

# PLC-BSC-230UC/21-21/SO46 - Relay base



2980429

<https://www.phoenixcontact.com/us/products/2980429>

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 documentation. Our general terms of use for downloads are valid.



14 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 2 changeover contacts, input voltage 230 V AC

## Your advantages

- High relay release voltage
- Resistant to interference currents

## Commercial data

Item number	2980429
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C461
Product key	CK623M
Catalog page	Page 389 (C-5-2019)
GTIN	4017918921231
Weight per piece (including packing)	65.15 g
Weight per piece (excluding packing)	56.91 g
Customs tariff number	85366990
Country of origin	DE

## Technical data

### Notes

#### Utilization restriction

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

### Product properties

Product type	Relay socket
Product family	PLC-INTERFACE
Application	Filter to prevent interference
Operating mode	100% operating factor
Compatible components	Miniature relay, REL-MR-110DC/21-21AU, REL-MR-110DC/21-21

#### Data management status

Article revision	12
------------------	----

#### Insulation characteristics

Pollution degree	3
------------------	---

### Electrical properties

Protective circuit	Bridge rectifier; Bridge rectifier
	RCZ filter; RCZ filter

### Input data

Nominal input voltage $U_N$	230 V AC
	The nominal voltage of the plug-on electromechanical relay or solid-state relay (see necessary accessories) deviates from the nominal input voltage of the base with integrated upstream circuit
Input voltage range in reference to $U_N$	0.78 ... 1.14 (at 20 °C)
Typical input current at $U_N$	9 mA
Typical response time	7 ms
Typical release time	10 ms
Switching threshold "0" signal, voltage	typ. 70 V AC
Nominal input voltage $U_N$	230 V AC
	The nominal voltage of the plug-on electromechanical relay or solid-state relay (see necessary accessories) deviates from the nominal input voltage of the base with integrated upstream circuit

#### Relay assembly

Nominal input voltage $U_N$	230 V AC
Input voltage range in reference to $U_N$	0.78 ... 1.14
Typical input current at $U_N$	8.5 mA (50 Hz)
	10 mA (60 Hz)
Typical response time	7 ms

# PLC-BSC-230UC/21-21/SO46 - Relay base



2980429

<https://www.phoenixcontact.com/us/products/2980429>

Typical release time	10 ms
Typical release voltage	70 V AC
Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier; Bridge rectifier
	Filter; Filter

## Optocoupler assembly

Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier; Bridge rectifier
	Filter; Filter

## Output data

Compatible components	Miniature relay, REL-MR-110DC/21-21AU, REL-MR-110DC/21-21
-----------------------	---

## Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule)
	2x 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (TWIN ferrule)
Conductor cross section AWG	26 ... 14
Tightening torque	0.6 Nm ... 0.8 Nm

## Signaling

Status display	LED
----------------	-----

## Dimensions

Width	14 mm
Height	80 mm
Depth	94 mm

## Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)

## Environmental and real-life conditions

### Ambient conditions

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

## Approvals

CE

# PLC-BSC-230UC/21-21/SO46 - Relay base



2980429

<https://www.phoenixcontact.com/us/products/2980429>

Certificate	CE-compliant
-------------	--------------

## UKCA

Certificate	UKCA-compliant
-------------	----------------

## Shipbuilding approval

Certificate	TAE0000196
-------------	------------

## Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

## DNV GL data

Temperature	D
Humidity	A
Vibration	B/C
EMC	B
Enclosure	Required protection according to the Rules shall be provided upon installation on board

## EMC data

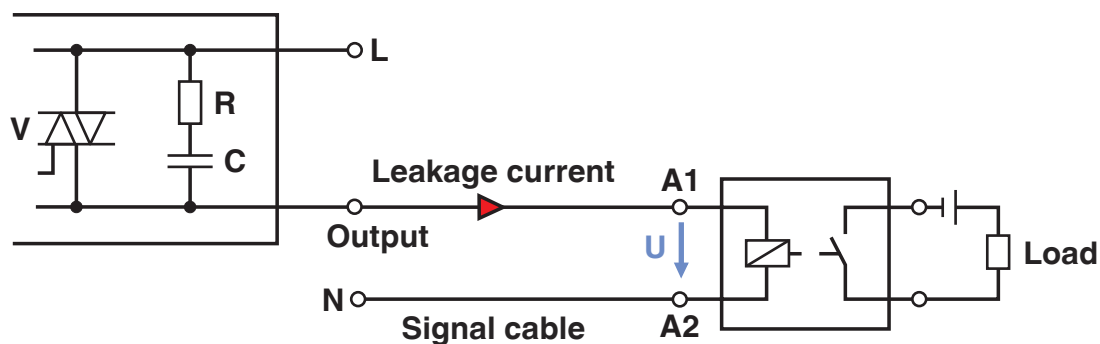
Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive

## Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

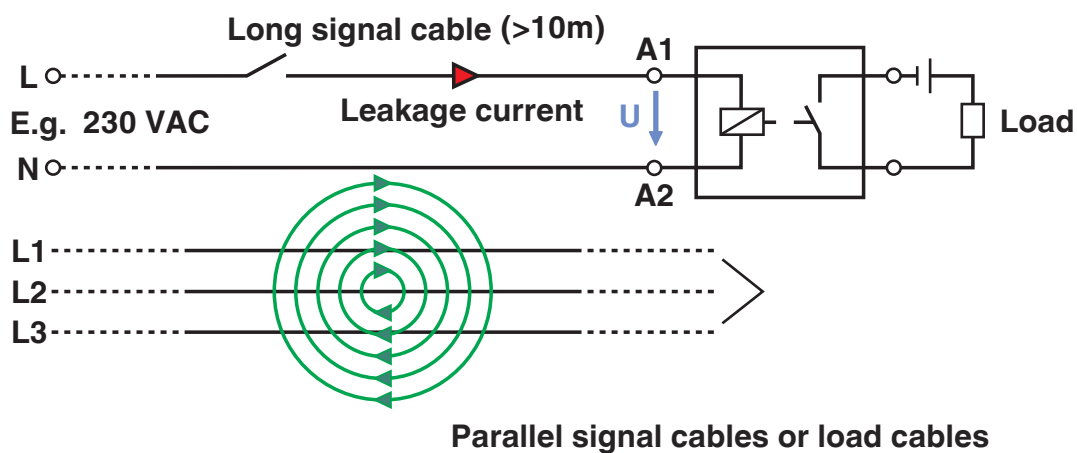
## Drawings

Application drawing



Occurrence of interference signals  
Scenario 1: controller - AC output card

Application drawing



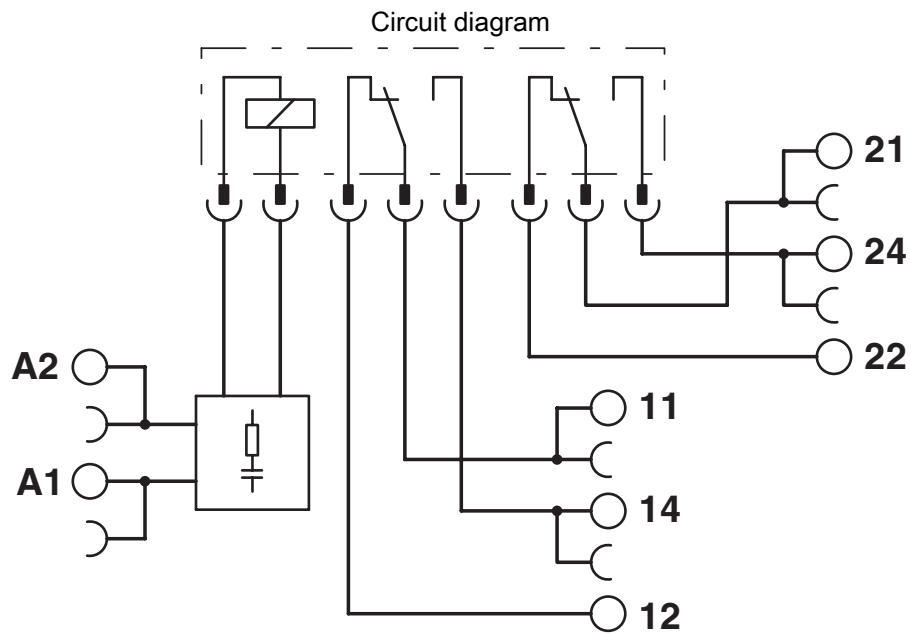
Occurrence of interference signals  
Scenario 2: long signal cables

# PLC-BSC-230UC/21-21/SO46 - Relay base



2980429

<https://www.phoenixcontact.com/us/products/2980429>



# PLC-BSC-230UC/21-21/SO46 - Relay base



2980429

<https://www.phoenixcontact.com/us/products/2980429>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2980429>



**cUL Recognized**  
Approval ID: E238705



**UL Recognized**  
Approval ID: E238705



**EAC**  
Approval ID: RU D-DE.B\*00573/18



**DNV GL**  
Approval ID: TAE0000196

**cULus Recognized**

# PLC-BSC-230UC/21-21/SO46 - Relay base



2980429

<https://www.phoenixcontact.com/us/products/2980429>

## Classifications

### ECLASS

ECLASS-11.0	27371603
ECLASS-12.0	27371603
ECLASS-13.0	27371603

### ETIM

ETIM 9.0	EC001456
----------	----------

### UNSPSC

UNSPSC 21.0	39122300
-------------	----------



Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	05b4bf5c-47c7-4dfa-8efa-694e35c787da