

RIF-0-RPT-12DC/21AU - Relay module



2903369
<https://www.phoenixcontact.com/au/products/2903369>

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.



Preamsembled relay module with Push-in connection, consisting of: relay base with ejector and multi-layer gold contact relay. Contact switching type: 1 changeover contact. Input voltage: 12 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	2903369
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	DK652G
Product key	DK652G
Catalog page	Page 318 (C-5-2019)
GTIN	4046356732970
Weight per piece (including packing)	28.42 g
Weight per piece (excluding packing)	27.5 g
Customs tariff number	85364110
Country of origin	DE

RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/au/products/2903369>

Set consists of

RIF-0-BPT/21 - Relay base

2900958

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

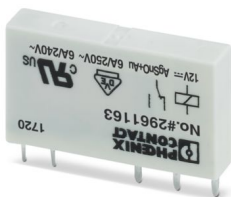


Relay base RIF-0..., for miniature power relay with 1 changeover contact or solid-state relays of the same design, Push-in connection, for mounting on NS 35/7,5

REL-MR- 12DC/21AU - Single relay

2961163

<https://www.phoenixcontact.com/au/products/2961163>



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 12 V DC

RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/au/products/2903369>

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	20.03.2025
------------------------------	------------

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.19 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	12 V DC
Input voltage range	9.6 V DC ... 18 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	16 mA
Typical response time	5 ms
Typical release time	8 ms
Coil voltage	12 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, hard gold-plated

RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/au/products/2903369>

Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV (10 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA (12 V)
Interrupting rating (ohmic load) max.	1.2 W (24 V DC)
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)

Switching: when the gold layer is destroyed

Note	the following values are applicable if a gold layer is destroyed
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)

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

RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/au/products/2903369>

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

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

Standards and regulations

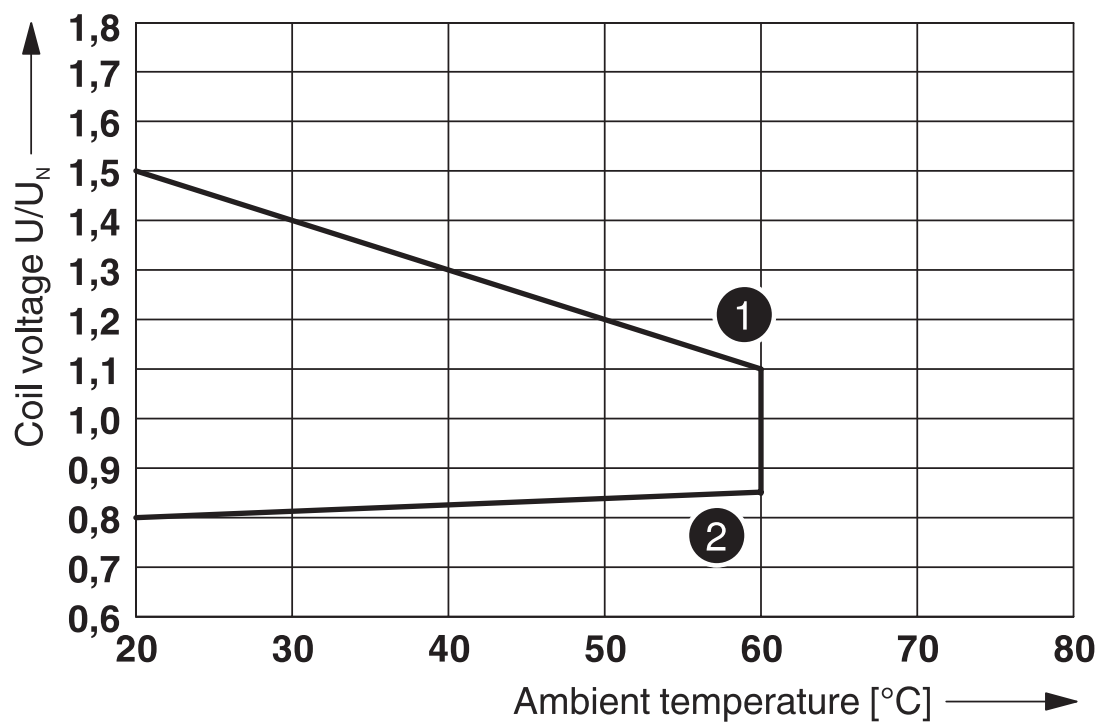
Standards/regulations	IEC 60947-5-1
-----------------------	---------------

Mounting

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

Drawings

Diagram

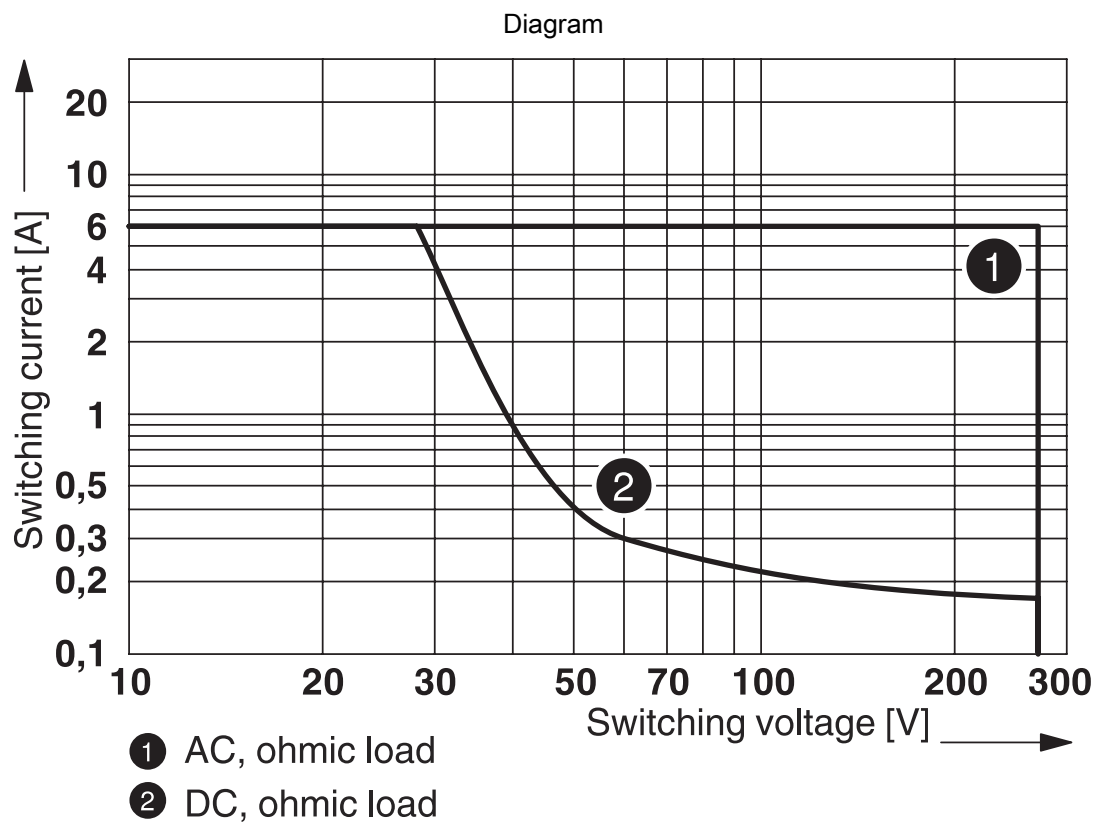


① Maximum continuous voltage at limiting continuous current = 6 A

② Minimum operate voltage

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

Operating voltage range

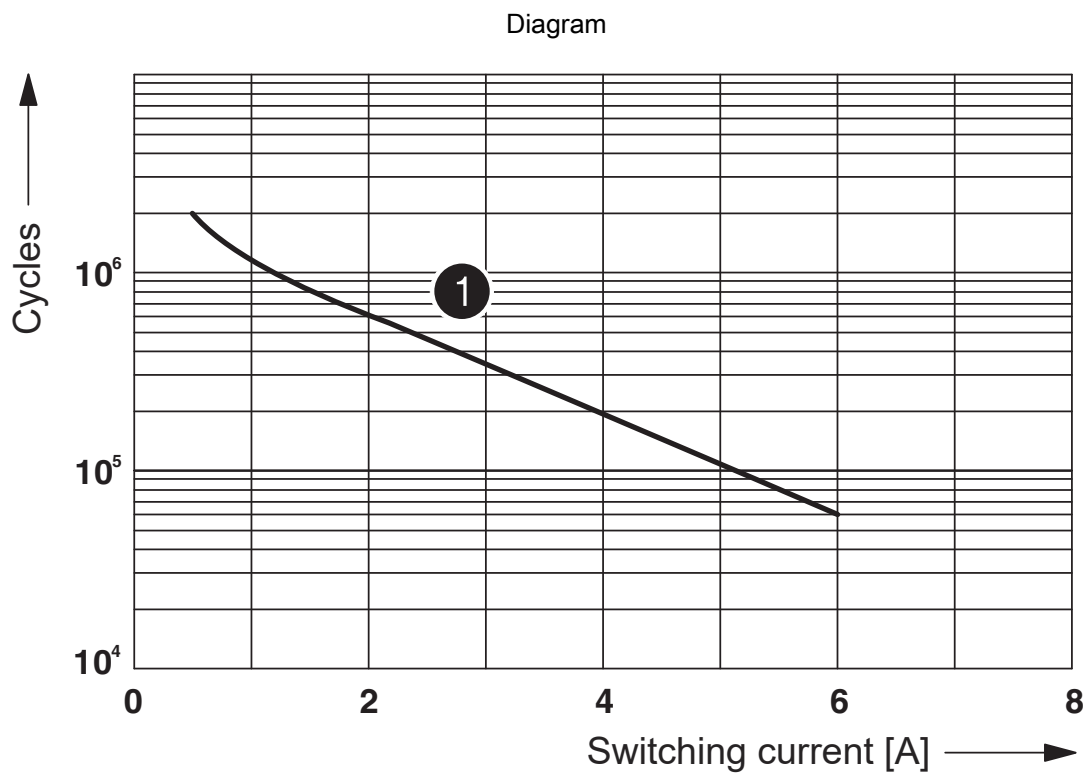


Interrupting rating

Diagram

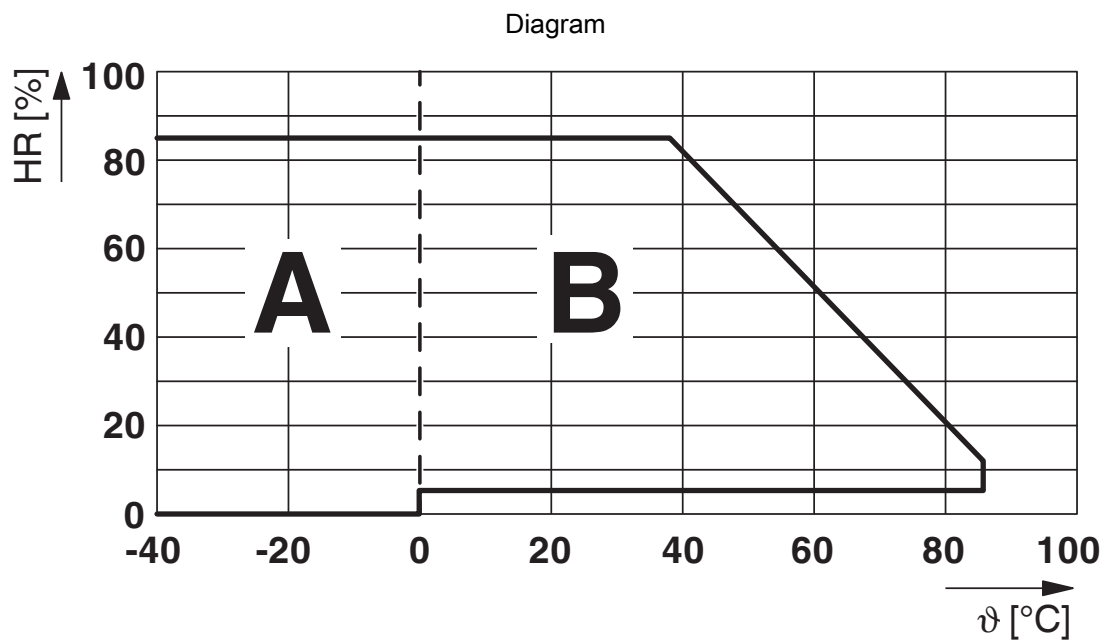


Service life reduction factor



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

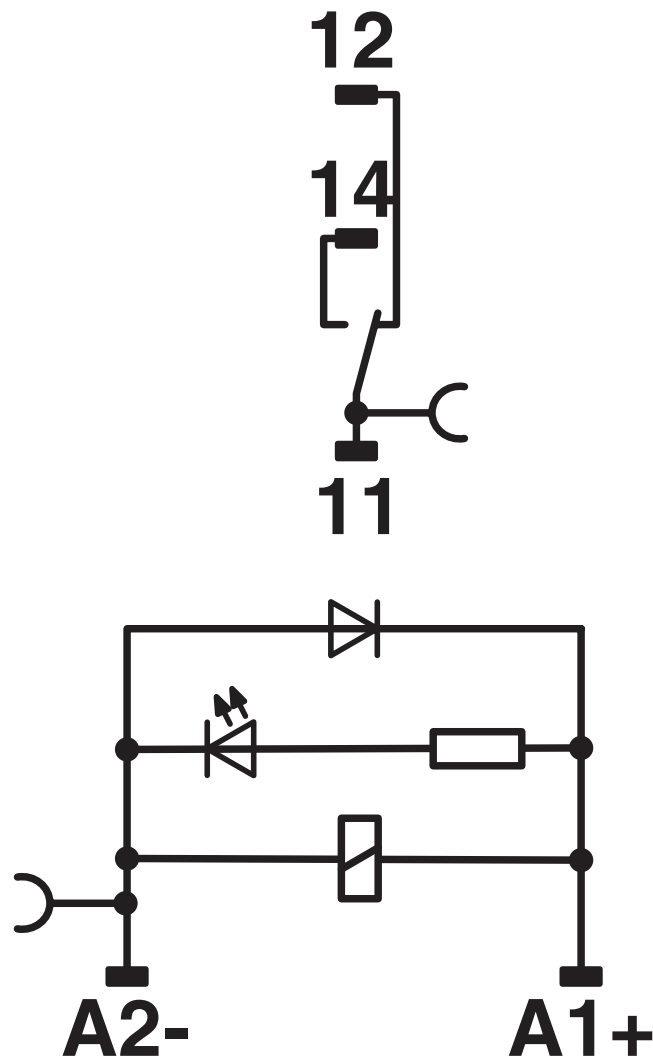
Area B: Condensation at ambient temperatures $> 0^{\circ}\text{C}$ must be prevented

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

2903369

<https://www.phoenixcontact.com/au/products/2903369>

Circuit diagram



DC coils

RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/au/products/2903369>

Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/2903369>

DNV

Approval ID: TAA000018V

RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/au/products/2903369>

Classifications

ECLASS

ECLASS-13.0	27371601
-------------	----------

ETIM

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

UNSPSC

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

RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/au/products/2903369>

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	ab3b2c6f-fa75-4ac6-8c7a-4ce9c73f00c2

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT PTY Ltd

Unit 7, 2-8 South Street

Rydalmere NSW 2116

1300 786 411

customerservice@phoenixcontact.com.au