

# RIF-RPT-LDP-24DC/1X2/5X1/AU/FG - Relay module



1732886

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Relay module with Push-in connection, consisting of: relay base with status LED, freewheeling diode, and retaining bracket, safety relay with force-guided contacts in accordance with DIN EN 61810-3, contact switching type: 5 N/O contacts and 1 N/C contact, input voltage: 24 V DC

## Commercial data

Item number	1732886
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C465
Product key	DK652R
GTIN	4067923290846
Weight per piece (including packing)	87 g
Weight per piece (excluding packing)	87 g
Customs tariff number	85364110
Country of origin	CN

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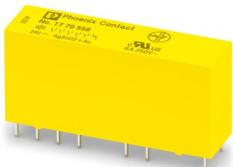
Set consists of

## REL-SR- 24DC/5X1AU/1X2AU/FG - Safety relays

1779558

<https://www.phoenixcontact.com/us/products/1779558>

Safety relay with force-guided contacts in accordance with DIN EN 61810-3, contact switching type: 6 changeover contacts, multi-layer gold contact. The requirements for type A in accordance with DIN EN 61810-3 are satisfied if the circuit is designed as 5 N/O contacts/1 N/C contact.



## Technical data

### Product properties

Product type	Relay Module
Product family	RIFLINE complete
Application	Forcibly guided contacts
Operating mode	100% operating factor
Mechanical service life	approx. $10^7$ cycles
$B_{10d}$	810000 Cycles (AC15, 250 V / 0.5 A, 1 NO) 170000 Cycles (AC15; 250 V / 2 A; 1 NO) 318000 Cycles (DC13, 24 V / 1 A, 1 NO) 208000 Cycles (DC13, 24 V / 2 A, 1 NO)

### Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation Safe isolation, reinforced insulation, and 6 kV between the coil and the contact circuit
Oversupply category	III
Pollution degree	2

### Data management status

Date of last data management	18.09.2025
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### Electrical properties

Maximum power dissipation for nominal condition	0.56 W
Test voltage (Winding/contact)	4 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Test voltage (open contact)	1.5 kV <sub>rms</sub> (50 Hz, 1 min., open contact)
Test voltage ()	2.5 kV <sub>rms</sub> (50 Hz, 1 min, between contacts: 11-12 to 13-14)
Test voltage ()	4 kV <sub>rms</sub> (50 Hz, 1 min., between contacts: all others)

### Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC (Input/output)
Rated surge voltage	6 kV (Input/output)

### Short-circuit protection device

Current	6 A (RT28-32)
Voltage	250 V (SCPD)
Short-circuit current	1 kA (conditional short-circuit current)

### Input data

Coil side	
Nominal operating voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	See derating diagram
Drive and function	monostable
Drive (polarity)	polarized

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Typical input current at $U_N$	21 mA
Input power dissipation for $U_N$	0.5 W
Typical response time	$\leq 20$ ms
Typical release time	$\leq 20$ ms
Coil voltage	24 V DC
Protective circuit	Freewheeling diode
Status display	LED (yellow)

## Output data

### Switching

Contact switching type	5 N/O contacts, 1 N/C contact
Type of switch contact	Single contact
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	250 V AC
	30 V DC
Minimum switching voltage	10 V DC (5 mA)
Limiting continuous current	6 A
Maximum inrush current	35 A (20 ms)
Min. switching current	5 mA (10 V DC)
Interrupting rating (ohmic load) max.	144 W (24 V DC) 180 W (30 V DC) 1500 VA (250 V AC)
Force-guided contacts in accordance with EN 61810-3	Type A
Utilization category CB Scheme (IEC 60947-5-1)	AC15, 2 A/240 V (N/O contact) DC13, 2 A/24 V (N/O contact)

## Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve) 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve, two conductors on double terminal block)
Conductor cross-section AWG	26 ... 16 (solid) 24 ... 16 (flexible)

## Dimensions

Item dimensions	
Width	21 mm
Height	113 mm
Depth	70 mm

## Material specifications

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Flammability rating according to UL 94

V0 (Housing)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Relay)	RT II (Relay)
Degree of protection (Installation location)	IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m

## Approvals

### CE

Identification	CE-compliant
UL, USA/Canada	

Identification

UL/C-UL Listed UL 508

## Standards and regulations

All specifications in accordance with the standard

Standards/regulations	IEC 60947-5-1
	IEC 61810-3

Air clearances and creepage distances between the power circuits

Standards/regulations	EN 61810-1
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## Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1732886>



**cULus Listed**

Approval ID: E172140

## Classifications

### ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

### ETIM

ETIM 9.0	EC001437
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.	

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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