

# Power PCB Relay 429 03 AgSnO<sub>2</sub>

1 pole 16 A, for inrush peak currents up to 80 A, DC-coil



F0247-A

## Features

- 1 N/O contact
- 80 A / 20 ms inrush peak current
- 15 mm height
- 4 kV / 8 mm coil-contact

## Applications

House-control-systems, lighting systems, timer, sensors, valves, motors



Technical data of approved types on request

## Contact data

Configuration	1 N/O contact
Type of contact	single contact
Rated current	16 A
Rated voltage / max.breaking voltage AC	250 Vac / 400 Vac
Maximum breaking voltage DC	250 Vdc
Maximum breaking capacity AC	4000 VA
Make current (max. 4 s at duty cycle 10%)	25 A
Peak inrush current (20 ms)	80 A
Contact material	AgSnO <sub>2</sub>

## Contact ratings

Type	Load	Operations	Standard
42903..10..	16 A, 250 Vac, cosφ=1	2x10 <sup>4</sup>	Standard
42903..10..	12 A, 250 Vac, cosφ=1	5x10 <sup>4</sup>	
42903..10..	2500 W, Filament lamps	2x10 <sup>4</sup>	
42903..10..	800 W, Dulux lamps	1.5x10 <sup>4</sup>	
42913..10..	7.5 A, 250 Vac, cosφ=0.75	2.5x10 <sup>4</sup>	TV-5

## Coil data

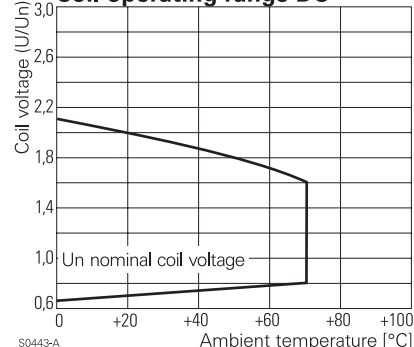
Nominal voltage	DC-coil	6...60 Vdc
Nominal coil power	DC-coil	480 mW
Operate category		1 / b

## Coil versions, C/O contact

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
16	6	4.2	0.4	12.0	80±10%	75.0
13	12	8.4	0.9	24.0	300±10%	40.0
08	24	16.8	1.8	48.0	1200±10%	20.0
05	48	33.6	3.6	96.0	4825±10%	10.0
03	60	42.0	4.5	120.0	7500±10%	8.0

All figures are given for coil without preenergization, at ambient temperature +20°C  
Other coil voltages on request

## Coil operating range DC



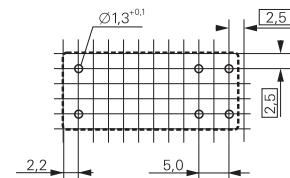
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Insulation		
Dielectric strength	coil-contacts	4000 V <sub>rms</sub>
	open contact circuit	1000 V <sub>rms</sub>
Clearance / creepage		8 / 8 mm
Insulation to IEC 60664		
	Voltage rating	250 V
	Pollution degree	3
	Overvoltage category	III
Insulation to VDE 0110b (2/79)		
	Insulation category / reference voltage	C / 250
Tracking resistance of relay base		PTI 250

## PCB layout / terminal assignment

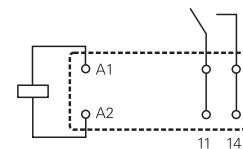
View on solder pins  
Dimensions in mm



S0420-aa

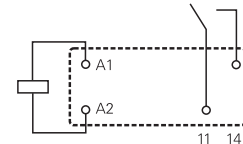
Other data		
Flammability class according to UL 94		V-0
Ambient temperature	DC-coil	-40...+70 °C
Mechanical life	DC-coil	>5x10 <sup>6</sup> operations
Max. switching rate at rated- / minimum load		10 min <sup>-1</sup> / 300 min <sup>-1</sup>
Operate- / release time		typ. 6 / 4 ms
Bounce time		typ. 3 ms
Shock resistance (destruction)		100 g
Category of protection (IEC 61810)		RT II - flux proof
Relay weight		10 g
Packaging unit		50 / 400 pcs.

double pinning



S0420-AF

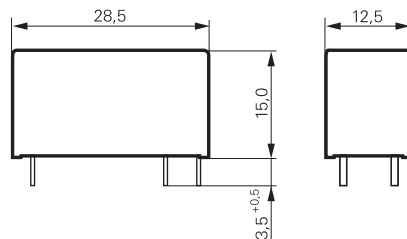
single pinning



S0420-AS

## Dimensions

Dimensions in mm



S0421-AA

## Product key

0 4 2 9 3 1 0 0 0

Type

Pinning

- 0 16A, double pinning, 5mm
- 1 10A, single pinning, 5mm

Version

- 3 1 N/O contact for high inrush currents

Coil

Coil code: Please refer to coil versions table

Contact material

- 10 AgSnO<sub>2</sub>

Version

- 00 Standard

Other types on request