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	CK6195
Product key	CK6195
Catalog page	Page 284 (C-5-2019)
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
lectrical properties	
Maximum neuror discinction for nominal condition	0.47.10/

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	9
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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)

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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

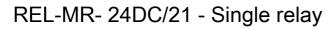
Standards and regulations

Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1

Mounting

Assembly instructions	in rows with zero spacing
Mounting position	any

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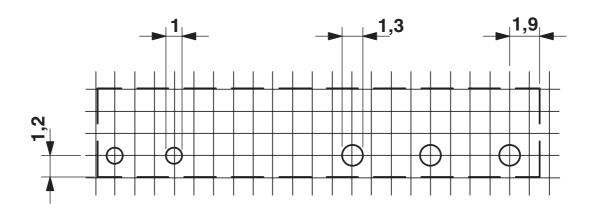


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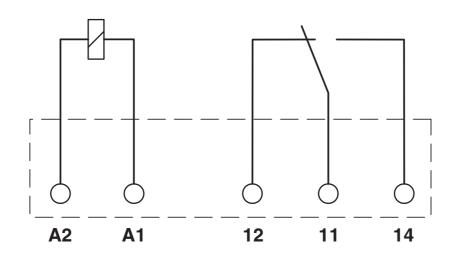
Drawings

Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

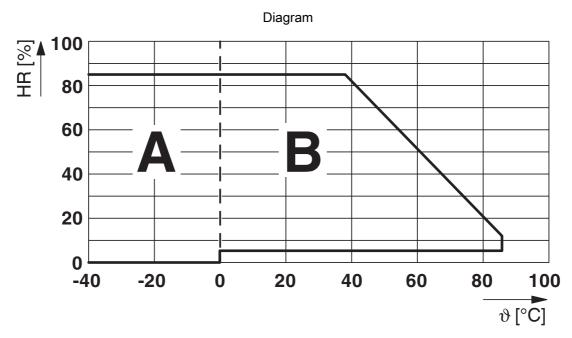
Circuit diagram





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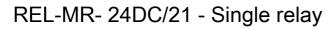


Permissible humidity for operation and storage.

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

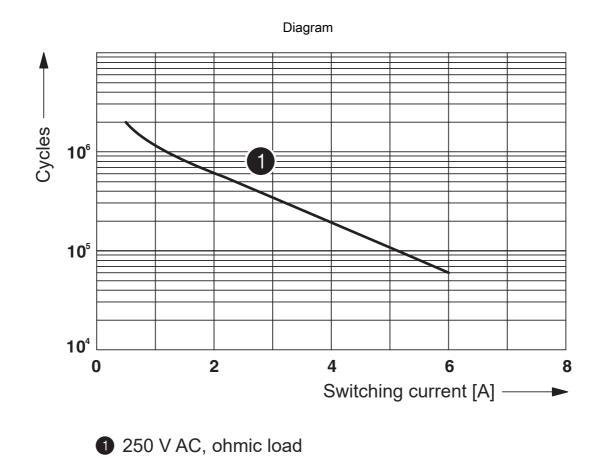
Area A: Ice buildup at ambient temperatures $\leq 0^{\circ}$ C must be prevented Area B: Condensation at ambient temperatures > 0°C must be prevented

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.



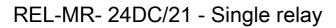


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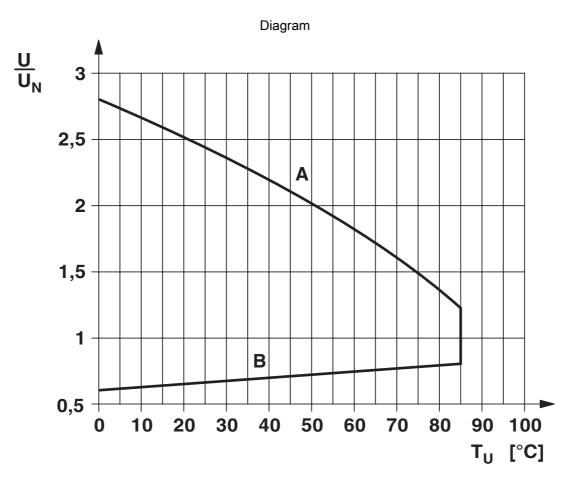
Electrical service life

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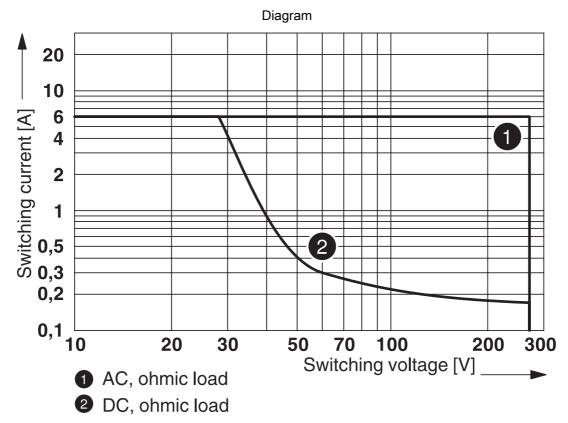


Operating voltage range

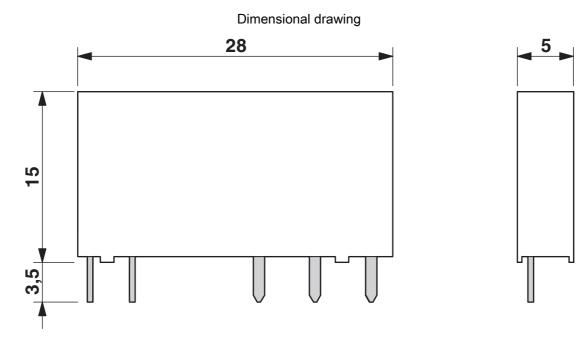


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Interrupting rating



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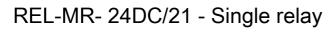
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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2961105

.91	CUL Recognized Approval ID: FILE E 172140
F	UL Recognized Approval ID: FILE E 172140
EAC	EAC Approval ID: TR_TS_D_00573_c
F/	UL Recognized Approval ID: FILE E 172140
ERC	EAC Approval ID: RU*C-DE.*08.B.00010
	VDE Zeichengenehmigung Approval ID: 40010212
	VDE Zeichengenehmigung Approval ID: 40032864
.R 1	CUL Recognized Approval ID: FILE E 172140
	VDE Zeichengenehmigung Approval ID: 40054426
.R 1	CUL Recognized Approval ID: FILE E 172140
91	UL Recognized Approval ID: FILE E 172140





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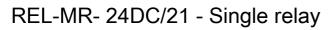
Classifications

ECLASS

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

ETIM

	ETIM 9.0	EC001437		
UNSPSC				
	UNSPSC 21.0	39122300		

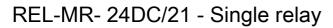


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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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Mandatory accessories

PLC-BPT- 24DC/21 - Relay base

2900445 https://www.phoenixcontact.com/gb/products/2900445



6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC

PLC-BSC- 24DC/21 - Relay base

2966016

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6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC

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PLC-BPT- 24UC/21 - Relay base

2900446

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6.2~mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V AC/DC

PLC-BSC- 24UC/21 - Relay base

2966029 https://www.phoenixcontact.com/gb/products/2966029



6.2 mm PLC basic terminal block with screw connection, without relay or solidstate relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V AC/DC

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PLC-BPT- 24DC/ 1/SEN - Relay base

2900262

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6.2 mm PLC basic terminal block for input functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 24 V DC

PLC-BSC- 24DC/ 1/SEN - Relay base

2966061 https://www.phoenixcontact.com/gb/products/2966061



6.2 mm PLC basic terminal block for input functions with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 24 V DC

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PLC-BPT- 24UC/ 1/ACT - Relay base

2900450

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6.2 mm PLC basic terminal block for output functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V AC/DC

PLC-BSC- 24UC/ 1/ACT - Relay base

2982799 https://www.phoenixcontact.com/gb/products/2982799



6.2 mm PLC basic terminal block for output functions with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V AC/DC

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PLC-BSC- 24DC/21/SO46 - Relay base

2980458

https://www.phoenixcontact.com/gb/products/2980458



6.2 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with increased input current consumption, 1 changeover contact, input voltage 24 V DC

RIF-0-BPT/21 - Relay base

2900958 https://www.phoenixcontact.com/gb/products/2900958



Relay base RIF-0..., for miniature power relay with 1 changeover contact or solid-state relays of the same design, Push-in connection, for mounting on NS 35/7,5

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RIF-0-BSC/21 - Relay base

2900957

https://www.phoenixcontact.com/gb/products/2900957



RIF-0... relay base, for miniature power relay with 1 changeover contact or identical solid-state relays, screw connection, for mounting on NS 35/7,5

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