

# PLC-OPT- 5DC/24DC/100KHZ-G - Solid-state relay module



2902973

<https://www.phoenixcontact.com/in/products/2902973>

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.



Input solid-state relay, with DC voltage output push-pull, transmission frequency: 100 kHz, with light indicator and protective circuit in input and output circuits, input: 5 V DC, output: 14 - 30 V DC/50 mA

## Commercial Data

Item number	2902973
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CK6
Product Key	CK6235
Catalog Page	Page 413 (C-5-2019)
GTIN	4046356702799
Weight per Piece (including packing)	34.6 g
Weight per Piece (excluding packing)	32.86 g
Customs tariff number	85364190
Country of origin	DE

# PLC-OPT- 5DC/24DC/100KHZ-G - Solid-state relay module



2902973

<https://www.phoenixcontact.com/in/products/2902973>

## Technical Data

### Product properties

Product type	Solid-state relay module
Product family	PLC-INTERFACE
Application	100 kHz input optocoupler
Operating mode	100% operating factor

### Insulation characteristics

Insulation	Basic insulation
------------	------------------

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

Insulation	Basic insulation
Overvoltage category	II
Pollution degree	2

### Electrical properties

Maximum power dissipation for nominal condition	0.04 W
Test voltage (Input/output)	2.5 kV <sub>rms</sub> (50 Hz, 1 min., input/output)

### Air clearances and creepage distances between the power circuits

Rated insulation voltage	50 V DC
Rated surge voltage	0.5 kV

### Input data

Nominal input voltage $U_N$	5 V DC
Input voltage range in reference to $U_N$	0.5 ... 1.2
Input voltage range	2.5 V DC ... 6 V DC
Switching threshold "0" signal in reference to $U_N$	< 0.3
Switching threshold "1" signal in reference to $U_N$	> 0.5
Typical input current at $U_N$	8 mA
Typical response time	1 $\mu$ s
Typical turn-off time	2 $\mu$ s
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection Surge protection
Surge voltage protection	> 14 V
Transmission frequency	100 kHz

### Output data

Designation	Output data
Contact type	1 N/O contact
Design of digital output	electronic
Output voltage range	14 V DC ... 30 V DC
Limiting continuous current	50 mA

# PLC-OPT- 5DC/24DC/100KHZ-G - Solid-state relay module



2902973

<https://www.phoenixcontact.com/in/products/2902973>

Quiescent current	15 mA
Surge voltage protection	> 35 V
Voltage drop at max. limiting continuous current	< 2.2 V
Output circuit	3-conductor push-pull, ground referenced
Protective circuit	Reverse polarity protection Surge protection

## Connection data

Connection method	Push-in connection
Stripping length	10 mm
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 mm <sup>2</sup> (TWIN ferrule)
Conductor cross section AWG	26 ... 14

## Dimensions

Width	6.2 mm
Height	80 mm
Depth	86 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 75 °C

## Approvals

### Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group 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 instructions	in rows with zero spacing
Mounting position	any

# PLC-OPT- 5DC/24DC/100KHZ-G - Solid-state relay module



2902973

<https://www.phoenixcontact.com/in/products/2902973>

Phoenix Contact 2023 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)