

# OEG

# **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

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2880

200

### Approvals

Typical applications

Home appliances

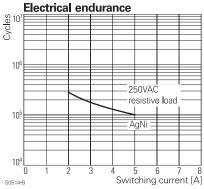
VDE 40009151, UL E58304, CSA LR48471-211, CQC 03001008593 Technical data of approved types on request

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 <sup>-1</sup>
Operate/release time max.	10/4ms
Electrical endurance	
3A version: 250VAC, resistive,	100x10 <sup>3</sup> ops.
5A version: 250VAC, resistive,	100x10 <sup>3</sup> ops.

### **Contact ratings**

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Туре	Contact	Load	Cycles		
IEC 61	810				
PCJ	form A (NO)	5A,250VA	NC, cosφ=1,	85°C	100x10 <sup>3</sup>
PCJ	form A (NO)	2A,250VA	C, $\cos \varphi = 0.6$	85°C	100x10 <sup>3</sup>
PCJ	form A (NO)	3A,250VA	C, $\cos \varphi = 1$ ,	105°C	100x10 <sup>3</sup>
UL 50	8				
PCJ	form A (NO)	5A,250VA	C, general us	se, 85°C	6x10 <sup>3</sup>
PCJ	form A (NO)	3A,250VA	$C, \cos \varphi = 1,$	85°C	100x10 <sup>3</sup>
PCJ	form A (NO)	3A,250VA	$C, \cos \phi = 1,$	105°C	100x10 <sup>3</sup>

Mechanical endurance



Coil Da	ata					
Coil volta	oltage 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	

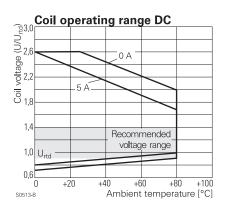
All figures are given for coil without pre-energization, at ambient temperature +23°C.

1.2

18.00

24

24



# 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 $1000M\Omega$ Clearance/creepage $1000M\Omega$ between contact and coil $\geq 7.5/8mm$

### 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.

>10x10<sup>6</sup> operations

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

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change. 1

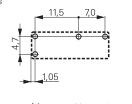


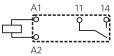
# Miniature PCB Relay PCJ (Continued)

## Other Data

•					
Material compliance: EU RoHS/ELV,	China RoHS, REACH, Halogen content				
refer to the Product Compliance Support Center a					
www.te.co	m/customersupport/rohssupportcenter				
Ambient temperature	-40 to 85°C (105°C)				
Category of environmental protection	n				
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

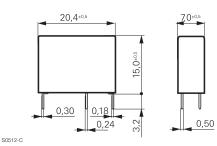




S=511-AA

S0511-AB

Dimensions



Produ	ct co	ode structure	Typical product code	PCJ	1	12	D	3	М	301
Туре										
F	PCJ	Miniature PCB Relay PCJ								
Version	1									
1	1	Single contact								
Coil										
(	Coil c	ode: please refer to coil versions table								
Coil pov	wer									
I	D S'	tandard 200mW								
Contact	t mat	erial								
3	3 A	gNi								
Contact	t arra	ngement								
1	<b>M</b> 1	form A (NO) contact								
Sealing										
Ĭ	Blank	Flux proof <b>H</b> Wash tight*								
Suffix		·								
3	301	Standard version								
١	WG	Product in accordance with IEC 60335-1 (do	mestic appliances)*							
*) \A/oob tic	abt MC	version on request								

\*) Wash tight WG version on request

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# Miniature PCB Relay PCJ (Continued)

Product code	Version	Contact	Cont. material	Coil version	Coil	Sealing	Part number
PCJ-103D3M,301	ЗA	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	1	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	1	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

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 LYQ20DC12

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 6131406HQ
 6-1393099-3
 6-1393099-8
 6-1393122-4
 6-1393123-2
 6-1393767-1
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 6-1415012-1
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 6-1616350-8
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 6 

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 6-1616360-9
 6-1616931-6
 6-1617039-1
 6-1617052-1
 6-1617090-2
 6-1617347-5
 6-1617353-3
 6-1617801-8
 6 

 1617802-2
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