

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

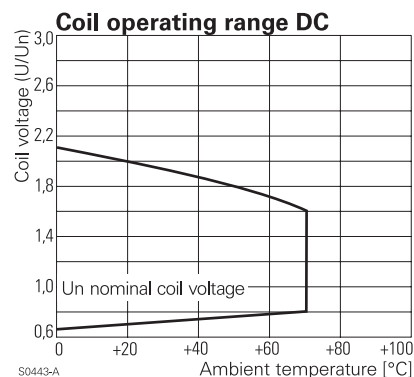
| | |
|--------------------|------------|
| Nominal voltage | 6...60 Vdc |
| Nominal coil power | 480 mW |
| Operate category | 1 / b |

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



Power PCB Relay 429 03 Inrush

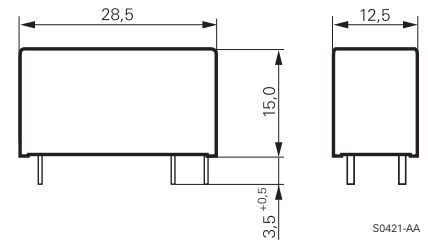
1 pole 10 A, for inrush peak currents up to 80 A

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



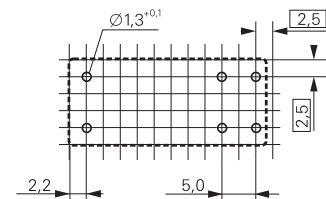
S0421-AA

Other data

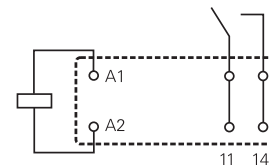
| | |
|--|--|
| Flammability class according to UL 94 | V-0 |
| Ambient temperature | -40...+70 °C |
| Mechanical life | >5x10 ⁵ operations |
| Max. switching rate at rated- / minimum load | 10 min ⁻¹ / 300 min ⁻¹ |
| Operate- / release time | typ. 6 / 4 ms |
| Bounce time N/O contact | typ. 3 ms |
| 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

0 4 2 9 **0 3** **1 2** **0 0**

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 |