

# Slimline PCB Relay PCN

- 1 pole 3 A, 1 NO contact
- Only 5 mm wide
- 3 A switching current; 5 A version available
- Load range 1 mA up to 3 A
- Sensitive coil 120 mW
- Allows high function- / packing density
- **■** Cadmium-free contacts
- Z type with reinforced insulation



300

200

100

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10<sup>4</sup>

S0473-B

#### **Applications**

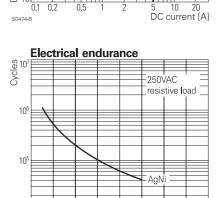
Centralized and decentralized heating control, extremely narrow interface elements, interface technology, timers, PLC's, I/O modules, I/O-ports

App	rova	ls	
$\wedge$			

Contact data	
Contact configuration	1NO
Contact set	bifurcated contact
Type of interruption	micro disconnection
Rated voltage / max. switching voltage AC	250/277 VAC
Rated current	3 A
Limiting continuous current	3 A
Maximum breaking capacity AC	750 VA
Limiting making capacity, max 4 s, duty factor 10%	5 A
Contact material	AgNi90/10
Minimum contact load	5V / 1mA
Rated frequency of operation with / without load	10 / 600 min <sup>-1</sup>
Operate- / release time	max. 8/3 ms
Bounce time NO / NC contact	max. 2/2 ms



Туре	Contact	Load	Ambient temp. [°C]	Cycles
IEC 61810				
PCN-1D3MHZ	NO	3 A, 250 VAC, cosφ=1	70°C	100x10 <sup>3</sup>
PCN-1D3MHZ-001	NO	5 A, 250 VAC, cosφ=1	85°C	30x10 <sup>3</sup>
UL 508		·		
PCN-1D3MHZ	NO	3 A, 250 VAC, resistive	25°C	100x10 <sup>3</sup>
PCN-1D3MHZ	NO	Pilot duty, B300	25°C	6x10 <sup>3</sup>
PCN-1D3MHZ	NO	Pilot duty, R300	25°C	6x10 <sup>3</sup>
PCN-1D3MHZ	NO	9 A LRA, 1,5A FLA, 240 VAC	45°C	30x10 <sup>3</sup>



Max. DC load breaking capacity

e load

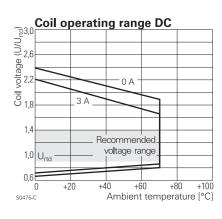
Switching current [A]

Coil data		
Rated coil voltage range DC coil	524 VDC	
Operative range to IEC 61810	1	

#### Coil versions, DC-coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ohm	mW
005	5	3.5	0.5	208±10%	120
006	6	4.2	0.6	300±10%	120
009	9	6.3	0.9	675±10%	120
012	12	8.4	1.2	1200±10%	120
024	24	16.8	2.4	4800±10%	120

All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request



Datasheet Rev. IJ1 Issued 2009/10 www.tycoelectronics.com www.schrackrelays.com

Dimensions are in mm unless otherwise specified and are shown for reference purposes only.

Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

processing information only to be used together with the 'Definitions' section in the catalogue or at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.

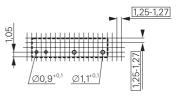


## Slimline PCB Relay PCN (Continued)

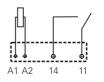
Insulation		
Dielectric strength coil-contact circuit	3000 V <sub>rms</sub>	
open contact circuit	$750  V_{rms}$	
Clearance / creepage coil-contact circuit	$\geq$ 3,5 / 3,5 mm	
Material group of insulation parts		
Tracking index of relay base	PTI 600	
Insulation to IEC 61810-1		
Type of insulation coil-contact circuit	reinforced	
open contact circuit	micro disconnection	
Rated insulation voltage	320 V	
Pollution degree	2	
Rated voltage system	277 V	
Overvoltage category as basic insulation	III	
Overvoltage category as reinforced insulation	II	

### PCB layout / terminal assignment

Bottom view on solder pins

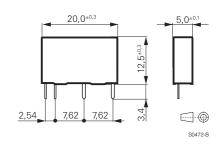


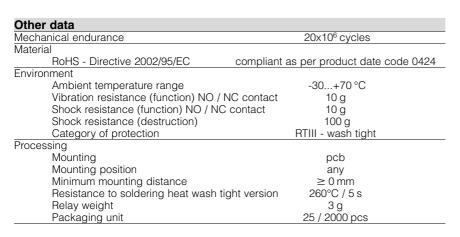
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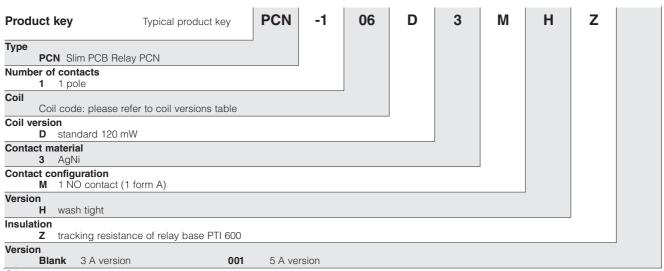


S0471-AB

### Dimensions







Other types on request

Product key	Contacts	Coil	Coil	Contacts	Version	Part number
PCN-105D3MHZ	1-pole	5 VDC	standard	1 NO contact	wash tight	3-1461491-0
PCN-106D3MHZ	·	6 VDC	120 mW	AgNi	high insulation	3-1461491-1
PCN-112D3MHZ		12 VDC		Ŭ.		3-1461491-3
PCN-124D3MHZ		24 VDC				3-1461491-6

change.