

Slimline PCB Relay PCN

- 1 pole 3 A, 1 form A (NO) contact
- Only 5mm wide
- 3A switching current, load range 1mA up to 5A
- Sensitive coil 120mW
- Allows high function-/packing density
- Cadmium-free contacts
- Z type with reinforced insulation
- RoHS compliant (Directive 2002/95/EC)

Typical applications

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PLC, temperature control, I/O modules.



Approvals
VDE REGNr.6166, UL E82292, CQC 08001026045
Technical data of approved types on request.

Contact arrangement	1 from A (NO)	
Rated voltage	250VAC/30VDC	
Max. switching voltage	277VAC/125VDC	
Rated current	3A/5A	
Limiting continuous current	3A/5A	
Breaking capacity max.	750VA (3A), 1250VA(5A))
Contact material	AgNi, gold plated	
Contact style	bifurcated contact	
Min. recommended contact load (reference	e) 5VDC,1mA	
Initial contact resistance	30mΩ at 100mA, 6VDC	;
Frequency of operation, with/without load	10/300min ⁻¹	
Electrical endurance		
3A, 250VAC, resistive, +70°C	100x10 ³ ops.	
5A, 250VAC, resistive, +85°C	30x10 ³ ops.	
Contact ratings		
Load		Cycles
IEC 61810		
3A,250VAC, cos q =1, +70°C		100x10 ³
3A/30VDC, L/R=0ms, +70°C		100x10 ³
5A, 250VAC, cosφ=1, +85°C		30x10 ³
5A 30VDC, L/R=0ms, +85°C		70x10 ³
UL 508		
3A, 250VAC, resistive, +25°C		100x10 ³
Pilot duty, B300, +25°C		6x10 ³
Pilot duty, R300, +25°C		6x10 ³
9A LRA, 1.5A FLA, 240VAC, +45°C		30x10 ³

Mechanical endurance, DC coil

>10x10⁶ operations





 Coil Data

 Coil voltage range
 3 to 24VDC

 Operative range, IEC 61810
 1

 Coil insulation system according UL
 Class155(F),

Class F type available upon request

Coil vers	sions, DC co	oil			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	voltage resistance	
	VDC	VDC	VDC	Ω±10%	mW
03	3	2.1	0.3	75	120
05	5	3.5	0.5	208	120
06	6	4.2	0.6	300	120
09	9	6.3	0.9	375	120
12	12	8.4	1.2	1200	120
24	24	16.8	2.4	4800	120

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	3000V
Initial surge withstand voltage	
between contact and coil	4000V
Clearance/creepage	
between open contacts	>3.5mm
between contact and coil	>3.5mm
Tracking index of relay base	PTI600

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

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Slimline PCB Relay PCN (Continued)

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content				
refer to the Pr	refer to the Product Compliance Support Center at			
www.te.com/customersupport/rohssupportcente				
Ambient temperature	-30 to 85°C			
Category of environmental protection				
IEC 61810	RTIII - wash tight			
Vibration resistance (functional)	10 to 55Hz, 1.5mm			
Vibration resistance (destructive)	10 to 55Hz, 1.5mm			
Shock resistance (functional)				
IEC 60068-2-27 (half sine)	min. 98m/s², 11ms			
Shock resistance (destructive)	min. 980m/s², 6ms			
Terminal type	PCB-THT			
Resistance to soldering heat THT				
IEC 60068-2-20	260°C/5s			
Packaging/unit	box/2000 pcs.			

PCB layout / terminal assignment

Bottom view on solder pins





Dimensions



Type PCN Small Slim Power PCB Relay PCN Number of poles 1 1pole Coil Coil code: please refer to coil versions table (e.g. 05=5VDC) Coil version D standard 120mW	Z ,001
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Coil version D standard 120mW	
D standard 120mW	
Contact material	
3 AgNi	
Contact arrangement	
M 1 form A, 1 NO contact	
Enclosure	
H RTIII - wash tight	
Insulation	
Z Reinforced insulation (tracking resistance of relay base, case PTI 600)	
Version	
00000 3A model	
00100 5A model	

Product code	Contact	Coil voltage	Coil	Cont. material	Enclosure	Rating	Part number
PCN-105D3MHZ,000	1-pole	5VDC	120mW	AgNi	RTIII - wash tight	ЗA	3-1461491-0
PCN-106D3MHZ,000		6VDC					3-1461491-1
PCN-112D3MHZ,000		12VDC					3-1461491-3
PCN-124D3MHZ,000		24VDC					3-1461491-6
PCN-124D3MHZ,001						5A	3-1461491-8

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 5JO-1000CD-SIL
 5JO-400CD-SIL
 LY2S-AC220/240
 LYQ20DC12

 6031007G
 6131406HQ
 6-1393099-3
 6-1393099-8
 6-1393122-4
 6-1393123-2
 6-1393767-1
 6-1393843-7
 6-1415012-1
 6-1419102-2
 6

 1423698-4
 6-1608051-6
 6-1608067-0
 6-1616170-6
 6-1616248-2
 6-1616348-2
 6-1616350-1
 6-1616350-8
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 7-1393111-7

 7-1393144-5
 7-1393767-8