

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



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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 according to DIN EN 50178 between coil and contact
- 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	1 pc
Minimum order quantity	10 pc
Sales Key	C460
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	85364900
Country of origin	AT



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Technical Data

Product properties

Product type	Single relay
Set comprises	2967604 PLC-RSC- 24DC/ 1IC/ACT
	2912413 PLC-RSP- 24DC/ 1IC/ACT
	2900298 PLC-RPT- 24DC/ 1IC/ACT
Operating mode	100% operating factor
Mechanical service life	3x 10 ⁷ 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 $\mathbf{U}_{\mathbf{N}}$	24 V DC
Input voltage range	19.2 V DC 54 V DC
Input voltage range in reference to U_N	see diagram
Typical input current at U _N	17 mA
Typical response time	8 ms
Typical release time	3 ms
Coil resistance	1440 Ω ±10 % (20 °C)

Output data

Switching

Contact type	1 N/O contact
Type of switch contact	Single contact
Drive and function	monostable
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (100 mA)
Limiting continuous current	16 A



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Maximum inrush current	80 A (20 ms)
	130 A (peak, at capacitive load, 230 V AC, 24 μF)
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
	. rag / coraci corribotion

Dimensions

Dimensional drawing	29 12.7
Width	12.7 mm
Height	29 mm
Depth	15.7 mm

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

Approval data

Corrosive gas test

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



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Standards and regulations

Standards/regulations	EN 50178
	EN 61810-1

Mounting

Mounting type	Plug-in mounting
Assembly instructions	Can be aligned without spacing (> 70 °C ≥ 2.5 mm)
Mounting position	any

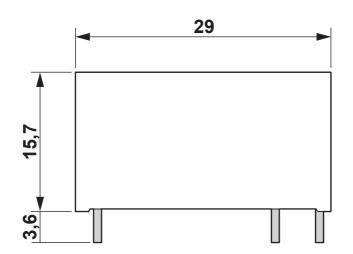


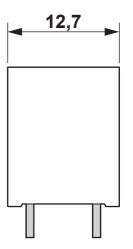
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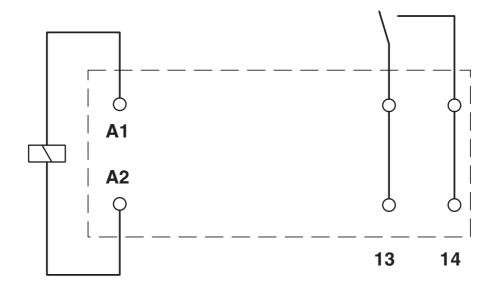
Drawings

Dimensional drawing





Circuit diagram

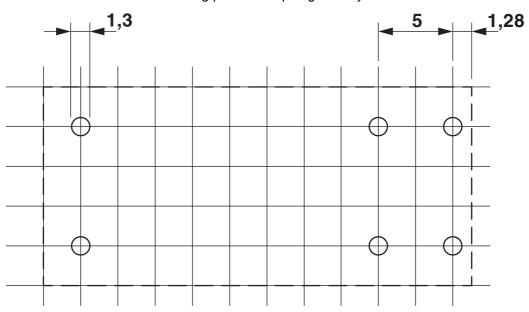




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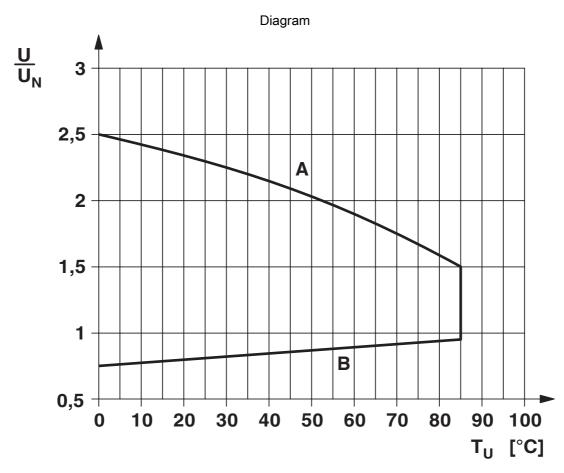


a = pitch division 2.5 mm



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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)



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Approvals



cUL Recognized

Approval ID: FILE E 228652



UL Recognized

Approval ID: FILE E 228652



EAC

Approval ID: TR_TS_D_00573_c



UL Recognized

Approval ID: FILE E 172140



Approval ID: RU*C-DE.*08.B.00010



VDE Zeichengenehmigung

Approval ID: 40007758				
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
Reports with production monitoring			-	-

VDE Zeichengenehmigung

Approval ID: 40048281				
	Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
Reports with production monitoring			-	-



Approval ID: TE/2109/880590/16



cUL Recognized

Approval ID: FILE E 172140



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