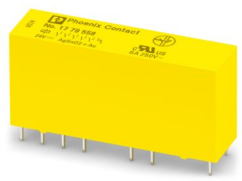
REL-SR- 24DC/5X1AU/1X2AU/FG - Coupling relay

1779558

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

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Coupling 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.

Commercial data

Item number	1779558
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	C465
Product key	DK69DE
GTIN	4067923397309
Weight per piece (including packing)	25.68 g
Weight per piece (excluding packing)	23 g
Customs tariff number	85364110
Country of origin	CN

Technical data

Product properties

Product type	Single relay
Application	Forcibly guided contacts
Set comprises	1732886 RIF-RPT-LDP-24DC/1X2/5X1/AU/FG
Operating mode	100% operating factor
Mechanical service life	approx. 10^7 cycles

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

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Insulation characteristics: Air clearances and creepage distances between coil and contact side

Insulation	Reinforced insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	27.07.2026

Electrical properties

Maximum power dissipation for nominal condition	0.5 W
Test voltage	4 kV_{rms} (50 Hz, 1 min.)
	2.5 kV_{rms} (50 Hz, 1 min.)
	1.5 kV_{rms} (50 Hz, 1 min.)

Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC
Rated surge voltage	4 kV

Air clearances and creepage distances between coil and contact side

Rated insulation voltage	250 V AC
Rated surge voltage	6 kV

Input data

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range	20.4 V DC ... 26.4 V DC
Input voltage range in reference to U_N	see diagram
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U_N	30 mA
Input power dissipation for U_N	0.72 W

Typical response time	15 ms
Typical release time	10 ms
Coil voltage	24 V DC
Protective circuit	Freewheeling diode
Status display	LED (yellow)

Output data

Switching

Contact switching type	2 changeover contacts, forcibly actuated
Type of switch contact	Single contact
Contact material	AgSnO2, +AU
Maximum switching voltage	250 V AC/DC
Limiting continuous current	6 A
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 B

Dimensions

Item dimensions

Width	13 mm
Height	24 mm
Depth	50 mm

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

Standards/regulations	EN 61810-1
	EN 61810-3

Air clearances and creepage distances between the power circuits

Standards/regulations	EN 60947-5-1

Air clearances and creepage distances between coil and contact side

Standards/regulations	EN 60947-5-1

Mounting

Mounting type	Plug-in mounting

Assembly note	in rows with zero spacing
Mounting position	any

Classifications

ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

ETIM

ETIM 10.0	EC001437

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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