RIF-2-RPT-LV-230AC/2X21 - Relay module

2903310

https://www.phoenixcontact.com/us/products/2903310

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Preassembled relay module with Push-in connection, consisting of: relay base, power contact relay, plug-in display/interference suppression module, and retaining bracket. Contact switching type: 2 changeover contacts. Input voltage: 230 V AC

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	2903310
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C465
Product key	DK652A
GTIN	4046356732529
Weight per piece (including packing)	107.8 g
Weight per piece (excluding packing)	107.6 g
Customs tariff number	85364900
Country of origin	CN

Set consists of

RIF-2-BPT/4X21 - Relay base

2900934

https://www.phoenixcontact.com/us/products/2900934



Relay base RIF-2..., for industrial relay with 2 or 4 changeover contacts, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

REL-IR/L-230AC/2X21/MS - Single relay

1819073

https://www.phoenixcontact.com/us/products/1819073



Plug-in industrial relay with power contacts, 2 changeover contacts, test button, status LED, mechanical switching position indicator, input voltage: 230 V AC

RIF-V-120-230 UC - Plug-in module

2900948

https://www.phoenixcontact.com/us/products/2900948



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor, input voltage: 120 V AC ... 230 V AC / DC ±20 %

RIF-RH-2-L - Retaining bracket

1899071

https://www.phoenixcontact.com/us/products/1899071



Relay retaining bracket, with ejector function and holder for marking material, suitable for RIF-2 relay base, for industrial relay with 28 mm height

Technical data

Product properties

Product type	Relay Module
Product family	RIFLINE complete
Application	Universal
Operating mode	100% operating factor
Mechanical service life	1x 10^7 cycles

Insulation characteristics: Air clearances and creepage distances between the control circuit and the load circuit

Insulation	Safe isolation
Overvoltage category	III
Pollution degree	2

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

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	18.09.2026

Electrical properties

Maximum power dissipation for nominal condition	1.5 W
Test voltage (Winding/contact)	2.5 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (open contact)	1.2 kV AC (50 Hz, 1 min., open contact)
Test voltage (Changeover contact/changeover contact)	2 kV AC (50 Hz, 1 min., changeover contact/changeover contact)

Air clearances and creepage distances between the control circuit and the load circuit

Rated insulation voltage	250 V_{rms}
Rated surge voltage	4 kV

Air clearances and creepage distances between the load circuits

Rated insulation voltage	250 V_{rms}
Rated surge voltage	4 kV

Input data

Coil side

Nominal input voltage U_N	230 V AC
Input voltage range	184 V AC ... 368 V AC
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U_N	4.4 mA AC
Typical response time	15 ms
Typical release time	10 ms

Typical release voltage	58 V
Coil voltage	230 V
Status display	Yellow LED
Bouncing time	10 ms

Output data

Switching

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC
	300 V DC
Minimum switching voltage	12 V
Limiting continuous current	12 A
Maximum inrush current	24 A
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	288 W (24 V DC)
	130 W (48 V DC)
	90 W (60 V DC)
	66 W (110 V DC)
	88 W (220 V DC)
	3000 VA (250 V AC)
Switching capacity	4 A (24 V, DC13)
	2 A (250 V, AC15)

Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm² ... 1.5 mm²
Conductor cross-section flexible	0.14 mm² ... 1.5 mm²
	0.14 mm² ... 1.5 mm² (Ferrule with plastic sleeve)
	0.14 mm² ... 1 mm² (Ferrule with plastic sleeve, two conductors on double terminal block)
Conductor cross-section AWG	26 ... 16 (solid)
	26 ... 16 (flexible)

Dimensions

Item dimensions

Width	31 mm
Height	96 mm
Depth	67.5 mm

Material specifications

Color	gray (RAL 7042)

Flammability rating according to UL 94 (Housing)	V0 (Housing)

Environmental and real-life conditions

Ambient conditions

Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Relay)	RT II (Relay)
Ambient temperature (operation)	-40 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Standards and regulations

Air clearances and creepage distances between the control circuit and the load circuit

Standards/regulations	IEC 60947-5-1

Air clearances and creepage distances between the load circuits

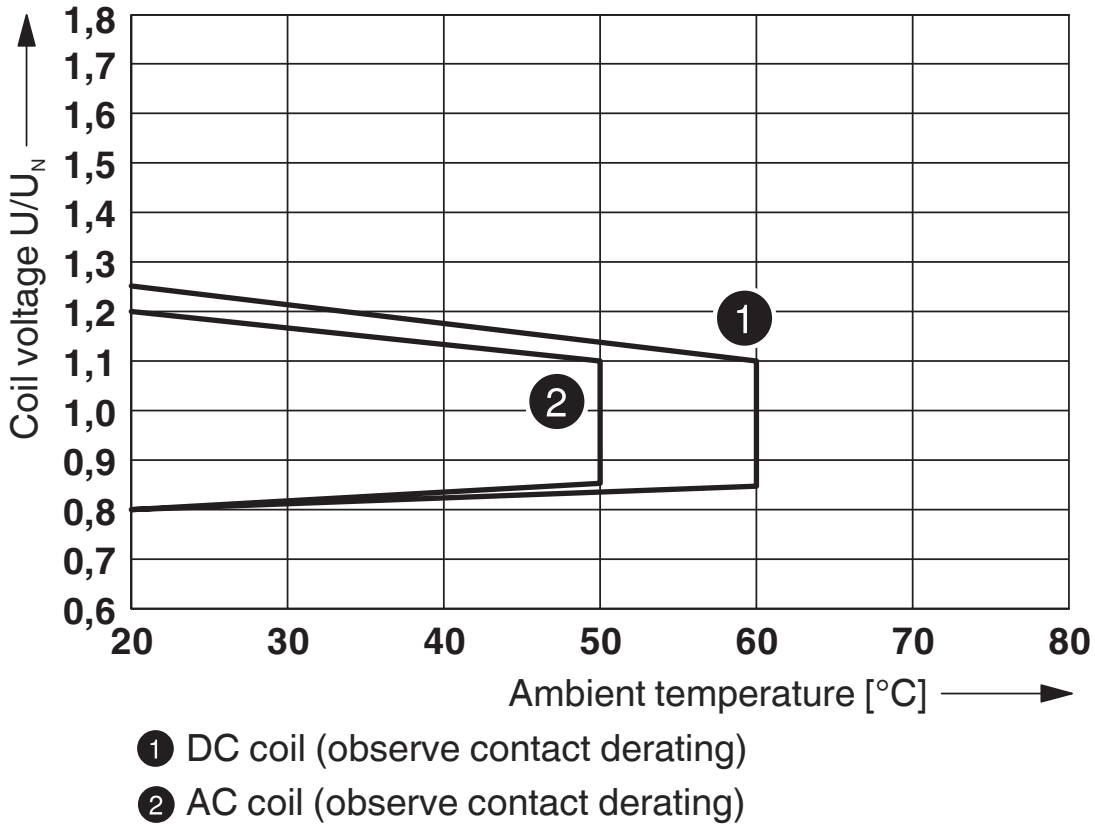
Standards/regulations	IEC 60947-5-1

Mounting

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

Drawings

Diagram

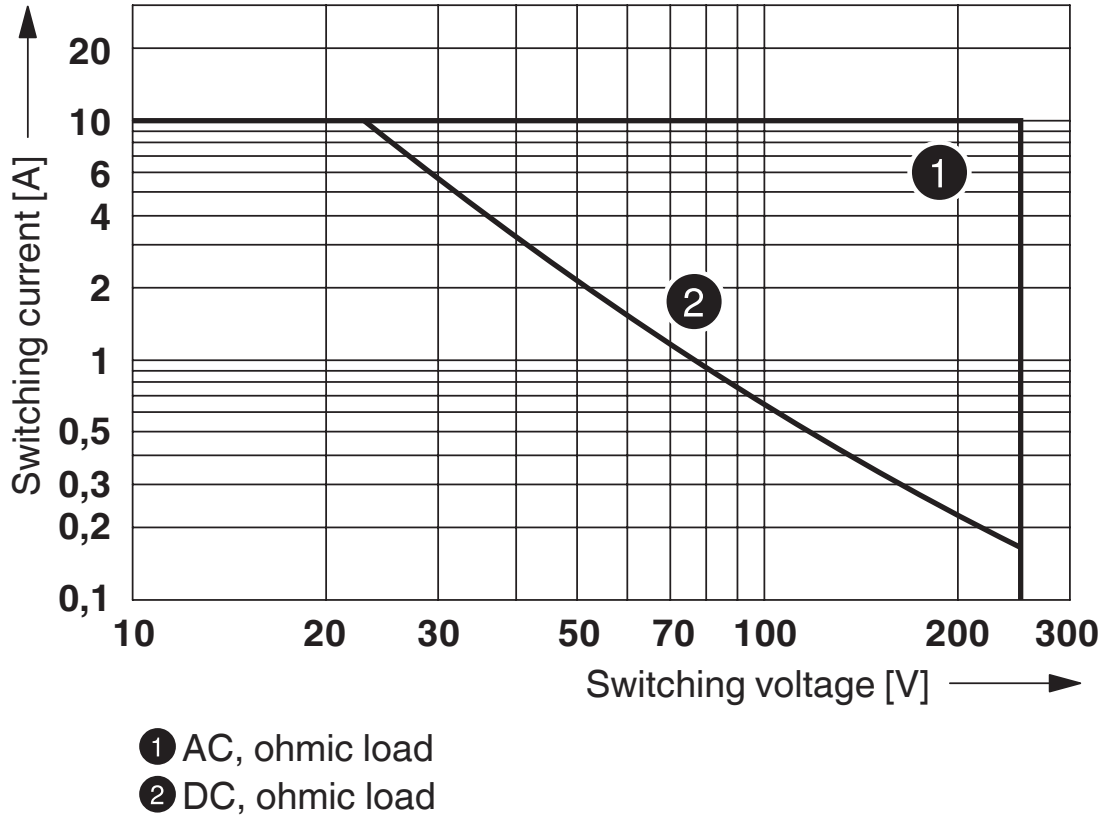


1 DC coil (observe contact derating)

2 AC coil (observe contact derating)

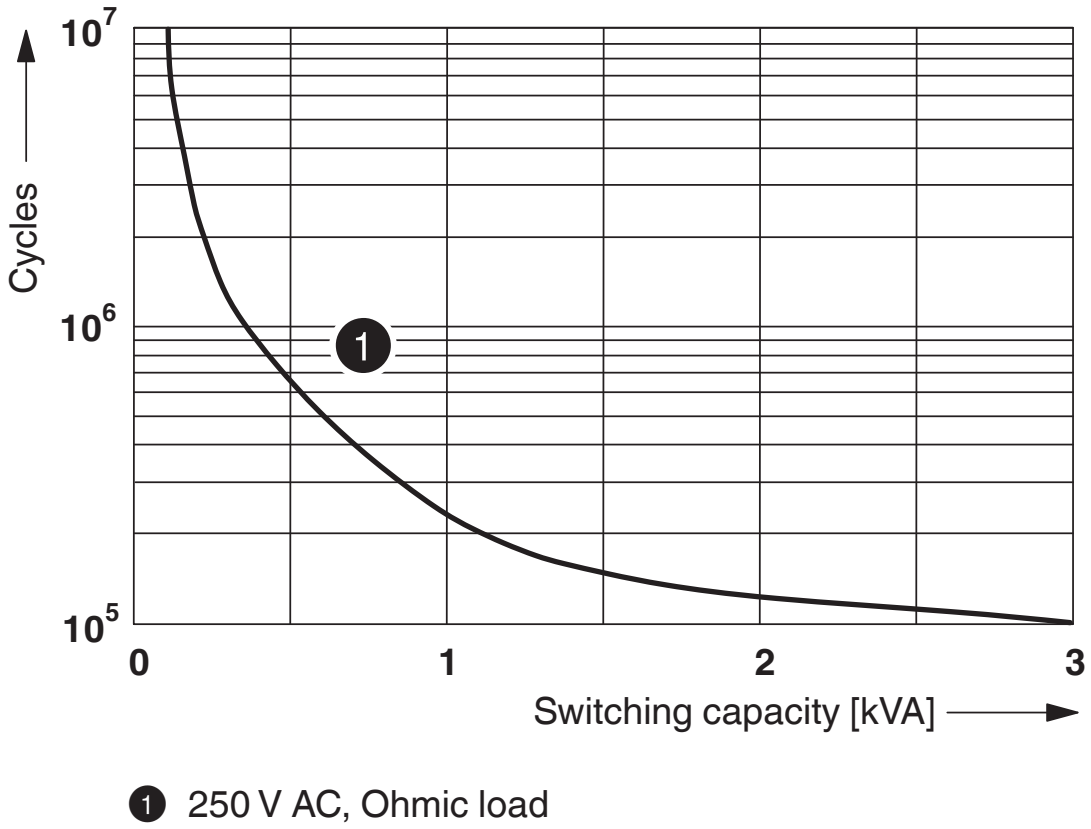
Operating voltage range

Diagram



Interrupting rating

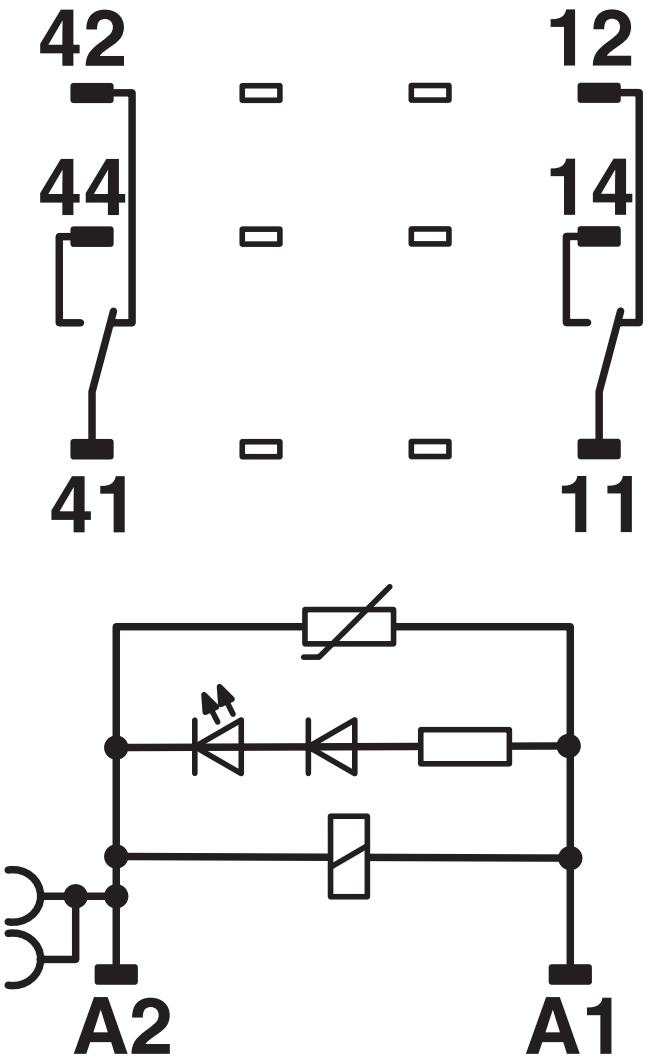
Diagram



1 250 V AC, Ohmic load

Electrical service life

Circuit diagram



AC coils

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2903310

CSA
Approval ID: 76787

CCC
Approval ID: 2024010303656841

DNV
Approval ID: TAA000018V

Classifications

ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

ETIM

ETIM 10.0	EC001437

UNSPSC

UNSPSC 21.0	39122300

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	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.)	No substance above 0.1 wt%

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