#### 2961341

https://www.phoenixcontact.com/gb/products/2961341

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Pluggable miniature power relay, with power contact for high switch-on currents up to 130 A peaks, 1 N/O 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 16 A

### Commercial data

Item number	2961341
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CK6195
Product key	CK6195
Catalog page	Page 395 (C-5-2019)
GTIN	4017918187569
Weight per piece (including packing)	16.1 g
Weight per piece (excluding packing)	12.815 g
Customs tariff number	85364190
Country of origin	AT

2961341

https://www.phoenixcontact.com/gb/products/2961341



### Technical data

#### Product properties

Product type	Single relay		
Operating mode	100% operating factor		
Mechanical service life	3x 10 <sup>7</sup> cycles		
Insulation characteristics			
Insulation	Safe isolation, reinforced insulation		
Insulation characteristics			
Insulation	Safe isolation, reinforced insulation		
Overvoltage category	III		
Pollution degree	3		
Electrical properties			
Maximum power dissipation for nominal condition	0.41 W		
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min., winding/contact)		
Rated insulation voltage	250 V AC		
Rated surge voltage	6 kV		

#### Input data

#### Coil side Nominal input voltage U<sub>N</sub> 24 V DC Input voltage range 19.2 V DC ... 54 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<sub>N</sub> 17 mA Typical response time 8 ms Typical release time 3 ms Coil resistance 1440 $\Omega$ ±10 % (20 °C)

#### Output data

Switching		
Contact switching type	1 N/O contact	
Type of switch contact	Single contact	
Contact material	AgSnO	
Maximum switching voltage	250 V AC/DC	
Minimum switching voltage	12 V (100 mA)	
Limiting continuous current	16 A	
Maximum inrush current	80 A (20 ms)	
	130 A (peak, at capacitive load, 230 V AC, 24 μF)	

#### 2961341

https://www.phoenixcontact.com/gb/products/2961341

Min. switching current	100 mA (at 12 V DC)
Interrupting rating (ohmic load) max.	384 W (at 24 V DC)
	58 W (at 48 V DC)
	48 W (at 60 V DC)
	50 W (at 110 V DC)
	80 W (at 220 V DC)
	4000 VA (for 250 V AC)
Switching capacity min.	1200 mW
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	6 A (at 24 V, AC15)
	6 A (at 120 V, AC15)
	6 A (at 250 V, AC15)
Motor load according to UL 508	1/2 HP, 120 V AC (N/O contact)
	1 HP, 250 V AC (N/O contact)

#### Connection data

Connection method

Plug / solder connection

#### Dimensions

Dimensional drawing	
Width	12.7 mm
Height	29 mm
Depth	15.7 mm

#### Material specifications

Color	white (RAL 9010)

#### 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	
Altitude	≤ 2000 m	

### Approvals

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

PHŒN

X

#### 2961341

https://www.phoenixcontact.com/gb/products/2961341



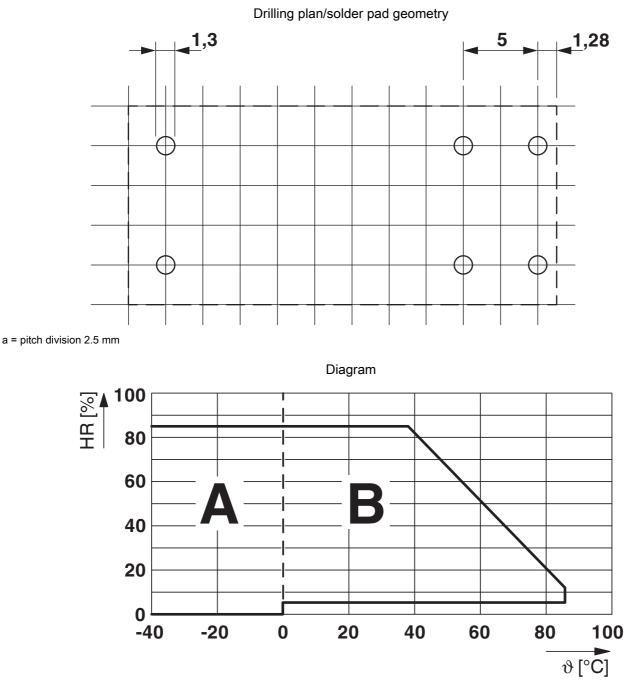
#### Standards and regulations

	Standards/regulations	EN 50178
		EN 61810-1
Mounting		
	Mounting type Assembly instructions	Plug-in mounting
		Can be aligned without spacing (> 70 $^{\circ}C \ge 2.5 \text{ mm}$ )
	Mounting position	any

2961341

https://www.phoenixcontact.com/gb/products/2961341

### Drawings

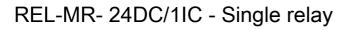


Permissible humidity for operation and storage.

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.

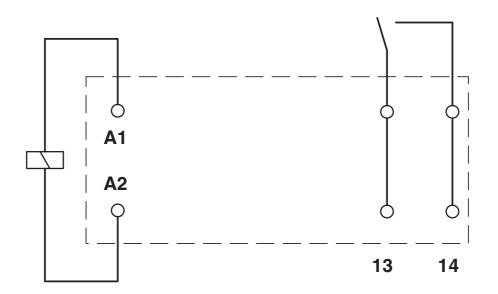




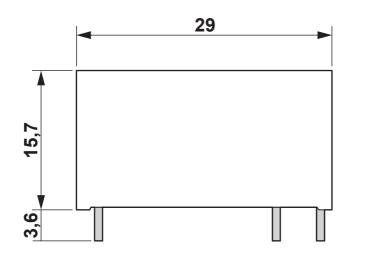
2961341

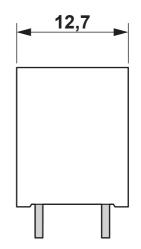
https://www.phoenixcontact.com/gb/products/2961341

Circuit diagram



#### Dimensional drawing

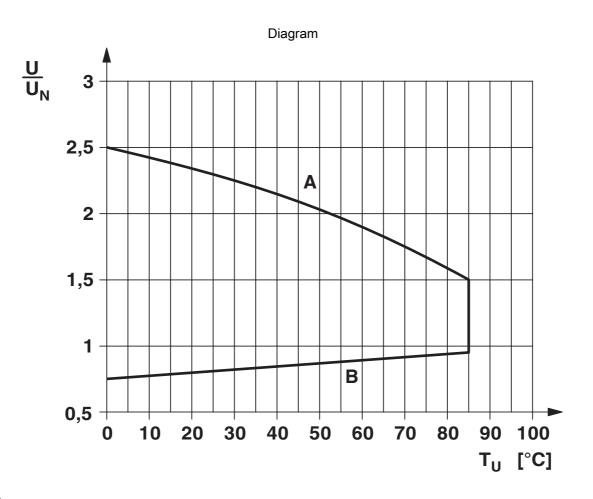






#### 2961341

https://www.phoenixcontact.com/gb/products/2961341



#### Curve A

Maximum permissible continuous voltage  $U_{max}$  with limiting continuous current on the contact side (see relevant technical data) Curve B

Minimum permissible operate voltage  $U_{op}$  after pre-excitation (see relevant technical data)

2961341

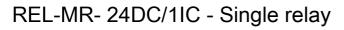
https://www.phoenixcontact.com/gb/products/2961341

# Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2961341

.91	CUL Recognized Approval ID: FILE E 228652
<i><b>7</b></i>	UL Recognized Approval ID: FILE E 228652
EAC	EAC Approval ID: TR_TS_D_00573_c
<b>91</b>	UL Recognized Approval ID: FILE E 172140
ERC	EAC Approval ID: RU*C-DE.*08.B.00010
	VDE Zeichengenehmigung Approval ID: 40007758
	VDE Zeichengenehmigung Approval ID: 40048281
17.	CUL Recognized Approval ID: FILE E 172140

PHŒNIX CONTACT



2961341

https://www.phoenixcontact.com/gb/products/2961341



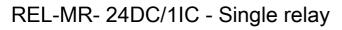
### Classifications

#### ECLASS

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

#### ETIM

	ETIM 9.0	EC001437		
UN	UNSPSC			
	UNSPSC 21.0	39122300		



2961341 https://www.phoenixcontact.com/gb/products/2961341



### Environmental product compliance

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

2961341 https://www.phoenixcontact.com/gb/products/2961341 **PHŒNIX** CONTACT

Mandatory accessories

PLC-BPT- 24DC/ 1IC/ACT - Relay base

2900260 https://www.phoenixcontact.com/gb/products/2900260



14 mm PLC basic terminal block for high switch-on currents 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 DC

#### PLC-BSC- 24DC/ 1IC/ACT - Relay base

2967837

https://www.phoenixcontact.com/gb/products/2967837



14 mm PLC basic terminal block for high switch-on currents 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 DC

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT Ltd Halesfield 13, Telford Shropshire, TF7 4PG 01952 681700 info@phoenixcontact.co.uk