

# Relay Module - RIF-1-RPT-LDP-24DC/1IC - 2909884

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Pre-assembled relay module with Push-in connection, consisting of: relay base, power contact relay, plug-in display/interference suppression module, retaining bracket. Contact type: 1 N/O contact, max. switch-on current up to 130 A peak, 80 A (20 ms) input voltage 24 V DC



## Key commercial data

package_quantity	10
GTIN	4055626405216

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### 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	8 ms
Typical release time	10 ms
Protective circuit	Reverse polarity protection Polarity protection diode
Protective circuit	Free-wheeling diode Damping diode
Operating voltage display	Yellow LED
Power dissipation for nominal condition	0.43 W

### Contact side

Contact type	1 N/O contact
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## Technical data

### Contact side

<b>Type of switch contact</b>	Single contact
<b>Contact material</b>	AgSnO
<b>Maximum switching voltage</b>	250 V AC/DC (The separating plate PLC-ATP should be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or ...FBST 500...)
<b>Minimum switching voltage</b>	12 V AC/DC (at 100 mA)
<b>Min. switching current</b>	100 mA (at 12 V DC)
<b>Maximum inrush current</b>	80 A (for 20 ms)
<b>Maximum inrush current</b>	130 A (peak, at capacitive load, 230 V AC, 24 µF)
<b>Limiting continuous current</b>	6 A
<b>Limiting continuous current</b>	10 A (Value is permissible if connections 11 and 21, as well as connections 14 and 24 are bridged.)
<b>Interrupting rating (ohmic load) max.</b>	144 W (at 24 V DC)
<b>Interrupting rating (ohmic load) max.</b>	58 W (at 48 V DC)
<b>Interrupting rating (ohmic load) max.</b>	48 W (at 60 V DC)
<b>Interrupting rating (ohmic load) max.</b>	50 W (at 110 V DC)
<b>Interrupting rating (ohmic load) max.</b>	80 W (at 220 V DC)
<b>Interrupting rating (ohmic load) max.</b>	85 W (for 250 V DC)
<b>Interrupting rating (ohmic load) max.</b>	1500 VA (for 250 V AC)
<b>Interrupting rating (ohmic load) max. bridged</b>	240 W (for 24 V DC. The value is permissible if both connections 13, both connections 14 and both connections BB are bridged.)
<b>Interrupting rating (ohmic load) max. bridged</b>	2500 VA (for 250 V AC. The value is permissible if both connections 13, both connections 14 and both connections BB are bridged.)
<b>Switching capacity in acc. with DIN VDE 0660/IEC 60947</b>	2 A (at 24 V, DC13)
<b>Switching capacity in acc. with DIN VDE 0660/IEC 60947</b>	0.2 A (at 110 V, DC13)
<b>Switching capacity in acc. with DIN VDE 0660/IEC 60947</b>	0.2 A (at 250 V, DC13)
<b>Switching capacity in acc. with DIN VDE 0660/IEC 60947</b>	6 A (at 24 V, AC15)
<b>Switching capacity in acc. with DIN VDE 0660/IEC 60947</b>	6 A (at 120 V, AC15)
<b>Switching capacity in acc. with DIN VDE 0660/IEC 60947</b>	6 A (at 250 V, AC15)

### Connection data input side

<b>Connection name</b>	Coil side
<b>Connection method</b>	Push-in connection
<b>Stripping length</b>	8 mm
<b>Conductor cross section solid</b>	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
<b>Conductor cross section flexible</b>	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with or without ferrule)
<b>Conductor cross section flexible (2 conductors with same cross section)</b>	0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup> (Ferrule with plastic sleeve)
<b>Conductor cross section flexible (2 conductors with same cross section)</b>	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrules without plastic sleeve)
<b>Conductor cross section AWG</b>	26 ... 16

### Connection data output side

# Relay Module - RIF-1-RPT-LDP-24DC/1IC - 2909884

## Technical data

### Connection data output side

<b>Connection name</b>	Contact side
<b>Connection method</b>	Push-in connection
<b>Stripping length</b>	8 mm
<b>Conductor cross section solid</b>	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
<b>Conductor cross section flexible</b>	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with or without ferrule)
<b>Conductor cross section flexible (2 conductors with same cross section)</b>	0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup> (Ferrule with plastic sleeve)
<b>Conductor cross section flexible (2 conductors with same cross section)</b>	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrules without plastic sleeve)
<b>Conductor cross section AWG</b>	26 ... 16

### General

<b>Type of note</b>	Notes on operation
<b>Note</b>	FBS 2-6... plug-in bridge for the input side (A2) and FBS-2-8... plug-in bridge for the output side (11/21)
<b>Test voltage relay winding/relay contact</b>	4 kV AC (50 Hz, 1 min.)
<b>Operating mode</b>	100% operating factor
<b>Degree of protection</b>	IP20 (Relay socket)
<b>Degree of protection</b>	RT III (Relay)
<b>Mechanical service life</b>	3 x 10 <sup>7</sup> cycles
<b>Flammability rating according to UL 94</b>	V0
<b>Mounting position</b>	any
<b>Assembly instructions</b>	In rows with zero spacing

### Standards and Regulations

<b>Designation</b>	Standards/regulations
<b>Standards/regulations</b>	IEC 60664
<b>Standards/regulations</b>	EN 50178
<b>Rated surge voltage</b>	6 kV
<b>Insulation</b>	Safe isolation, reinforced insulation
<b>Degree of pollution</b>	2
<b>Overvoltage category</b>	III
<b>Flammability rating according to UL 94</b>	V0

## Classifications

### eCl@ss

<b>eCl@ss 5.0</b>	27371601
<b>eCl@ss 5.1</b>	27371601
<b>eCl@ss 6.0</b>	27371601
<b>eCl@ss 7.0</b>	27371601
<b>eCl@ss 8.0</b>	27371601
<b>eCl@ss 9.0</b>	27371601

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## Classifications

### ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437
ETIM 5.0	EC001437
ETIM 6.0	EC001437

## Accessories

### Jumper

FBS 2-6 - 3030336



FBS 2-6 BU - 3036932



FBS 2-6 GY - 3032237



FBS 2-8 - 3030284



## Relay Module - RIF-1-RPT-LDP-24DC/1IC - 2909884

### Accessories

FBS 2-8 BU - 3032567



FBS 2-8 GY 7042 - 3032541



### End block

CLIPFIX 35 - 3022218



### Test plug terminal block

MPS-MT - 0201744



### Insulating sleeve

MPS-IH WH - 0201663



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## Accessories

MPS-IH RD - 0201676



MPS-IH BU - 0201689



MPS-IH YE - 0201692



MPS-IH GN - 0201702



MPS-IH GY - 0201728



MPS-IH BK - 0201731



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## Accessories

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### Terminal marking

ZB 5 :UNBEDRUCKT - 1050004



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ZB 15:UNBEDRUCKT - 0811972



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### Marker carriers

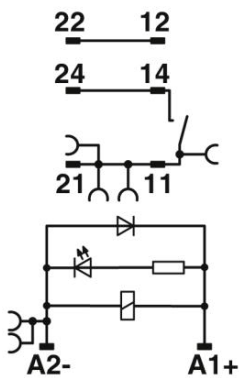
STP 5-2 - 0800967



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## Drawings

Circuit diagram



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