

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 PLC, temperature control, I/O modules.





Approvals

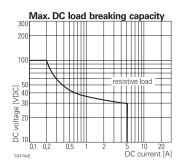
VDE REG.-Nr.6166, UL E82292, CQC 08001026045

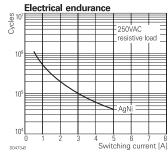
Technical data of approved types on request.

Contact Data	
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	ce) 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.

JA, 250 VAO, Tesistive, +05 O	συλίο όμδι
Contact ratings	
Load	Cycles
IEC 61810	
$3A,250VAC, \cos \varphi = 1, +70^{\circ}C$	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 LBA, 1.5A FLA, 240VAC, +45°C	30x10 ³

Mechanical endurance, DC coil >10x10⁶ operations

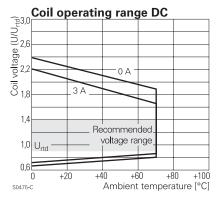




Coil Data			
Coil voltage range	3 to 24VDC		
Operative range, IEC 61810	1		
Coil insulation system according UL	Class155(F),		
	Class F type available upon request		

Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage resista		power
	VDC	VDC	VDC	$\Omega \pm 10\%$	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	1110	
between contact and coil	4000V	
Clearance/creepage		
between open contacts	>3.5mm	
between contact and coil	>3.5mm	
Tracking index of relay base	PTI600	



Slimline PCB Relay PCN (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

Category of environmental protection IEC 61810

Vibration resistance (functional) Vibration resistance (destructive)

Shock resistance (functional) IEC 60068-2-27 (half sine) Shock resistance (destructive)

Terminal type Resistance to soldering heat THT

IEC 60068-2-20 Packaging/unit

-30 to 85°C

RTIII - wash tight 10 to 55Hz, 1.5mm 10 to 55Hz, 1.5mm

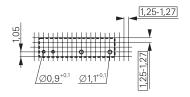
min. 98m/s², 11ms min. 980m/s², 6ms PCB-THT

260°C/5s

box/2000 pcs.

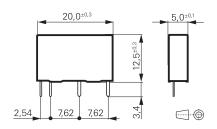
PCB layout / terminal assignment

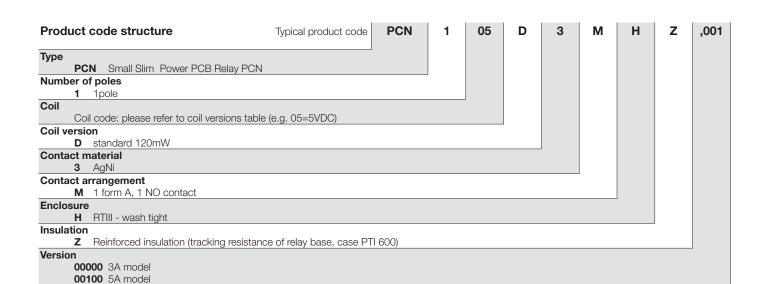
Bottom view on solder pins





Dimensions





Product code	Contact	Coil voltage	Coil	Cont. material	Enclosure	Rating	Part number
PCN-105D3MHZ,000	1-pole	5VDC	120mW	AgNi	RTIII - wash tight	3A	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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