2961493

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Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 18 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	2961493
Packing unit	10 рс
Minimum order quantity	10 pc
Sales key	CK6195
Product key	CK6195
Catalog page	Page 394 (C-5-2019)
GTIN	4017918936525
Weight per piece (including packing)	6.508 g
Weight per piece (excluding packing)	6.508 g
Customs tariff number	85364190
Country of origin	CZ

2961493

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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
Electrical properties	
Maximum power dissipation for nominal condition	0.16 W

Input data

Coil side	
Nominal input voltage U _N	18 V DC
Input voltage range	10.8 V DC 49.5 V DC
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U _N	9 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	1906 Ω ±10 % (at 20 °C)

Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA (at 24 V)
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Switching capacity	3 A (at 24 V, AC15)

Switching: when the gold layer is destroyed

ownerning, when the gold layer is desiroyed	
Note	the following values are applicable if a gold layer is destroyed
Contact material	AgSnO



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Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
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 120 V, AC15)
	3 A (at 230 V, AC15)

Connection data

Connection method Plug / so	lder connection
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Dimensions

Dimensional drawing	
Width	5 mm
Height	28 mm
Depth	15 mm

Material specifications

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

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Standards/regulations	IEC 60664
	EN 50178
	EN 61810-1

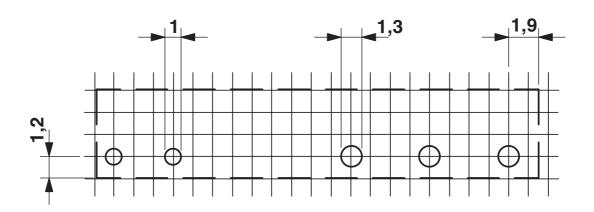
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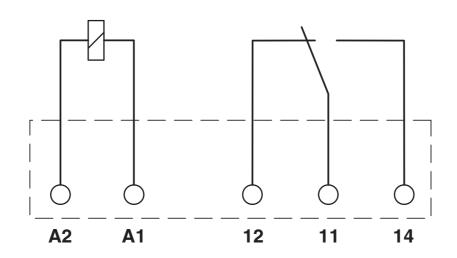
Drawings

Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm

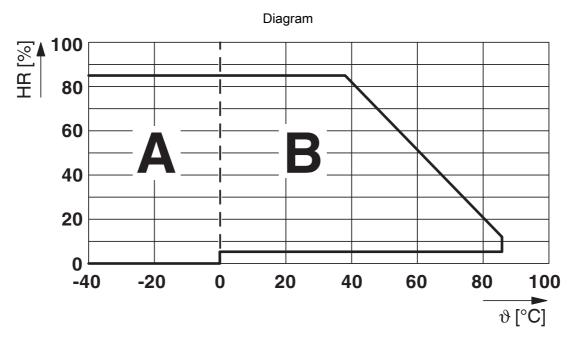
Circuit diagram





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Permissible humidity for operation and storage.

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

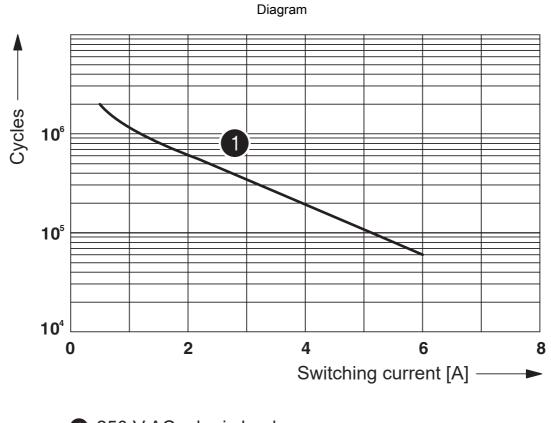
Area A: Ice buildup at ambient temperatures $\leq 0^{\circ}$ C must be prevented Area B: Condensation at ambient temperatures > 0°C must be prevented

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.



2961493

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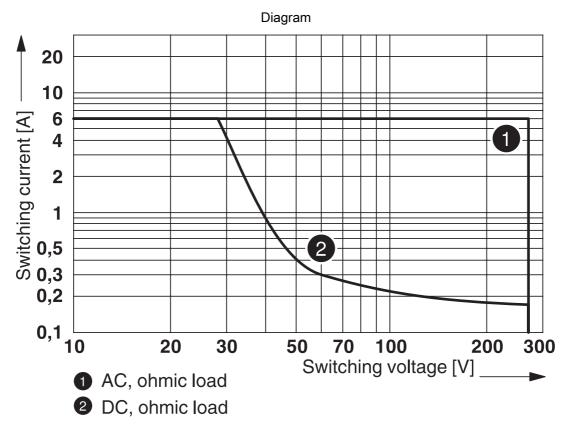
1 250 V AC, ohmic load

Electrical service life

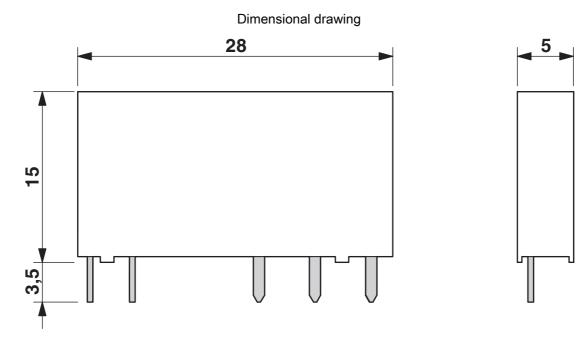


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Interrupting rating



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Approvals

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.R .	CUL Recognized Approval ID: FILE E 172140
71	UL Recognized Approval ID: FILE E 172140
ERC	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 .	CUL Recognized Approval ID: FILE E 172140
91	UL Recognized Approval ID: FILE E 172140

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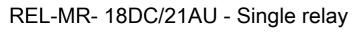
Classifications

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/21RW - Relay base

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6.2 mm PLC basic terminal block for railway applications with Push-in connection, without relay or solid-state relay, range from 0.7 x U_N to 1.25 x U_N, temperature range from -25°C to +70°C, 1 changeover contact, input voltage 24 V DC

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