

Single relay - REL-IR-BL/L- 12DC/4X21



1109557
<https://www.phoenixcontact.com/in/products/1109557>

Please be informed that the data shown in this PDF document is generated from our Online Catalog. Please find the complete data in the user documentation. Our General Terms of Use for Downloads are valid.



Plug-in industrial relay in basic design with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, polarity A1+, A2-, input voltage: 12 V DC

Commercial Data

Item number	1109557
Packing unit	10 pc
Minimum order quantity	1 pc
Sales Key	CK6
Product Key	CK6193
GTIN	4063151019457
Weight per Piece (including packing)	30.58 g
Weight per Piece (excluding packing)	30.58 g
Customs tariff number	85364900
Country of origin	AT

Single relay - REL-IR-BL/L- 12DC/4X21



1109557

<https://www.phoenixcontact.com/in/products/1109557>

Technical Data

Notes

Notes on operation	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Notes on operation	The outputs are not suitable for switching different outer conductors.
Notes on operation	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	3x 10 ⁷ cycles

Insulation characteristics

Overvoltage category	III
Pollution degree	2
Insulation	Basic insulation

Electrical properties

Service life electrical	see diagram
Test voltage Winding/contact	2.5 kV _{rms} (50 Hz, 1 min., winding/contact)
Test voltage Changeover contact/changeover contact	2 kV _{rms} (50 Hz, 1 min., changeover contact/changeover contact)
Rated insulation voltage	250 V AC
Rated surge voltage	5 kV

Input data

Coil side

Nominal input voltage U _N	12 V DC
Input voltage range	9.6 V DC ... 23.4 V DC (20 °C)
Typical input current at U _N	63 mA
Typical response time	15 ms
Typical release time	10 ms
Coil voltage	12 V DC
Status display	Yellow LED
Coil resistance	192 Ω ±10 %

Output data

Switching

Contact type	4 changeover contacts
Type of switch contact	Single contact
Drive and function	monostable
Contact material	AgNi

Single relay - REL-IR-BL/L- 12DC/4X21



1109557

<https://www.phoenixcontact.com/in/products/1109557>

Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (10 mA)
Limiting continuous current	6 A
Maximum inrush current	12 A (20 ms, N/O contacts)
Min. switching current	10 mA (12 V)
Interrupting rating (ohmic load) max.	144 W (24 V DC)
	130 W (48 V DC)
	90 W (60 V DC)
	66 W (110 V DC)
	88 W (220 V DC)
	1500 VA (250 V AC)
Switching capacity min.	120 mW

Dimensions

Width	22.5 mm
Height	28 mm
Depth	35.5 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	RT II
Degree of protection Installation location	≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	≤ 2000 m

Standards and regulations

Air clearances and creepage distances between coil and contact side

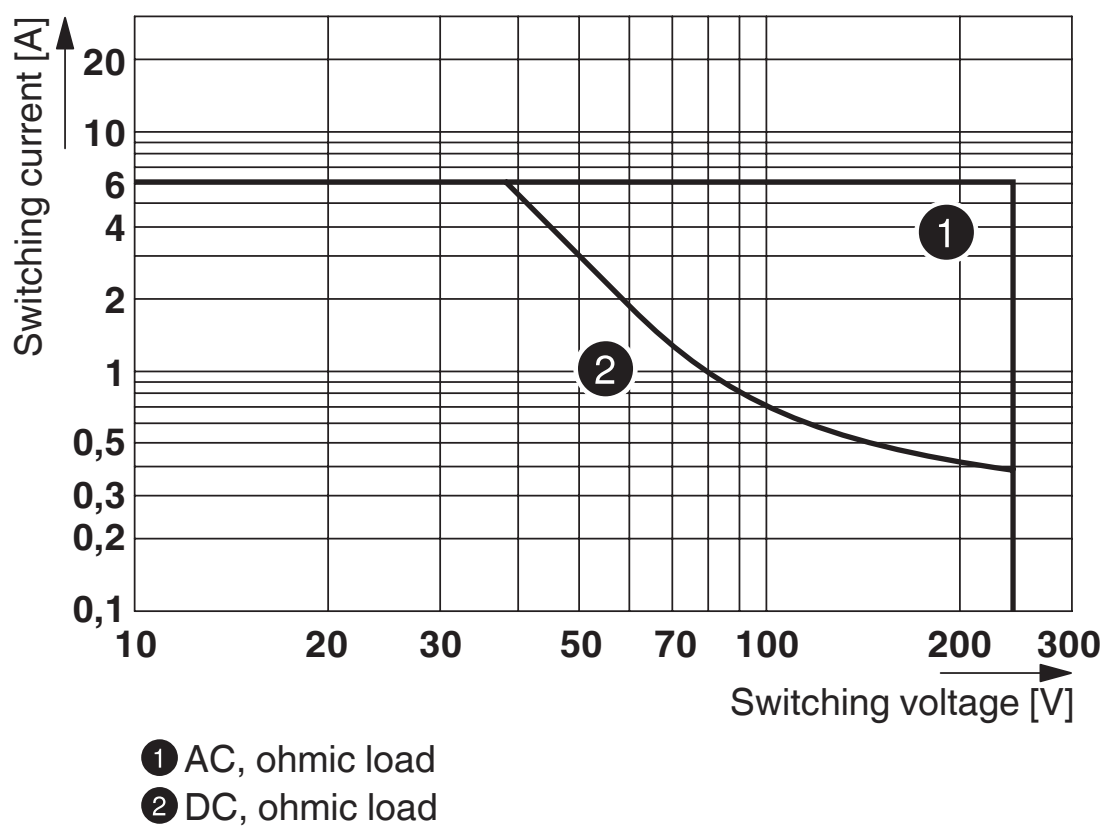
Standards/regulations	EN 61810-1
-----------------------	------------

Mounting

Assembly instructions	in rows with zero spacing
Mounting position	any

Drawings

Diagram



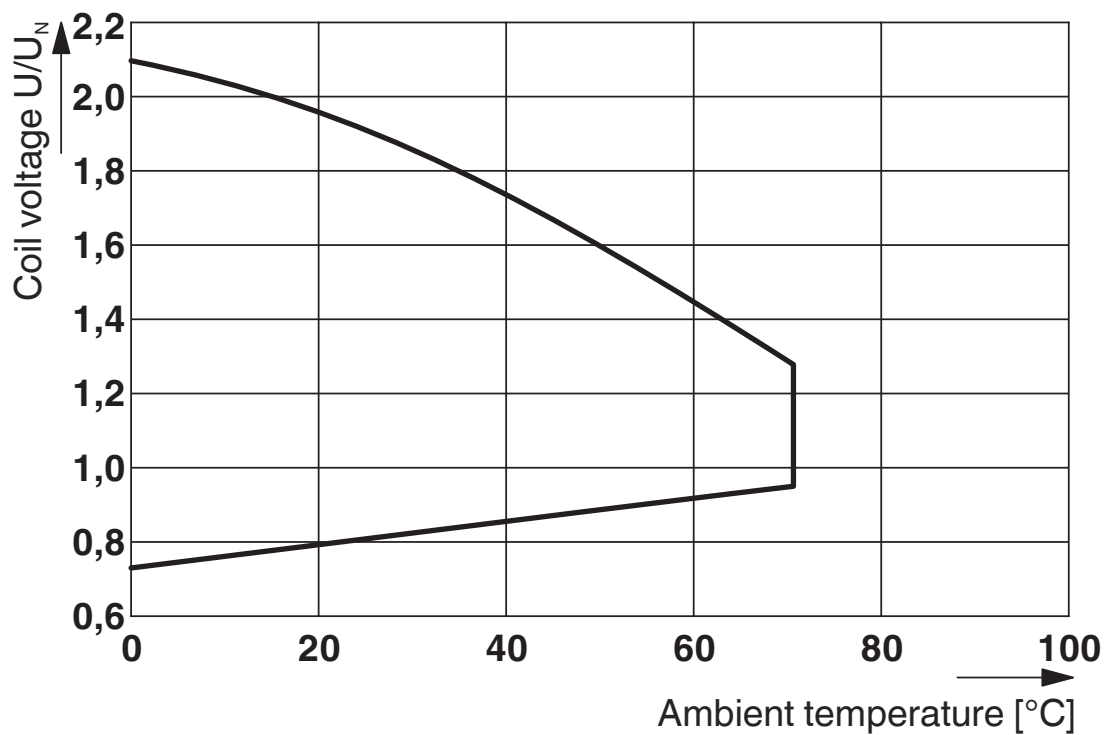
Interrupting rating

Single relay - REL-IR-BL/L- 12DC/4X21

1109557

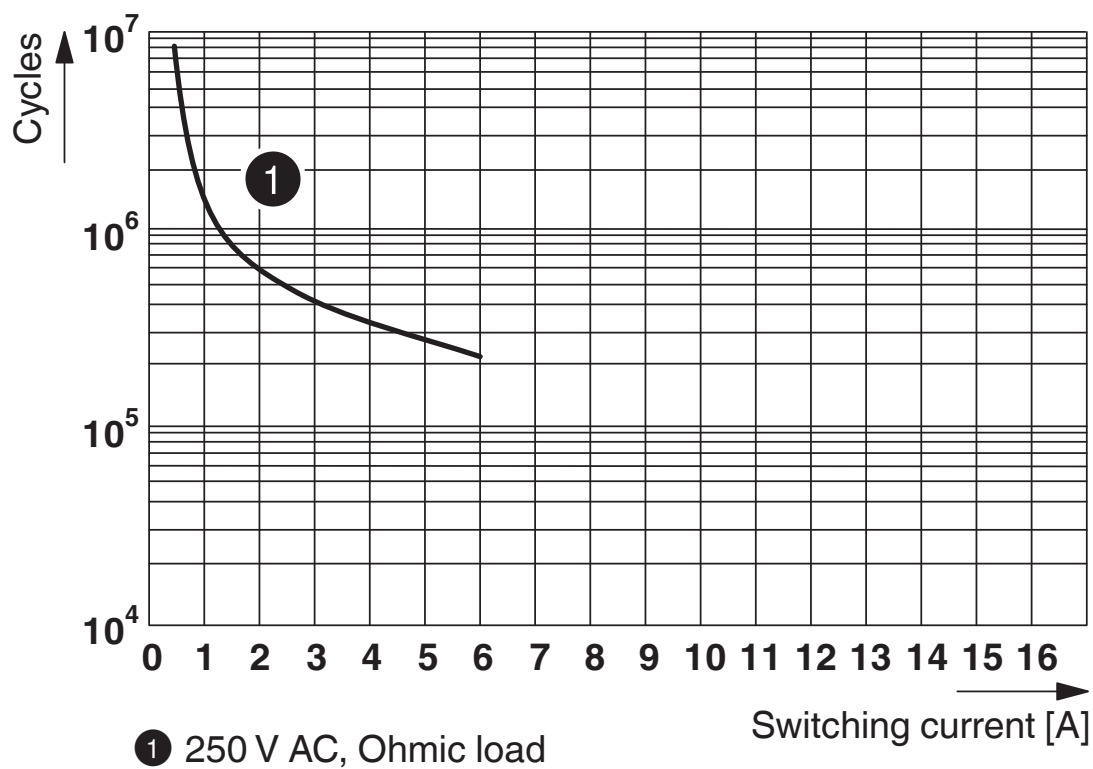
<https://www.phoenixcontact.com/in/products/1109557>

Diagram



Operating voltage range

Diagram



Electrical service life

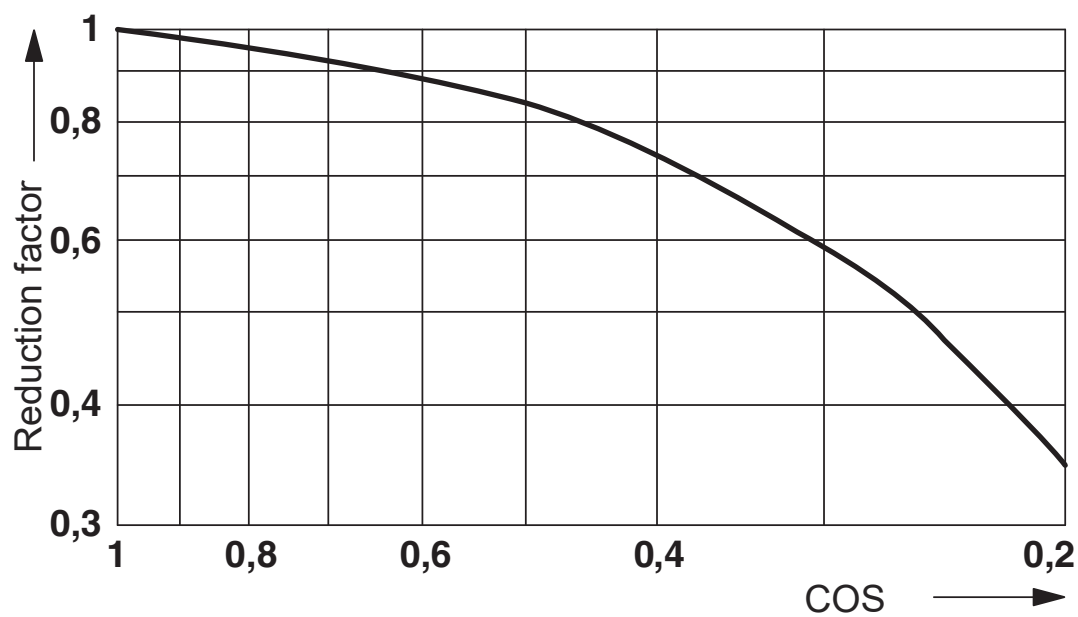
Single relay - REL-IR-BL/L- 12DC/4X21



1109557

<https://www.phoenixcontact.com/in/products/1109557>

Diagram



Service life reduction factor

Single relay - REL-IR-BL/L- 12DC/4X21



1109557

<https://www.phoenixcontact.com/in/products/1109557>

Approvals



cUL Recognized

Approval ID: FILE E 228652



UL Recognized

Approval ID: FILE E 228652

cULus Recognized

Single relay - REL-IR-BL/L- 12DC/4X21



1109557

<https://www.phoenixcontact.com/in/products/1109557>

Classifications

ECLASS

ECLASS-9.0	27371601
ECLASS-10.0.1	27371601
ECLASS-11.0	27371601

ETIM

ETIM 8.0	EC001437
----------	----------

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

Single relay - REL-IR-BL/L- 12DC/4X21



1109557

<https://www.phoenixcontact.com/in/products/1109557>

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Single relay - REL-IR-BL/L- 12DC/4X21



1109557

<https://www.phoenixcontact.com/in/products/1109557>

Accessories

Relay base

Relay base - ECOR-2-BSC2-RT/4X21 - 2908214

<https://www.phoenixcontact.com/in/products/2908214>

ECOR-2 relay base, for industrial relays with four changeover contacts, bolt connection, for mounting on NS 35/7,5



Relay base

Relay base - ECOR-2-BSC3/4X21 - 2907521

<https://www.phoenixcontact.com/in/products/2907521>

ECOR-2 relay base, for industrial relay with 2 or 4 changeover contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5



Phoenix Contact 2023 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

info@phoenixcontact.co.in