

Slim PCB Relay PCN

1 pole 3 A



F0258-A

Features

- 1 N/O contact
- Only 5 mm wide
- 3 A switching current
- Load range 1 mA up to 3 A
- Sensitive coil 120 mW
- Allows high function-/packing density
- Cadmium-free contacts
- Z type with reinforced insulation

Applications

Centralized and decentralized heating control, extremely narrow interface elements, interface technology, timers, PLC's, I/O modules, I/O-ports



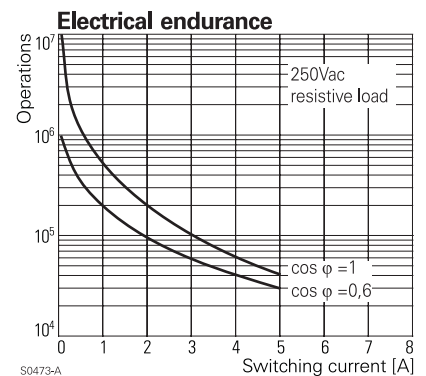
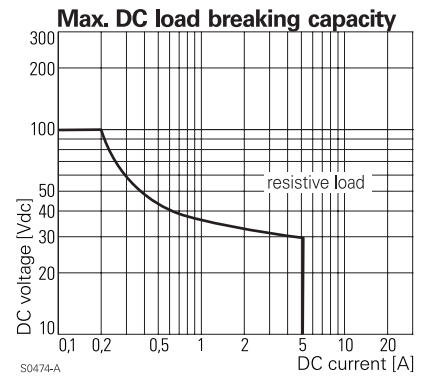
Technical data of approved types on request

Contact data

| | |
|---|--------------------|
| Configuration | 1 N/O contact |
| Type of contact | bifurcated contact |
| Rated current | 3 A |
| Rated voltage / max.breaking voltage AC | 250 Vac / 277 Vac |
| Maximum breaking capacity AC | 750 VA |
| Contact material | AgNi |
| Minimum contact load | 5 Vdc / 1 mA |

Contact ratings

| Type | Load | Operations | Standard |
|------|-------------------------|-------------------|------------------|
| | 3 A, 250 Vac, resistive | 1x10 ⁵ | UL 508, VDE 0435 |
| | 3 A, 30 Vdc, resistive | 1x10 ⁵ | UL 508, VDE 0435 |



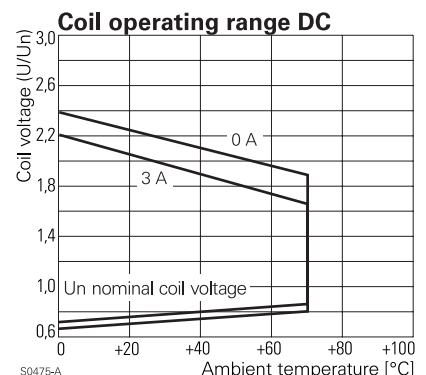
Coil data

| | |
|--------------------|------------|
| Nominal voltage | 5...24 Vdc |
| Nominal coil power | 120 mW |
| Operate power | 58.8 mW |
| Operate category | 1 |

Coil versions

| Coil code | Nominal voltage Vdc | Pull-in voltage Vdc | Release voltage Vdc | Maximum voltage Vdc | Coil resistance Ω | Coil current mA |
|-----------|---------------------|---------------------|---------------------|---------------------|-------------------|-----------------|
| 005 | 5 | 3.5 | 0.5 | 6.5 | 208±10% | 24.0 |
| 006 | 6 | 4.2 | 0.6 | 7.8 | 300±10% | 20.0 |
| 009 | 9 | 6.3 | 0.9 | 11.7 | 675±10% | 13.3 |
| 012 | 12 | 8.4 | 1.2 | 15.6 | 1200±10% | 10.0 |
| 024 | 24 | 16.8 | 2.4 | 31.2 | 4800±10% | 5.0 |

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



Edition: 02/2003

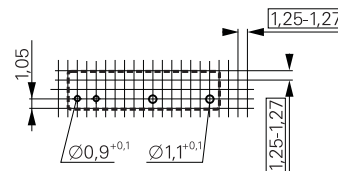
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| Insulation | | |
|-----------------------------------|--|-----------------------|
| Dielectric strength | coil-contacts | 3000 V _{rms} |
| | open contact circuit | 750 V _{rms} |
| Surge voltage resistance | coil-contacts | 5000 V (1.2 / 50 μs) |
| Clearance / creepage | | 3.5 / 3.5 mm |
| Insulation to IEC 60664 | | |
| | Voltage rating | 277 V |
| | Pollution degree | 2 |
| | Overvoltage category as basic insulation | III |
| | as reinforced insulation | II |
| Tracking resistance of relay base | | PTI 600 |

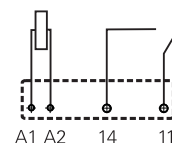
PCB layout / terminal assignment

View on solder pins
Dimensions in mm



S0471-AA

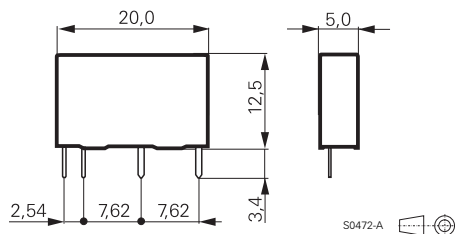
| Other data | |
|--|---|
| Flammability class according to UL 94 | V-0 |
| Ambient temperature | -30...+70 °C |
| Mechanical life | 20x10 ⁶ operations |
| Max. switching rate at rated- / minimum load | 10 min ⁻¹ / 20 s ⁻¹ |
| Operate- / release time | 5 / 2 ms |
| Bounce time N/O contact typ. | <1 ms |
| Category of protection (IEC 61810) | RT III - wash tight |
| Relay weight | 3 g |
| Packaging unit | 25 / 2000 pcs. |



S0471-AB

Dimensions

Dimensions in mm



Product key



| | |
|-----------------------|--|
| Type | PCN |
| Number of contacts | 1 1 pole |
| Coil | coil code: please refer to coil versions table |
| Coil version | D standard 120 mW |
| Contact material | 3 AgNi |
| Contact configuration | M 1 N/O contact |
| Version | H wash tight |
| Insulation | Z tracking resistance of relay base PTI 600 |

Other types on request

| Product key | Contacts | Coil | Coil | Contacts | Version | Part number |
|--------------|----------|--------|----------|----------|------------|-------------|
| PCN-105D3MHZ | 1-pole | 5 Vdc | standard | 1 N/O | wash tight | 3-1461491-0 |
| PCN-106D3MHZ | | 6 Vdc | 120 mW | AgNi | PTI 600 | 3-1461491-1 |
| PCN-112D3MHZ | | 12 Vdc | | | | 3-1461491-3 |
| PCN-124D3MHZ | | 24 Vdc | | | | 3-1461491-6 |