

1109544

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Pluggable miniature power relay in basic design, with power contact, 2 changeover contacts, input voltage 48 V DC

Commercial data

Item number	1109544
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	C460
Product key	DKF935
GTIN	4063151021436
Weight per piece (including packing)	14.24 g
Weight per piece (excluding packing)	15 g
Customs tariff number	85364900
Country of origin	AT



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Technical data

Product properties

Product type	Single relay
Product family	ESSENTIAL edition
Operating mode	100% operating factor
Mechanical service life	3x 10 ⁷ cycles
Insulation characteristics	Postato Julia
Insulation	Basic insulation
Overvoltage category	III
Pollution degree	3
Data management status	
Date of last data management	05.09.2025

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.4 W
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min.)
Test voltage (Contact/contact)	2.5 kV AC (50 Hz, 1 min.)
Test voltage (open contact)	1 kV (50 Hz, 1 min.)
Rated insulation voltage	250 V AC
Rated surge voltage	4 kV

Input data

Coil side

Nominal input voltage $\mathbf{U}_{\mathbf{N}}$	48 V DC
Input voltage range	33.6 V DC 108 V DC
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U _N	8.7 mA
Typical response time	8 ms
Typical release time	6 ms
Coil voltage	48 V DC
Coil resistance	5.5 kΩ ±10 %

Output data

Switching

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC



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Minimum switching voltage	5 V (at 10 mA)
Limiting continuous current	8 A
Maximum inrush current	12 A (20 ms)
Min. switching current	10 mA (At 5 V)
Interrupting rating (ohmic load) max.	190 W (at 24 V DC)
	85 W (at 48 V DC)
	60 W (at 60 V DC)
	44 W (at 110 V DC)
	60 W (at 220 V DC)
	2000 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	1.5 A (at 230 V, AC15)

Connection data

Connection method	Plug / solder connection
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Dimensions

Dimensional drawing	29 12.7
Width	12.7 mm
Height	29 mm
Depth	15.7 mm

Material specifications

Environmental and real-life conditions

Ambient conditions

Degree of protection	RT II
Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

Standards and regulations

Standards/regulations	IEC 60664
	EN 61810-1

Mounting

Mounting type	Plug-in mounting
Mounting position	any

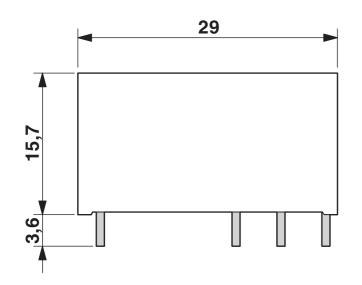


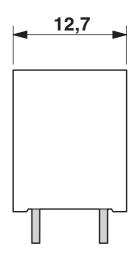
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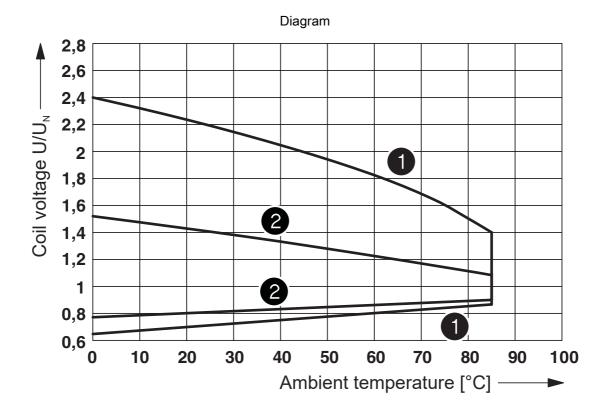
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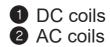
Drawings

Dimensional drawing







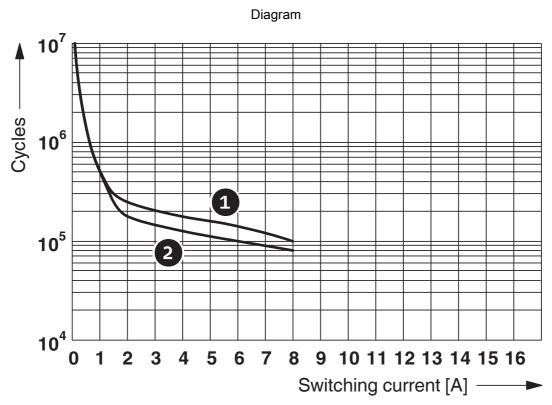


Operating voltage range



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- 1 250 V AC, ohmic load (DC coils)
- 2 250 V AC, ohmic load (AC coils)

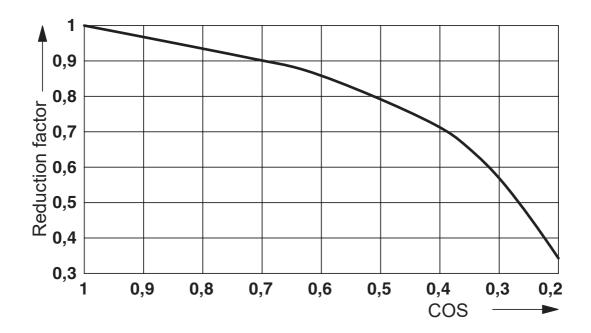
Electrical service life



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Diagram

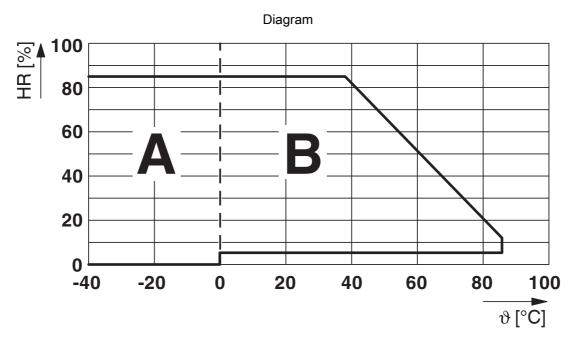


Service life reduction factor with various cos phi



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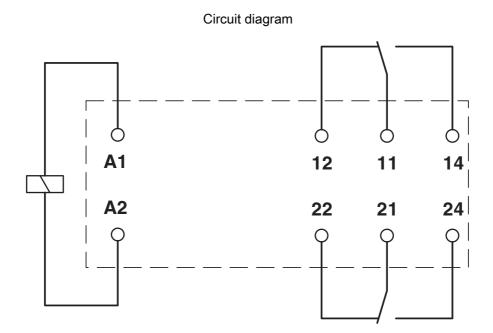
Permissible humidity for operation and storage.

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

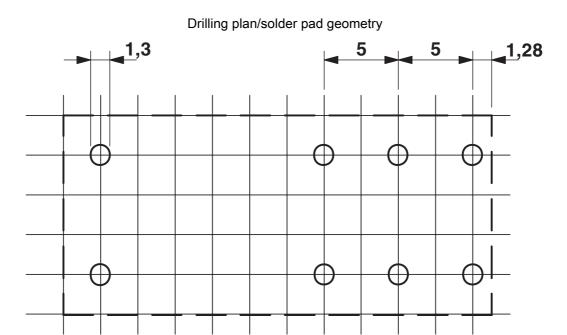
On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature \leq 25°C.





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Basic pitch 2.5 mm



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Approvals

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cUL Recognized

Approval ID: FILE E 228652



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Classifications

ECLASS

	ECLASS-13.0	27371601	
	ECLASS-15.0	27371601	
ETIM			
	ETIM 9.0	EC001437	
UNSPSC			
	UNSPSC 21.0	39122300	



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Environmental product compliance

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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Mandatory accessories

ECOR-1-BSC2-RT/2X21 - Relay base

1027546

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ECOR-1... relay base, for miniature power relays or miniature switching relays with 1 or 2 changeover contacts, bolt connection, for mounting on NS 35/7,5.

ECOR-1-BSC3/2X21 - Relay base

2907518

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ECOR-1... relay base, for miniature power relay or miniature switching relay with 1 or 2 changeover contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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