

RIF-0-RPT-24DC/21/MS - Relay module



1550107

<https://www.phoenixcontact.com/pc/products/1550107>

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 relay module with Push-in connection, consisting of: relay base with ejector and plug-in miniature relay with power contact and manual override. Contact switching type: 1 changeover contact. Input voltage: 24 V DC

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	1550107
Packing unit	10 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	DK6528
GTIN	4067923025950
Weight per piece (including packing)	28.53 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85364900
Country of origin	CZ

RIF-0-RPT-24DC/21/MS - Relay module



1550107

<https://www.phoenixcontact.com/pc/products/1550107>

Set consists of

REL-MR- 24DC/21/MS - Single relay

2909642

<https://www.phoenixcontact.com/pc/products/2909642>



Plug-in miniature power relay, with power contact, 1 changeover contact, manual operation, 24 V DC input voltage

RIF-0-BPT/21 - Relay base

2900958

<https://www.phoenixcontact.com/pc/products/2900958>



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

RIF-0-RPT-24DC/21/MS - Relay module



1550107

<https://www.phoenixcontact.com/pc/products/1550107>

Technical data

Product properties

Product type	Relay Module
Product family	RIFLINE complete
Application	Universal
Operating mode	100% operating factor
Mechanical service life	approx. 2×10^7 cycles

Insulation characteristics

Insulation	safe isolation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	21.01.2025
------------------------------	------------

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.22 W
Test voltage (Winding/contact)	4 kV _{rms} (50 Hz, 1 min., winding/contact)
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV

Input data

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range	19.2 V DC ... 36 V DC (20 °C)
Input voltage range in reference to U_N	see diagram
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U_N	9 mA
Typical response time	5 ms
Typical release time	8 ms
Coil voltage	24 V DC
Protective circuit	Freewheeling diode
Operating voltage display	Yellow LED

Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO

RIF-0-RPT-24DC/21/MS - Relay module



1550107

<https://www.phoenixcontact.com/pc/products/1550107>

Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (100 mA)
Limiting continuous current	6 A
Min. switching current	10 mA (12 V)
Interrupting rating (ohmic load) max.	140 W (24 V DC)
	20 W (48 V DC)
	18 W (60 V DC)
	23 W (110 V DC)
	40 W (220 V DC)
	1500 VA (250 V AC)
Utilization category CB Scheme (IEC 60947-5-1)	AC15, 3 A/250 V (N/O contact)
	AC15, 1 A/250 V (N/C contact)
	DC13, 1.5 A/24 V (N/O contact)
	DC13, 0.2 A/110 V (N/O contact)
	DC13, 0.1 A/220 V (N/O contact)

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
	0.14 mm ² ... 1.5 mm ² (Ferrule with plastic sleeve)
Conductor cross section AWG	24 ... 16

Dimensions

Item dimensions

Width	6.2 mm
Height	93 mm
Depth	78 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 (Relay base)	IP20 (Relay base)
Degree of protection (Relay)	RT III (Relay)
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Approvals

Corrosive gas test

RIF-0-RPT-24DC/21/MS - Relay module



1550107

<https://www.phoenixcontact.com/pc/products/1550107>

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

Standards and regulations

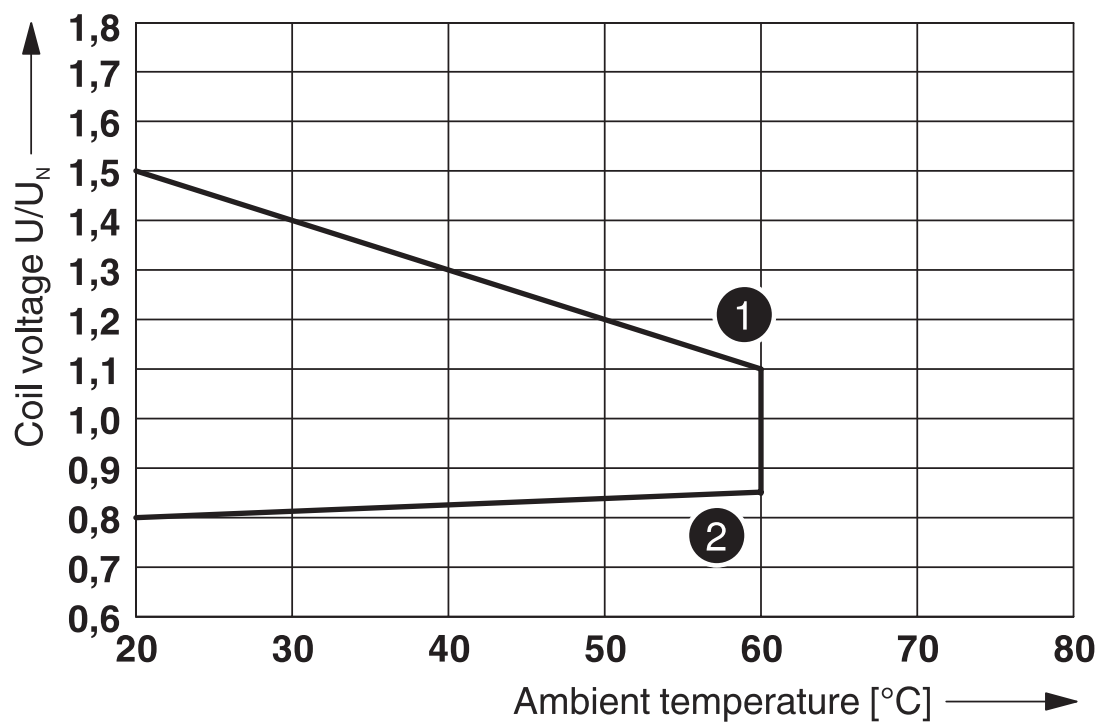
Standards/regulations	IEC 60947-5-1
-----------------------	---------------

Mounting

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

Drawings

Diagram

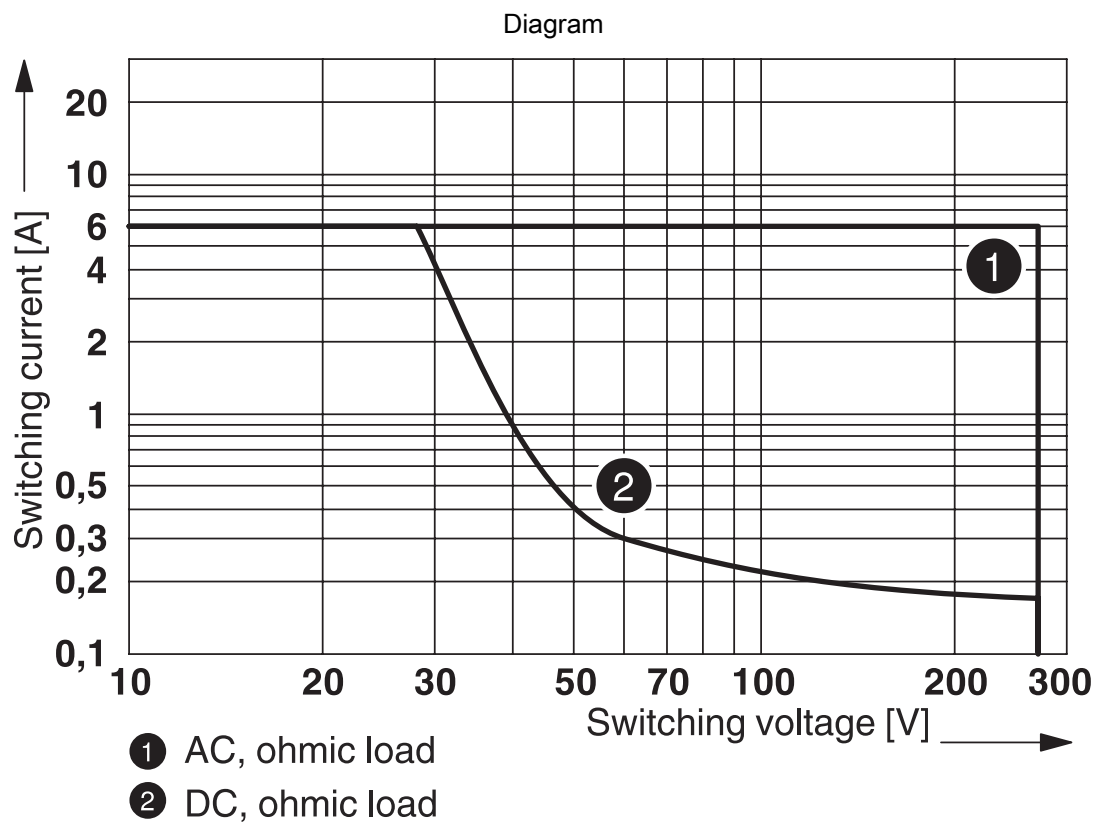


① Maximum continuous voltage at limiting continuous current = 6 A

② Minimum operate voltage

For pre-excitation with U_N and limiting continuous current = 6 A

Operating voltage range



Interrupting rating

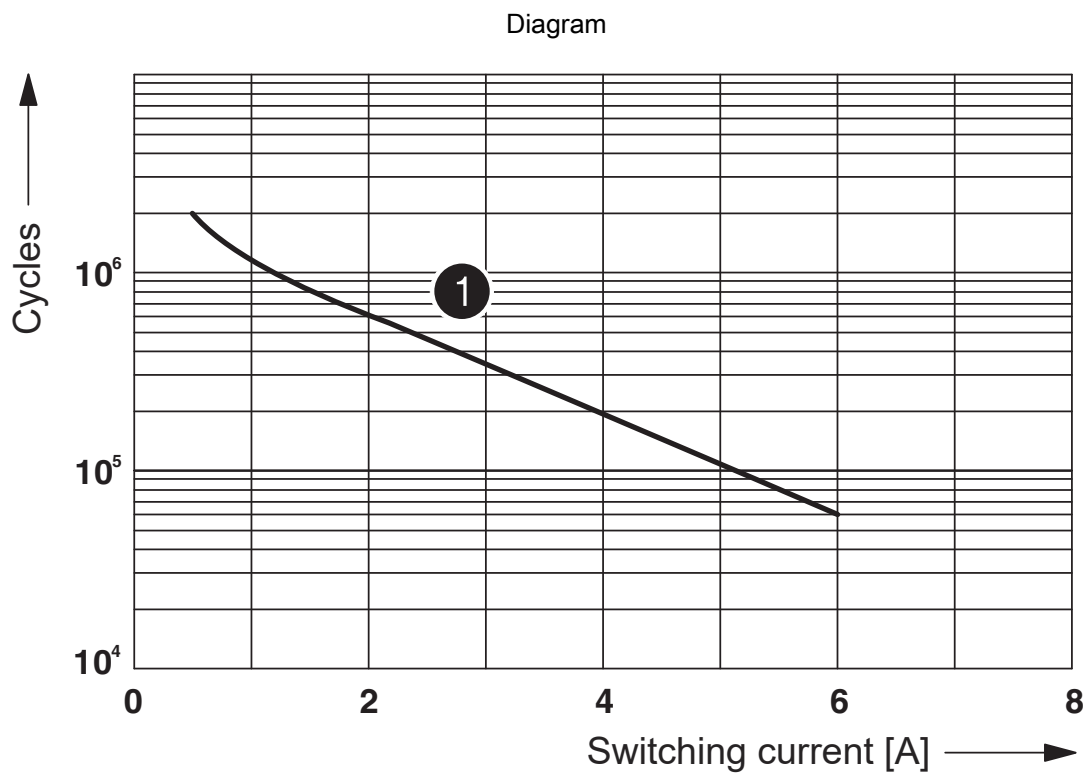
1550107

<https://www.phoenixcontact.com/pc/products/1550107>

Diagram



Service life reduction factor



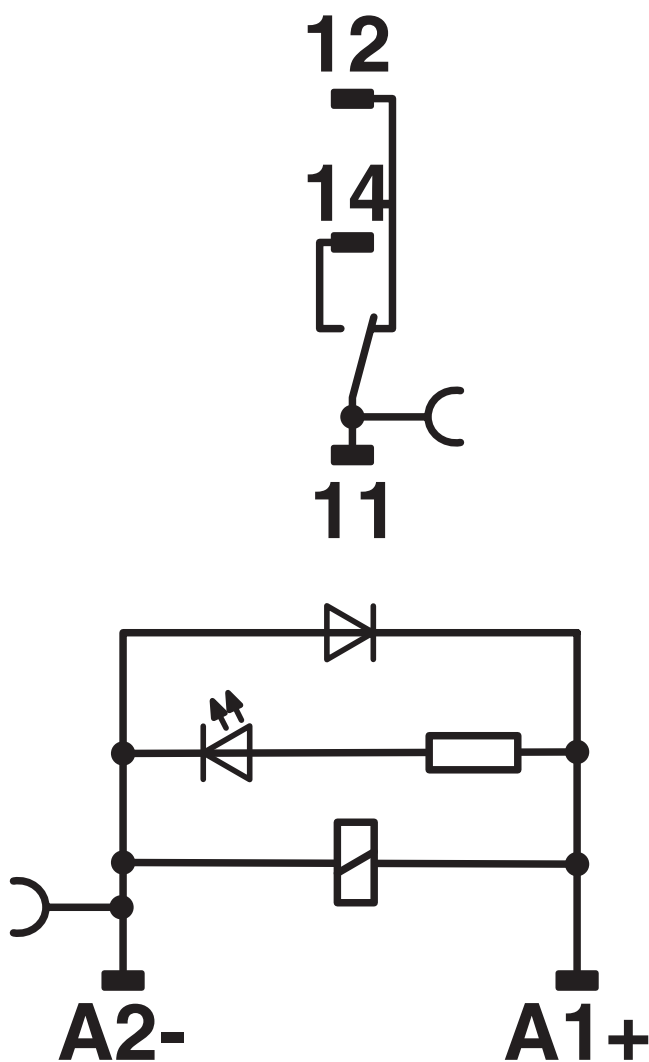
① 250 V AC, ohmic load

Electrical service life

1550107

<https://www.phoenixcontact.com/pc/products/1550107>

Circuit diagram



DC coils

RIF-0-RPT-24DC/21/MS - Relay module



1550107

<https://www.phoenixcontact.com/pc/products/1550107>

Classifications

ECLASS

ECLASS-12.0	27371601
ECLASS-13.0	27371601
ECLASS-11.0	27371601

ETIM

ETIM 9.0	EC001437
----------	----------

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	7c40ad11-9d32-4fbe-9bfa-d9079304cfd0