

Power PCB Relay 429 03 Inrush

1 pole 10 A, for inrush peak currents up to 80 A



F0247-A

Features

- 1 N/O contact (W prerun contact + AgSnO₂)
- 80 A / 20 ms inrush peak current
- 4 kV / 8 mm coil-contact, protection class II
- Sensitive coil 480mW
- Height 15,0 mm

Applications

Lighting systems, movement sensors, filament lamp loads, halogen bulbs and motors



Technical data of approved types on request

Contact data

Configuration	1 N/O contact
Type of contact	single contact
Rated current	10 A
Rated voltage / max.breaking voltage AC	250 Vac / 400 Vac
Make current (max. 4 s at duty cycle 10%)	16 A
peak inrush current (20 ms)	80 A
Contact material	W (prerun contact) + AgSnO ₂

Contact ratings

Type	Load	Operations	Standard
429 03	10 A, 250 Vac, resistive	5x10 ⁴	
429 03	2500 W, incandescent lamps	3x10 ⁴	
429 03	1300 W, fluorescent lamps, 140 µF	3x10 ⁴	
429 03	1000 W, Dulux lamps, 140 µF	3x10 ⁴	

Coil data

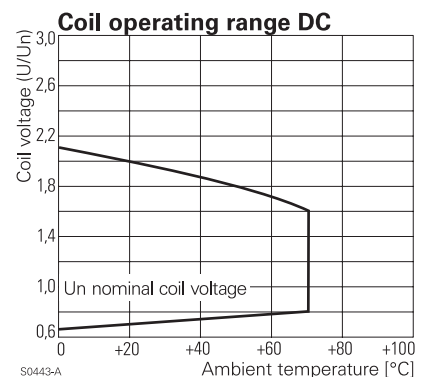
Nominal voltage	6...60 Vdc
Nominal coil power	480 mW
Operate category	1 / b

Coil versions

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



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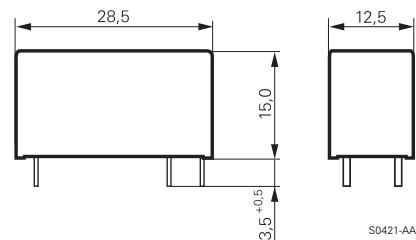
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Insulation

Dielectric strength	coil-contacts	4000 V _{rms}
	open contact circuit	1000 V _{rms}
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

Dimensions

Dimensions in mm



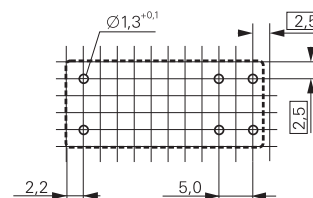
S0421-AA

Other data

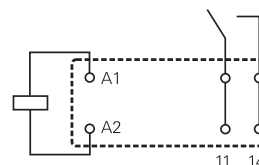
Flammability class according to UL 94	V-0
Ambient temperature	-40...+70 °C
Mechanical life	>5x10 ⁶ operations
Max. switching rate at rated- / minimum load	10 min ⁻¹ / 300 min ⁻¹
Operate- / release time	typ. 6 / 4 ms
Bounce time N/O contact	typ. 3 ms
Shock resistance (destruction)	100 g
Category of protection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

PCB layout / terminal assignment

View on solder pins
Dimensions in mm



S0420-AA



S0420-AF

Product key



Type

Coil

Coil code: Please refer to coil versions table, preferred types in bold print

Contacts

12 W (prerun contact) + AgSnO₂

Version

00 Standard

Other types on request

Product key	Version	Contacts	Contact material	Coil	Part number
0429 03 1312 00	10A	1 N/O contact	W prerun	12Vdc	7-1415429-4
0429 03 0812 00	flux proof		AgSnO	24Vdc	7-1415429-0
0429 03 0512 00				48Vdc	6-1415429-7