

# PLC-HSC-24DC/230AC/10 - Solid-state relay



2905214

<https://www.phoenixcontact.com/us/products/2905214>

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.



PLC-INTERFACE, hybrid solid-state relay incl. bypass relay with screw connection, for mounting on NS 35/7,5 DIN rail, input: 24 V DC, output: 24 V AC - 253 V AC/10 A

## Commercial data

Item number	2905214
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C461
Product key	DK6235
GTIN	4046356927567
Weight per piece (including packing)	80.29 g
Weight per piece (excluding packing)	63.06 g
Customs tariff number	85364190
Country of origin	DE

# PLC-HSC-24DC/230AC/10 - Solid-state relay



2905214

<https://www.phoenixcontact.com/us/products/2905214>

## Technical data

### Product properties

Product type	Solid-state relay module
Product family	PLC-INTERFACE
Application	Output function
Operating mode	100% operating factor

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	safe isolation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	01.04.2026
------------------------------	------------

### Electrical properties

Test voltage	4 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
--------------	--

Air clearances and creepage distances between the power circuits

Rated insulation voltage	260 V AC
Rated surge voltage	6 kV

### Input data

Rated control circuit supply voltage $U_S$	24 V DC
Voltage range with reference to $U_S$	0.8 ... 1.2
Rated control supply current $I_S$	≤ 19 mA
Rated actuating voltage $U_C$	24 V DC
Voltage range with reference to $U_C$	0.8 ... 1.2
Rated actuating current $I_C$	6.8 mA
Nominal voltage (plugged-in solid-state relay)	24 V DC
"0" signal switching threshold in reference to $U_C$	< 0.4
"1" signal switching threshold in reference to $U_C$	> 0.8
Typical response time	30 ms
Typical turn-off time	20 ms
Status display	LED (yellow)
Protective circuit	Reverse polarity protection
	Surge protection
Surge voltage protection	> 33 V DC
Transmission frequency	1 Hz

### Output data

Designation	AC hybrid output
Contact switching type	1 N/O contact
Design of digital output	electronic

# PLC-HSC-24DC/230AC/10 - Solid-state relay



2905214

<https://www.phoenixcontact.com/us/products/2905214>

Output voltage range	24 V AC ... 253 V AC (50/60 Hz)
Limiting continuous current	10 A (see derating curve)
Min. load current	100 mA
Leakage current	7.5 mA
Surge current	250 A (tp = 20 ms, at 25 °C)
Max. load value	350 A <sup>2</sup> s (tp = 10 ms, at 25 °C)
Surge voltage protection	> 275 V
Output circuit	2-conductor, floating
Protective circuit	Varistor

## 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	0.45 Nm ... 0.55 Nm (Usually these terminal blocks must be supported during conductor connection (held by one hand, supported on the housing))

## Dimensions

### Item dimensions

Width	14 mm
Height	80 mm
Depth	94 mm

## Material specifications

Color	gray (RAL 7042)
-------	-----------------

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Relay)	RT II (Relay)
Degree of protection (Installation location)	IP54 (Installation location)
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m

## Approvals

### Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
----------------	----------------------------

# PLC-HSC-24DC/230AC/10 - Solid-state relay



2905214

<https://www.phoenixcontact.com/us/products/2905214>

	EN 60068-2-60
--	---------------

## Standards and regulations

Air clearances and creepage distances between the power circuits

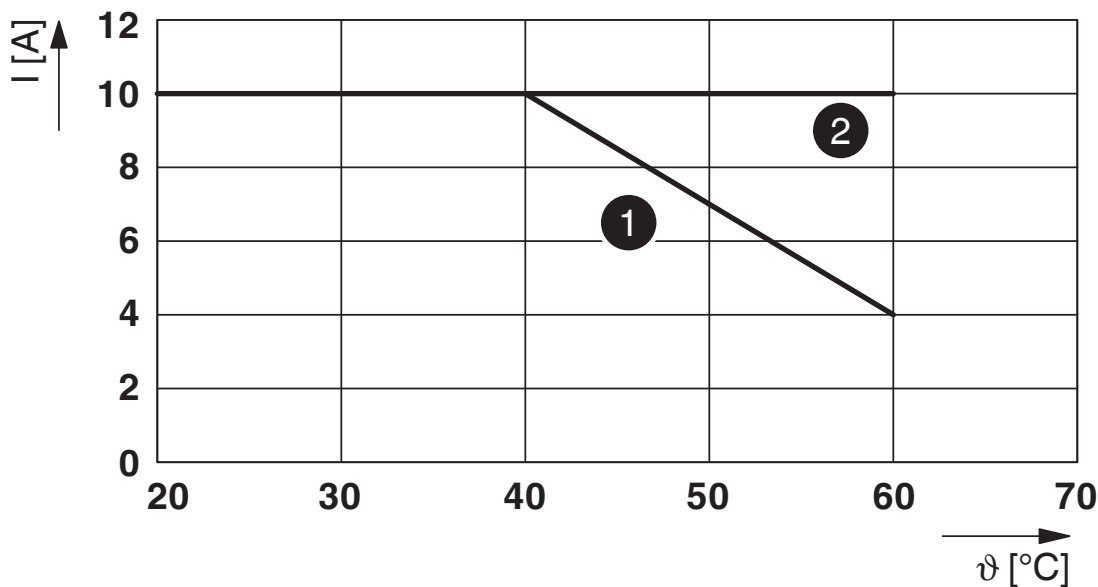
Standards/regulations	IEC 60947-5-1
-----------------------	---------------

## Mounting

Mounting type	DIN rail mounting
Assembly note	See derating curve
Mounting position	any

Drawings

Diagram



Limiting continuous current

- 1) Aligned without spacing
- 2) Aligned with >14 mm spacing

Diagram



Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures  $\leq 0^\circ\text{C}$  must be prevented

Area B: Condensation at ambient temperatures  $> 0^\circ\text{C}$  must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature  $\leq 25^\circ\text{C}$ .

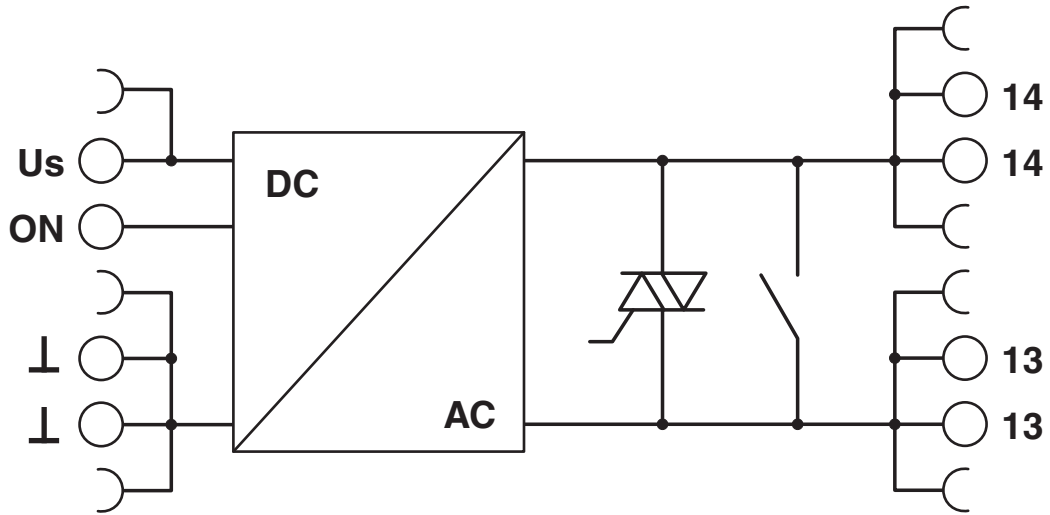
# PLC-HSC-24DC/230AC/10 - Solid-state relay



2905214

<https://www.phoenixcontact.com/us/products/2905214>

Circuit diagram



# PLC-HSC-24DC/230AC/10 - Solid-state relay



2905214

<https://www.phoenixcontact.com/us/products/2905214>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2905214>



**EAC**

Approval ID: RU\*C-DE.\*08.B.00010



**cULus Listed**

Approval ID: E140324



**cULus Listed**

Approval ID: E140324



**cULus Listed**

Approval ID: E140324

# PLC-HSC-24DC/230AC/10 - Solid-state relay



2905214

<https://www.phoenixcontact.com/us/products/2905214>

## Classifications

### ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

### ETIM

ETIM 10.0	EC001504
-----------	----------

### UNSPSC

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

2905214

<https://www.phoenixcontact.com/us/products/2905214>

## 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.)	Lead(CAS: 7439-92-1)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
SCIP	1d6146e8-a529-42b6-96f7-615123b2d979

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)