Low Profile PCB Relay PCD

- **1 pole 10 A**
- **1 NO contact**
- **Low coil power 200 mW**
- **Height 10.2 mm**
- **Wash tight**

F0154-D

Applications

Domestic appliances, coffeee machines, irons, office equipment

Approvals

cULus E82292

Technical data of approved types on request

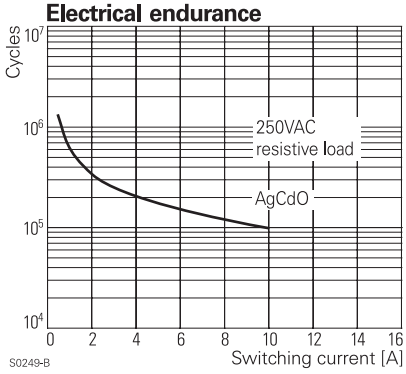
Contact data

Contact configuration	1 NO
Contact set	single contact
Type of interruption	micro disconnection
Rated voltage / max. switching voltage AC	250 / 400 VAC
Rated current	10 A
Limiting continuous current	10 A
Maximum breaking capacity AC	2500 VA
Contact material	$AgSnO_2$, AgCdO
Rated frequency of operation with / without load	10 / 300 min^{-1}
Operate- / release time	max 8 / 2 ms
Bounce time NO / NC contact	max 3 / 2 ms

Contact ratings

Type	Contact	Load	Ambient temp. [°C]	Cycles
UL 508				
PCD-1…D2M(H)	NO	10 A, 250 VAC, resistive	85°C	$50x10^3$
PCD-1…D2M(H)	NO	15 A, 125 VAC, resistive	23°C	$100x10^3$

Electrical endurance



S0249-B

Coil data

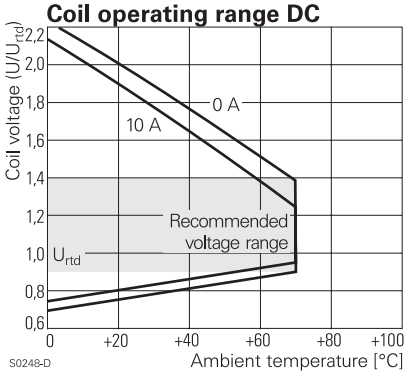
Rated coil voltage range DC coil	3 ... 48 VDC
Operative range to IEC 61810	2

Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
006	6	4.5	0.3	180±10%	200
012	12	9.0	0.6	720±10%	200
024	24	18.0	1.2	2880±10%	200

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

Coil operating range DC



S0248-D

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.

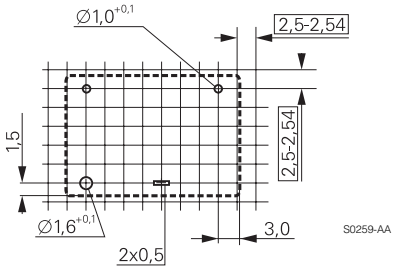
Specifications subject to change.

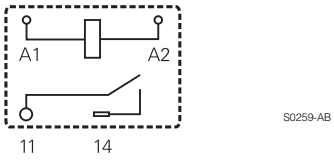
Low Profile PCB Relay PCD (Continued)

Insulation	
Dielectric strength coil-contact circuit	2500 V_{rms}
open contact circuit	750 V_{rms}
Clearance / creepage coil-contact circuit	≥ 4/4 mm
Material group of insulation parts	≥ IIIa
Insulation to IEC 61810-1	
Type of insulation coil-contact circuit	basic
open contact circuit	micro disconnection
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	240 V
Overvoltage category	III

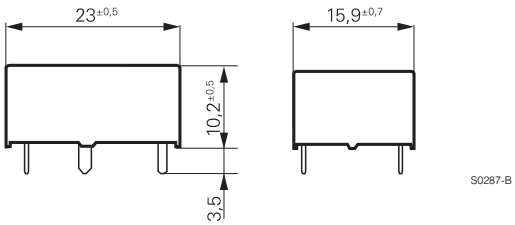
Other data	
Mechanical endurance	>10x10^6 cycles
Material	
RoHS - Directive 2002/95/EC	compliant per as par product date code "DT" (refers to June 2004),
Environment	
Ambient temperature range	-30 ... +70°C
Shock resistance (function) NO / NC contact	10 ms
Shock resistance (destruction)	100 g
Category of protection	RT II - flux proof, RT III - wash tight
Processing	
Resistance to soldering heat flux-proof version	270°C / 10 s
wash-tight version	260°C / 5 s
Relay weight	9 g
Packaging unit	1000 pcs

PCB layout / terminal assignment
Bottom view on solder pins





Dimensions



Product key Typical product key **PCD -1 24 -D 2 M**

Type
PCD Low Profile PCB Relay PCD

Number of contacts
1 1 NO contact

Coil
5 5 VDC **6** 6 VDC
12 12 VDC **24** 24 VDC

Coil version
D standard 200 mW

Contact material
1 AgCdO **2** $AgSnO_2$

Contact configuration
M 1 NO contact (1 form A)

Version
- flux proof **H** wash tight

Other types on request

Product key	Version	Cont. material	Cont.configuration	Coil	Part number
PCD-105-D2M	standard 200mW	$AgSnO_2$	1 NO contact	5 VDC	1721105-1
PCD-112-D2M	flux proof			12 VDC	1721105-4
PCD-124-D2M				24 VDC	1721105-5
PCD-148-D2M				48 VDC	1721105-6
PCD-105-D2MH	standard 200mW			5 VDC	1721105-7
PCD-112-D2MH	wash tight			12 VDC	1-1721105-0
PCD-124-D2MH				24 VDC	1-1721105-1
PCD-148-D2MH				48 VDC	1-1721105-2

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.