

Miniature PCB Relay PCH

- 5 to 10A rating
- 1 form A (NO) and 1 form C (CO) contact arrangements
- Sensitive coil available for 1 form A type

Typical applications Appliances, HVAC, refrigerators, microwave ovens



F_PCH_B







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VDE 119568, UL E82292, CQC08001023449

Technical data of approved types on request

Contact Data	
Contact arrangement	1 Form A (NO)
Rated voltage	30VDC, 277VAC
Max. switching voltage	30VDC, 277VAC
Rated current	5 to 10A
Contact material	AgSnO ₂
Min. recommended contact load	100mA, 5VDC
Frequency of operation	360 ops./h
Operate/release time max.	10/5ms
Electrical endurance	
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D type: 5A, 277VAC resistive, -30°C to +70°C100x10³ ops. L type: 5A, 277VAC resistive, -30°C to +70°C 30x10³ ops. D/L-WG type: 5A, 250VAC resistive, -40°C to +85°C 100x10³ ops.

Contact ratings						
Type	Contact	Load	Cycles			
IEC 61810						
PCH2M-WG	A (NO)	5A 250VAC res, 85°C	100x10 ³			
PCHD2-WG	A of C	5A 250VAC res, 85°C	100x10 ³			
PCHD2M	A (NO)	5A 250VAC res, 70°C	100x10 ³			
PCHL2M	A (NO)	5A 250VAC res, 70°C	30x10 ³			
PCHD2	C (CO)	5A/3A 250VAC res, 40°C	$30x10^3$			
UL 508						
PCH	A (NO)	10A 125VAC res, 85°C	100x10 ³			
PCH	A (NO)	5A 250VAC general use, 85°C	100x10 ³			

Mechanical endurance, DC coil 10x10⁶ operations

Coil Data		
Coil voltage range	3 to 48VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL	Class F	

Coil Data (continued)

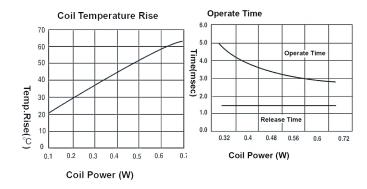
Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10 %	mW
Sensitiv	e type (for fo	rm A type or	nly)		
003	3	2.25	0.15	45	200
005	5	3.75	0.25	125	200
006	6	4.50	0.30	180	200
009	9	6.75	0.45	405	200
012	12	9.00	0.60	720	200
018	18	13.50	0.90	1620	200
024	24	18.00	1.20	2880	200
048	48	36.00	2.40	11520	200

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

Coil versions, DC coil

	,	•			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10 %	mW
Standar	d type				
003	3	2.10	0.15	23	400
005	5	3.50	0.25	63	400
006	6	4.20	0.30	90	400
009	9	6.30	0.45	202	400
012	12	8.40	0.60	360	400
018	18	12.60	0.90	810	400
024	24	16.80	1.20	1440	400
048	48	33.60	2.40	5760	400

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





Miniature PCB Relay PCH (Continued)

Insulation Data	
Initial dielectric strength	
between open contacts	$750V_{rms}$
between contact and coil	$4000V_{rms}$
Initial surge withstand voltage	
between contact and coil	10000V _{rms}
Clearance/creepage	
between contact and coil	NO: ≥ 4.9mm / 6.6mm
between contact and coil	CO: ≥ 4mm / 5mm
Tracking index of relay base	
standard type	PTI 175
WG txype	PTI 250

Other Data

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

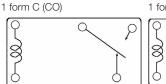
Ambient temperature -40°C to +85°C
Category of environmental protection
IEC 61810
RTII - flux tight
RTIII - wash tight
Shock resistance (functional)
Shock resistance (destructive)
100g
Weight
7g

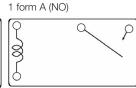
Resistance to soldering heat THT
IEC 60068-2-20
RTII: 270°C/10s
RTIII: 260°C/5s

Packaging unit tray/100 pcs., carton box/1000 pcs.

Terminal assignment

Bottom view on solder pins

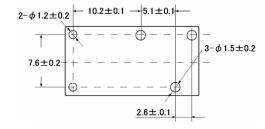




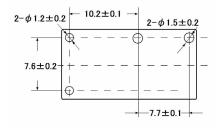
PCB layout

Bottom view on solder pins

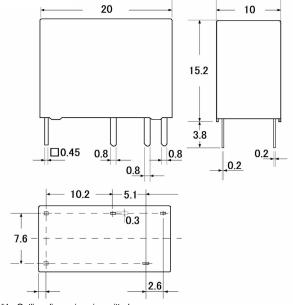
1 form C (CO)



1 form A (NO)



Dimensions

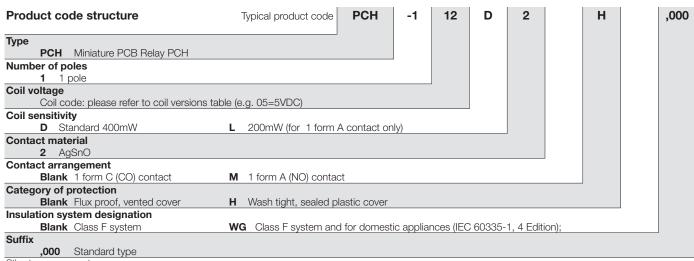


^{*1}a Outline dimensions is omitted.

Tolerance: 0.99mm Max.: +/-0.1mm, 1-2.99mm: +/-0.2mm, 3mm Min.: +/-0.3r



Miniature PCB Relay PCH (Continued)



Other types on request

Product code	Coil	Sensitivity	Cont.material	Arrangement	Enclosure	Insulation	Part number
PCH-105D2H,000	5VDC	Standard	AgSnO ₂	1 form C (CO)	Wash tight	Class F	9-1440003-0
PCH-105L2M,000		Sensitive		1 form A (NO)	Flux proof		1461352-2
PCH-105L2MH,000					Wash tight		1461353-2
PCH-105L2M-WG					Flux proof	Cl. F, IEC 60335-1	1721768-2
PCH-106D2,000	6VDC	Standard		1 form C (CO)		Class F	9-1440003-8
PCH-109D2H,000	9VDC				Wash tight		9-1440003-2
PCH-112D2,000	12VDC				Flux proof		1440004
PCH-112D2H,000					Wash tight		9-1440003-3
PCH-112D2M,000				1 form A (NO)	Flux proof		1461350-5
PCH-112D2M-WG						Cl. F, IEC 60335-1	1721767-5
PCH-112D2-WG				1 form C (CO)			1721766-5
PCH-112L2M,000		Sensitive		1 form A (NO)		Class F	1461352-5
PCH-112L2MH,000					Wash tight		1461353-5
PCH-112L2M-WG					Flux proof	Cl. F, IEC 60335-1	1721768-5
PCH-124D2,000	24VDC	Standard		1 form C (CO)		Class F	1440004-1
PCH-124D2H,000					Wash tight		9-1440003-5
PCH-124D2M,000				1 form A (NO)	Flux proof		1461350-6
PCH-124D2MH,000					Wash tight		1461351-6
PCH-124L2M,000		Sensitive			Flux proof		1461352-6
PCH-124L2MH,000					Wash tight		1461353-6
PCH-124L2M-WG					Flux proof	Cl. F, IEC 60335-1	1721768-6
PCH-148D2,000	48VDC	Standard		1 form C (CO)		Class F	1461410-2

terms of the disclaimer and all chapters of

the 'Definitions' section, available at

http://relays.te.com/definitions

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