

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

VDE 71 (F COC

Typical applications Home appliances

Approvals

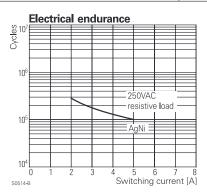
VDE 40009151, UL E58304, CSA LR48471-211, CQC 03001008593

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.

Type	Contact	Load	Cycles		
IEC 61	810				
PCJ	form A (NO)	5A,250V	AC, cosφ=1,	85°C	100x10 ³
PCJ	form A (NO)	2A,250V	AC , $\cos \varphi = 0.6$	85°C	100x10 ³
PCJ	form A (NO)	3A,250V	AC, cosφ=1,	105°C	100x10 ³
UL 508	3				
PCJ	form A (NO)	5A,250V	AC, general use	e, 85°C	6x10 ³
PCJ	form A (NO)	3A,250V	AC, cosφ=1,	85°C	100x10 ³
PCJ	form A (NO)	3A,250V	AC, cosφ=1,	105°C	100x10 ³

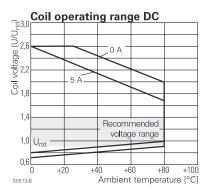
Mechanical endurance >10x10⁶ operations



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

Coil ver	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	age 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



Packaging/unit

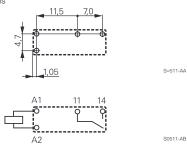
Miniature PCB Relay PCJ (Continued)

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

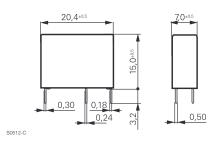
box/1000 pcs.

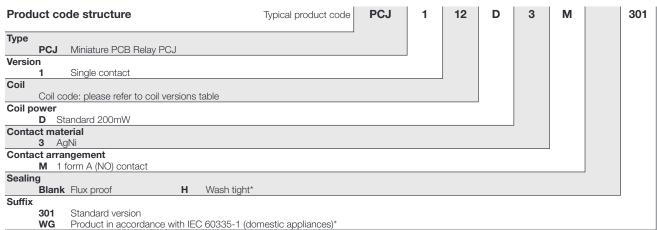
PCB layout / terminal assignment

Bottom view on solder pins



Dimensions





^{*)} Wash tight WG version on request



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