

RIF-0-OSC-24DC/230AC/1 - Solid-state relay module



2905656

<https://www.phoenixcontact.com/us/products/2905656>

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 screw connection, consisting of: relay base with ejector and plug-in miniature solid-state relay. Input voltage: 24 V DC. Output: 24 - 253 V AC/0.75 A

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	2905656
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C465
Product key	CK651J
Catalog page	Page 325 (C-5-2019)
GTIN	4046356983518
Weight per piece (including packing)	25.62 g
Weight per piece (excluding packing)	25.62 g
Customs tariff number	85364110
Country of origin	JP

RIF-0-OSC-24DC/230AC/1 - Solid-state relay module



2905656

<https://www.phoenixcontact.com/us/products/2905656>

Set consists of

RIF-0-BSC/ 1 - Relay base

2901872

<https://www.phoenixcontact.com/us/products/2901872>

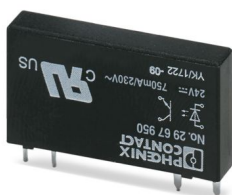


RIF-0... relay base, for miniature power relay with 1 N/O contact or identical solid-state relays, screw connection, for mounting on NS 35/7,5

OPT-24DC/230AC/ 1 - Miniature solid-state relay

2967950

<https://www.phoenixcontact.com/us/products/2967950>



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

Technical data

Product properties

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

Data management status

Date of last data management	10.06.2024
Article revision	03

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

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	0.19 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 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	10 ms
Typical turn-off time	10 ms
Status display	LED (yellow)
Protective circuit	Freewheeling diode
Transmission frequency	10 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	24 V AC ... 253 V AC (50/60 Hz)
Limiting continuous current	750 mA (see derating curve)
Maximum inrush current	30 A (10 ms)
Min. load current	10 mA

RIF-0-OSC-24DC/230AC/1 - Solid-state relay module



2905656

<https://www.phoenixcontact.com/us/products/2905656>

Leakage current	1 mA (in off state)
Surge current	30 A AC (tp = 20 ms, at 25 °C)
Phase angle cos phi min	0.5
Max. load value	4.5 A ² s (tp = 10 ms, at 25 °C)
Surge voltage protection	> 275 V
Voltage drop at max. limiting continuous current	< 1 V
Output circuit	2-conductor, zero voltage switch
Protective circuit	RCV circuit
Utilization category CB Scheme (IEC 60947-5-1)	AC12, 0.75 A/250 V

Connection data

Connection method	Screw connection
Stripping length	7 mm
Conductor cross section rigid	0.5 mm ² ... 4 mm ²
Conductor cross-section rigid (2 conductors with same cross section)	0.5 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.5 mm ² ... 2.5 mm ²
	0.5 mm ² ... 2.5 mm ² (Ferrule without plastic sleeve)
	0.5 mm ² ... 1.5 mm ² (Ferrule with plastic sleeve)
Conductor cross section flexible (2 conductors with same cross section)	0.5 mm ² ... 1.5 mm ²
	0.5 mm ² ... 1 mm ² (TWIN ferrule with plastic sleeve)
Conductor cross section AWG	20 ... 12 (solid)
	20 ... 14 (flexible)
Tightening torque	0.5 Nm ... 0.6 Nm

Dimensions

Width	6.2 mm
Height	84 mm
Depth	68 mm

Material specifications

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

RIF-0-OSC-24DC/230AC/1 - Solid-state relay module



2905656

<https://www.phoenixcontact.com/us/products/2905656>

Standards and regulations

Air clearances and creepage distances between the power circuits

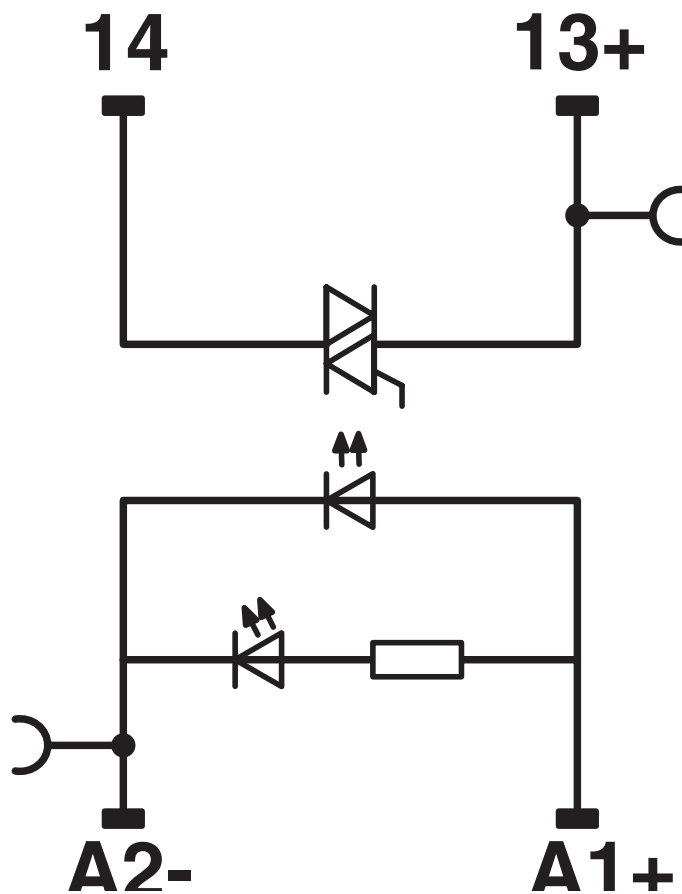
Standards/regulations	DIN EN 60947-5-1
-----------------------	------------------

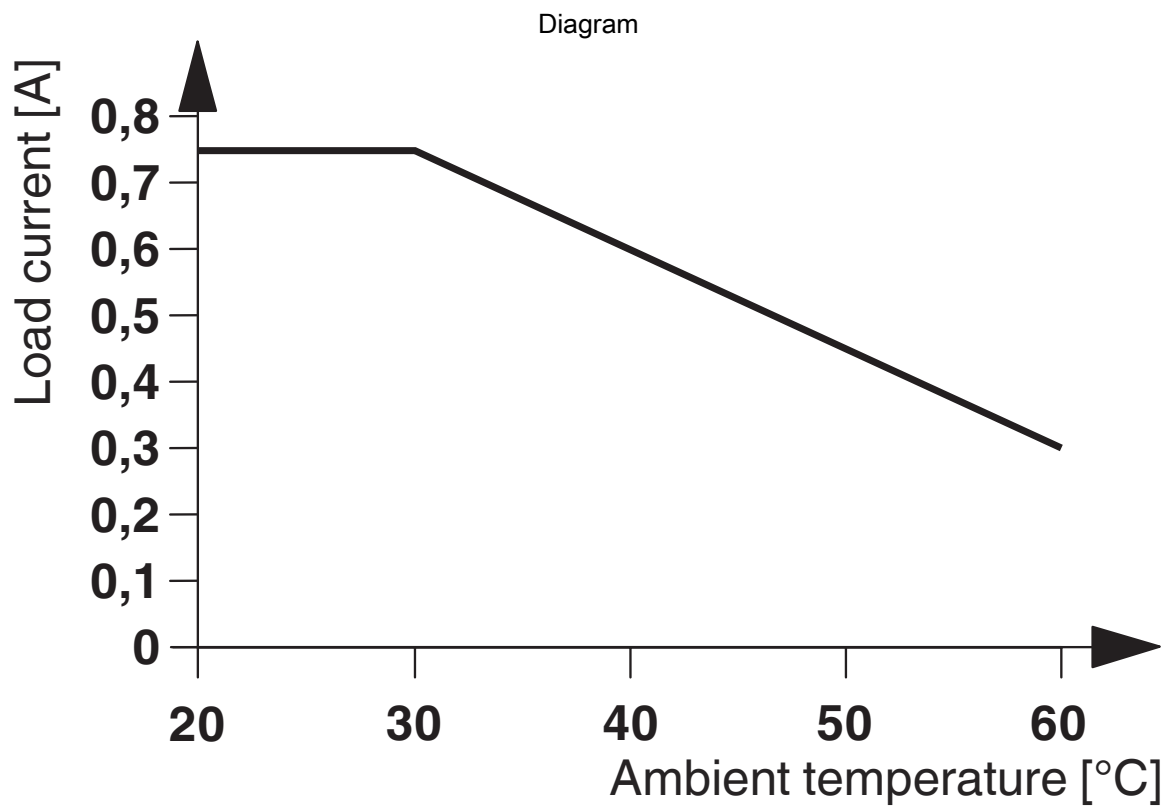
Mounting

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

Drawings

Circuit diagram





RIF-0-OSC-24DC/230AC/1 - Solid-state relay module



2905656

<https://www.phoenixcontact.com/us/products/2905656>

Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2905656>



EAC

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



DNV GL

Approval ID: TAA000018V

RIF-0-OSC-24DC/230AC/1 - Solid-state relay module



2905656

<https://www.phoenixcontact.com/us/products/2905656>

Classifications

ECLASS

ECLASS-11.0	27371604
ECLASS-13.0	27371604
ECLASS-12.0	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)
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	7de3ca73-6c2f-425c-9e2c-a262ba037d89