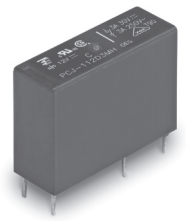
EN: This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

Miniature PCB Relay PCJ

- **1pole 3A/5A, 1 form A (NO) contact**
- **Sensitive coil 200mW**
- **Ambient temperature 85°C**
- **RoHS compliant (Directive 2002/95/EC)**
- **WG version : Product in accordance to IEC60335-1**



F0276-C

Typical applications
Home appliances

Approvals

VDE 40009151, UL E58304, CSA LR48471-211, CQC 03001008593
Technical data of approved types on request

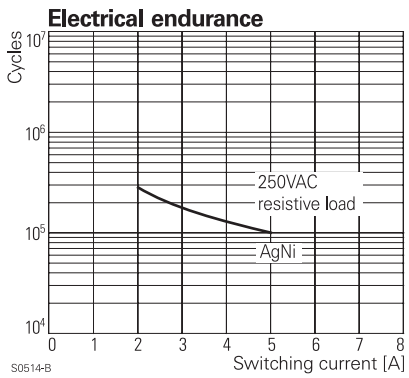
Contact Data

Contact arrangement	1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	30VDC, 250VAC
Rated current	3A/5A
Switching power	1,250VA, 150W
Contact material	AgNi
Min. recommended contact load	100mA, 5VDC
Initial contact resistance	100mΩ at 1A, 6VDC
Frequency of operation, with/without load	1800/18000h^{-1}
Operate/release time max.	10/4ms
Electrical endurance	
3A version: 250VAC, resistive,	100x10^3 ops.
5A version: 250VAC, resistive,	100x10^3 ops.

Contact ratings

Type	Contact	Load	Cycles
IEC 61810			
PCJ	form A (NO)	5A,250VAC, cosφ=1, 85°C	100x10^3
PCJ	form A (NO)	2A,250VAC, cosφ=0.6 85°C	100x10^3
PCJ	form A (NO)	3A,250VAC, cosφ=1, 105°C	100x10^3
UL 508			
PCJ	form A (NO)	5A,250VAC, general use, 85°C	6x10^3
PCJ	form A (NO)	3A,250VAC, cosφ=1, 85°C	100x10^3
PCJ	form A (NO)	3A,250VAC, cosφ=1, 105°C	100x10^3

Mechanical endurance >10x10^6 operations



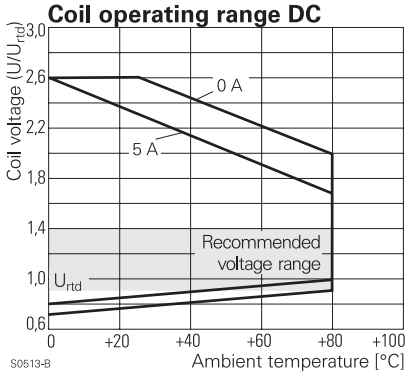
Coil Data

Coil voltage range	3 to 24VDC
Coil insulation system according UL	
Standard Version:	class 105 (A)
WG version:	class 155 (F)

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
03	3	2.25	0.15	45	200
05	4	3.75	0.25	125	200
06	6	4.50	0.3	180	200
09	9	6.75	0.45	405	200
12	12	9.00	0.6	720	200
18	18	13.50	0.9	1620	200
24	24	18.00	1.2	2880	200

All figures are given for coil without pre-energization, at ambient temperature +23°C.



Insulation Data

Initial dielectric strength	
between open contacts	750V$_{rms}$
between contact and coil	4000V$_{rms}$
Initial surge withstand voltage	
between contact and coil	10000V$_{rms}$
Initial insulation resistance	1000MΩ
Clearance/creepage	
between contact and coil	≥ 7.5/8mm

09-2011, Rev. 0911
www.te.com
© 2011 Tyco Electronics Corporation,
a TE Connectivity Ltd. company

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

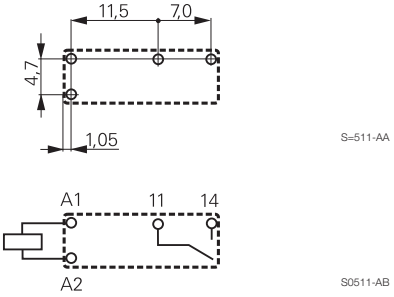
Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

Miniature PCB Relay PCJ (Continued)

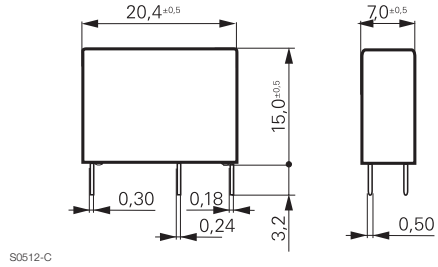
Other Data	
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter	
Ambient temperature	-40 to 85°C (105°C)
Category of environmental protection	
IEC 61810	RTII - flux proof, RTIII - wash tight
Vibration resistance (functional)	10 to 50Hz, 1.5mm double amplitude
Shock resistance (functional)	
IEC 60068-2-27 (half sine)	98m/s², 11ms
Terminal type	PCB-THT
Weight	4g
Resistance to soldering heat THT	
IEC 60068-2-20	260°C/5s
Packaging/unit	box/1000 pcs.

PCB layout / terminal assignment

Bottom view on solder pins



Dimensions



Product code structure

Typical product code: **PCJ 1 12 D 3 M 301**

Type
- **PCJ** Miniature PCB Relay PCJ

Version
- **1** Single contact

Coil
- Coil code: please refer to coil versions table

Coil power
- **D** Standard 200mW

Contact material
- **3** AgNi

Contact arrangement
- **M** 1 form A (NO) contact

Sealing
- **Blank** Flux proof
- **H** Wash tight*

Suffix
- **301** Standard version
- **WG** Product in accordance with IEC 60335-1 (domestic appliances)*

*) Wash tight WG version on request

07-2011, Rev. 0911
www.te.com
© 2011 Tyco Electronics Corporation,
a TE Connectivity Ltd. company

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

Miniature PCB Relay PCJ (Continued)

Product code	Version	Contact	Cont. material	Coil version	Coil	Sealing	Part number
PCJ-103D3M,301	3A	1 form A (NO)	AgNi	200mW	3VDC	Flux proof	1721081-1
PCJ-105D3M,301					5VDC		1721081-2
PCJ-106D3M,301					6VDC		1721081-3
PCJ-109D3M,301					9VDC		1721081-4
PCJ-112D3M,301					12VDC		1721081-5
PCJ-124D3M,301					24VDC		1721081-7
PCJ-103D3MH,301					3VDC	Wash tight	1721081-8
PCJ-105D3MH,301					5VDC		1721081-9
PCJ-106D3MH,301					6VDC		1-1721081-0
PCJ-109D3MH,301					9VDC		1-1721081-1
PCJ-112D3MH,301					12VDC		1-1721081-2
PCJ-124D3MH,301					24VDC		1-1721081-4
PCJ-103D3M-WG	5A				3VDC	Flux proof	1721547-1
PCJ-105D3M-WG					5VDC		1721547-2
PCJ-106D3M-WG					6VDC		1721547-3
PCJ-109D3M-WG					9VDC		1721547-4
PCJ-112D3M-WG					12VDC		1721547-5
PCJ-124D3M-WG					24VDC		1721547-7
PCJ-103D3MH-WG					3VDC	Wash tight	1721547-8
PCJ-105D3MH-WG					5VDC		1721547-9
PCJ-106D3MH-WG					6VDC		1-1721547-0
PCJ-109D3MH-WG					9VDC		1-1721547-1
PCJ-112D3MH-WG					12VDC		1-1721547-2
PCJ-124D3MH-WG					24VDC		1-1721547-4

09-2011, Rev. 0911
www.te.com
© 2011 Tyco Electronics Corporation,
a TE Connectivity Ltd. company

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.