

1308298

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Plug-in miniature relay with mechanical switching position indicator, FASTON connection, 2 changeover contacts, status display: LED (yellow), Freewheeling diode, Input voltage: 24 V DC

#### Commercial data

Item number	1308298
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	CKF937
GTIN	4063151558628
Weight per piece (including packing)	27.08 g
Weight per piece (excluding packing)	27.08 g
Customs tariff number	85364190
Country of origin	CN



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#### 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 outputs are not suitable for switching different outer conductors.
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	12.11.2024
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#### 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 (Changeover contact/changeover contact)	3 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	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



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Typical release time range	5 ms 20 ms
Protective circuit	Freewheeling diode
Status display	LED (yellow)
Coil resistance	1080 Ω ±10 %

#### Output data

#### Switching

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC
	30 V DC
Minimum switching voltage	5 V (10 mA)
Limiting continuous current	8 A
Maximum inrush current	16 A (20 ms, N/O contacts)
Inrush current, minimum	10 mA (5 V)
Interrupting rating (ohmic load) max.	192 W (24 V DC)
	240 W (30 V DC)
	2000 VA (250 V AC)

#### Connection data

Connection method FASTON connection
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#### **Dimensions**

Width	13 mm
Height	31.1 mm
Depth	34 mm

#### 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



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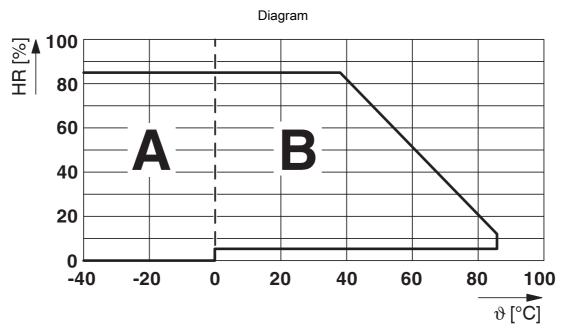
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### **Drawings**



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

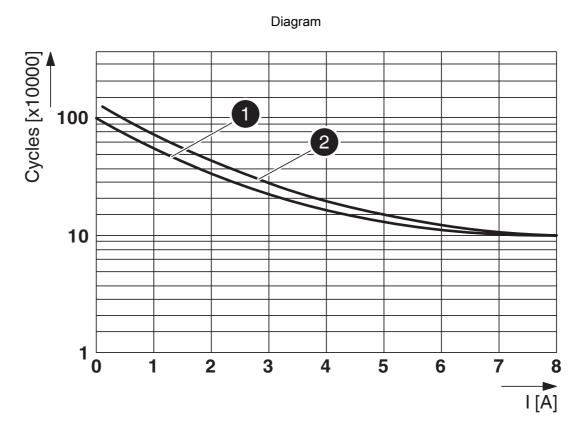
Area B: Condensation at ambient temperatures > 0°C must be prevented

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.



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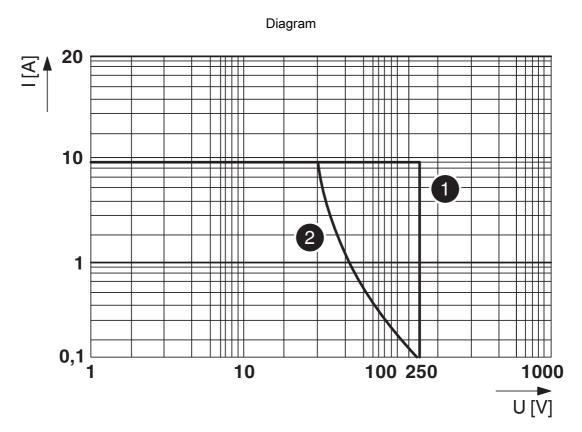


Electrical service life
1) 30 V DC resistance load
2) 250 V AC resistance load



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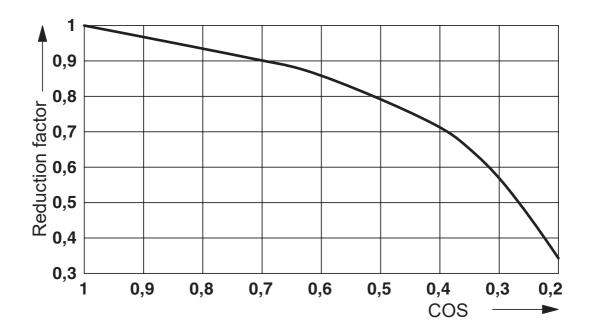
Interrupting rating 1) AC, ohmic load 2) DC, ohmic load



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#### Diagram

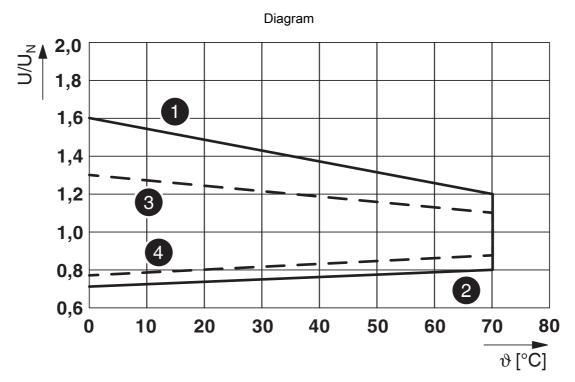


Service life reduction factor with various cos phi



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- 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



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#### **Approvals**

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Approval ID: FILE E 172140



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### Classifications

#### **ECLASS**

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

#### **ETIM**

ETIM 9.0	EC001437



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### Environmental product compliance

#### EU RoHS

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%		

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