

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.



Pre-assembled solid-state relay module with push-in connection, consisting of: relay base with ejector and plug-in miniature solid-state relay. Input voltage: 24 V DC. Output: 3 - 48 V DC/100 mA

Product description

The pluggable electromechanical and solid-state relays in the RIFLINE complete product range and the base are recognized and approved in accordance with UL 508. The relevant approvals can be called up at the individual components in question.

Commercial data

Item number	2905294
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C465
Product key	DK652J
GTIN	4046356945424
Weight per piece (including packing)	23.96 g
Weight per piece (excluding packing)	22.9 g
Customs tariff number	85364110
Country of origin	HU

RIF-0-OPT-24DC/48DC/100 - Solid-state relay module



2905294

<https://www.phoenixcontact.com/us/products/2905294>

Set consists of

RIF-0-BPT/1 - Relay base

2901873

<https://www.phoenixcontact.com/us/products/2901873>



RIF-0... relay base, for miniature power relay with 1 N/O contact or solid-state relays of the same design, push-in connection, for mounting on NS 35/7,5

OPT-24DC/ 48DC/100 - Miniature solid-state relay

2966618

<https://www.phoenixcontact.com/us/products/2966618>

Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 48 V DC/100 mA



2905294

<https://www.phoenixcontact.com/us/products/2905294>

Technical data

Product properties

Product type	Solid-state relay module
Product family	RIFLINE complete
Application	Universal
Operating mode	100% operating factor

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

Insulation	Basic insulation
Oversupply category	III
Pollution degree	2

Data management status

Date of last data management	15.09.2025
------------------------------	------------

Electrical properties

Maximum power dissipation for nominal condition	0.2 W
Test voltage (Input/output)	2.5 kV _{rms} (50 Hz, 1 min., input/output)

Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC
Rated surge voltage	4 kV

Input data

Rated actuating voltage U_C	24 V DC
Voltage range with reference to U_C	0.8 ... 1.2
Rated actuating current I_C	8.5 mA
Input voltage range	19.2 V DC ... 28.8 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	20 μ s
Typical turn-off time	300 μ s
Status display	LED (yellow)
Protective circuit	Freewheeling diode
Transmission frequency	300 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	3 V DC ... 48 V DC
Limiting continuous current	100 mA
Surge voltage protection	> 56 V
Voltage drop at max. limiting continuous current	< 1 V
Output circuit	2-conductor, floating

RIF-0-OPT-24DC/48DC/100 - Solid-state relay module



2905294

<https://www.phoenixcontact.com/us/products/2905294>

Protective circuit	Reverse polarity protection
Utilization category CB Scheme (IEC 60947-5-1)	Surge protection
	DC12, 0.1 A/24 V

Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm ² ... 1.5 mm ²
Conductor cross-section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross-section AWG	0.14 mm ² ... 1.5 mm ² (Ferrule with plastic sleeve) 24 ... 16

Dimensions

Item dimensions

Width	6.2 mm
Height	93 mm
Depth	66 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94 (Housing)	V2 (Housing)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °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

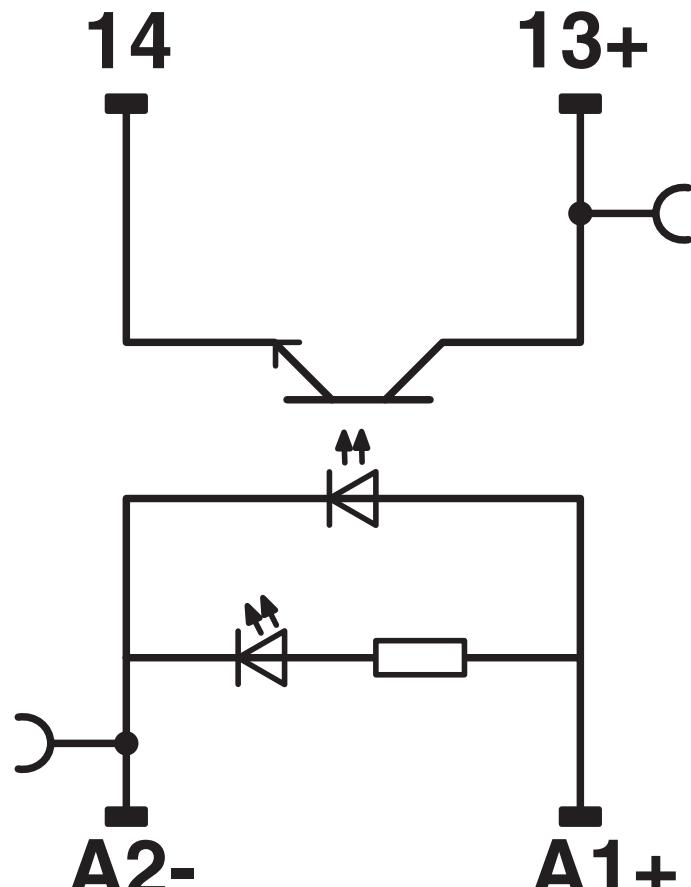
Standards/regulations	DIN EN 60947-5-1
-----------------------	------------------

Mounting

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

Drawings

Circuit diagram



RIF-0-OPT-24DC/48DC/100 - Solid-state relay module

2905294

<https://www.phoenixcontact.com/us/products/2905294>



Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2905294>

DNV

Approval ID: TAA000018V

RIF-0-OPT-24DC/48DC/100 - Solid-state relay module

2905294

<https://www.phoenixcontact.com/us/products/2905294>



Classifications

ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

ETIM

ETIM 9.0	EC001504
----------	----------

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.)	Lead(CAS: 7439-92-1)
SCIP	3d54b2d2-6c48-47a8-859c-ddfe8a1271f9

EF3.0 Climate Change

CO2e kg	0.385 kg CO2e
---------	---------------

Phoenix Contact 2025 © - 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