

2966595

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Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output:  $3 \dots 33 \text{ V DC}/3 \text{ A}$ 

## Your advantages

- · Vibration and shock resistant
- RT III-proof (wash-proof)
- · Wear-free and durable
- · Can be soldered on PCB
- Switching capacity of up to 24 V DC/3 A

### Commercial data

Item number	2966595
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	DK69K1
Catalog page	Page 286 (C-5-2019)
GTIN	4017918130947
Weight per piece (including packing)	5.29 g
Weight per piece (excluding packing)	5.2 g
Customs tariff number	85364190
Country of origin	HU



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## Technical data

## Product properties

Product type	Single solid-state relay	
Operating mode	100% operating factor	
Insulation characteristics: Standards/regulations		
Insulation	Basic insulation	
Overvoltage category	III	
Pollution degree	2	
Data management status		
Date of last data management	19.03.2025	

## Electrical properties

Maximum power dissipation for nominal condition	0.17 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)

## Input data

Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	0.8 1.2
Input voltage range	19.2 V DC 28.8 V DC
Switching threshold "0" signal in reference to $\boldsymbol{U}_{N}$	0.4
Switching threshold "1" signal in reference to $U_N$	0.7
Typical input current at U <sub>N</sub>	7 mA
Typical response time	20 μs (at U <sub>N</sub> )
Typical turn-off time	300 μs (at U <sub>N</sub> )
Transmission frequency	300 Hz

## Output data

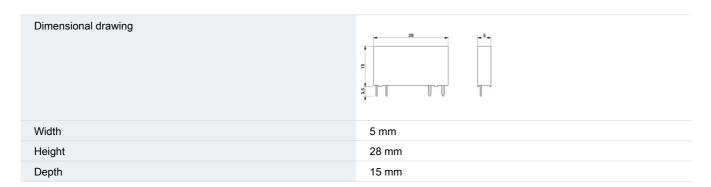
Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	3 V DC 33 V DC
Limiting continuous current	3 A (see derating curve)
Maximum inrush current	15 A (10 ms)
Voltage drop at max. limiting continuous current	≤ 150 mV
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection
	Surge protection

### **Dimensions**



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## Material specifications

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	RT III
Ambient temperature (operation)	-25 °C 60 °C
Ambient temperature (storage/transport)	-25 °C 70 °C

## Approvals

#### Corrosive gas test

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

### Standards and regulations

### Standards/regulations

Standards/regulations	IEC 60664
	EN 50178

## Mounting

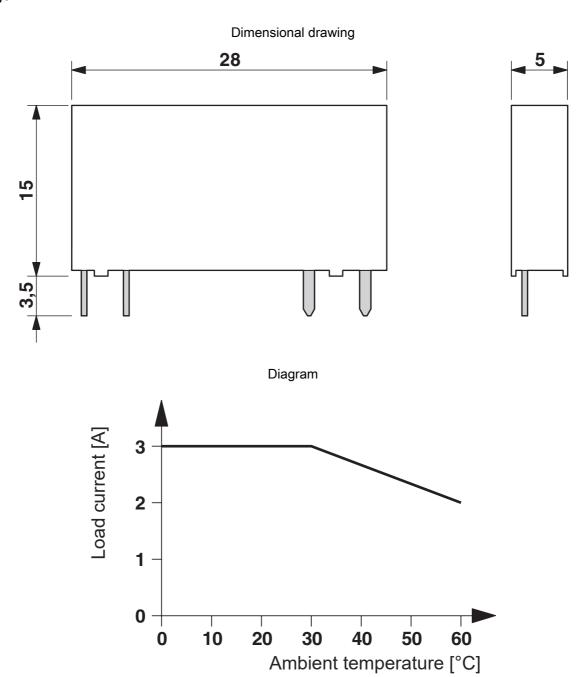
Assembly note	in rows with zero spacing
Mounting position	any



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## Drawings

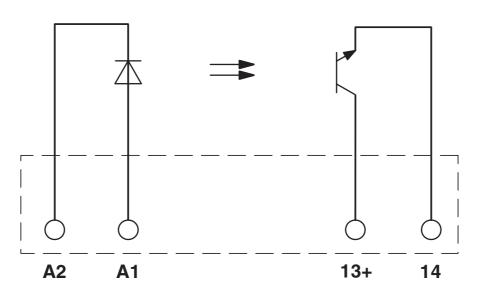




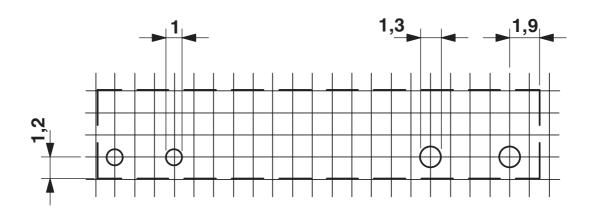
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Drilling plan/solder pad geometry



a = pitch division 1.25 mm and 1.27 mm



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## **Approvals**

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cUL Recognized

Approval ID: FILE E 195083



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Approval ID: FILE E 195083



GL

Approval ID: 46016-03 HH



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## Classifications

UNSPSC 21.0

201.00				
	ECLASS-13.0	27371604		
ETIM				
	ETIM 9.0	EC001504		
UNSPSC				

39122300



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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-l
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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