

Electronics

Slim PCB Relay PCN

- 1 pole 3 A, 1 NO contact
- Only 5 mm wide
- 3 A switching current
- 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
- RoHS compliant (Directive 2002/95/EC) as per product date code 0424

Applications

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



F0258-A

SCHRACK

Approvals

Contact data	
Contact configuration	1NO
Contact set	bifurcated contact
Type of interruption	micro disconnection
Rated current	3 A
Rated voltage / max.switching voltage AC	240/277 VAC
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
Mechanical endurance	20x10 ⁶ cycles
Rated frequency of operation with / without load	10 / 1200 min ⁻¹

Contact ratings

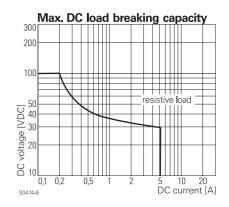
Туре	Load	Cycles
PCN-1D3M.(-,H).(-,Z)	3 A, 250 VAC resistive, 70°C, 20 cycles/min, EN61810-	·1 1x10 ⁵
PCN-1D3M.(-,H).(-,Z)	3 A, 30 VDC, resistive, 70°C, 20 cycles/min, EN61810-	1 1x10 ⁵
PCN-1D3M.(-,H).(-,Z)	Pilot Duty B300 240 VAC, UL508	6x10 ³
PCN-1D3M.(-,H).(-,Z)	Pilot Duty B300 120 VAC, UL508	6x10 ³

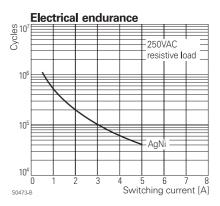
Coil data	
Rated coil voltage range DC coil	DC524 VDC
Coil power DC coil	typ 120 mW
Operative range	1

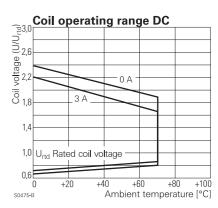
Coil versions, DC-coil

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











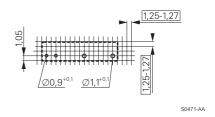
SCHRACK

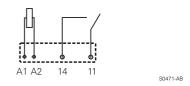
Slim PCB Relay PCN (Continued)

Insulation	
Dielectric strength coil-contact circuit	3000 V _{rms}
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 60664-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	functional
Rated insulation voltage	277 V
Pollution degree	2
Rated voltage system	277 V
Overvoltage category as basic insulation	III
Overvoltage category as reinforced insulation	II

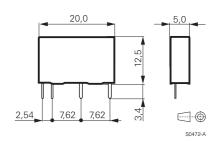
Other data RoHS - Directive 2002/95/EC compliant as per product date code 0424 Flammability class according to UL94 V-0 Ambient temperature range ...+70 °C Operate- / release time Bounce time NO / NC contact typ. 5/2 ms < 1ms Vibration resistance (function) NO / NC contact 10 g 10 g Shock resistance (function) NO / NC contact Shock resistance (destruction) 100 g RTIII - wash tight Category of protection Mounting pcb Mounting position any Minimum mounting distance 0 mm 260°C / 5 s Resistance to soldering heat wash tight version Relay weight 3 g 25 / 2000 pcs Packaging unit

PCB layout / terminal assignment Bottom view on solder pins





Dimensions



Product key	PCN	I 4		D	3	M	Н	7
	FCI	<u> </u>			3	IVI	- 11	
Туре								
Number of contacts								
1 1 pole								
Coil			_					
Coil code: please refer to coil versions table								
Coil version								
D standard 120 mW								
Contact material								
3 AgNi								
Contact configuration								
M 1 NO contact								
Version								
H wash tight								
Insulation								
Z tracking resistance of relay base PTI 600								

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				3-1461491-3
PCN-124D3MHZ		24 VDC				3-1461491-6

'Schrack' section.