#### 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	DK6922
Product key	DK6922
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

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### Technical data

### Product properties

Product type	Single relay	
Operating mode	100% operating factor	
Mechanical service life	2x 10 <sup>7</sup> cycles	
Insulation characteristics		
Overvoltage category	III	
Pollution degree	3	
Data management status		
Date of last data management	19.03.2025	
Electrical properties		
Maximum power dissipation for nominal condition	0.16 W	

### Input data

Coil side		
Nominal input voltage U <sub>N</sub>	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 <sub>N</sub>	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



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Note	the following values are applicable if a gold layer is destroyed
Contact material	AgSnO
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 / solder connection

#### 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



white (RAL 9010)

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	Identification	ISA-S71.04. G3 Harsh Group
		EN 60068-2-60
Sta	andards and regulations	
	Standards/regulations	IEC 60664
		EN 50178
		EN 61810-1

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## Drawings







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1 250 V AC, ohmic load

Electrical service life



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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.

Circuit diagram





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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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<b>. 71</b>	CUL Recognized Approval ID: FILE E 172140
<b>F/</b>	UL Recognized Approval ID: FILE E 172140
ERC	EAC Approval ID: RU*C-DE.*08.B.00010
<b>71</b>	UL Recognized Approval ID: FILE E 172140
	VDE approval of drawings Approval ID: 40032864
	VDE approval of drawings Approval ID: 40054426
<b>.R</b> 1	cUL Recognized Approval ID: FILE E 172140
	VDE approval of drawings Approval ID: 40010212
<b>.R</b> 1	cUL Recognized Approval ID: FILE E 172140
<b>511</b>	UL Recognized Approval ID: FILE E 172140

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## Classifications

### ECLASS

	ECLASS-13.0	27371601	
E	ГІМ		
	ETIM 9.0	EC001437	
UNSPSC			
	UNSPSC 21.0	39122300	

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### 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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