

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

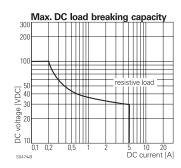
VDE REG.-Nr.6166, UL E82292, CQC 08001026045

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	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.

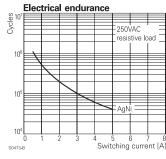
0/ 1, 200 V/ 10, 100l0tiV0, 170 0	100010 000.
5A, 250VAC, resistive, +85°C	30x10 ³ ops.
Contact ratings	
Load	Cycles
IEC 61810	
$3A,250VAC, \cos \varphi = 1, +70^{\circ}C$	100x10 ³
3A/30VDC, L/R=0ms, +70°C	100x10 ³
5A, 250VAC, cosφ=1, +85°C	30x10 ³
5A 30VDC, L/R=0ms, +85°C	70x10 ³
UL 508	
3A, 250VAC, resistive, +25°C	100x10 ³
Pilot duty B300 +25°C	6x103

Mechanical endurance, DC coil >10x10⁶ operations



Pilot duty, R300, +25°C

9A LRA, 1.5A FLA, 240VAC, +45°C



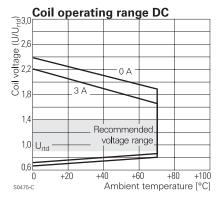
6x10³

 $30x10^{3}$

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	ge voltage resis		power
	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.



750V _{rms}	
3000	
mo	
4000V	
>3.5mm	
>3.5mm	
PTI600	
	3000V _{ms} 4000V >3.5mm >3.5mm



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 -30 to 85°C

Ambient temperature

Category of environmental protection IEC 61810

RTIII - wash tight

Vibration resistance (functional) Vibration resistance (destructive) 10 to 55Hz, 1.5mm 10 to 55Hz, 1.5mm

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

min. 98m/s², 11ms min. 980m/s², 6ms

Shock resistance (destructive) Terminal type Resistance to soldering heat THT

PCB-THT

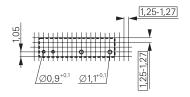
IEC 60068-2-20

260°C/5s box/2000 pcs.

Packaging/unit

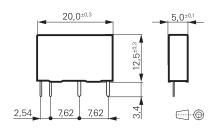
PCB layout / terminal assignment

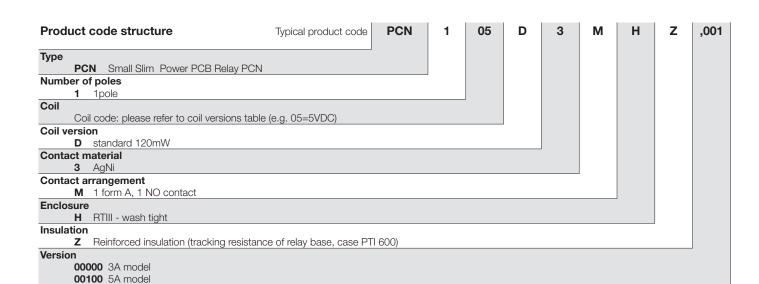
Bottom view on solder pins





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