Relay Module - RIF-3-RSC-LV-120AC/3X21 - 2903299

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The figure shows the 24 V DC version

Pre-assembled relay module with screw connection, consisting of: relay base, power contact relay, plug-in display/interference suppression module, and retaining bracket. Contact type: 3 changeover contacts. Input voltage: 120 V AC

RoHS

Key Commercial Data

Packing unit	1
GTIN	4 046356 732055
GTIN	4046356732055
Custom tariff number	85364900

Technical data

Note

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

Dimensions

Width	40 mm
Height	96 mm
Depth	90 mm

Ambient conditions

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

Coil side

Nominal input voltage U_N	120 V AC

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Technical data

Coil side

Input voltage range in reference to U_N	see diagram
Mains frequency	50 Hz
	60 Hz
Typical input current at U_N	23 mA
Typical response time	5 ms ... 15 ms
Typical release time range	5 ms ... 20 ms
Coil voltage	120 V AC
Protective circuit	Varistor
Operating voltage display	Yellow LED

Contact side

Contact type	3 PDTs
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	10 V (At 24 mA)
Min. switching current	10 mA (at 24 V)
Maximum inrush current	30 A (20 ms, N/O contact)
Limiting continuous current	6 A (see diagram)
Interrupting rating (ohmic load) max.	144 W (at 24 V DC)
	124 W (at 48 V DC)
	108 W (at 60 V DC)
	52 W (at 110 V DC)
	48 W (at 220 V DC)
	1500 VA (for 250 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)

Connection data input side

Connection name	Coil side
Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm² ... 6 mm²
Conductor cross section flexible	0.14 mm² ... 4 mm²

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Technical data

Connection data input side

Conductor cross section AWG	26 ... 10

Connection data output side

Connection name	Contact side
Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm² ... 6 mm²
Conductor cross section flexible	0.14 mm² ... 4 mm²
Conductor cross section AWG	26 ... 10

General

Test voltage relay winding/relay contact	2.5 kV_{rms} (50 Hz, 1 min.)
Test voltage relay contact/relay contact	2 kV_{rms} (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	IP20 (Relay socket)
	RT I (Relay)
Mechanical service life	Approx. 2x 10^7 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

Environmental Product Compliance

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

Drawings

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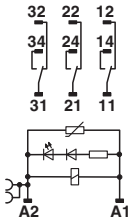
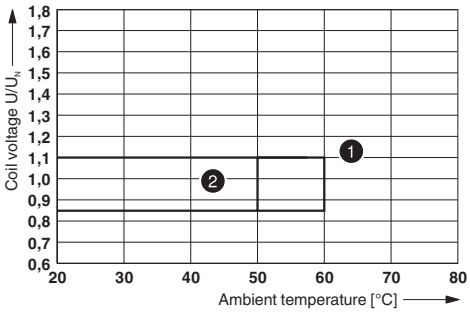
Circuit diagram



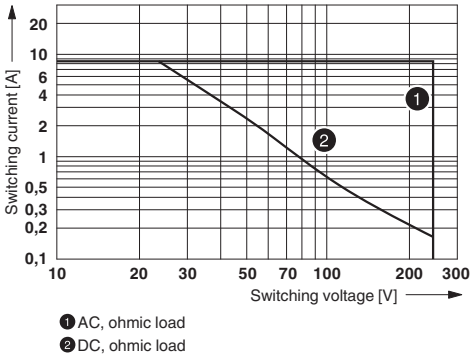
Diagram



AC coils

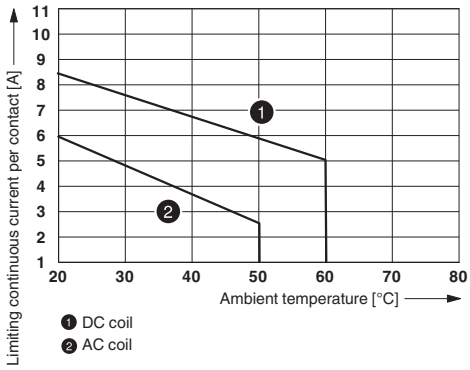
Operating voltage range

Diagram



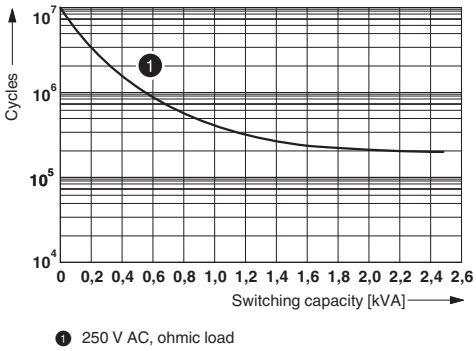
Interrupting rating

Diagram



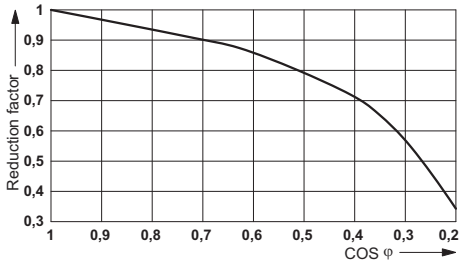
Contact derating

Diagram



Electrical service life

Diagram



Service life reduction factor

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Articles in set

Relay socket - RIF-3-BSC/3X21 - 2900936

RIF-3... relay base, for octal relay with 3 changeover contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

Single relay - REL-OR3/L-120AC/3X21 - 2903695

Pluggable octal relay with power contacts, 3 PDT, test button, mechanical switching position indication, coil voltage 120 V AC

Plug-in module - RIF-V-120-230 UC - 2900948

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

Retaining bracket - RIF-RH-3 - 2900955

Relay retaining bracket, with holder for marking material, suitable for RIF-3 relay base, for octal relay

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