

# REL-PR-BL- 24DC/4X21 - Single relay



1157980

<https://www.phoenixcontact.com/in/products/1157980>

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Plug-in power relay, basic version, Plug-in connection, 4 changeover contacts, status display: Green LED, Input voltage: 24 V DC

## Commercial Data

Item number	1157980
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	CK6
Product Key	CK6193
GTIN	4063151160159
Weight per Piece (including packing)	70.96 g
Weight per Piece (excluding packing)	70.96 g
Customs tariff number	85364190
Country of origin	CN

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## Technical Data

### Notes

General	The outputs are not suitable for switching different outer conductors.
General	Do not use to separate SELV / PELV circuits from other circuits, because safe isolation is not guaranteed.

### Product properties

Product type	Single relay
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

### Electrical properties

Maximum power dissipation for nominal condition	1.6 W
Test voltage (Winding/contact)	2 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2 kV <sub>rms</sub> (50 Hz, 1 min., changeover contact/changeover contact)
Test voltage ()	1 kV <sub>rms</sub> (50 Hz, 1 min., open contact)

Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC
Rated surge voltage	4 kV

### Input data

Coil side

Nominal input voltage $U_N$	24 V DC
Input voltage range	18 V DC ... 26.4 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at $U_N$	67 mA
Typical response time	≤ 20 ms
Typical release time	≤ 20 ms
Status display	Green LED

### Output data

Switching

Contact type	4 changeover contacts
Type of switch contact	Single contact
Contact material	AgSnO

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Maximum switching voltage	250 V AC/DC
Minimum switching voltage	17 V (10 mA)
Limiting continuous current	10 A
Min. switching current	10 mA (17 V)
Interrupting rating (ohmic load) max.	240 W (24 V DC)
	150 W (48 V DC)
	120 W (60 V DC)
	100 W (110 V DC)
	100 W (220 V DC)
	2500 VA (250 V DC)
Switching capacity min.	17 mW

## Connection data

Connection method	Plug-in connection
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## Dimensions

Width	41.5 mm
Height	28 mm
Depth	36.5 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Relay)	RT I
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Altitude	≤ 2000 m

## Standards and regulations

Standards/regulations	EN 61810
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### Air clearances and creepage distances between the power circuits

Standards/regulations	IEC 60664
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## Mounting

Mounting type	Plug-in mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

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