

Miniature PCB Relay PCJ

- 1 pole 3 / 5 A, 1 NO contact
- Sensitive coil 200 mW
- 8 mm creepage / clearance
- Version for 105°C
- WG version: Product in accordance to IEC60335-1
- RoHS compliant (Directive 2002/95/EC)
as per product date code 0424

Applications

Domestic appliances



F0276-A

Approvals

VDE REG.-Nr. 122301 ÜG  E58304
Technical data of approved types on request

Contact data

Contact configuration	1 NO	
Contact set	single contact	
Type of interruption	micro disconnection	
Rated current	3 A	5 A (WG-version)
Rated voltage / max.switching voltage AC	250/400 VAC	
Maximum breaking capacity AC	750 VA	1250 VA
Contact material	AgNi	
Mechanical endurance	10x10 ⁶ cycles	
Rated frequency of operation with / without load	30 / 300 min ⁻¹	

Contact ratings

Type	Load	Cycles
AgNi	3 A, 250 VAC, 90°C	1x10 ⁵
AgNi	5 A, 250 VAC, 85°C, EN61810-1	1x10 ⁵
AgNi	3 A, 250 VAC, 105°C, EN61810-1	1x10 ⁵
AgNi	2 A, 250 VAC, cosφ=0.6, 85°C, WG-version, EN61810-1	1x10 ⁵
AgNi	5 A (1.5 A), 250 VAC, 85°C, WG-version, EN60730	1x10 ⁵

Coil data

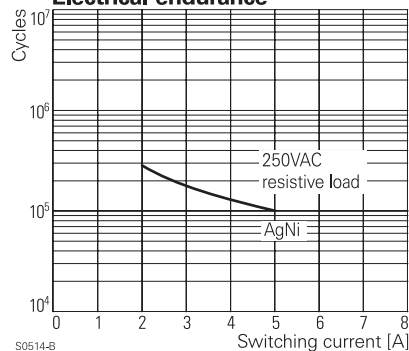
Rated coil voltage range DC coil	3...24 VDC	
Coil power DC coil	typ. 200 mW	
Operative range	2	
Coil insulation system according UL1446	A	F

Coil versions, DC-coil

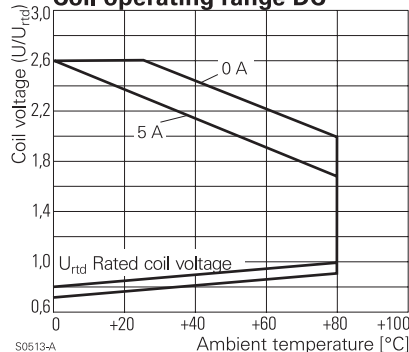
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
03	3	2.25	0.15	45 ± 10%	200
05	5	3.75	0.25	125 ± 10%	200
06	6	4.5	0.3	180 ± 10%	200
09	9	6.75	0.45	405 ± 10%	200
12	12	9	0.6	720 ± 10%	200
24	24	18	1.2	2880 ± 10%	200

All figures are given for coil without preenergization, at ambient temperature +23°C
Other coil voltages on request

Electrical endurance



Coil operating range DC



Miniature PCB Relay PCJ (Continued)

Insulation

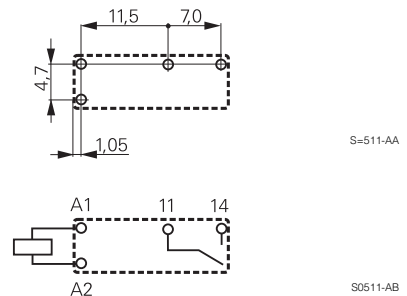
Dielectric strength coil-contact circuit	4000 V _{rms}
open contact circuit	750 V _{rms}
Clearance / creepage coil-contact circuit	≥ 8 / 8 mm
Material group of insulation parts	≥ IIIa
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	functional
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	230/400 V
Overvoltage category	III

Other data

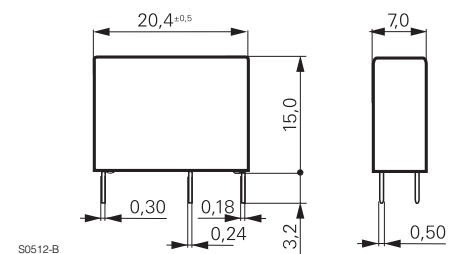
RoHS - Directive 2002/95/EC	compliant as per product date code 0424
Flammability class according to UL94	V-0
For WG version: GWFI to IEC 60695-2-12	850°C (WG version)
GWT to IEC 60695-2-13	750°C (WG version)
Ambient temperature range	-40...+90 (105) °C
Operate- / release time	10 / 4 ms
Vibration resistance (function) NO / NC contact	>10 g
Shock resistance (function) NO / NC contact	>10 g
Shock resistance (destruction)	>100 g
Category of protection	RTII - flux proof / RTIII - wash tight
Resistance to soldering heat flux-proof version	270°C / 10 s
wash-tight version	260°C / 5 s
Relay weight	4 g
Packaging unit	100 pcs

PCB layout / terminal assignment

Bottom view on solder pins



Dimensions



Product key

P C J - 1 **D 3 M**

Type	
Version	1 single contact
Coil	Coil code: please refer to coil versions table
Coil power	D standard 200 mW
Contact material	3 AgNi
Contact configuration	M 1 NO contact
Enclosure	Blank flux proof H wash tight
Version	Blank standard version, 3 A, class A WG Product in accordance with IEC 60335-1 (domestic appliances), 5 A version only, flux proof, class F
Other types on request	

Product key	Version	Contacts	Contact material	Coil	Part number
PCJ-105D3M	flux proof	1 NO contact	AgNi	5 VDC	0-1721081-2
PCJ-109D3M		3 A	Class A	9 VDC	0-1721081-4
PCJ-112D3M				12 VDC	0-1721081-5
PCJ-124D3M				24 VDC	0-1721081-7
PCJ-105D3MH	wash tight			5 VDC	0-1721081-9
PCJ-109D3MH				9 VDC	1-1721081-1
PCJ-112D3MH				12 VDC	1-1721081-2
PCJ-124D3MH				24 VDC	1-1721081-4
PCJ-105D3M-WG	flux proof	1 NO contact	AgNi	5 VDC	0-1721547-2
PCJ-109D3M-WG		5 A	Class F	9 VDC	0-1721547-4
PCJ-112D3M-WG			WG version	12 VDC	0-1721547-5
PCJ-124D3M-WG				24 VDC	0-1721547-7