

1032521

https://www.phoenixcontact.com/us/products/1032521

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 key, mechanical switch position indicator, polarity A1+, A2-, input voltage: 24 V DC

Commercial data

Item number	1032521
Packing unit	1 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	CK6193
GTIN	4055626536941
Weight per piece (including packing)	31.236 g
Weight per piece (excluding packing)	22.39 g
Customs tariff number	85364900
Country of origin	AT



https://www.phoenixcontact.com/us/products/1032521



Technical data

Notes

General	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
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	3x 10 ⁷ cycles

Insulation characteristics

Insulation	Basic insulation
------------	------------------

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

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	741 mW
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)

Air clearances and creepage distances between coil and contact side

Rated insulation voltage	250 V AC
Rated surge voltage	5 kV

Input data

Coil side

Nominal input voltage U _N	24 V DC
Input voltage range	19.2 V DC 46.8 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U _N	31 mA
Typical response time	15 ms
Typical release time	10 ms
Coil voltage	24 V DC

Output data



https://www.phoenixcontact.com/us/products/1032521



Switching

Contact switching type	4 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
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

Connection data

Cross section AWG	(converted acc. to IEC)
Connection method	Plug-in connection

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

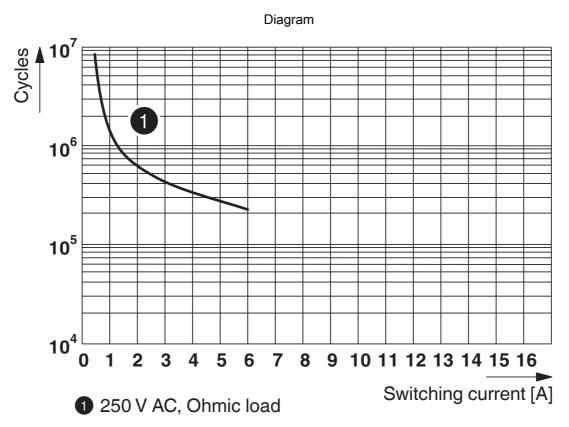
Mounting type	Plug-in mounting
Assembly instructions	in rows with zero spacing
Mounting position	any



https://www.phoenixcontact.com/us/products/1032521



Drawings

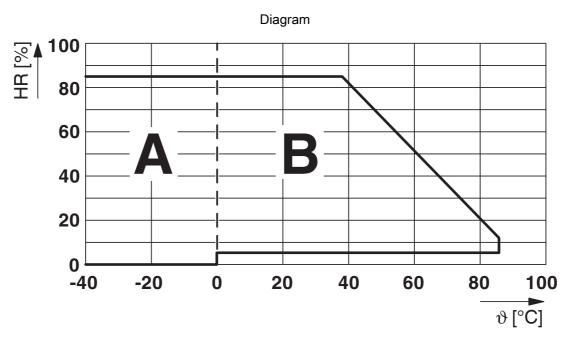


Electrical service life



1032521

https://www.phoenixcontact.com/us/products/1032521



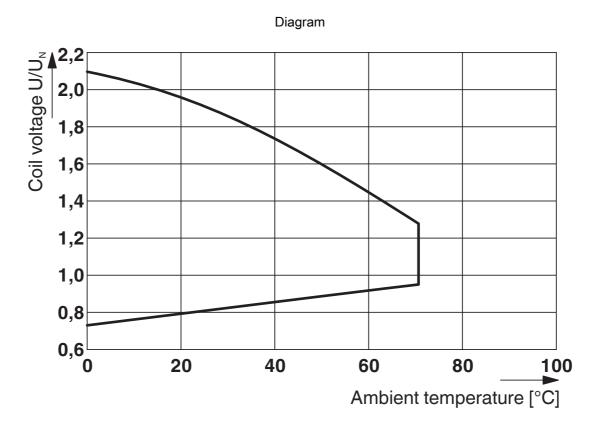
Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures ≤ 0°C must be prevented

Area B: Condensation at ambient temperatures > 0°C must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature \leq 25°C.



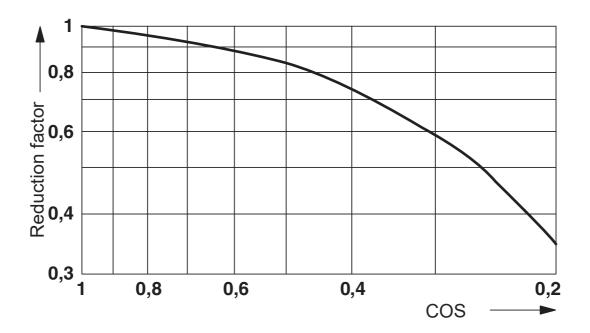
Operating voltage range



https://www.phoenixcontact.com/us/products/1032521



Diagram

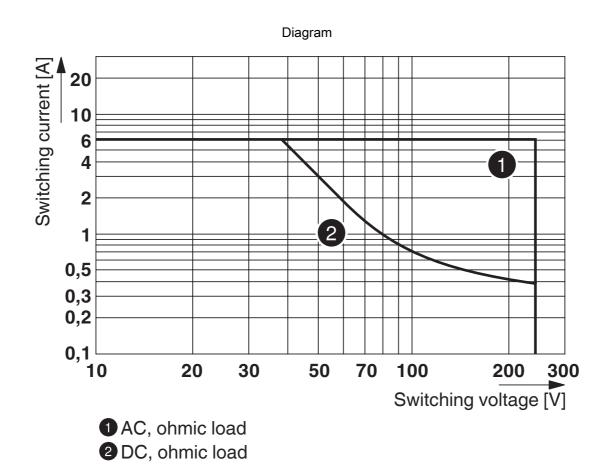


Service life reduction factor



1032521

https://www.phoenixcontact.com/us/products/1032521



Interrupting rating



1032521

https://www.phoenixcontact.com/us/products/1032521

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1032521



cUL Recognized

Approval ID: FILE E 228652



UL Recognized

Approval ID: FILE E 228652



EAC

Approval ID: TR_TS_D_00573_c

cULus Recognized



1032521

https://www.phoenixcontact.com/us/products/1032521

Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27371601	
	ECLASS-12.0	27371601	
	ECLASS-13.0	27371601	
ETIM.			
ETIM			
	ETIM 8.0	EC001437	
UNSPSC			
310.00			

39122300



https://www.phoenixcontact.com/us/products/1032521



Environmental product compliance

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



https://www.phoenixcontact.com/us/products/1032521



Mandatory accessories

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

2908214

https://www.phoenixcontact.com/us/products/2908214



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

ECOR-2-BSC3/4X21 - Relay base

2907521

https://www.phoenixcontact.com/us/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 USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com