- 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

Approvals

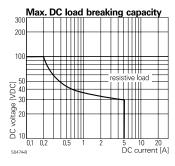
VDE REG.-Nr.6166, cULus E82292, CQC 08001026045 Technical data of approved types on request

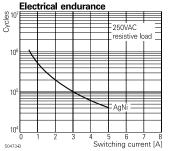
Contact Data	
Contact arrangement	1 from A (NO)
Rated voltage	250VAC/30VDC
Max. switching voltage	277VAC/125VDC
Rated current	3A/5A
Limiting continuous current	3A/5A
Breaking capacity max.	750VA (3A), 1250VA(5A)
Contact material	AgNi, gold plated
Contact style	bifurcated contact
Min. recommended contact load (reference	ce) 5VDC,1mA
Initial contact resistance	30mΩ at 100mA, 6VDC
Frequency of operation, with/without load	10/600min ⁻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 q =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





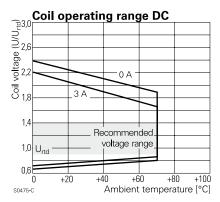
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UDE CRUS COC	F0258-B

Coil Data

Coil voltage range	3 to 24VDC	
Operative range, IEC 61810	1	
Coil insulation system according UL	Class105(A),	
	Class F type available upon request	

Coil versions, DC coil Rated Operate Release Coil Rated coil Coil voltage voltage code voltage resistance power VDC VDC VDC Ω±10% mW 03 3 2.1 0.3 75 120 05 5 3.5 0.5 208 120 06 6 4.2 0.6 300 120 6.3 09 9 0.9 375 120 12 12 8.4 1.2 1200 120 24 4800 24 16.8 2.4 120

All figures are given for coil without pre-energization, at ambient temperature +23°C



Insulation Data

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

09-2010, Rev. 0910

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Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

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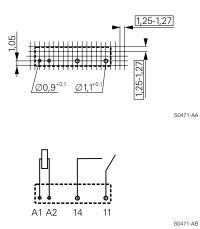
Slimline PCB Relay PCN (Continued)

Other Data

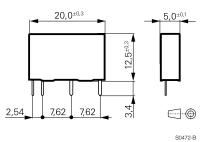
other butu				
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content				
refer to the Product Compliance Support Center at				
www.tycoelectronics.com/customersupport/rohssupportcenter				
Ambient temperature	erature -30 to 70°C			
Category of environmental protection				
IEC 61810	RTIII - wash tight			
Vibration resistance (functional)	10 to 55Hz, 1.5mm			
Vibration resistance (destructive)	10 to 55Hz, 1.5mm			
Shock resistance (functional)				
IEC 60068-2-27 (half sine)	min. 9.8m/s², 11ms			
Shock resistance (destructive)	min. 98m/s², 6ms			
Terminal type	PCB-THT			
Resistance to soldering heat THT				
IEC 60068-2-20	260°C/5s			
Packaging/unit	box/2000 pcs.			



Bottom view on solder pins



Dimensions



,001 Product code structure PCN 05 D 3 М Ζ Typical product code 1 н Туре PCN Small Slim Power PCB Relay PCN Number of poles 1pole 1 Coil Coil code: please refer to coil versions table (e.g. 05=5VDC) **Coil version** D standard 120mW **Contact material** 3 AgNi **Contact arrangement** M 1 form A, 1 NO contact Enclosure H RTIII - wash tight Insulation Ζ Reinforced insulation (tracking resistance of relay base, case PTI 600) Version 000 3A model 001 5A model

Product code	Contact	Coil voltage	Coil	Cont. material	Enclosure	Rating	Part number
PCN-105D3MHZ,000	1-pole	5VDC	120mW	AgNi	RTIII - wash tight	ЗA	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

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