

Relay Module - RIF-1-RPT-LDP-24DC/2X21MS - 2905291


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's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Pre-assembled relay module with push-in connection, consisting of: relay base, relay retaining bracket, and power contact relay with test button, integrated status LED, and freewheeling diode. Contact type: 2 PDTs. Input voltage: 24 V DC



Key commercial data

Packing unit	1
GTIN	 4 046356 945370
Custom tariff number	85364110

Technical data

Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
-------------------------	---

Dimensions

Width	16 mm
Height	93 mm
Depth	75 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	see diagram
Typical input current at U_N	18 mA
Typical response time	9 ms
Typical release time	10 ms
Operating voltage display	Yellow LED

Relay Module - RIF-1-RPT-LDP-24DC/2X21MS - 2905291

Technical data

Coil side

Protective circuit	Damping diode
--------------------	---------------

Contact side

Contact type	2 PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Maximum inrush current	16 A (20 ms, N/O contact)
Min. switching current	10 mA (at 12 V)
Limiting continuous current	see diagram
Interrupting rating (ohmic load) max.	192 W (at 24 V DC)
	62 W (at 48 V DC)
	42 W (at 60 V DC)
	55 W (at 110 V DC)
	66 W (at 220 V DC)
	2000 VA (for 250 V AC)
Switching capacity min.	120 mW
Switching capacity in acc. with DIN VDE 0660/IEC 60947	1 A (at 24 V, DC13)
	1.5 A (at 24 V, AC15)
	1.5 A (at 120 V, AC15)
	1.5 A (at 240 V, AC15)

Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	1.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.14 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve max.	1.5 mm ²
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.14 mm ²
Conductor cross section stranded, with ferrule without plastic sleeve max.	1.5 mm ²
Conductor cross section AWG/kcmil max	16
Conductor cross section AWG/kcmil min.	26

General

Test voltage relay winding/relay contact	4 kV _{rms} (50 Hz, 1 min.)
Test voltage PDT/PDT	2.5 kV _{rms} (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	IP20 (Relay socket)

Relay Module - RIF-1-RPT-LDP-24DC/2X21MS - 2905291

Technical data

General

	RT II (Relay)
Mechanical service life	Approx. 5 x 10 ⁶ cycles
Standards/regulations	DIN EN 50178
	IEC 62103
Rated surge voltage / insulation	6 kV/safe isolation
Rated insulation voltage	250 V AC
Pollution degree	2
Surge voltage category	III
Mounting position	any
Assembly instructions	In rows with zero spacing

Articles in set

Relay socket - RIF-1-BPT/2X21 - 2900931



RIF-1... relay base, for miniature power relay with 1 or 2 PDTs or solid-state relays of the same design, push-in connection, plug-in option for input/suppressor modules, for mounting on NS 35/7,5

Single relay - REL-MR- 24DC/21-21/MS - 2987943



Plug-in miniature relay, with power contact, 2 PDTs, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2, input voltage 24 V DC

Retaining bracket - RIF-RH-1-H - 2904468



Relay retaining bracket, with ejector function and holder for marking material, suitable for RIF-1 relay base, for 25 mm tall miniature power relay and solid-state relay

Classifications

eCl@ss

eCl@ss 4.1	27371102
eCl@ss 5.1	27371603
eCl@ss 8.0	27371603

Relay Module - RIF-1-RPT-LDP-24DC/2X21MS - 2905291

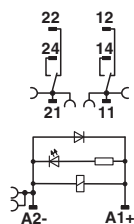
Classifications

ETIM

ETIM 4.0	EC000236
ETIM 5.0	EC000236

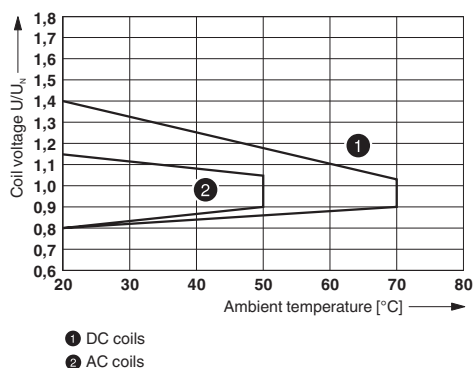
Drawings

Circuit diagram



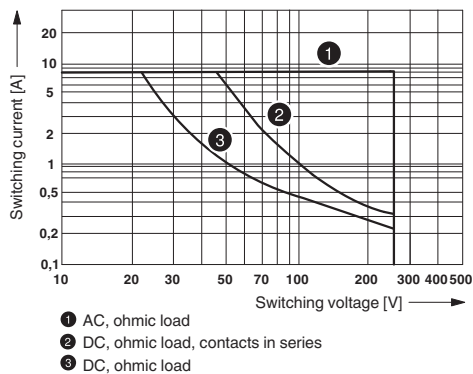
DC coils

Diagram



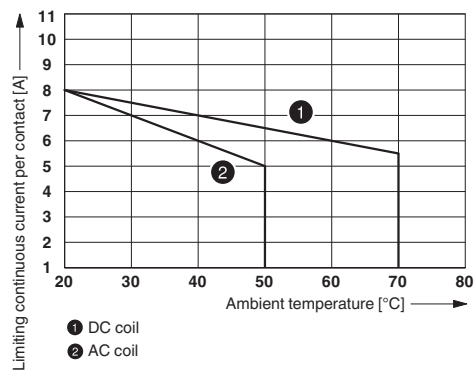
Operating voltage range

Diagram



Interrupting rating

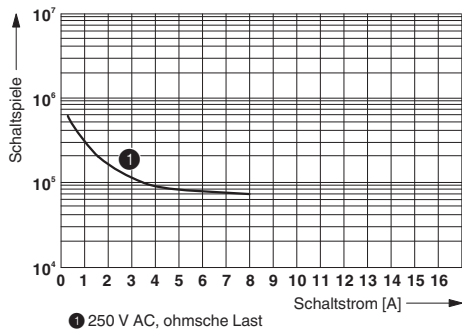
Diagram



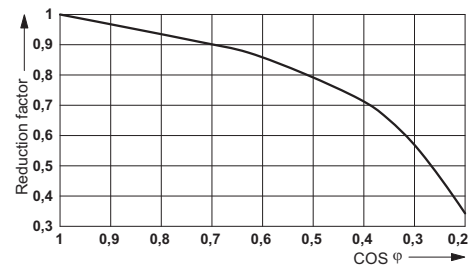
Contact derating

Relay Module - RIF-1-RPT-LDP-24DC/2X21MS - 2905291

Diagram



Diagram



Electrical service life

Service life reduction factor

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [phoenix contact manufacturer](#):

Other Similar products are found below :

[1203259](#) [3240366](#) [1893300](#) [1623633](#) [2814605](#) [3240098](#) [0201391](#) [CRIMPFOX 16 S](#) [CRIMPSET 25](#) [7001438](#) [ETD-BL-1T-F-300S](#) [MCR-1CLP-I-I-00](#) [MCR-4CLP-I-I-00](#) [MCR-DAC 8-I- 4-BUS](#) [FL EPA WMS](#) [FLK 50/EZ-DR/ 400/KONFEK/S](#) [FLS PB M12 DO 8 M12-2A](#) [PPS CD BLADE](#) [PSI-MOS-DNET CAN/FO 660/BM](#) [PSM-ME-RS232/RS232-P](#) [PSM PTK-4](#) [PSM-SET-FSMA/4-KT](#) [PSR-SCP-24DC/TS/SDI8/SDIO](#) [PSR-SCP- 24DC/URD3/4X1/2X2](#) [PT 2X2- 5DC-ST](#) [1202580](#) [1203534](#) [1205985](#) [1206308](#) [1207420](#) [1209091](#) [QUINT-BAT/24DC/12AH](#) [1204038](#) [1212041](#) [1212096](#) [1212162](#) [1212171](#) [1212202](#) [1212250](#) [1212304](#) [1212380](#) [1212480](#) [1212485](#) [1212488](#) [1212500](#) [1212511](#) [1212578](#) [1212584](#) [1212585](#) [1212592](#)