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## Relay Module - PLC-RPT-110UC/21/RW - 2900320

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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:  $-40^\circ\text{C}$  to  $+70^\circ\text{C}$ , 1 PDT, input voltage 110 V DC

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

### 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
- ✓ Spring-cage and Push-in connection technology
- ✓ Temperature range from  $-40^\circ\text{C}$  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	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	6.2 mm
Height	80 mm

# Relay Module - PLC-RPT-110UC/21/RW - 2900320

## 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 $U_N$	2 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
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 100 mA)
Maximum inrush current	on request
Min. switching current	10 mA (at 12 V)
Limiting continuous current	6 A (see derating curve)
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)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	1 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)

## Relay Module - PLC-RPT-110UC/21/RW - 2900320

### Technical data

#### Contact side

	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)

#### General

Test voltage relay winding/relay contact	4 kV <sub>rms</sub> (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	RT III (Relay)
	IP20 (Relay socket)
Mechanical service life	Approx. $2 \times 10^7$ 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	Push-in connection
Stripping length	8 mm
Conductor cross section stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
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

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#### Approvals

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

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#### Ex Approvals

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#### Approvals submitted

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### Approval details

UL Listed
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cUL Listed
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# Relay Module - PLC-RPT-110UC/21/RW - 2900320

## Approvals

UL Recognized

cUL Recognized

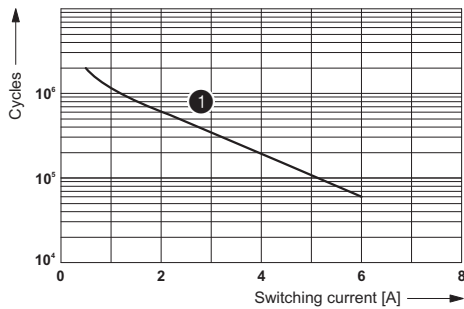
GL

cULus Recognized

cULus Listed

## Drawings

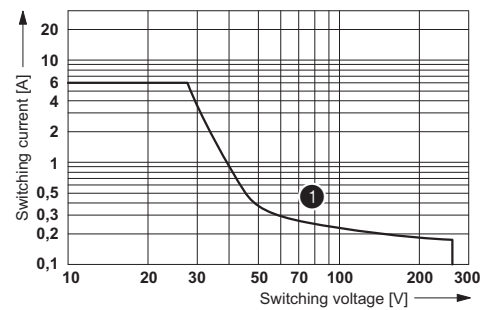
Diagram



1 250 V AC, ohmic load

Electrical service life

Diagram

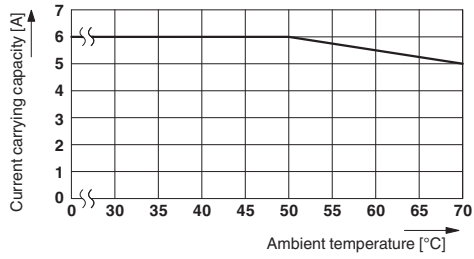


1 ohmic load

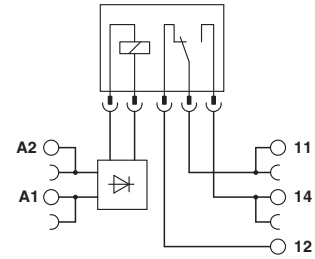
DC interrupting rating

# Relay Module - PLC-RPT-110UC/21/RW - 2900320

Diagram



Circuit diagram



## Derating diagram