50121
Rated insulation voltage	250 V AC
Rated surge voltage/insulation	6 kV/Basic isolation
Degree of pollution	2
Overvoltage category	III
Flammability rating according to UL 94	V0

Classifications

eCl@ss

eCl@ss 4.0	27371001
eCl@ss 4.1	27371001
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
eCl@ss 9.0	27371601

ETIM

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

Approvals

Approvals

UL Listed / cUL Listed / UL Recognized / cUL Recognized / GL / EAC / RC FRT / cULus Recognized / cULus Listed


Relay Module - PLC-RPT-110UC/21-21AU/RW - 2900351


Approvals


Ex Approvals

Approvals submitted

Approval details

UL Listed 

cUL Listed 


UL Recognized 

cUL Recognized 

GL

EAC

RC FRT

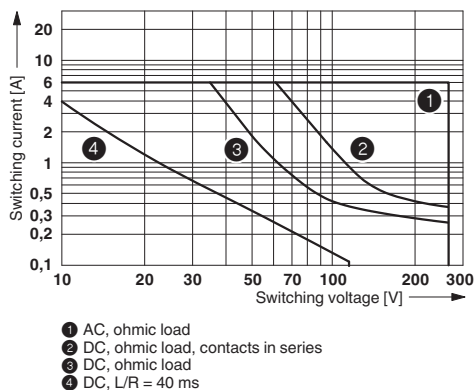
cULus Recognized 

cULus Listed 

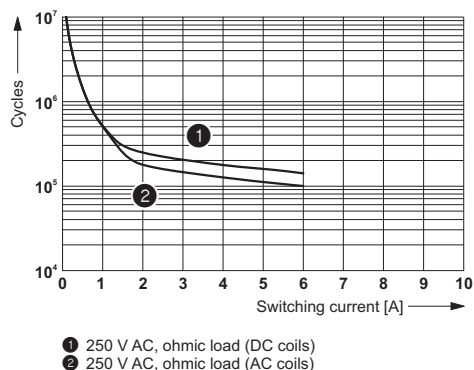
Drawings

Relay Module - PLC-RPT-110UC/21-21AU/RW - 2900351

Diagram



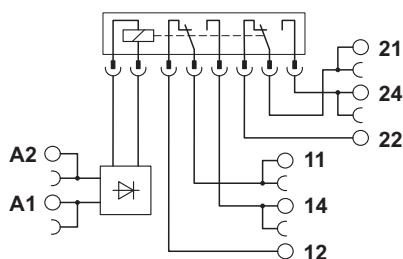
Diagram



Electrical service life

Interrupting rating

Circuit diagram





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Product	Code	Reference	Product link
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