

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.

A	p	pr	OV	al	S

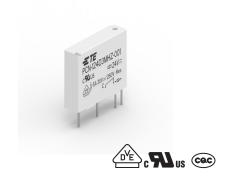
VDE REG.-Nr.40001589, UL E82292, CQC 08001026045

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,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	·

5A, 250 VAO, 16313tiVC, 765 O	ουλίο όρο.
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 LRA, 1.5A FLA, 240VAC, +45°C	30x10 ³

Mechanical endurance, DC coil >10x10⁶ operations

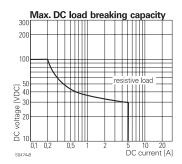


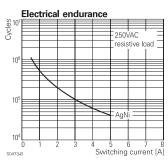
Coil Data	
Coil voltage range	3 to 24VDC
Operative range, IEC 61810	1
Coil insulation system according UL	Class A
	Class F type available upon request

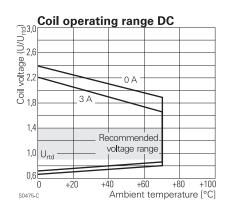
Standard D coil version (120mW), DC coil								
Coil	Rated	Operate		Coil	Rated coil			
code	voltage	voltage		resistance	power			
	VDC	VDC	VDC	$\Omega \pm 10\%$ mW				
03	3	2.1	0.3	75	120			
04	4.5 3.15	3.15	0.45 1	169	120			
05	5	3.5	0.5	208	120			
06	6	4.2	0.6 300	300	120			
09	9			675	120			
12	12			1200	120			
18	18	12.6	1.8 2700 2.35 4602	2700	120			
23	23.5	16.45		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	code 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)

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

Other Data

Packaging/unit

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 -40 to 85°C

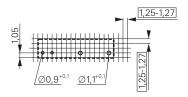
Category of environmental protection

RTIII - wash tight IEC 61810 Vibration resistance (functional) 10 to 55Hz, 1.5mm Vibration resistance (destructive) 10 to 55Hz, 1.5mm Shock resistance (functional) min. 98m/s², 11ms min. 980m/s², 6ms IEC 60068-2-27 (half sine) Shock resistance (destructive) Terminal type PCB-THT Resistance to soldering heat THT IEC 60068-2-20 260°C/5s

box/2000 pcs.

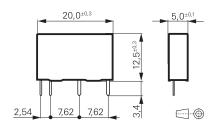
PCB layout / terminal assignment

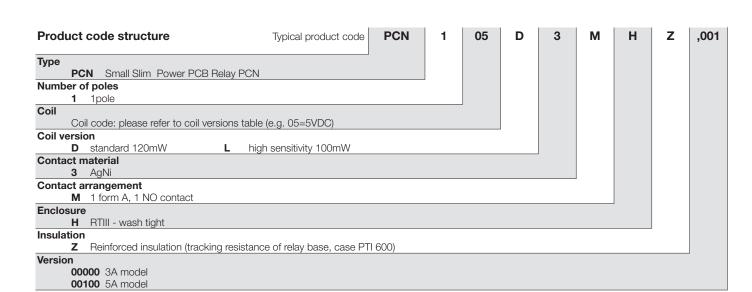
Bottom view on solder pins





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 All

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

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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 6-1616282-3 6-1616348-2 6-1616350-1 6-1616350-8 6-1616358-7 6-
1616359-9 6-1616360-9 6-1616931-6 6-1617039-1 6-1617052-1 6-1617090-2 6-1617090-5 6-1617347-5 6-1617353-3 6-1617801-8 6-
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7-1393144-5 7-1393767-8
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