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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Pre-assembled relay module with screw connection, consisting of: relay base, power contact relay, and retaining bracket. Contact type: 3 changeover contacts. Input voltage: 24 V DC



## **Key Commercial Data**

Packing unit	5 STK
GTIN	4 046356 731935
GTIN	4046356731935

#### Technical data

Utilization restriction

#### Note

	aroa
Dimensions	
Width	44 mm
Height	96 mm
Denth	01 mm

EMC: class A product, see manufacturer's declaration in the download

#### Ambient conditions

Ambient temperature (operation)	-40 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

#### Coil side

Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range in reference to U <sub>N</sub>	see diagram
Typical input current at U <sub>N</sub>	56 mA
Typical response time	20 ms
Typical release time	20 ms
Coil voltage	24 V DC



## Technical data

### Coil side

Protective circuit	Damping diode
Operating voltage display	Yellow LED
Power dissipation for nominal condition	1.34 W

### Contact side

Contact type	3 PDTs
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	440 V AC
	250 V DC
Minimum switching voltage	10 V (At 24 mA)
Min. switching current	10 mA (at 24 V)
Maximum inrush current	50 A (20 ms, N/O contact)
Limiting continuous current	10 A (see diagram)
Interrupting rating (ohmic load) max.	240 W (at 24 V DC)
	124 W (at 48 V DC)
	108 W (at 60 V DC)
	52 W (at 110 V DC)
	70 W (at 220 V DC)
	2500 VA (for 250 V AC)
	4000 VA (at 440 V AC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
	0.22 A (at 120 V, DC13)
	0.11 A (at 250 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	1.5 A (at 240 V, AC15)
3-phase motor load	1500 W
Motor load according to UL 508	1/3 HP, 120 V AC (single-phase AC motor)
	1/2 HP, 240 V AC (single-phase AC motor)
	1/2 HP, 240 V AC (three-phase induction motor)

### Connection data input side

Connection name	Input side
Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid	0.5 mm² 4 mm²
Conductor cross-section solid (2 conductors with same cross section)	0.5 mm² 2.5 mm²
Conductor cross section flexible	0.5 mm² 4 mm²
	0.5 mm <sup>2</sup> 4 mm <sup>2</sup> (Ferrule with plastic sleeve)
Conductor cross section flexible (2 conductors with same cross section)	0.5 mm² 2.5 mm²
	0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)



## Technical data

### Connection data input side

Conductor cross section AWG	20 10 (solid)
	20 12 (flexible)
Torque	0.5 Nm 0.6 Nm

#### Connection data output side

Connection name	Contact side
Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid	0.5 mm² 4 mm²
Conductor cross-section solid (2 conductors with same cross section)	0.5 mm² 2.5 mm²
Conductor cross section flexible	0.5 mm² 4 mm²
	0.5 mm <sup>2</sup> 4 mm <sup>2</sup> (Ferrule with plastic sleeve)
Conductor cross section flexible (2 conductors with same cross section)	0.5 mm² 2.5 mm²
	0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)
Conductor cross section AWG	20 10 (solid)
	20 12 (flexible)
Torque	0.5 Nm 0.6 Nm

#### General

Test voltage relay winding/relay contact	2.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Test voltage relay contact/relay contact	2.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	IP20 (Relay base)
	RT I (Relay)
Mechanical service life	approx. 10 <sup>7</sup> cycles
Mounting position	any
Assembly instructions	In rows with zero spacing

## Standards and Regulations

Standards/regulations	DIN EN 50178
Rated insulation voltage	250 V AC
Rated surge voltage	4 kV
Insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III
Flammability rating according to UL 94	V2

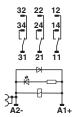
## **Environmental Product Compliance**

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

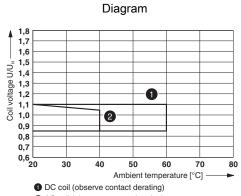
## Drawings







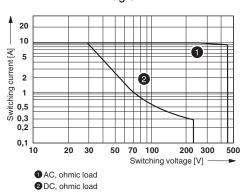
DC coils



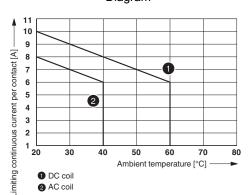
2 AC coil (observe contact derating)

#### Operating voltage range

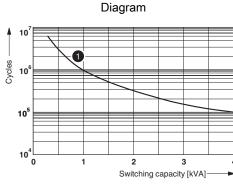
Diagram



### Diagram



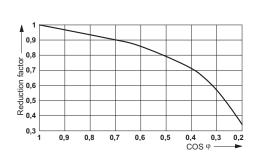
Interrupting rating



1 250 V AC, ohmic load

### Contact derating

Diagram



Electrical service life

Service life reduction factor



#### Articles in set

Relay base - RIF-4-BSC/3X21 - 2900960



RIF-4... relay base, for high-power relay with 2 or 3 changeover contacts or 3 N/O contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

Single relay - REL-PR3- 24DC/3X21 - 2903702



Plug-in high-power relay with power contacts, 3 PDTs, coil voltage: 24 V DC

Plug-in module - RIF-LDP-12-24 DC - 2900939



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with freewheeling diode and yellow LED, polarity: A1+, A2-, input voltage:  $12 \dots 24 \text{ V DC} \pm 20 \text{ \%}$ 

Retaining bracket - RIF-RH-4 - 2900956



Relay retaining bracket, with holder for marking material, suitable for RIF-4 relay base, for high-power relay

#### Approvals

Approvals

Approvals

DNV GL / CSA / EAC

Ex Approvals

Approval details



## Approvals

DNV GL		http://exchange.dnv.com/tari/	TAA000018V
CSA	<b>®</b>	http://www.csagroup.org/services-industries/product-listing/	2607057
EAC	ERE		RU C- DE.A*30.B.01082

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