

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.

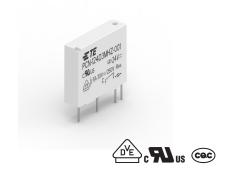
Approvals	
VDE REGNr.40001589, UL E82292,	CQC 08001026045

Technical data of approved types on request.

1 from A (NO)
250VAC/30VDC
277VAC/125VDC
3A/5A
3A/5A
750VA (3A), 1250VA(5A)
AgNi, gold plated
bifurcated contact
5VDC,100mA
30mΩ at 100mA, 6VDC
10/300min ⁻¹
100x10 ³ ops.
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	>10x10 ⁶ operations
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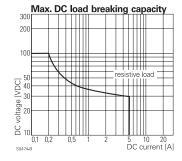


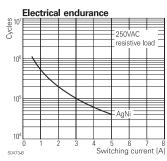
Coil Data	
Coil voltage range	3 to 24VDC
Operative range, IEC 61810	1
Coil insulation system according UL	Class A
	Class F type available upon request

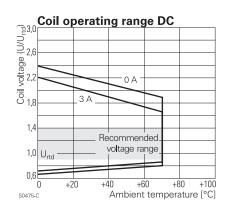
Standard D coil version (120mW), DC coil							
Coil	Rated	Operate	Release	Coil	Rated coil		
code	voltage	voltage	voltage	resistance	power		
	VDC	VDC	mW				
03	3	2.1	0.3	75	120		
04	4.5	3.15	0.45	169	120		
05	5	3.5	0.5	208	120		
06	6	4.2	0.6	300	120		
09	9	6.3	0.9	675	120		
12	12	8.4	1.2	1200	120		
18	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	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°C.









Slimline PCB Relay PCN (Continued)

Insulation Data		
Initial dielectric strength		
between open contacts	750V _{rms}	
between contact and coil	3000V_ms	
Initial surge withstand voltage	*****	
between contact and coil	4000V	
Clearance/creepage		
between contact and coil	>3.5mm	
Tracking index of relay base	PTI600	

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

-40 to 85°C

260°C/5s

box/2000 pcs.

Ambient temperature
Category of environmental protection

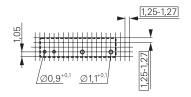
IEC 61810 RTIII - wash tight
Vibration resistance (functional) 10 to 55Hz, 1.5mm
Vibration resistance (destructive) 10 to 55Hz, 1.5mm
Shock resistance (dructional)
IEC 60069 2 37 (holf size) pin 08m/s² 11ma

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 Packaging/unit

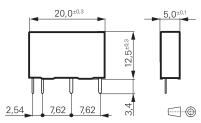
PCB layout / terminal assignment

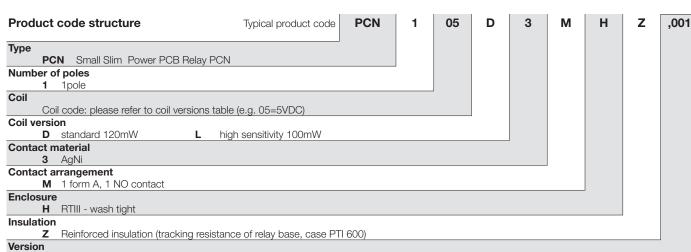
Bottom view on solder pins





Dimensions





00000 3A model

00100 5A model

-EX1 according to IEC60079-15 = 2010

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.

Mouser Electronics

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TE Connectivity: PCN-124D3MHZ,001