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Expert team | Trust guarantee | 100% satisfaction

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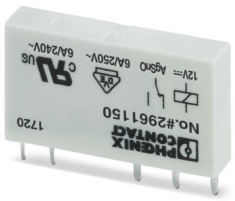
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REL-MR- 12DC/21 - Single relay

2961150

https://www.phoenixcontact.com/us/products/2961150

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Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 12 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	2961150
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	CK6921
Catalog page	Page 284 (C-5-2019)
GTIN	4017918159566
Weight per piece (including packing)	6.62 g
Weight per piece (excluding packing)	5 g
Customs tariff number	85364900
Country of origin	CZ

Technical data

Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	2x 10^7 cycles

Data management status

Date of last data management	02.05.2024
Article revision	02

Insulation characteristics

Overvoltage category	III
Pollution degree	3

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	12 V DC
Input voltage range	7.2 V DC ... 33 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	14 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	848 Ω ±10 % (at 20 °C)

Output data

Switching

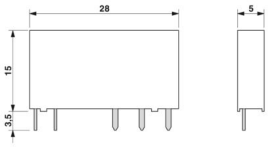
Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Maximum inrush current	10 A (4 s)
Min. switching current	10 mA (at 12 V)
Interrupting 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)
	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)
Motor load according to UL 508	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

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

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

Standards and regulations

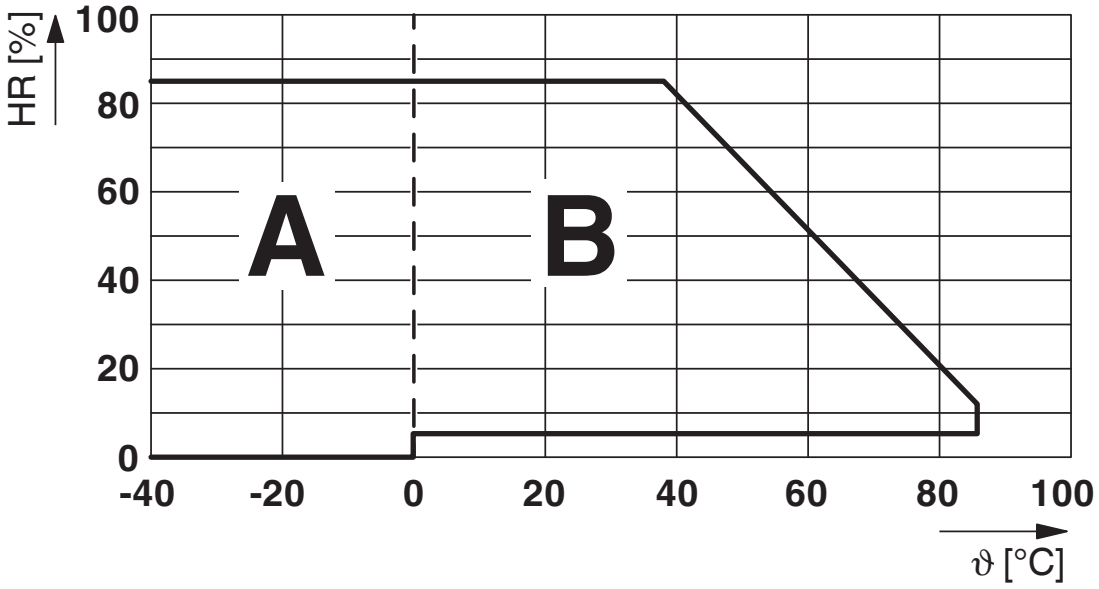
Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1

Mounting

Assembly note	in rows with zero spacing
Mounting position	any

Drawings

Diagram

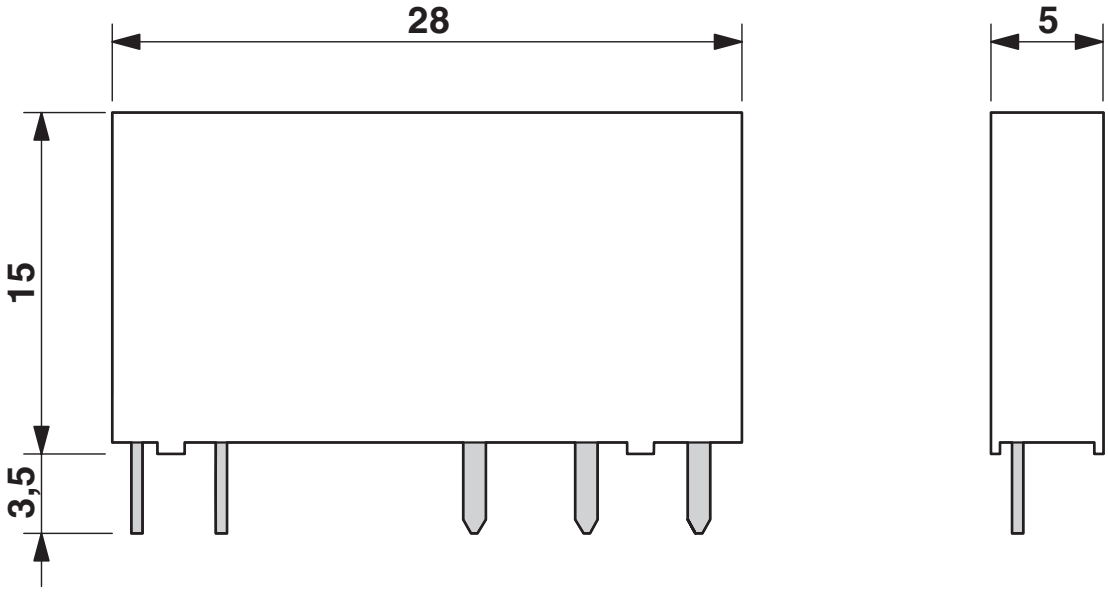


Permissible humidity for operation and storage.
The maximum permissible ambient temperature as specified in the data sheet must be observed.

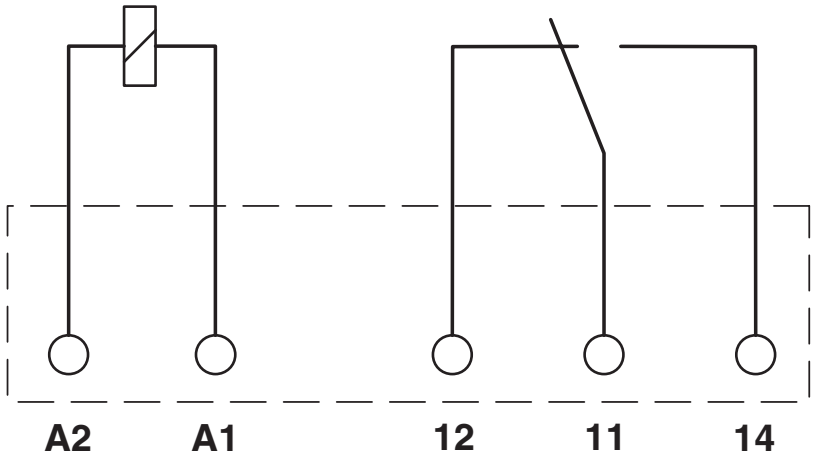
Area A: Ice buildup at ambient temperatures ≤ 0°C must be prevented
Area B: Condensation at ambient temperatures > 0°C must be prevented

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.

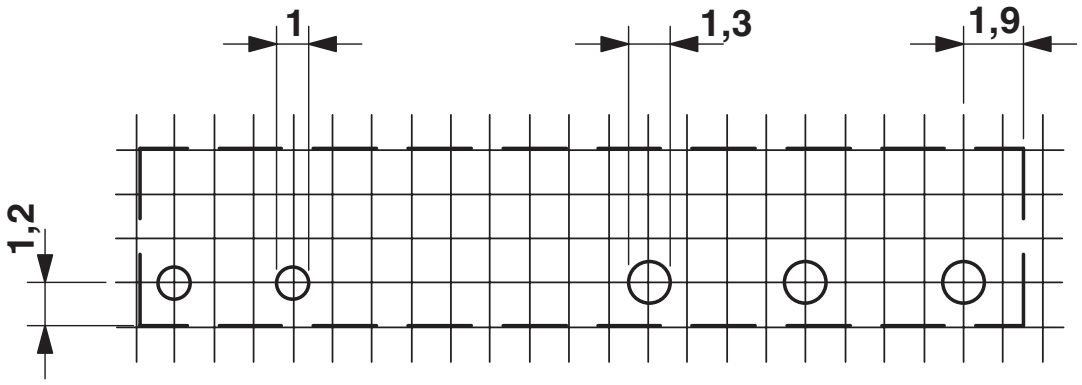
Dimensional drawing



Circuit diagram

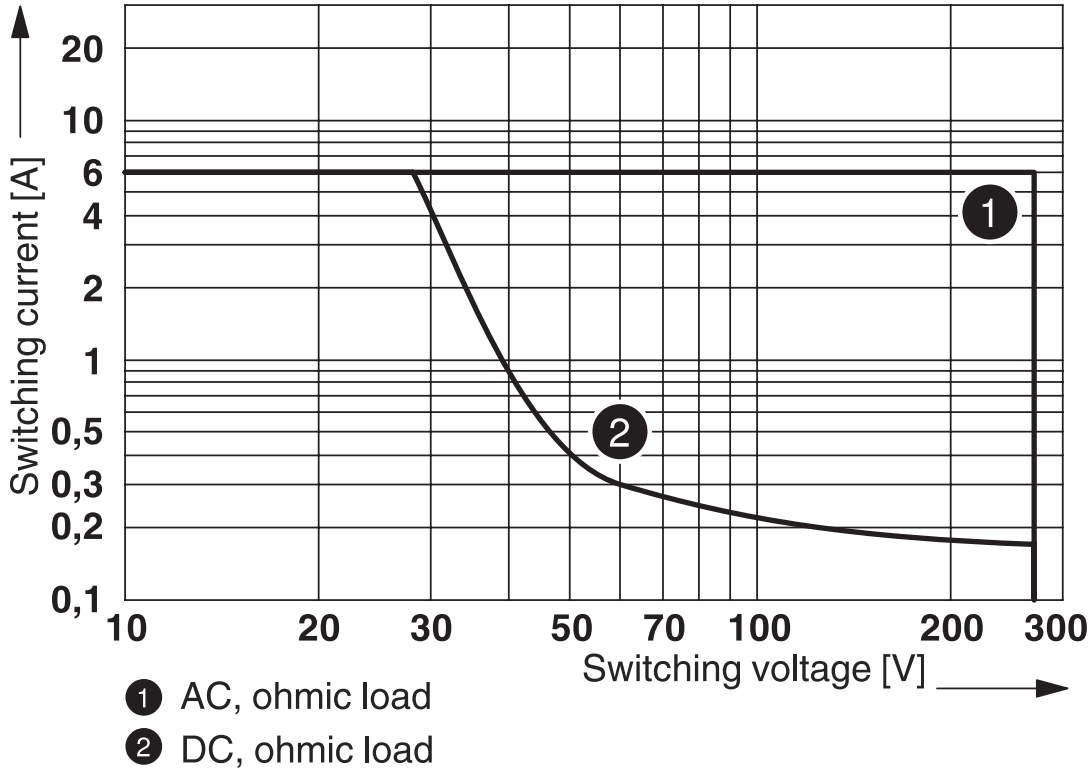


Drilling plan/solder pad geometry



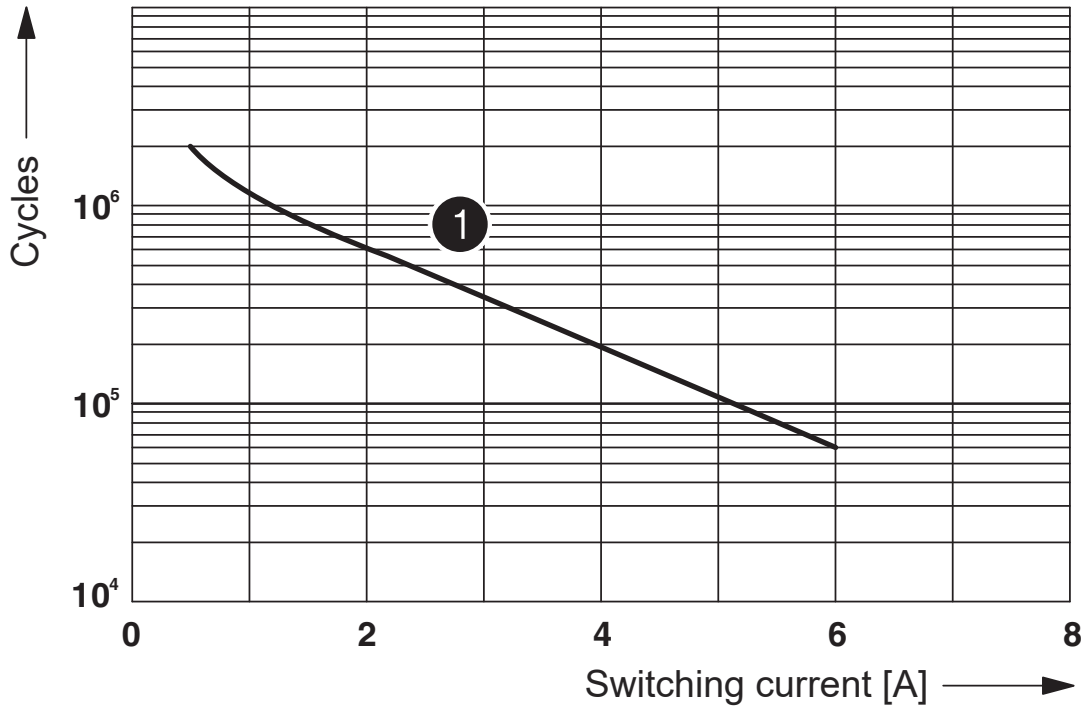
a = pitch division 1.25 mm and 1.27 mm

Diagram



Interrupting rating

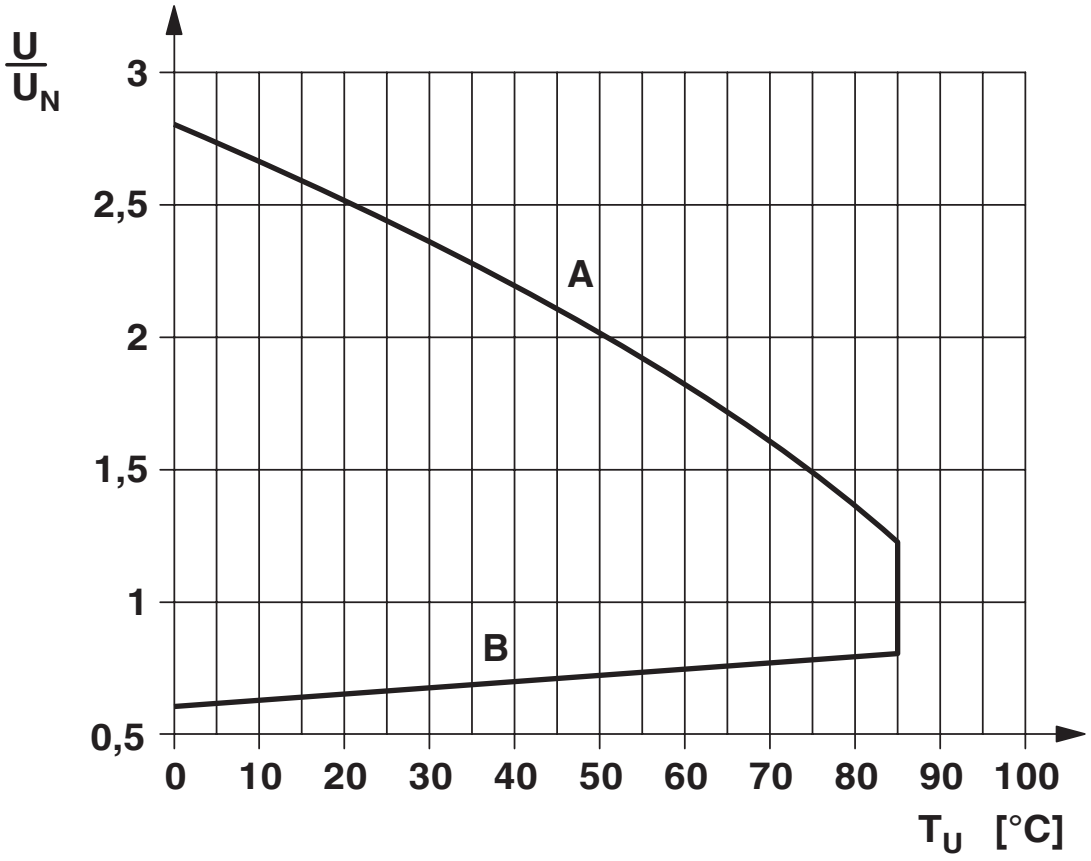
Diagram



1 250 V AC, ohmic load

Electrical service life

Diagram



Operating voltage range

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2961150

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 Zeichengenehmigung
Approval ID: 40010212

VDE Zeichengenehmigung
Approval ID: 40032864

cUL Recognized
Approval ID: FILE E 172140

VDE Zeichengenehmigung
Approval ID: 40054426

cUL Recognized
Approval ID: FILE E 172140

UL Recognized
Approval ID: FILE E 172140

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001437

UNSPSC

UNSPSC 21.0	39122300

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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