

2903373

https://www.phoenixcontact.com/us/products/2903373

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 screw 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	2903373
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C465
Product key	CK651G
Catalog page	Page 320 (C-5-2019)
GTIN	4046356732031
Weight per piece (including packing)	33.37 g
Weight per piece (excluding packing)	33.37 g
Customs tariff number	85364110
Country of origin	CZ



2903373

https://www.phoenixcontact.com/us/products/2903373

Set consists of

RIF-0-BSC/21 - Relay base

2900957

https://www.phoenixcontact.com/us/products/2900957



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

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

2961163

https://www.phoenixcontact.com/us/products/2961163



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



https://www.phoenixcontact.com/us/products/2903373



Technical data

Product properties

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

Data management status

Date of last data management	07.10.2024
Article revision	03

Insulation characteristics

Insulation	safe isolation
Overvoltage category	III
Pollution degree	2

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.19 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 $\mathbf{U}_{\mathbf{N}}$	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



2903373

https://www.phoenixcontact.com/us/products/2903373

Contact material	AgSnO, hard gold-plated
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	Screw connection
Stripping length	7 mm
Conductor cross section rigid	0.5 mm² 4 mm²
Conductor cross-section rigid (2 conductors with same cross section)	0.5 mm² 1.5 mm²
Conductor cross section flexible	0.5 mm² 2.5 mm²
	0.5 mm² 2.5 mm² (Ferrule without plastic sleeve)
	0.5 mm ² 1.5 mm ² (Ferrule with plastic sleeve)



2903373

Mounting

Mounting type

Assembly note

Mounting position

https://www.phoenixcontact.com/us/products/2903373

Conductor cross section flexible (2 conductors with same cross	0.5 mm² 1.5 mm²
section)	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
imensions	
Width	6.2 mm
Height	84 mm
Depth	82 mm
aterial specifications	
Color	gray (RAL 7042)
Flammability rating according to UL 94	V2 (Housing)
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
pprovals	
Corrosive gas test	
Identification	ISA-S71.04. G3 Harsh Group
	·
	EN 60068-2-60
tandards and regulations	EN 60068-2-60
tandards and regulations Standards/regulations	EN 60068-2-60 IEC 60947-5-1

DIN rail mounting

any

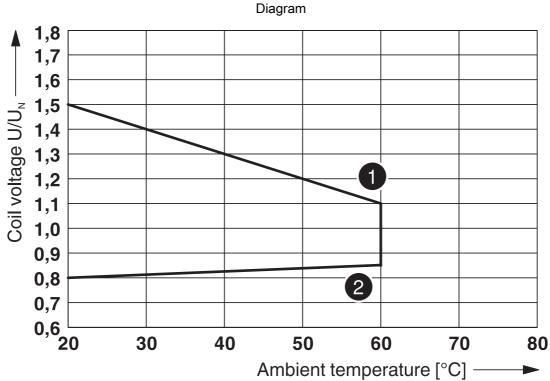
in rows with zero spacing



https://www.phoenixcontact.com/us/products/2903373



Drawings



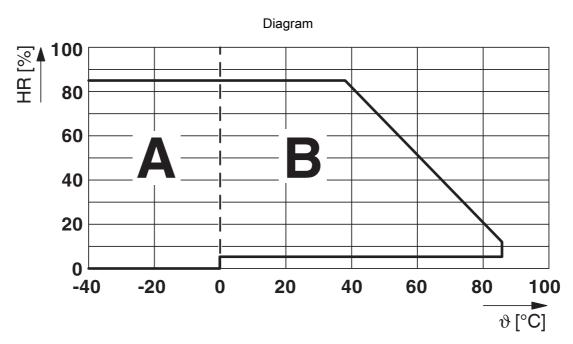
- 1 Maximum continuous voltage at limiting continuous current = 6 A
- 2 Minimum operate voltage For pre-excitation with U_N and limiting continuous current = 6 A

Operating voltage range



2903373

https://www.phoenixcontact.com/us/products/2903373



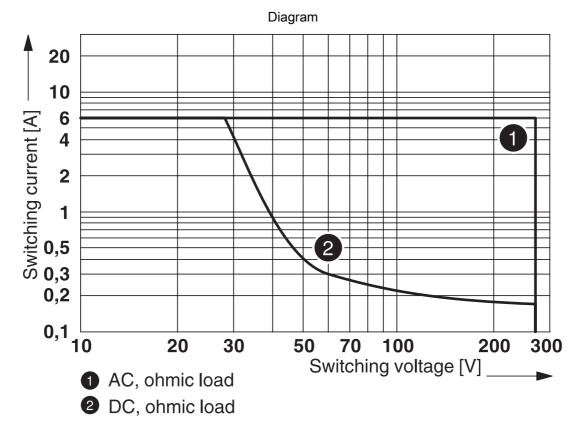
Permissible humidity for operation and storage.

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

Area A: Ice buildup at ambient temperatures ≤ 0°C must be prevented

Area B: Condensation at ambient temperatures > 0°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 ≤ 25°C.

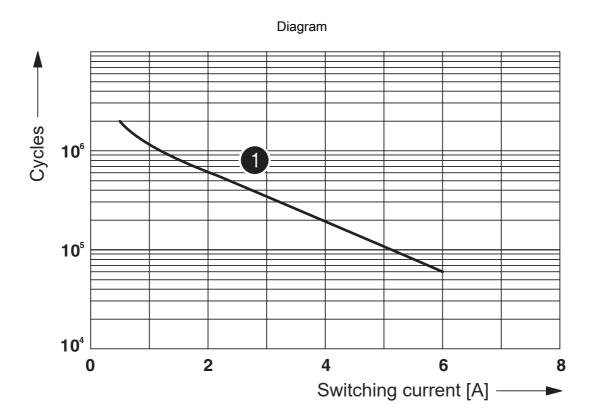


Interrupting rating



2903373

https://www.phoenixcontact.com/us/products/2903373



1 250 V AC, ohmic load

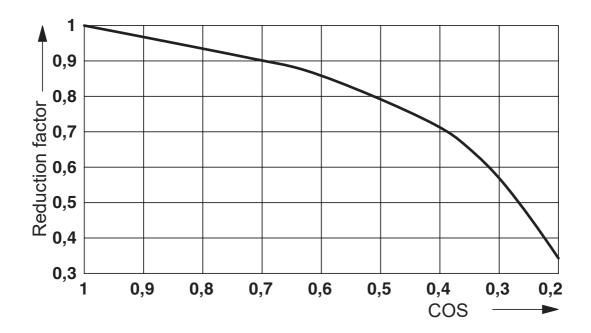
Electrical service life



https://www.phoenixcontact.com/us/products/2903373



Diagram

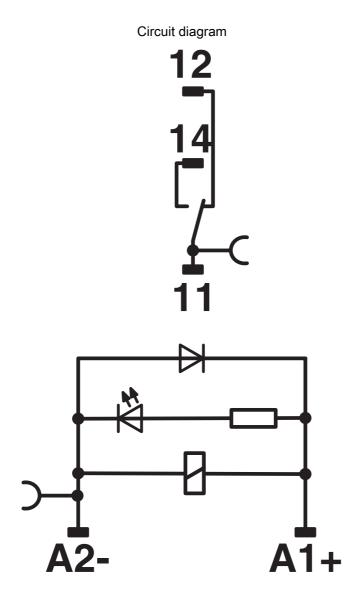


Service life reduction factor with various cos phi



https://www.phoenixcontact.com/us/products/2903373







2903373

https://www.phoenixcontact.com/us/products/2903373

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2903373



DNV GL

Approval ID: TAA000018V



2903373

https://www.phoenixcontact.com/us/products/2903373

Classifications

ECLASS

	ECLASS-11.0	27371601			
	ECLASS-12.0	27371601			
	ECLASS-13.0	27371601			
ET	ETIM				
	ETIM 9.0	EC001437			
UNSPSC					
	UNSPSC 21.0	39122300			



2903373

https://www.phoenixcontact.com/us/products/2903373

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	4996fe3c-8f71-493e-894e-ebc0ff3867a7

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com