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## Relay Module - RIF-3-RPT-LV-120AC/2X21 - 2903296

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Pre-assembled relay module with push-in connection, consisting of: relay base, power contact relay, plug-in display/suppressor module, and retaining bracket. Contact type: 2 PDTs. Input voltage: 120 V AC

The figure shows the 24 V DC version



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	164.0 GRM
Custom tariff number	85364900
Country of origin	Germany

### Technical data

#### Dimensions

Width	40 mm
Height	103 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
Input voltage range in reference to $U_N$	(see diagram)
Nominal input current at $U_{IN}$	23 mA
Typical response time	5 ms ... 15 ms
Typical release time range	5 ms ... 20 ms
Operating voltage display	Yellow LED

# Relay Module - RIF-3-RPT-LV-120AC/2X21 - 2903296

## Technical data

### Coil side

Protective circuit	Varistor
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### Contact side

Contact type	2 PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	10 V (At 24 mA)
Maximum inrush current	30 A (20 ms, N/O contact)
Min. switching current	10 mA (at 24 V)
Limiting continuous current	7 A (see diagram)
Interrupting rating (ohmic load) max.	168 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)
	1750 VA (for 250 V AC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (24 V (DC13))
	1.5 A (230 V (AC 15))

### Connection data

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

### General

Test voltage relay winding/relay contact	2.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Test voltage relay contact/relay contact	2 kV <sub>rms</sub> (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	IP20 (Relay socket)
	RT I (Relay)

# Relay Module - RIF-3-RPT-LV-120AC/2X21 - 2903296

## Technical data

### General

Mechanical service life	Approx. $2 \times 10^7$ cycles
Standards/regulations	DIN EN 50178
	IEC 62103
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 Module - RIF-3-RPT-LDP-24DC/2X21 - 2903297



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

### Single relay - REL-OR2/L-120AC/2X21 - 2903691



Pluggable octal relay with power contacts, 2 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  $\pm 20\%$

# Relay Module - RIF-3-RPT-LV-120AC/2X21 - 2903296

## Articles in set

Retaining bracket - RIF-RH-3 - 2900955



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

## Classifications

### eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371603
eCl@ss 5.1	27371603
eCl@ss 6.0	27371603
eCl@ss 7.0	27371603
eCl@ss 8.0	27371603

### ETIM

ETIM 3.0	EC001456
ETIM 4.0	EC001456
ETIM 5.0	EC001437

### UNSPSC

UNSPSC 6.01	30211917
UNSPSC 7.0901	39121516
UNSPSC 11	39121516
UNSPSC 12.01	39121516
UNSPSC 13.2	39121516

## Approvals

### Approvals

Approvals

CSA

Ex Approvals

# Relay Module - RIF-3-RPT-LV-120AC/2X21 - 2903296

## Approvals

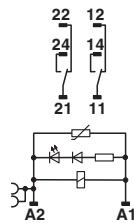
Approvals submitted

## Approval details



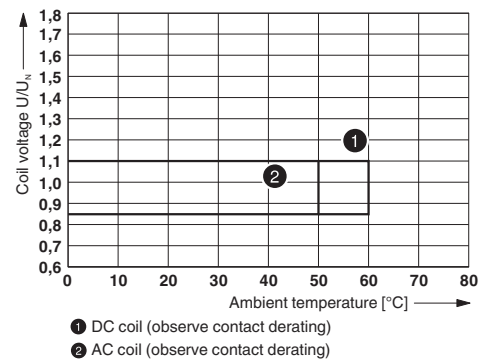
## Drawings

Circuit diagram



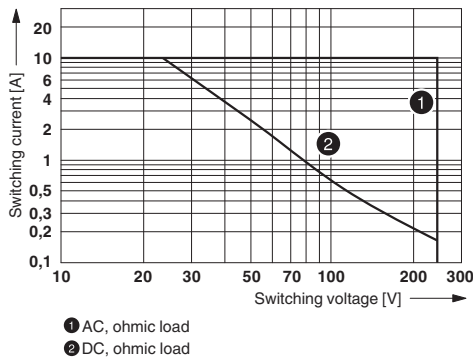
AC coils

Diagram



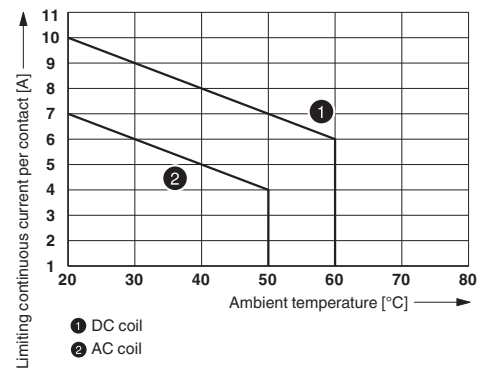
Operating voltage range

Diagram



Interrupting rating

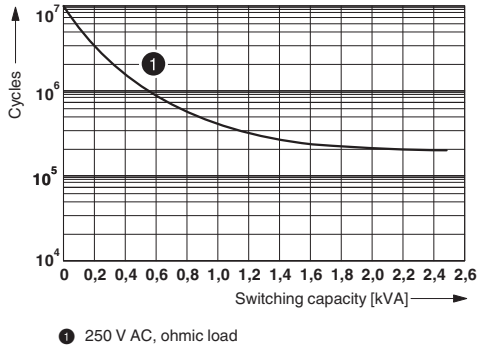
Diagram



Contact derating

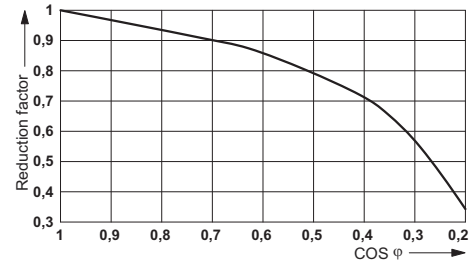
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Diagram



Electrical service life

Diagram



Service life reduction factor