

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)
- **■** Haz. Loc. Version available

Typical applications

PLC, temperature control, I/O modules.

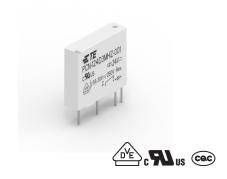
Approvals	
VDE REGNr.40001589, UL E82292, CQC 080	001026045

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,100mA
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, $\cos \varphi = 1$, +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

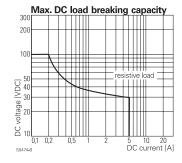


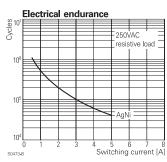
Coil Data	
Coil voltage range	3 to 24VDC
Operative range, IEC 61810	1
Coil insulation system according UL	Class A
	Class F type available upon request

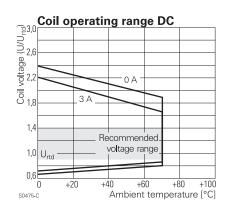
Standard D coil version (120mW), DC coil								
Coil	Rated	Operate	Release	Coil	Rated coil			
code	voltage	voltage	voltage	resistance	power			
	VDC	VDC	VDC	Ω±10%	mW			
03	3	2.1	0.3	75	120			
04	4.5	3.15	0.45	169	120			
05	5	3.5	0.5	208	120			
06	6	4.2	0.6	300	120			
09	9	6.3	0.9	675	120			
12	12	8.4	1.2	1200	120			
18	18	12.6	1.8	2700	120			
23	23.5	16.45	2.35	4602	120			
24	24	16.8	2.4	4800	120			

Standard L coil version (100mW), DC coil							
Coil	Rated	Operate Release Coil		Coil	Rated coil		
code	voltage	voltage	voltage	resistance	power		
	VDC	VDC	VDC	Ω±10%	mW		
03	3	2.1	0.3	90	100		
04	4.5	3.15	0.45	202	100		
05	5	3.5	0.5	250	100		
06	6	4.2	0.6	360	100		
09	9	6.3	0.9	810	100		
12	12	8.4	1.2	1440	100		
18	18	12.6	1.8	3240	100		
23	23.5	16.45	2.35	5522	100		
24	24	16.8	2.4	5760	100		

All figures are given for coil without pre-energization, at ambient temperature $+23^{\circ}\text{C}$.









Slimline PCB Relay PCN (Continued)

750V _{rms}	
3000V _{rms}	

4000V	
>3.5mm	
PTI600	
	3000V _{rms} 4000V >3.5mm

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 F
Vibration resistance (functional) 10
Vibration resistance (destructive) 10
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 -40 to 85°C

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

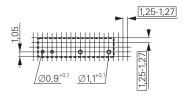
min. 98m/s², 11ms
min. 980m/s², 6ms
PCB-THT

260°C/5s

box/2000 pcs.

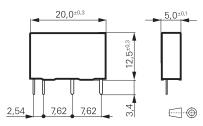
PCB layout / terminal assignment

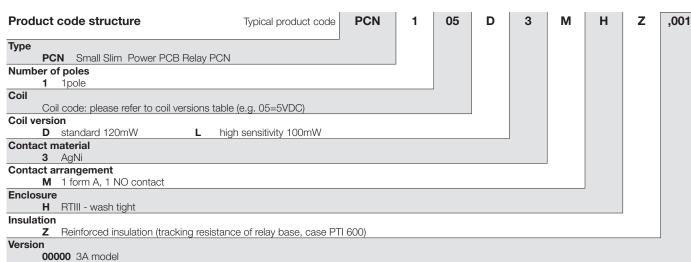
Bottom view on solder pins





Dimensions





Product code	Contact	Coil voltage	Coil	Cont. material	Enclosure	Rating	Part number
PCN-105D3MHZ,000	1-pole	5VDC	120mW	AgNi	RTIII - wash tight	ЗА	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 All
PCN-112D3MZ-EX1,00400		12VDC					2071520-1

Note: This list represents the most common types and does not show all variants covered by this datasheet, other types on request.

00100 5A model

-EX1 according to IEC60079-15 = 2010

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