

Miniature PCB Relay PCJ

- 1pole 3A/5A, 1 form A (NO) contact
- Sensitive coil 200mW
- Ambient temperature 85°C or 105°C
- RoHS compliant (Directive 2002/95/EC)
- WG version : Product in accordance to IEC60335-1



F0276-C









Typical applications Home appliances

Approvals

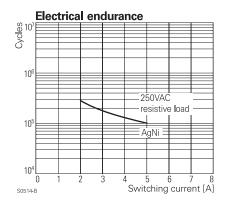
VDE 40009151, UL E58304, CSA LR48471-211, CQC 03001008593

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	360/18000h ⁻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						
Туре	Contact	Load	Cycles			
IEC 618	310					
PCJ	form A (NO)	5A,250VAC	$\cos \varphi = 1$,	85°C	100x10 ³	
PCJ	form A (NO)	2A,250VAC	$\cos \varphi = 0.6$	85°C	100x10 ³	
PCJ	form A (NO)	3A,250VAC	$\cos \varphi = 1$,	105°C	100x10 ³	
UL 508						
PCJ	form A (NO)	5A,250VAC	general use,	85°C	6x10 ³	
PCJ	form A (NO)	3A,250VAC	$\cos \varphi = 1$,	85°C	100x10 ³	
PCJ	form A (NO)	5A,250VAC	$\cos \varphi = 1$,	85°C	100x10 ³	
PCJ	form A (NO)	3A,250VAC	cosφ=1,	105°C	100x10 ³	

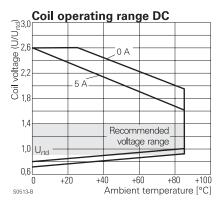
>10x10⁶ operations Mechanical endurance



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

Coil ver	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	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	1000ΜΩ	
Clearance/creepage		
between contact and coil	≥ 7.5/8mm	



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

-40 to 85°C (105°C), Ambient temperature

no icing or condensation

Category of environmental protection

IEC 61810 RTII - flux proof, RTIII - wash tight

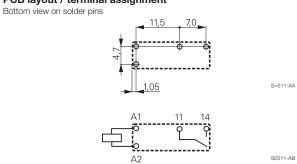
Vibration resistance (functional) 10 to 50Hz, 1.5mm double amplitude

Shock resistance (functional)

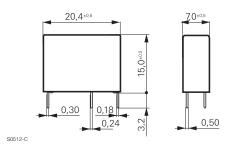
98m/s², 11ms IEC 60068-2-27 (half sine) Terminal type PCB-THT <u>4g</u> Weight Resistance to soldering heat THT

260°C/5s IEC 60068-2-20 Packaging/unit box/1000 pcs.

PCB layout / terminal assignment



Dimensions











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	Ü	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-118D3MH-WG					18VDC		1-1721547-3
PCJ-124D3MH-WG					24VDC		1-1721547-4