

Miniature Power PCB Relay PCH

- 1pole 5 A, 1CO or 1NO contact
- Sensitive 200 mW coil available
- Version PCH-WG with tracking resistance PTI 250 on relay base and cover
- WG version: Product in accordance to IEC60335-1
- RoHS compliant (Directive 2002/95/EC) as per product date code 0424





F-PCH

Applications

Domestic appliances, heating control, building control, measurement&control

Approvals

PCH / PCH-WG:  119568  us E82292
 Technical data of approved types on request

Contact data	PCH	PCH-WG
Contact configuration	1 CO or 1 NO	
Contact set	single contact	
Type of interruption	micro-disconn.	
Rated current	5 A	
Rated voltage / max.switching voltage AC	250/400 VAC	
Maximum breaking capacity AC	1250 VA	
Contact material	AgSnO	
Mechanical endurance	1.5x10 ⁶ cycles	10x10 ⁶ cycles
Rated frequency of operation with / without load	6/600 min ⁻¹	

Contact ratings

Type	Load	Cycles
PCH-XXX2M-WG	N/O, 5 A, 250VAC, 85°C, resistive, EN61810-1	100x10 ³
PCH-XXX2-WG	C/O (N/O tested): 5 A, 250VAC, 85°C, res. EN61810-1	100x10 ³
PCH-XXXD2M	N/O, 5 A, 250VAC, 70°C, resistive, EN61810-1	100x10 ³
PCH-XXXL2M	N/O, 5 A, 250VAC, 70°C, resistive, EN61810-1	30x10 ³
PCH-XXXD2	C/O, 3 A, 250VAC, 40°C, resistive, EN61810-1	30x10 ³

Coil data	standard	sensitiv
Rated coil voltage range DC coil	5...48 VDC	5...24 VDC
Coil power DC coil	typ. 400 mW	typ. 200 mW
Operative range	1	
Coil insulation system according UL1446	class F	

Coil versions, DC-coil - standard

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
05	5	3.75	0.5	62.5±10%	400
06	6	4.5	0.6	80±10%	400
09	9	6.3	0.9	202.5±10%	400
12	12	8.4	1.2	360±10%	400
24	24	16.8	2.4	1440±10%	400
48	48	33.6	4.8	5760±10%	400

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

Miniature Power PCB Relay PCH (Continued)

Coil versions, DC-coil - sensitive

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
05	5	3.75	0.5	125±10%	200
06	6	4.5	0.6	180±10%	200
09	9	6.75	0.9	400±10%	200
12	12	9.0	1.2	720±10%	200
24	24	18.0	2.4	2800±10%	200

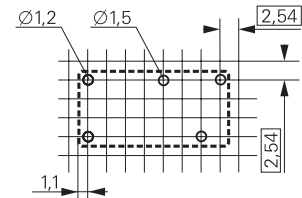
All figures are given for coil without preenergization, at ambient temperature +23°C
Other coil voltages on request

Insulation	PCH	PCH-WG
Dielectric strength coil-contact circuit		4000 V _{rms}
open contact circuit		1000 V _{rms}
Clearance / creepage coil-contact circuit		
N/O:		5.5 / 9 mm
C/O:		4.5 / 9 mm
Material group of insulation parts		IIIa
Tracking index of relay base	PTI 175	PTI 250
Insulation to IEC 60664-1		
Type of insulation coil-contact circuit		basic
open contact circuit		functional
Rated insulation voltage		250 V
Pollution degree	2	3
Rated voltage system		250 V
Overvoltage category		III

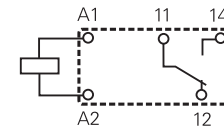
Other data	PCH	PCH-WG
RoHS - Directive 2002/95/EC	compliant as per product date code 0424	
For WG version: GWFI to IEC 60695-2-12		960°C
GWIT to IEC 60695-2-13		775°C
Flammability class according to UL94		V0
Ambient temperature range		
all WG-versions:		-40...85°C
Standard N/O:		-30...70°C
Standard C/O:		-30...40°C
Operate- / release time		typ. 10/5 ms
Bounce time N/O / N/C contact		typ. 1 / 3 ms
Vibration resistance (function) NO / NC contact		>14 / 8 g, 30...400 Hz
Shock resistance (destruction)		100 g
Category of protection		RTII - flux proof RTIII - wash tight
Mounting		PCB
Resistance to soldering heat flux-proof version		270°C / 10 s
wash-tight version		260°C / 5 s
Relay weight		7 g
Packaging unit		25/1000 pcs

PCB layout / terminal assignment

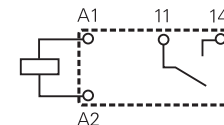
Bottom view on solder pins



S0550-AA

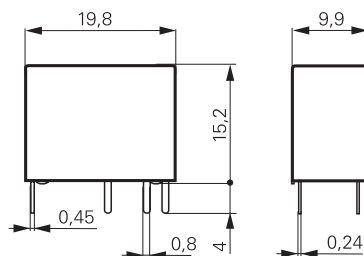


S0550-AB



S0550-AC

Dimensions



S0551A

