chanhvinh.com

PLC-OPT-120UC/V8C/SEN - Solid-state relay module

2908174

https://www.phoenixcontact.com/pc/products/2908174

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 for input functions with PLC logic, with Push-in connection and plug-in miniature solid-state relay, for mounting on a DIN rail, 1 N/O contact, input: 120 V AC/110 V DC

Commercial data

Item number	2908174
Packing unit	10 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	DK62A3
GTIN	4055626287355
Weight per piece (including packing)	31.17 g
Weight per piece (excluding packing)	31.17 g
Customs tariff number	85364190
Country of origin	DE

chanhvinh.com

PLC-OPT-120UC/V8C/SEN - Solid-state relay module

2908174

https://www.phoenixcontact.com/pc/products/2908174

Technical data

Product properties

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

Insulation characteristics: Standards/regulations

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	13.11.2024

Electrical properties

Maximum power dissipation for nominal condition	0.42 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)

Input data

Nominal input voltage U_N	120 V AC
	110 V DC
Nominal voltage (plugged-in solid-state relay)	60 V DC
Input voltage range in reference to U_N	0.8 ... 1.1
Input voltage range	96 V AC ... 132 V AC
	88 V DC ... 121 V DC
Switching threshold "0" signal in reference to U_N	≤ 0.3
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	3.5 mA
Typical response time	6 ms (at U_N)
Typical turn-off time	10 ms (at U_N)
Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier
Transmission frequency	10 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	5 V DC ... 30 V DC
Limiting continuous current	3 mA
Surge voltage protection	> 56 V
Voltage drop at max. limiting continuous current	≤ 1 V
Output circuit	2-conductor, floating

chanhvinh.com

PLC-OPT-120UC/V8C/SEN - Solid-state relay module

2908174

https://www.phoenixcontact.com/pc/products/2908174

Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection

Connection data

Input side

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section rigid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
Conductor cross section AWG	26 ... 14

Output side

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section rigid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
Conductor cross section AWG	26 ... 14

Dimensions

Width	6.2 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)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C

Approvals

Corrosive gas test

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

Standards and regulations

Standards/regulations

Standards/regulations	IEC 60947-5-1

Mounting

Mounting type	DIN rail mounting

chanhvinh.com

PLC-OPT-120UC/V8C/SEN - Solid-state relay module

2908174

https://www.phoenixcontact.com/pc/products/2908174

Assembly note	in rows with zero spacing
Mounting position	any

chanhvinh.com

chanhvinh.com

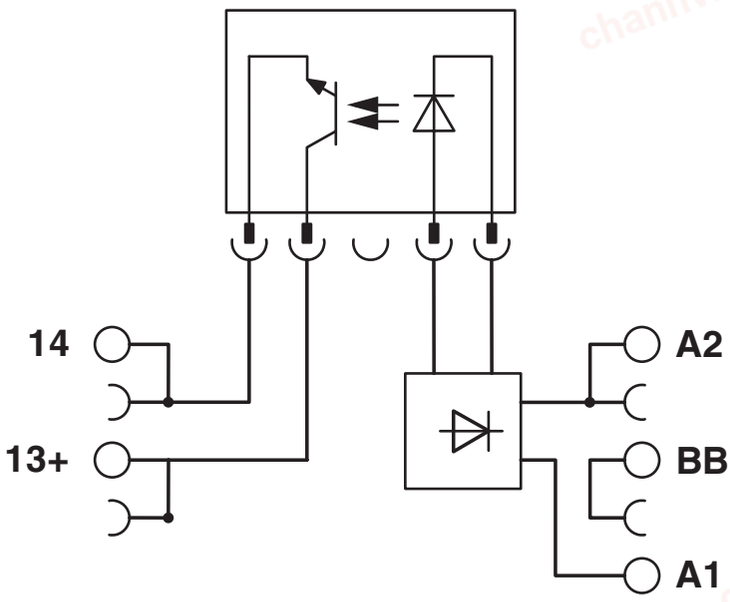
PLC-OPT-120UC/V8C/SEN - Solid-state relay module

2908174

https://www.phoenixcontact.com/pc/products/2908174

Drawings

Circuit diagram



chanhvinh.com

PLC-OPT-120UC/V8C/SEN - Solid-state relay module

2908174

https://www.phoenixcontact.com/pc/products/2908174

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/2908174

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

cULus Listed
Approval ID: E140324

chanhvinh.com

PLC-OPT-120UC/V8C/SEN - Solid-state relay module

2908174

https://www.phoenixcontact.com/pc/products/2908174

Classifications

ECLASS

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-13.0	27371604

ETIM

ETIM 9.0	EC001504

UNSPSC

UNSPSC 21.0	39122300

chanhvinh.com

PLC-OPT-120UC/V8C/SEN - Solid-state relay module

2908174

https://www.phoenixcontact.com/pc/products/2908174

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)
SCIP	6172515d-bfa7-4c4f-ac40-9766cba9794f

Phoenix Contact 2025 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com