

RIF-0-RPT-24DC/ 1 - Relay Module



2903361

<https://www.phoenixcontact.com/pc/products/2903361>

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.



Preassembled relay module with Push-in connection, consisting of: relay base with ejector and power contact relay. Contact switching type: 1 N/O 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	2903361
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	CK6528
Catalog page	Page 319 (C-5-2019)
GTIN	4046356731997
Weight per piece (including packing)	24.7 g
Weight per piece (excluding packing)	21.805 g
Customs tariff number	85364110
Country of origin	CN

RIF-0-RPT-24DC/ 1 - Relay Module

2903361

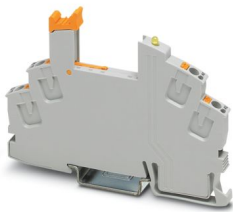
<https://www.phoenixcontact.com/pc/products/2903361>

Set consists of

RIF-0-BPT/1 - Relay base

2901873

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

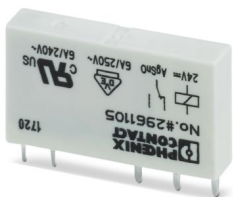


RIF-0... relay base, for miniature power relay with 1 N/O contact or solid-state relays of the same design, push-in connection, for mounting on NS 35/7,5

REL-MR- 24DC/21 - Single relay

2961105

<https://www.phoenixcontact.com/pc/products/2961105>



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

RIF-0-RPT-24DC/ 1 - Relay Module



2903361

<https://www.phoenixcontact.com/pc/products/2903361>

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
------------	----------------

Insulation characteristics

Insulation	safe isolation
Overvoltage category	III
Pollution degree	2

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)	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 N/O contact
Type of switch contact	Single contact
Contact material	AgSnO

RIF-0-RPT-24DC/ 1 - Relay Module



2903361

<https://www.phoenixcontact.com/pc/products/2903361>

Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (100 mA)
Limiting continuous current	6 A
Maximum inrush current	10 A (4 s)
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

Width	6.2 mm
Height	93 mm
Depth	66 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

Identification	ISA-S71.04. G3 Harsh Group
----------------	----------------------------

RIF-0-RPT-24DC/ 1 - Relay Module



2903361

<https://www.phoenixcontact.com/pc/products/2903361>

	EN 60068-2-60
--	---------------

Standards and regulations

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

Mounting

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

RIF-0-RPT-24DC/ 1 - Relay Module

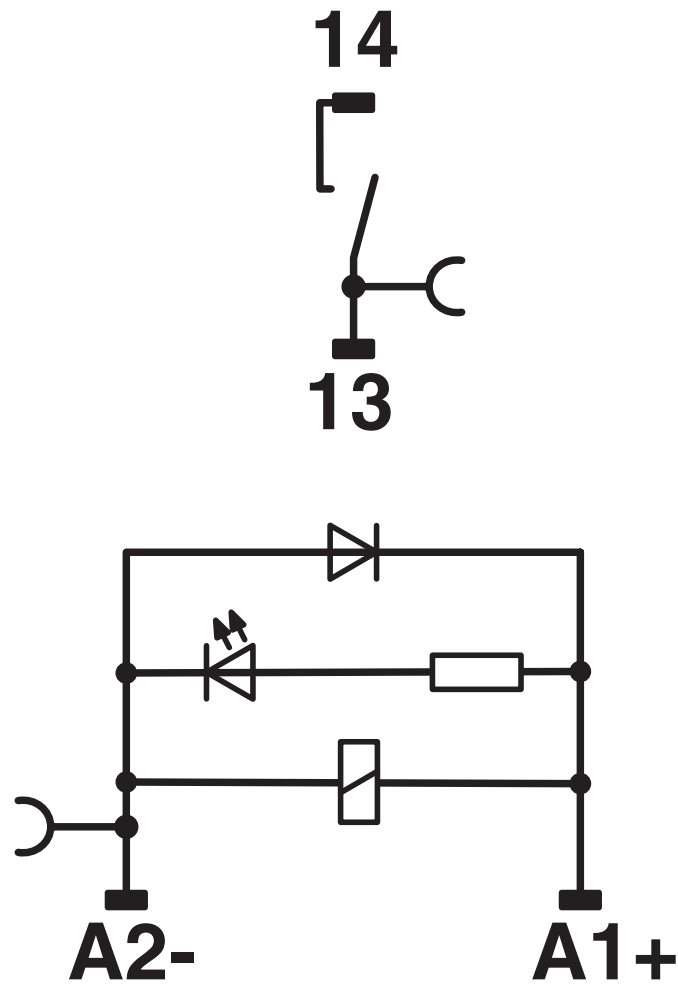
2903361

<https://www.phoenixcontact.com/pc/products/2903361>

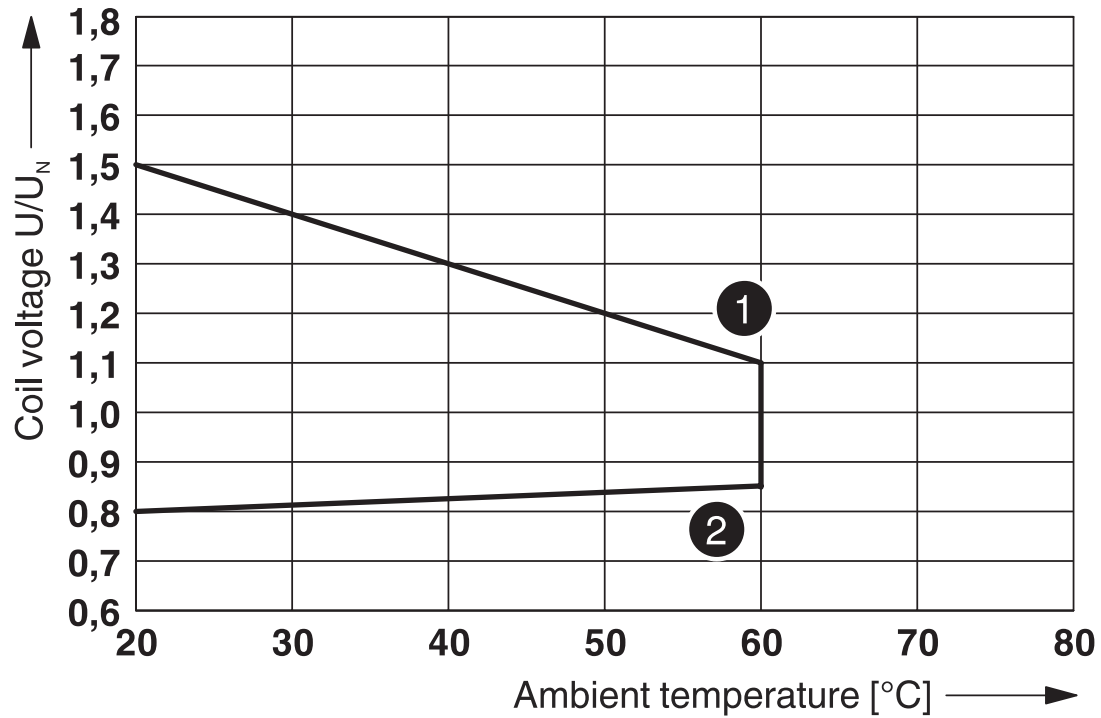


Drawings

Circuit diagram



Diagram



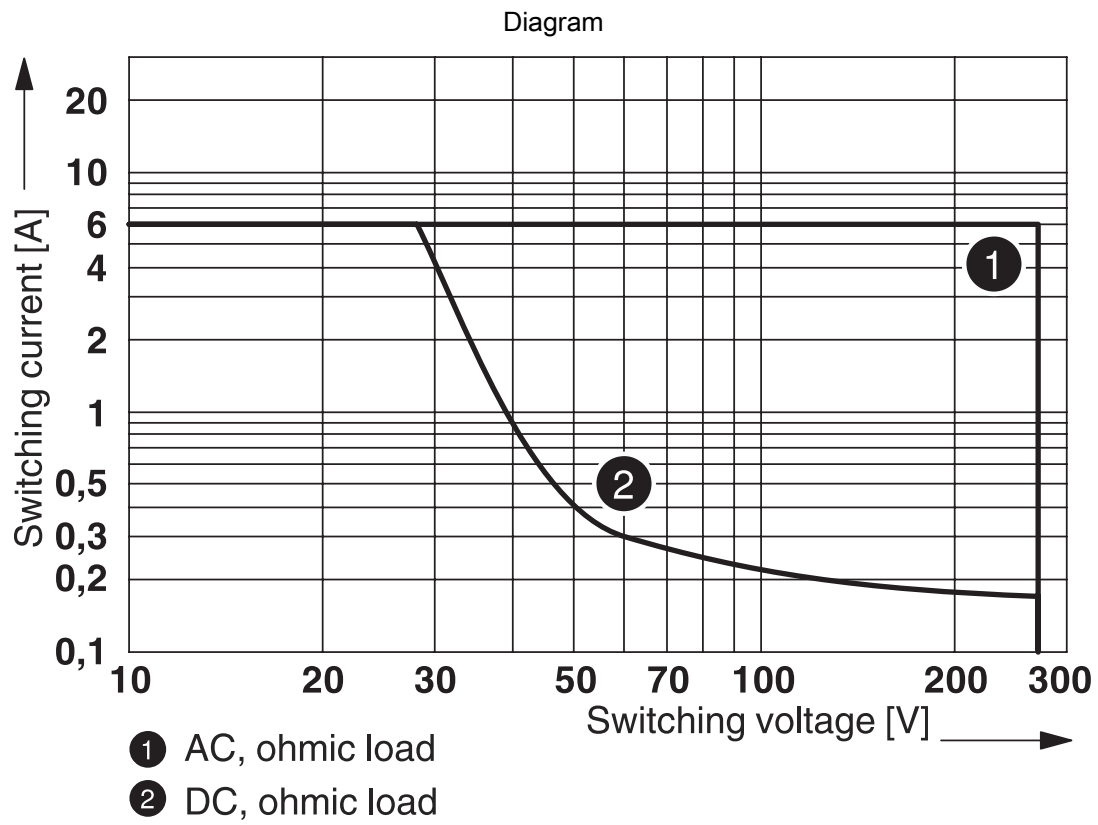
- ① Maximum continuous voltage at limiting continuous current = 6 A
 - ② Minimum operate voltage
- For pre-excitation with U_N and limiting continuous current = 6 A

Operating voltage range

RIF-0-RPT-24DC/ 1 - Relay Module

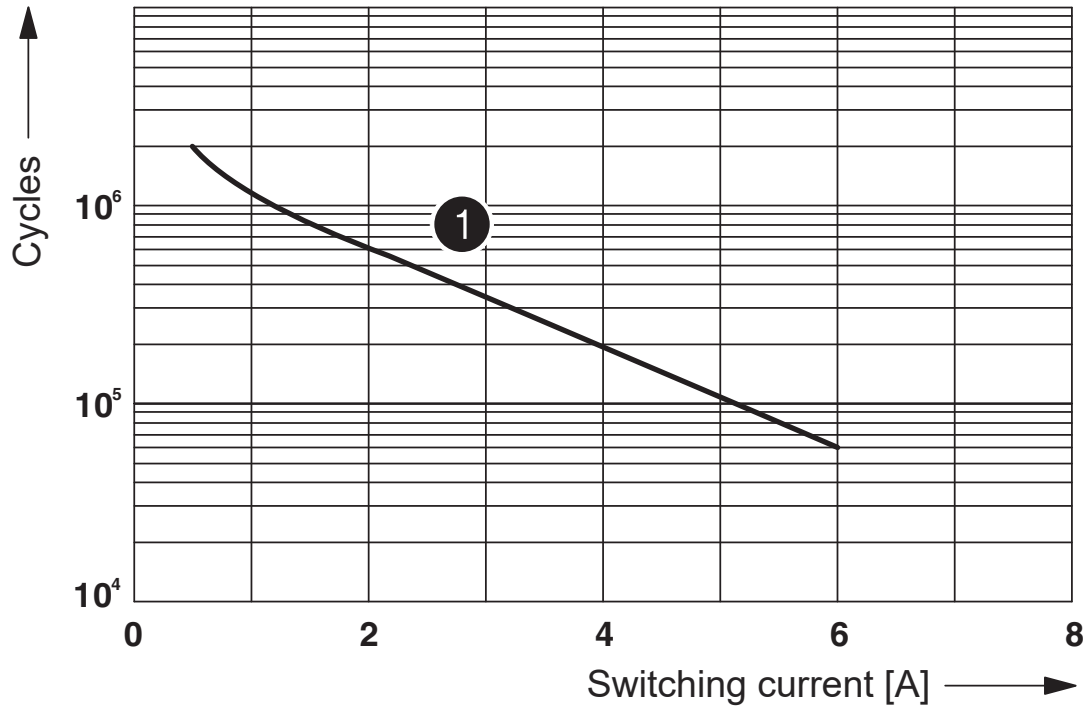
2903361

<https://www.phoenixcontact.com/pc/products/2903361>



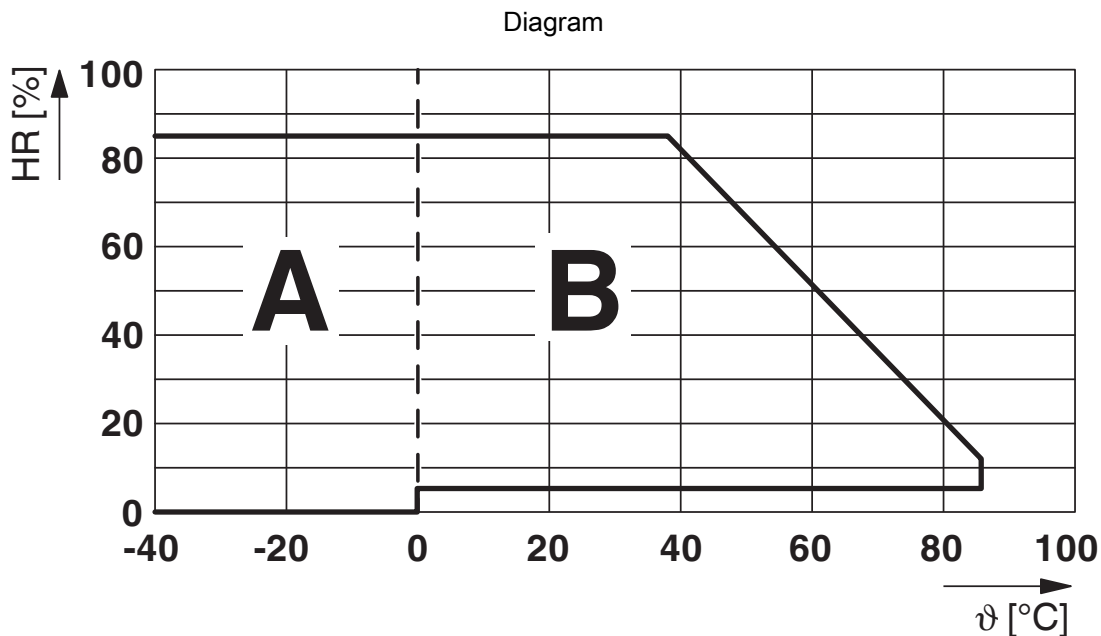
Interrupting rating

Diagram



① 250 V AC, ohmic load

Electrical service life



Permissible humidity for operation and storage.

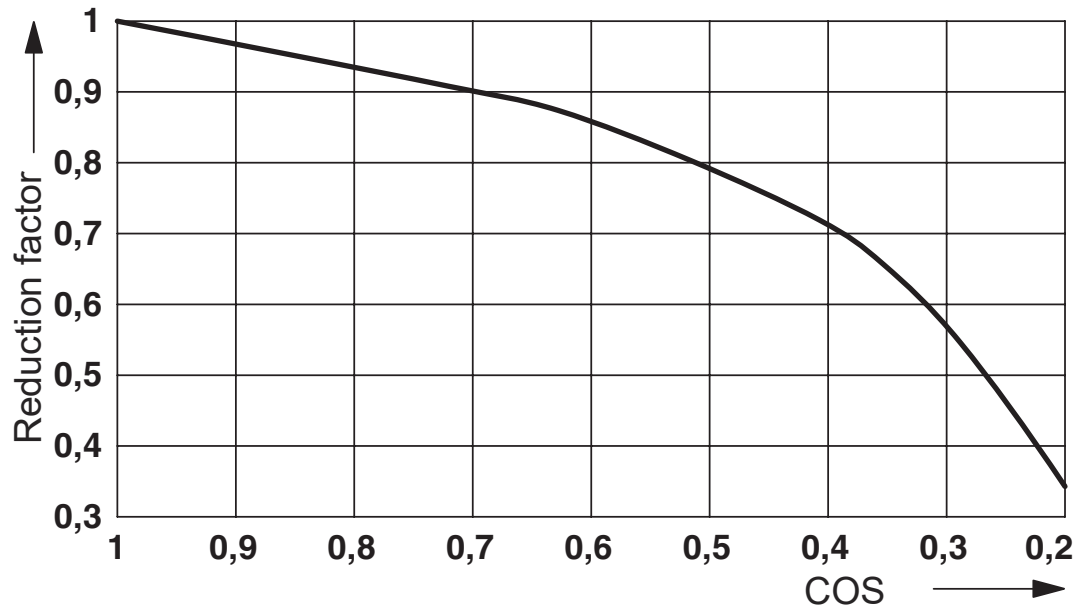
The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures $\leq 0^\circ\text{C}$ must be prevented

Area B: Condensation at ambient temperatures $> 0^\circ\text{C}$ must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature $\leq 25^\circ\text{C}$.

Diagram



Service life reduction factor

RIF-0-RPT-24DC/ 1 - Relay Module



2903361

<https://www.phoenixcontact.com/pc/products/2903361>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2903361>



EAC

Approval ID: TR_TS_D_00573_c



DNV GL

Approval ID: TAA000018V



DNV GL

Approval ID: TAA000018V

RIF-0-RPT-24DC/ 1 - Relay Module



2903361

<https://www.phoenixcontact.com/pc/products/2903361>

Classifications

ECLASS

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

ETIM

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

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

RIF-0-RPT-24DC/ 1 - Relay Module



2903361

<https://www.phoenixcontact.com/pc/products/2903361>

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	b0b0306b-a280-4f67-a5e1-357192fa6c76

Phoenix Contact 2024 © - 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