

1308302

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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	DKF933
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 <sup>7</sup> 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	09.04.2025
Date of last data management	09.04.2023

#### Electrical properties

Maximum power dissipation for nominal condition	0.64 W
Test voltage (Winding/contact)	5 kV <sub>rms</sub> (50 Hz, 1 min., winding/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	2.5 kV

### Input data

### Coil side

Nominal input voltage U <sub>N</sub>	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 <sub>N</sub>	24 mA
Input power dissipation for U <sub>N</sub>	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

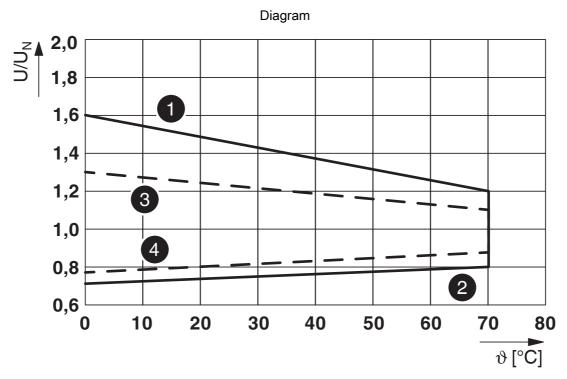
	4000 0 - 40 %	
Coil resistance	1080 Ω ±10 %	
Output data		
0. (1.1)		
Switching Contact switching type	1 changeover contact	
Contact switching type	1 changeover contact	
Type of switch contact	Single contact	
Contact material	AgSnO	
Maximum switching voltage	250 V AC	
A	30 V DC	
Minimum switching voltage	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.	288 W (24 V DC)	
	360 W (30 V DC)	
	3000 VA (250 V AC)	
Connection data		
Connection method	FASTON connection	
Dimensions		
Width	13 mm	
Height	31.1 mm	
Depth	35 mm	
Environmental and real-life conditions		
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 70 °C	
Ambient temperature (storage/transport)	-40 °C 70 °C	
Altitude	≤ 2000 m	
Standards and regulations		
-		
Standards/regulations	IEC 61810-1	
	IEC 60664-1	
Air clearances and creepage distances between the power circuits		
Standards/regulations	IEC 60664-1	
Mounting		
Mounting		
Mounting position	any	



1308302

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## **Drawings**

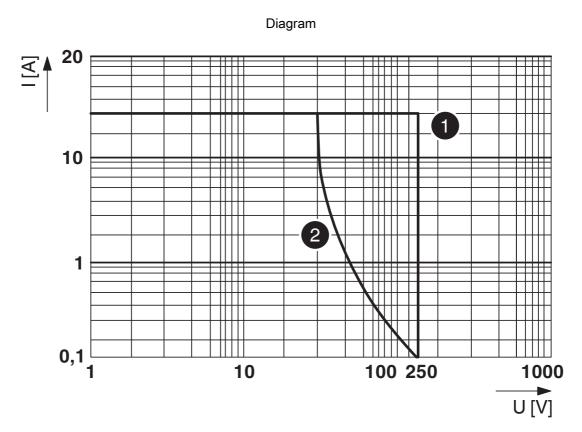


- 1) DC coil: maximum continuous voltage at limiting continuous current
- 2) DC coil: minimum operate voltage for pre-excitation with UN and limiting continuous current
- 3) AC coil: maximum continuous voltage at limiting continuous current
- 4) AC coil: minimum operate voltage for pre-excitation with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



1308302

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

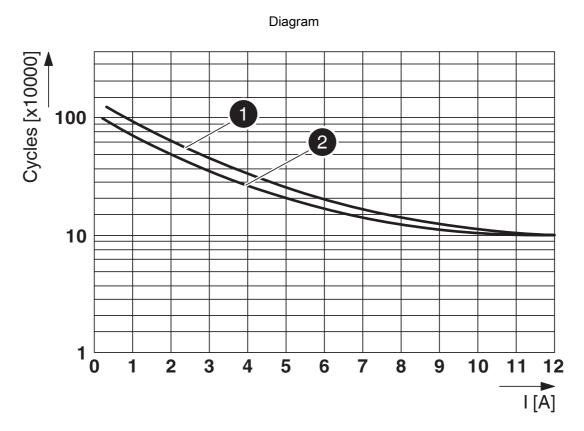


Interrupting rating 1) AC, ohmic load 2) DC, ohmic load



1308302

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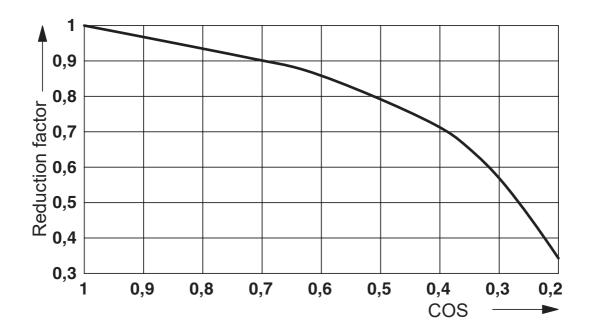
Electrical service life
1) 30 V DC resistance load
2) 250 V AC resistance load



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### Diagram

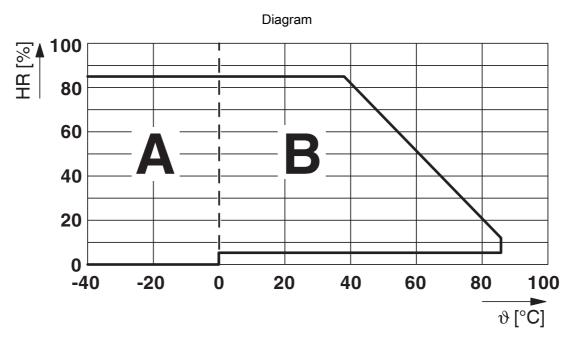


Service life reduction factor with various cos phi



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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

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### **Approvals**

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cUL Recognized

Approval ID: FILE E 172140



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## Classifications

#### **ECLASS**

	ECLASS-13.0	27371601
ΕT	TIM	
	ETIM 9.0	EC001437



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## Environmental product compliance

EU R	oHS
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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%



1308302

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### Mandatory accessories

ECOR-1-BSC2/FO/1X21 - Relay base

1308331

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ECOR-1 relay base, for FASTON relay, Fork-type cable lug, 1 changeover contact, Input voltage 230 V AC



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