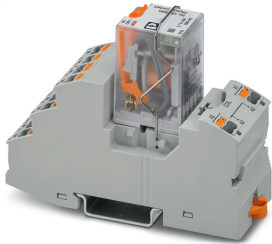


Relay Module - RIF-2-RPT-MH-L-230AC/4X21AU - 1021766

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Pre-assembled relay module with Push-in connection, consisting of: relay base, power contact relay with additional hard gold plating, and metal retaining bracket. Contact type: 4 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.



Key Commercial Data

Packing unit	1
GTIN	 4 055626 513997
GTIN	4055626513997
Custom tariff number	85364900

Technical data

Note

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

Width	31 mm
Height	96 mm
Depth	70 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

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Technical data

Ambient conditions

Degree of protection	RT I (Relay)
	IP20 (Relay base)

Coil side

Nominal input voltage U_N	230 V AC
Input voltage range in reference to U_N	see diagram
Mains frequency	50/60 Hz
Typical input current at U_N	6.5 mA
Typical response time	5 ms ... 15 ms
Typical release time range	5 ms ... 20 ms
Coil voltage	230 V AC
Operating voltage display	Yellow LED

Contact side

Contact type	4 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	2 V (At 24 mA)
Min. switching current	2 mA (24 V DC)
Maximum inrush current	50 mA
Limiting continuous current	50 mA
Interrupting rating (ohmic load) max.	1.2 W (24 V DC)
Switching capacity min.	48 mW
Switching capacity	2 A (24 V, DC13)
	1 A (230 V, AC15)

Contact side (with destroyed gold layer)

Contact material	AgNi
Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (24 mA)
Limiting continuous current	see diagram
Min. switching current	5 mA (24 V)
Interrupting rating (ohmic load) max.	144 W (24 V DC)
	124 W (48 V DC)
	108 W (60 V DC)
	52 W (at 110 V DC)

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Technical data

Contact side (with destroyed gold layer)

	48 W (220 V DC)
	1500 VA (250 V AC)

General

Test voltage	2.5 kV _{rms} (50 Hz, 1 min., winding/contact)
	2 kV _{rms} (50 Hz, 1 min., changeover contact/changeover contact)
Operating mode	100% operating factor
Flammability rating according to UL 94	V2 (Housing)
Mechanical service life	approx. 2x 10 ⁷ cycles
Service life, electrical	see diagram
Mounting position	any
Assembly instructions	In rows with zero spacing

Connection data

Connection name	Coil side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	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)
	0.14 mm ² ... 1 mm ² (Ferrule with plastic sleeve, two conductors on double terminal block)
Conductor cross section AWG	26 ... 16 (solid)
	26 ... 16 (flexible)

Connection data 2

Connection name	Contact side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	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)
	0.14 mm ² ... 1 mm ² (Ferrule with plastic sleeve, two conductors on double terminal block)
Conductor cross section AWG	26 ... 16 (solid)
	26 ... 16 (flexible)

Standards and Regulations

Standards/regulations	DIN EN 50178
	IEC 62103

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Technical data

Standards and Regulations

Rated insulation voltage	250 V AC
Rated surge voltage	2.5 kV
Insulation	Basic insulation
Pollution degree	2
Overvoltage category	II

Conformance/approvals

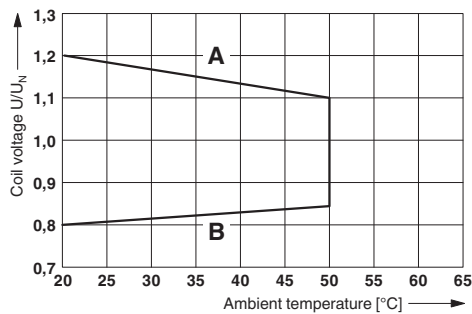
Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

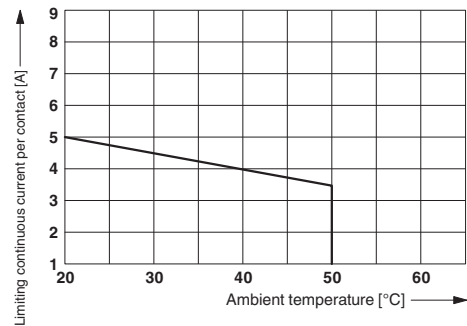
Drawings

Diagram



Operating voltage range

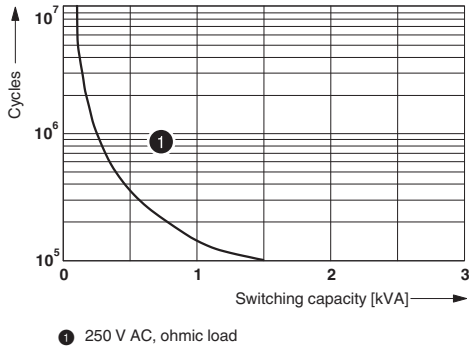
Diagram



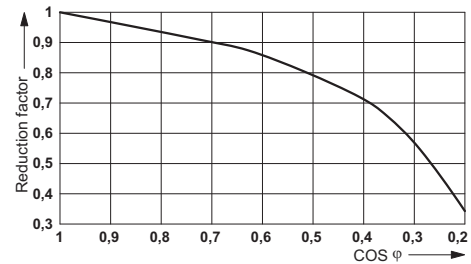
Contact derating

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Diagram



Diagram



Electrical service life

Service life reduction factor

Articles in set

Relay base - RIF-2-BPT/4X21 - 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

Single relay - REL-IR4/L-230AC/4X21AU - 2903685



Plug-in industrial relay with power contacts and additional hard gold plating, 4 changeover contacts, test button, status LED, mechanical switching position indicator, coil voltage: 230 V AC

Relay retaining bracket - RIF-RHM-2 - 2905984



Relay retaining bracket, wire model, suitable for RIF-2 relay base

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Classifications

eCl@ss

eCl@ss 10.0.1	27371601
eCl@ss 11.0	27371601
eCl@ss 5.0	27371600
eCl@ss 5.1	27371600
eCl@ss 6.0	27371600
eCl@ss 7.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 6.0	EC001437
ETIM 7.0	EC001437

Approvals

Approvals

Approvals

EAC / EAC / DNV GL

Ex Approvals

Approval details

EAC		TR_TS_D_00573_c
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EAC		RU*C- DE.*08.B.00010
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DNV GL		https://approvalfinder.dnvgl.com/	TAA000018V
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