

1308302

https://www.phoenixcontact.com/us/products/1308302

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 miniature relay with mechanical switching position indicator, FASTON connection, 1 changeover contact, status display: LED (yellow), Freewheeling diode, Input voltage: 24 V DC

Commercial data

Item number	1308302
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	CKF933
GTIN	4063151558819
Weight per piece (including packing)	27.66 g
Weight per piece (excluding packing)	27.66 g
Customs tariff number	85364190
Country of origin	CN



1308302

https://www.phoenixcontact.com/us/products/1308302

Technical data

Notes

Notes on operation	Do not use to separate SELV/PELV circuits from other circuits, because safe isolation is not guaranteed. (applies to the optocoupler variants)
Notes on operation	The system installer must ensure the touch protection of the product (at voltages > 25 V AC/60 V DC). The product is a built-in device without protection against direct contact.

Product properties

Product type	Single relay
Product family	ESSENTIAL edition
Operating mode	100% operating factor
Mechanical service life	approx. 5x 10 ⁷ cycles
Relay type	Electromechanical relay

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

Insulation	Basic insulation
Overvoltage category	II
Pollution degree	3

Data management status

Date of last data management	12.11.2024

Electrical properties

Maximum power dissipation for nominal condition	0.64 W
Test voltage (Winding/contact)	5 kV _{rms} (50 Hz, 1 min., winding/contact)
Test voltage ()	1 kV _{rms} (50 Hz, 1 min., open contact)

Air clearances and creepage distances between the power circuits

1 0	
Rated insulation voltage	250 V AC
Rated surge voltage	2.5 kV

Input data

Coil side

Nominal input voltage U _N	24 V DC
Input voltage range	16.8 V DC 26.4 V DC
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U _N	24 mA
Input power dissipation for U_N	0.58 W
Typical response time	2 ms 10 ms
Typical release time range	5 ms 20 ms
Protective circuit	Freewheeling diode
Status display	LED (yellow)



1308302

https://www.phoenixcontact.com/us/products/1308302

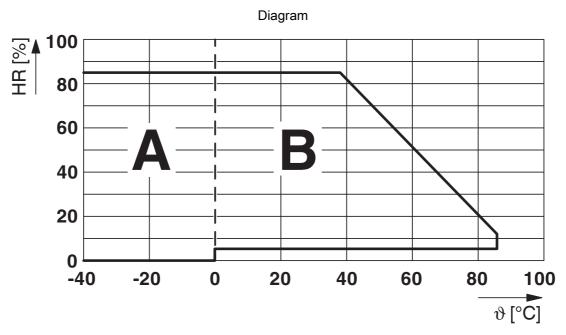
Outherstate	4000 0 140 %
Coil resistance	1080 Ω ±10 %
Output data	
Switching	
Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC
Maximum Switching Voltage	30 V DC
Minimum switching voltage	5 V (100 mA)
Limiting continuous current	12 A
Maximum inrush current	24 A (20 ms, N/O contacts)
Inrush current, minimum	100 mA (5 V)
Interrupting rating (ohmic load) max.	
interrupting rating (online load) max.	288 W (24 V DC)
	360 W (30 V DC) 3000 VA (250 V AC)
	3000 VA (230 V AC)
onnection data	
Connection method	FASTON connection
imensions	
Width	13 mm
Height	31.1 mm
Depth	35 mm
nvironmental 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 70 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Altitude	≤ 2000 m
tandards and regulations	
Standards/regulations	IEC 61810-1
	IEC 60664-1
Air clearances and creepage distances between the power of	circuits
Standards/regulations	IEC 60664-1
Otalidal do/legulations	ILO 00004-1
lounting	
Mounting position	any



1308302

https://www.phoenixcontact.com/us/products/1308302

Drawings



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

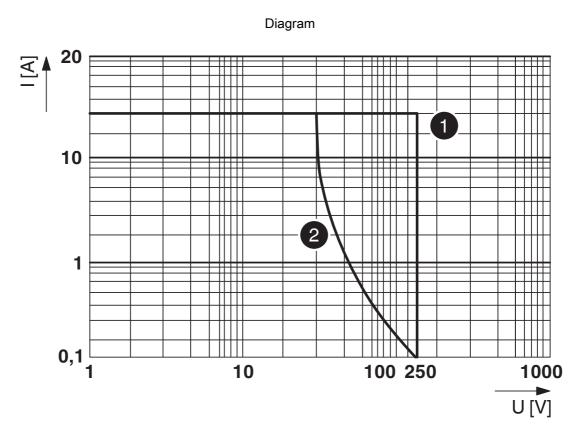
Area B: Condensation at ambient temperatures > 0°C must be prevented

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



1308302

https://www.phoenixcontact.com/us/products/1308302

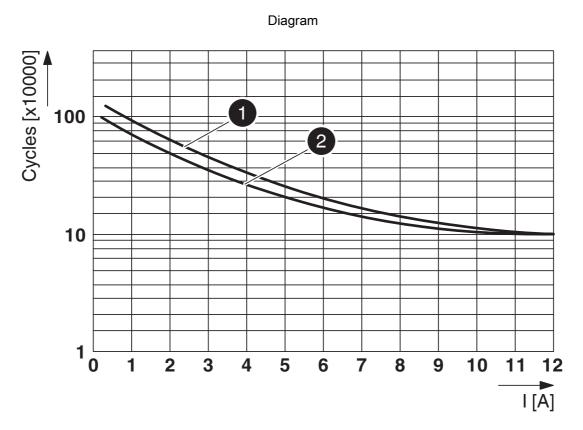


Interrupting rating 1) AC, ohmic load 2) DC, ohmic load



1308302

https://www.phoenixcontact.com/us/products/1308302



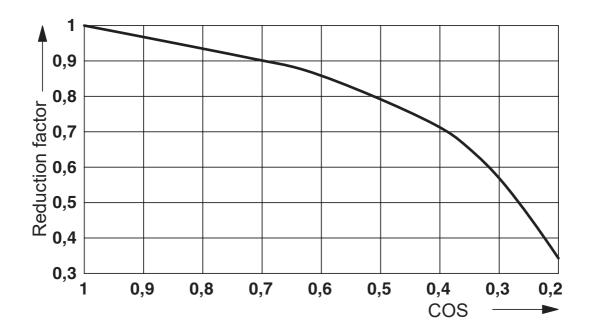
Electrical service life
1) 30 V DC resistance load
2) 250 V AC resistance load



1308302

https://www.phoenixcontact.com/us/products/1308302

Diagram

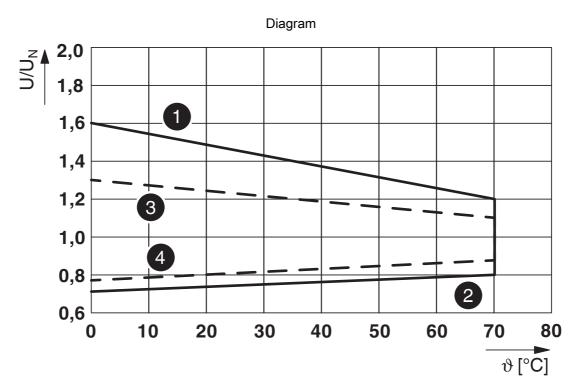


Service life reduction factor with various cos phi



1308302

https://www.phoenixcontact.com/us/products/1308302



- 1) DC coil: maximum continuous voltage at limiting continuous current
- 2) DC coil: minimum operate voltage for pre-excitation with UN and limiting continuous current
- 3) AC coil: maximum continuous voltage at limiting continuous current
- 4) AC coil: minimum operate voltage for pre-excitation with UN and limiting continuous current



1308302

https://www.phoenixcontact.com/us/products/1308302

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1308302



cUL RecognizedApproval ID: FILE E 172140



UL RecognizedApproval ID: FILE E 172140

cULus Recognized



1308302

https://www.phoenixcontact.com/us/products/1308302

Classifications

ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

ETIM

ETIM 9.0	EC001437	



1308302

https://www.phoenixcontact.com/us/products/1308302

Environmental product compliance

EU RoHS

20 (0)	
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%

Phoenix Contact 2024 @ - 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