2961231

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Plug-in miniature relay, with power contact, 1 changeover contact, input voltage 48 V DC



Your advantages

- · Safe isolation between coil and contact side
- · High degree of protection up to RT III depending on type (wash-proof)
- Power contacts up to 6 A

Commercial data

Item number	2961231
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	DK6921
Product key	DK6921
GTIN	4046356294317
Weight per piece (including packing)	6.79 g
Weight per piece (excluding packing)	6.79 g
Customs tariff number	85364190
Country of origin	CZ

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Technical data

Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	2x 10 ⁷ cycles
Insulation characteristics	
Overvoltage category	III
Pollution degree	3
Data management status	
Date of last data management	28.03.2025
lectrical properties	
Maximum power dissipation for nominal condition	0.22 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)

Input data

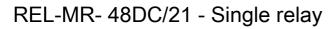
Coil side

Nominal input voltage U _N	48 V DC
Input voltage range	28.8 V DC 132 V DC
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U _N	4.5 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	10618 Ω ±10 % (at 20 °C)

Output data

Switching

-	
Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Maximum inrush current	10 A (4 s)
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)



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	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)

Connection data

Connection method	Plug / solder connection
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Dimensions

Dimensional drawing	
Width	5 mm
Height	28 mm
Depth	15 mm

Material specifications

Color	white (RAL 9010)

Environmental and real-life conditions

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

Approvals

Corrosive	gas test	
001103100	gas icsi	

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

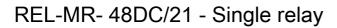
Standards and regulations

Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1

Mounting

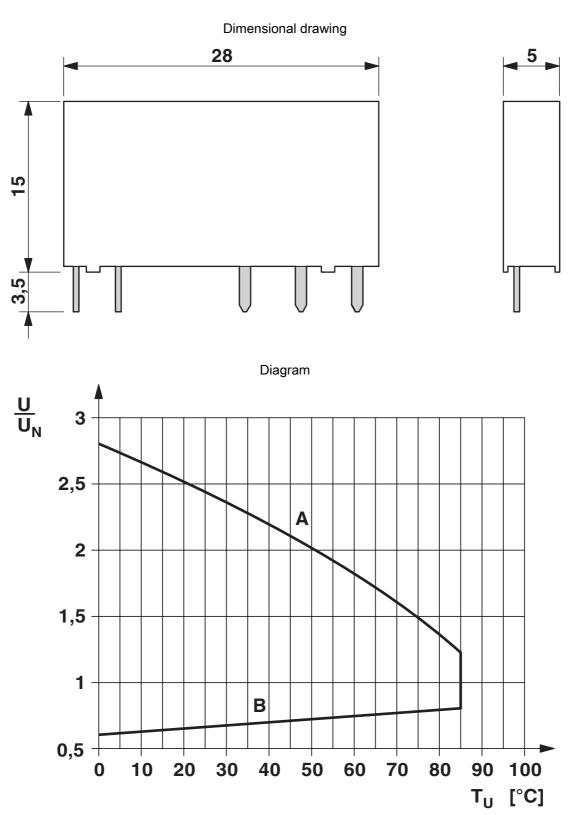
Assembly note	in rows with zero spacing
Mounting position	any

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Drawings



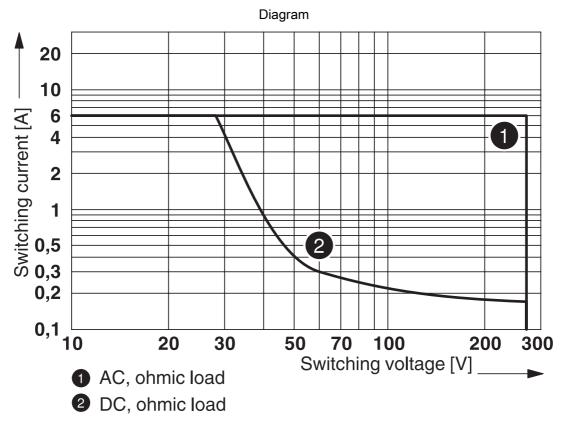
Operating voltage range

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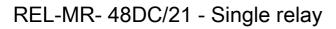


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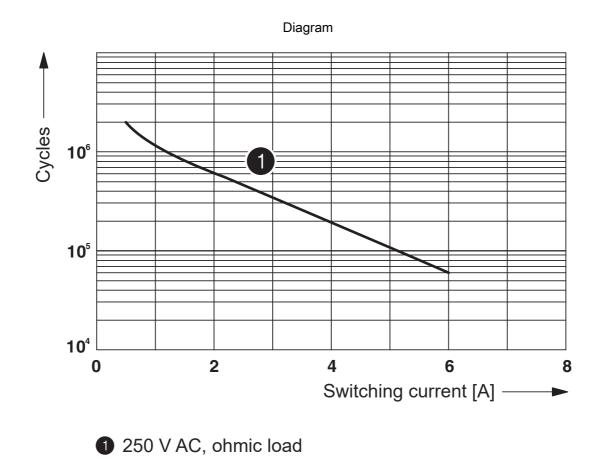


Interrupting rating





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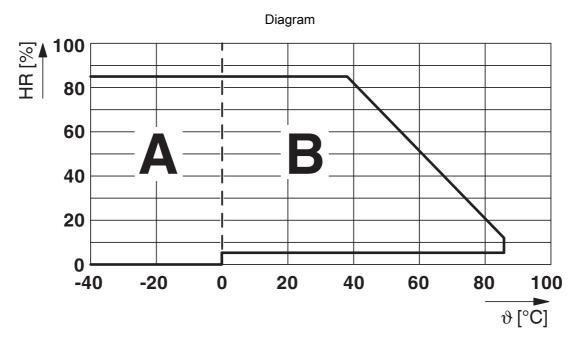


Electrical service life



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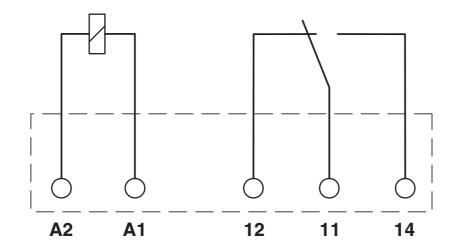
Permissible humidity for operation and storage.

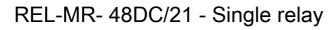
The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures $\leq 0^{\circ}$ 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.

Circuit diagram

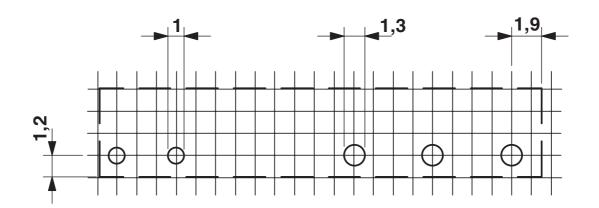






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Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

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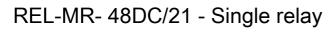
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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/2961231

17.	CUL Recognized Approval ID: FILE E 172140
<i>91</i>	UL Recognized Approval ID: FILE E 172140
ERC	EAC Approval ID: RU*C-DE.*08.B.00010
91	UL Recognized Approval ID: FILE E 172140
	VDE approval of drawings Approval ID: 40032864
	VDE approval of drawings Approval ID: 40054426
17%	CUL Recognized Approval ID: FILE E 172140
	VDE approval of drawings Approval ID: 40010212
17.	CUL Recognized Approval ID: FILE E 172140
F/	UL Recognized Approval ID: FILE E 172140

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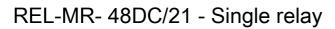
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Classifications

ECLASS

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



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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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