

# PLC-BSC-120UC/21HC/SO46 - Relay base



2980432

<https://www.phoenixcontact.com/us/products/2980432>

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 protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, for high continuous currents, 1 changeover contact, input voltage 120 V AC

## Your advantages

- High relay release voltage
- Resistant to interference currents

## Commercial data

Item number	2980432
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	DK623M
GTIN	4017918921224
Weight per piece (including packing)	66.5 g
Weight per piece (excluding packing)	58.88 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

#### Insulation characteristics

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

### Electrical properties

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

### Input data

Nominal input voltage $U_N$	120 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 $U_N$	0.85 ... 1.4 (at 20 °C)
Typical input current at $U_N$	8.5 mA
Typical response time	7 ms
Typical release time	10 ms
Nominal input voltage $U_N$	120 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 $U_N$	120 V AC
Input voltage range in reference to $U_N$	0.85 ... 1.4
Typical input current at $U_N$	8.5 mA (50 Hz)
	9.5 mA (60 Hz)
Typical response time	8 ms
Typical release time	15 ms
Typical release voltage	45 V AC
Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier; Bridge rectifier
	Filter; Filter

# PLC-BSC-120UC/21HC/SO46 - Relay base



2980432

<https://www.phoenixcontact.com/us/products/2980432>

## Optocoupler assembly

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

## 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

### Item dimensions

Width	14 mm
Height	80 mm
Depth	94 mm

## Material specifications

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

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

### UKCA

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

### Shipbuilding approval

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

# PLC-BSC-120UC/21HC/SO46 - Relay base



2980432

<https://www.phoenixcontact.com/us/products/2980432>

## Corrosive gas test

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

## Shipbuilding 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

## Standards and regulations

Standards/regulations	IEC/EN 60664-1
-----------------------	----------------

## 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

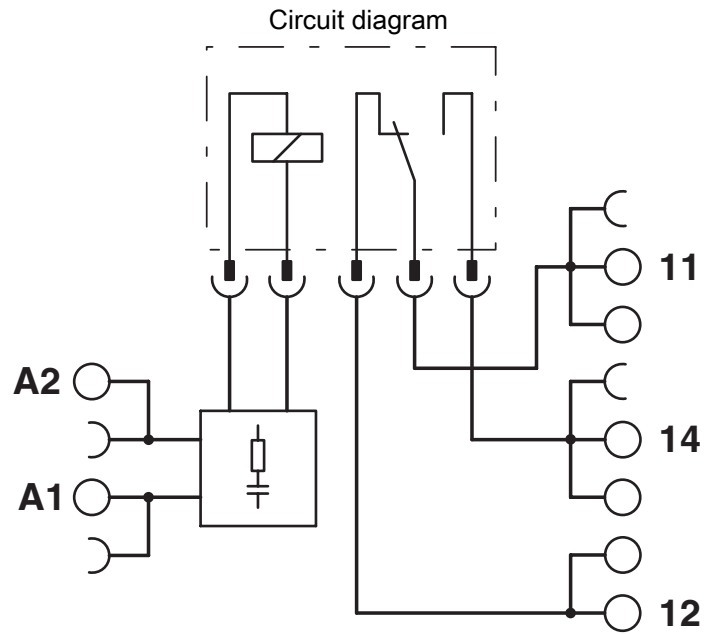


Occurrence of interference signals  
Scenario 2: long signal cables

# PLC-BSC-120UC/21HC/SO46 - Relay base

2980432

<https://www.phoenixcontact.com/us/products/2980432>



# PLC-BSC-120UC/21HC/SO46 - Relay base



2980432

<https://www.phoenixcontact.com/us/products/2980432>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2980432>



**cUL Recognized**  
Approval ID: E238705



**UL Recognized**  
Approval ID: E238705



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

**DNV**

Approval ID: TAE0000196

# PLC-BSC-120UC/21HC/SO46 - Relay base



2980432

<https://www.phoenixcontact.com/us/products/2980432>

## Classifications

### ECLASS

ECLASS-13.0	27371603
ECLASS-15.0	27371603

### ETIM

ETIM 10.0	EC001456
-----------	----------

### UNSPSC

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

2980432

<https://www.phoenixcontact.com/us/products/2980432>

## 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	c1a16e73-4005-4969-8ce3-4400c56baf56

### EF3.1 Climate Change

CO2e kg	0.773 kg CO2e
---------	---------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
 586 Fulling Mill Road  
 Middletown, PA 17057, United States  
 (+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)