

REL-MR- 24DC/21 - Single relay

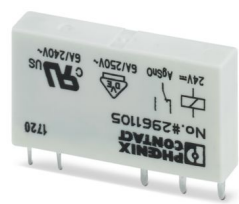


2961105

<https://www.phoenixcontact.com/us/products/2961105>

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Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 24 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	2961105
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	DK6921
GTIN	4017918130893
Weight per piece (including packing)	6.71 g
Weight per piece (excluding packing)	5 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	19.03.2025
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Electrical properties

Maximum power dissipation for nominal condition	0.17 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)

Input data

Coil side

Nominal input voltage U _N	24 V DC
Input voltage range	14.4 V DC ... 66 V DC
Input voltage range in reference to U _N	see diagram
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U _N	7 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	3390 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)

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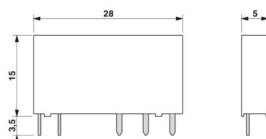
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Switching capacity	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
Motor load according to UL 508	3 A (at 230 V, AC15)
	1/4 HP, 240 - 277 V AC (N/O contact)
	1/6 HP, 240 - 277 V AC (N/C contact)

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)
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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

Standards and regulations

Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1

Mounting

Assembly note	in rows with zero spacing
Mounting position	any

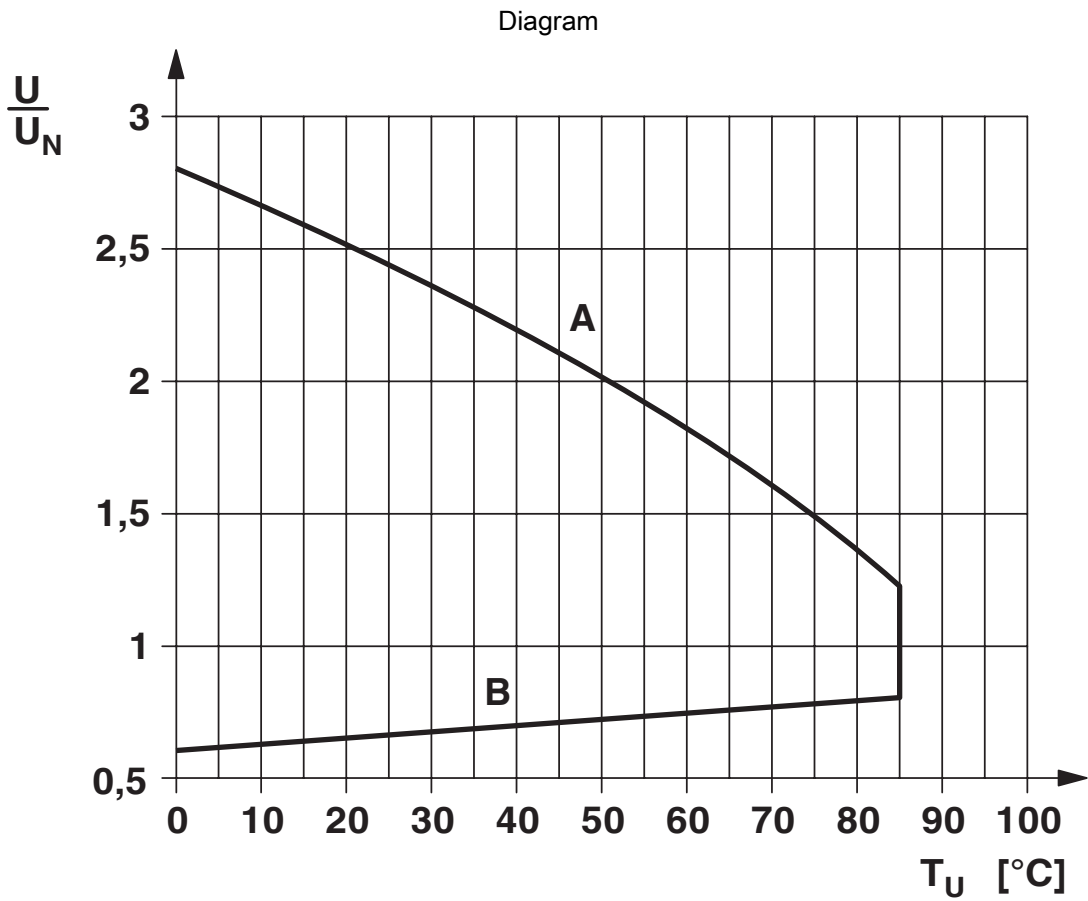
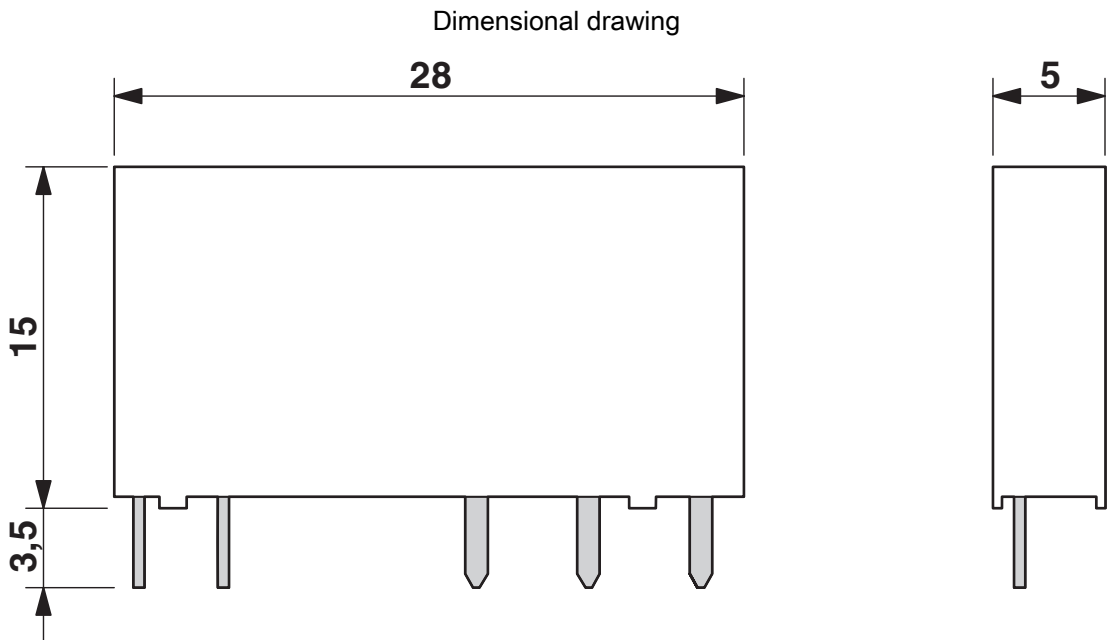
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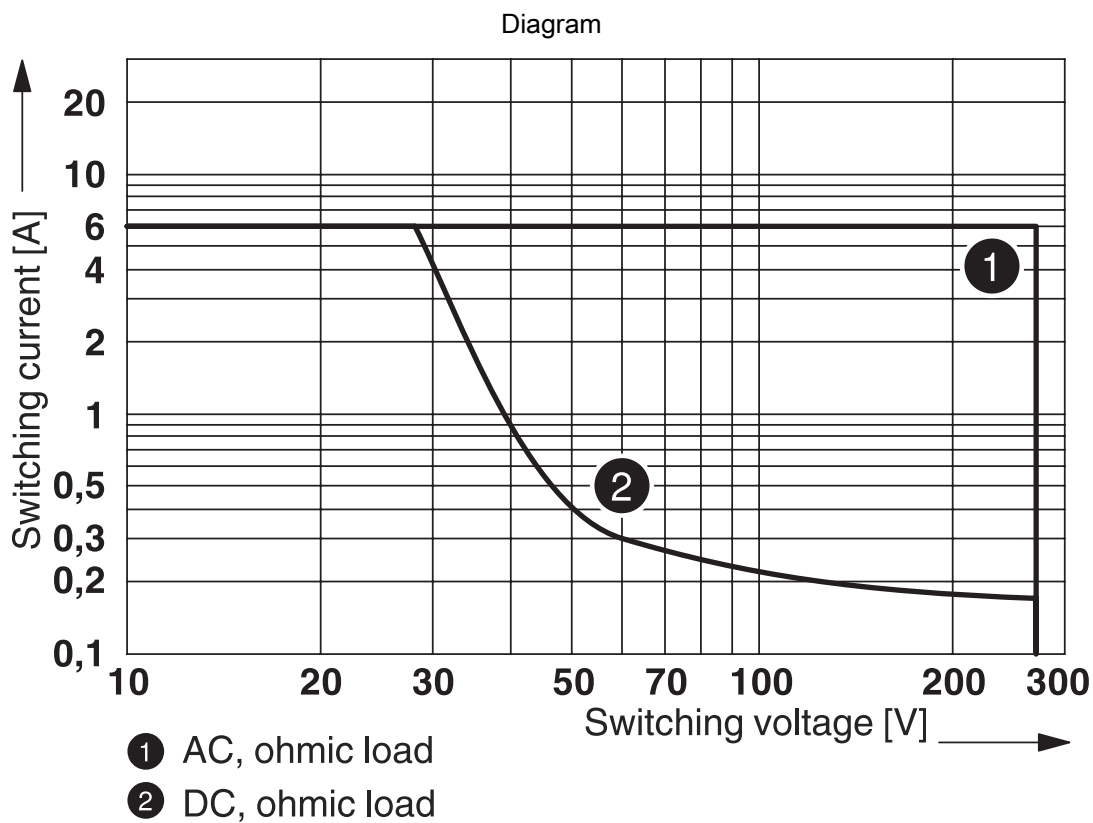
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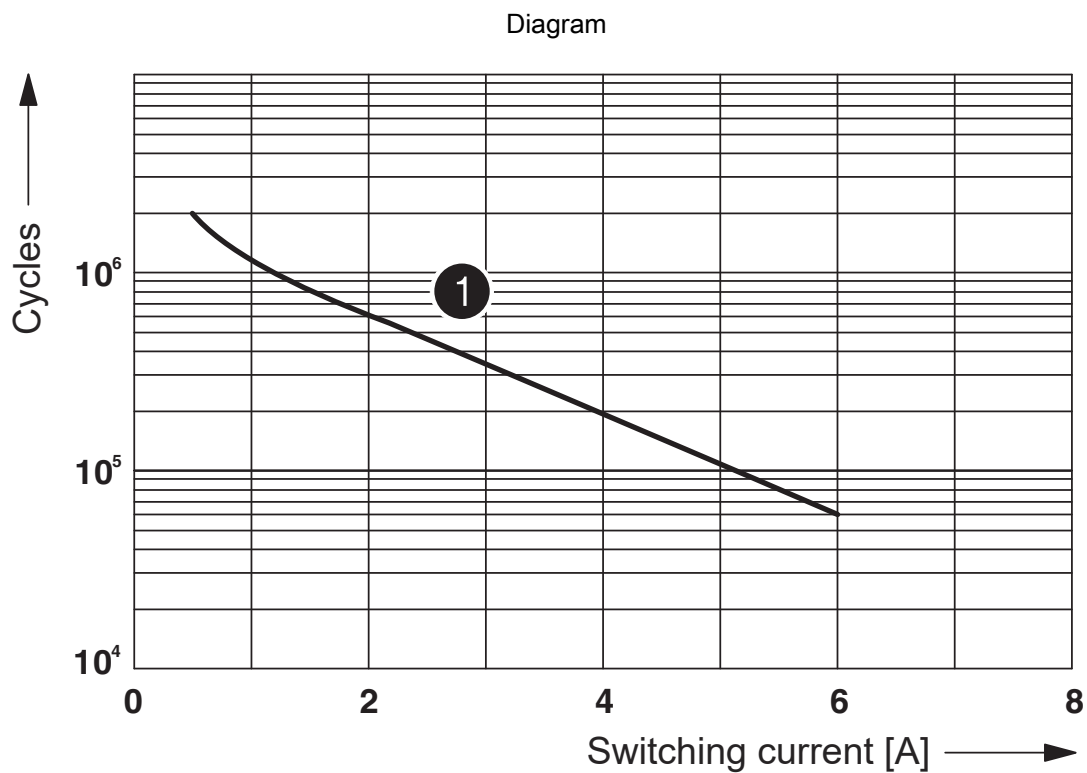
Drawings



Operating voltage range

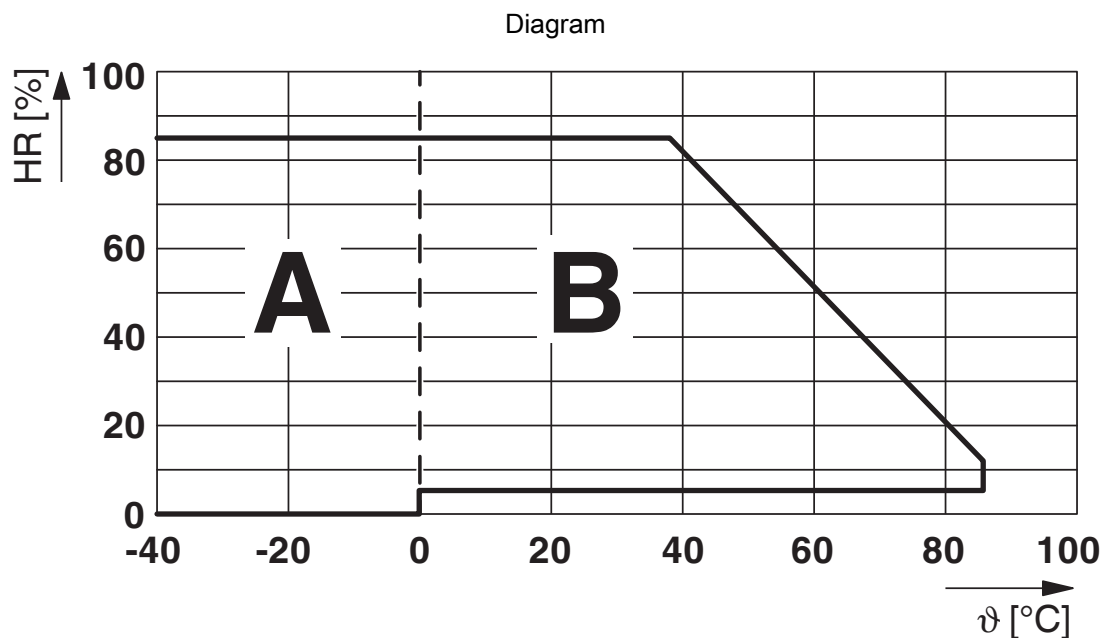


Interrupting rating



① 250 V AC, ohmic load

Electrical service life



Permissible humidity for operation and storage.

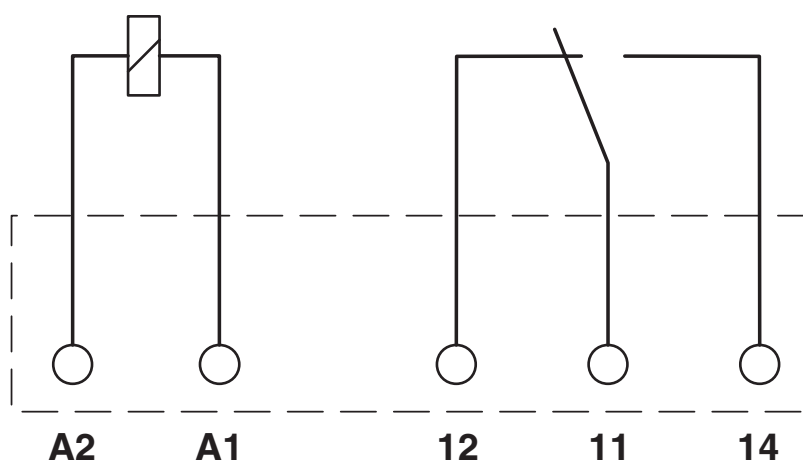
The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures $\leq 0^{\circ}\text{C}$ must be prevented

Area B: Condensation at ambient temperatures $> 0^{\circ}\text{C}$ 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 $\leq 25^{\circ}\text{C}$.

Circuit diagram



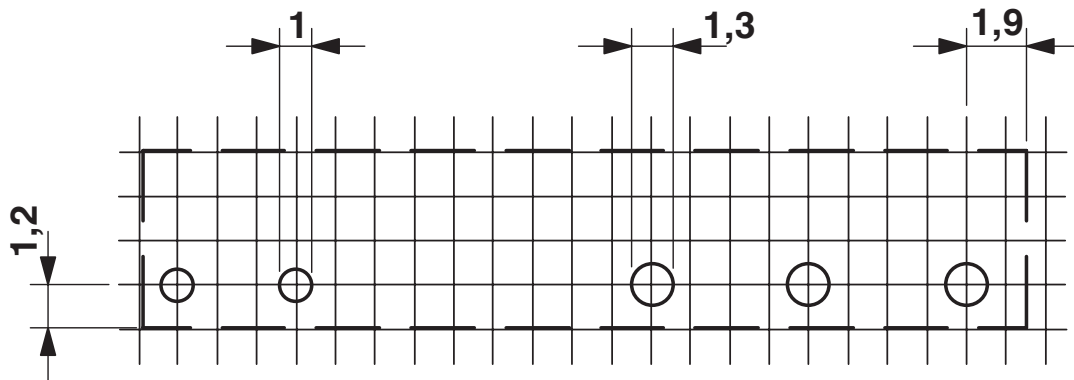
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Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2961105>

	cUL Recognized Approval ID: FILE E 172140
	UL Recognized Approval ID: FILE E 172140
	EAC Approval ID: RU*C-DE.*08.B.00010
	UL Recognized Approval ID: FILE E 172140
	VDE approval of drawings Approval ID: 40032864
	VDE approval of drawings Approval ID: 40054426
	cUL Recognized Approval ID: FILE E 172140
	VDE approval of drawings Approval ID: 40010212
	cUL Recognized Approval ID: FILE E 172140
	UL Recognized Approval ID: FILE E 172140

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Classifications

ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

ETIM

ETIM 9.0	EC001437
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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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