



Automatización Eléctrica
Especialistas en Automatización

At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking [HERE](#). [HERE](#)

Relay Module - PLC-RPT-230UC/21-21AU/RWF - 2900345

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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: 0.75 x UN to 1.15 x UN, nominal input frequency 16.7 Hz, 2 PDTs, input voltage 230 V AC

Why buy this product

- Vibration and shock resistance according to EN 50155
- Safe isolation according to DIN EN 50178 between coil and contact
- Screw, spring-cage or Push-in connection
- Nominal input frequency of 16.7 Hz



Key Commercial Data

Packing unit	10 STK
GTIN	 4 046356 507547

Technical data

Note

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

Dimensions

Width	14 mm
Height	80 mm
Depth	94 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Coil side

Nominal input voltage U_N	230 V AC
Input voltage range in reference to U_N	see diagram

Relay Module - PLC-RPT-230UC/21-21AU/RWF - 2900345

Technical data

Coil side

Mains frequency	16.67 Hz
Typical input current at U_N	4.8 mA (with AC)
Typical response time	20 ms
Typical release time	60 ms
Coil voltage	110 V DC
Protective circuit	Bridge rectifier
Operating voltage display	Yellow LED

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
Min. switching current	1 mA
Maximum inrush current	50 mA
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	2 A (24 V (DC13), in acc. with DIN VDE 0660/IEC 60947)
	0.2 A (220 V DC / 230 V AC (DC13), in acc. with DIN VDE 0660/IEC 60947)
	3 A (220 V DC / 230 V AC (AC15), in acc. with DIN EVDE 0660/IEC 60947)
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	5 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	8 A
Min. switching current	10 mA
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 110 V, DC13)
	0.2 A (at 250 V, DC13)
	2 A (at 24 V, AC15)
	2 A (at 120 V, AC15)

Relay Module - PLC-RPT-230UC/21-21AU/RWF - 2900345

Technical data

Contact side

	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	6 kV
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
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
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

Connection in acc. with standard	CUL
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated insulation voltage	250 V AC

Relay Module - PLC-RPT-230UC/21-21AU/RWF - 2900345

Technical data

Standards and Regulations

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 / EAC / RC FRT / cULus Recognized / cULus Listed

Ex Approvals

Approvals submitted


Relay Module - PLC-RPT-230UC/21-21AU/RWF - 2900345


Approvals

Approval details

UL Listed 


cUL Listed 

UL Recognized 

cUL Recognized 

EAC

RC FRT

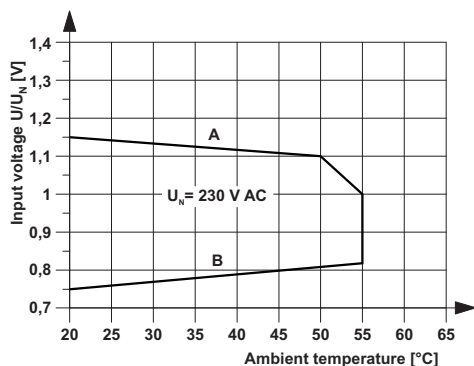
cULus Recognized 

cULus Listed 

Drawings

Relay Module - PLC-RPT-230UC/21-21AU/RWF - 2900345

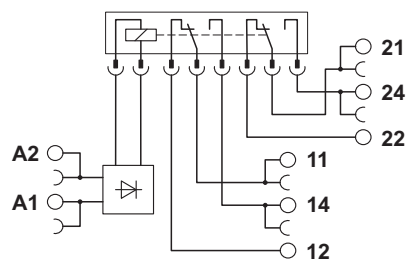
Diagram



Curve A:
Maximum continuous operating voltage
at limiting continuous current = 6 A

Curve B:
Minimum relay operating voltage at initial
trigger with U_N and limiting continuous current = 6 A

Circuit diagram



Phoenix Contact 2016 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>



Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, [click on the green button.](#)

Product	Code	Reference	Product link
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: 0.75 x UN to 1.15 x UN, nominal input frequency 16.7 Hz, 2 PDTs, input voltage 230 V AC	2900345	PLC-RPT-230UC/21-21AU/RWF	Buy on EAN