

Features

- Rated Current : 5A
- Dielectric Strength : row coil power : 200mW

Contact Data @ 23°C

Contact Arrangements: 1a (1FormA), 1c (1FormC) Contact Material: AgSnO₂ Max. Switching Rate: 300 ops./min. (no load)

20 ops./min. (rated load) Expected Mechanical Life: 10,000,000 ops. (no load) Expected Electrical Life: 100,000 ops. (rated load) Min. Contact Load : 100mA,5VDC (reference data) Initial Contact Resistance : 100miliohms @ 1A ,6VDC

Contact Ratings						
Ratings :						
1a,400mW	5A 277VAC (resistive load)					
	5A 30VDC (resistive load)					
	10A 125VDC (resistive load)					
	TV-3 (NO contact)					
1c,400mW	5A(NO contact),3A(NC contact) 277VAC(resistive load)					
	5A(NO contact),3A(NC contact) 30VDC(resistive load)					
	TV-3 (NO contact)					
1a,200mW	5A 277VAC (resistive load)					
	5A 30VDC (resistive load)					
	10A 125VAC (resistive load)					

Max. Switching Voltage : 277VAC,30VDC Max. Switching Current : 10A(NO contact),3A(NC contact) Max. Switching Power : 1,385VA(AC), 150W(DC)(NO contact) 831VA(AC), 90W(DC)(NC contact)

Initial Dielectric Strength

Between Open Contacts : 750VAC 50/60Hz (1min.) Between Coil and Contacts : 4,000VAC 50/60Hz(1min.) Surge Voltage Between Coil and Contacts : 8,000V(1.2/50µs)

Initial Contact Resistance

Between Mutually Insulated Conductors : 1,000 milliohms @ 500VDC

PCH series

5Amp Compact And High Capacity

PC Board Mount, Cd-free, Pb-free, RoHS Compliant

Air Conditioners, Refrigerators, Microwave Ovens

.91	File No.	E82292
SP	File No.	LR48471(400mW standard
VDE	RegNr.	119568
COC	File No.	08001023449

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

type)

Coil Data @ 23°C

Rated Voltage : 5-48*VDC (* Not prepared 48Vdc / 200mW type) Rated Power : 400mW(standard type), 200mW(High Sensitive Type)

Limiting Voltage: 130% of nominal.

Coil Data @23°C

400mW(Standard type)							
Rated Coil Voltage (VDC)	Rated Current (mA)	Coil Operate Resistance Voltage (ohms)±10% (VDC)		Release Voltage (VDC)			
5	80.0	62.5	3.75	0.25			
6	66.7	90.0 4.50		0.30			
9	44.4	202.5 6.75		0.45			
12	33.3	360	9.0	0.6			
18	22.2	810	13.5	0.9			
24	11.1	1440	18.0	1.2			
48	5.6	5760	36.0	2.4			

Coil Data @23°C

200mW(High Sensitive Type)*							
Rated Coil Voltage (VDC)	Rated Current (mA)	rrent Resistance Voltage		Release Voltage (VDC)			
5 40.		125	3.75	0.25			
6	30.0	180	4.50	0.30			
9	22.5	400	6.75	0.45			
12	16.7	720	9.0	0.6			
24 8.6		2880	18.0	1.2			

*Not prepared 1 From C / 200mW type

Operate Data

Operate Voltage : 75% of nominal voltage or less Release Voltage : 5% of nominal voltage or more Operate Time : 10ms max Release Time : 5ms max

Environmental Data

Temperature Range : $-40^{\circ}C \sim 70^{\circ}C$ (on conditions without freezing and dew condensation)

Vibration, Mechanical : 10~55Hz. 1.5mm double amplitude Operational : 10~55Hz. 1.5mm double amplitude

Shock, Mechanical : 980m/s² (Half -Sine wave of 6ms) Operational : 98m/s²

(Half -Sine wave of 11ms, permitted duration 1ms) Operating Humidity : 20~85%RH (Non-condensing)

Mechanical Data

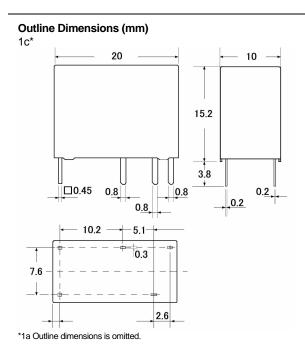
Termination	: PC board terminals
Enclosure :	blank ; Flux Proof
	H ; Wash Tight
Weight :	Approx. 7g

© Copyright 2009 by Tyco Electronics Japan G.K. All rights reserved. Edition: 1/2010 REV.B **TYCO Electronics Japan G.K.** [3-5-8, Hisamoto Takatsu-ku Kawasaki, 213-8535, Japan, TEL: 81 44 844 8445] This document is subject to change, Please call local TYCO Electronics for the latest version.

Ordering Information for Relays

			Example	e Part No.	PCH	-1	12	D	2	М	н	,000,
1. Basic S	eries PCH =	Compact PCB mc	ount type									
2. Poles	1 =	1pole										
3. Coil Vol	tage 05 = 06 = 09 =	5VDC 6VDC 9VDC	12= 24 = 48 =	12VDC 24VDC 48VDC*								
4. Coil Pov	wer D = L =	400mW (1a,1c) 200mW (1a)										
5. Contact	Material 2 =	AgSnO ₂										
6. Contact	Arrangement blank = M =											
7. Enclosu	ire blank = H =	Flux Proof Wash Tight										
8. Suffix	,000 = Other Suffix =	Standard model Custom model										

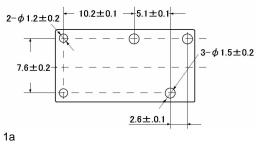
*Coil voltage: 48VDC only can chose 400mW type.

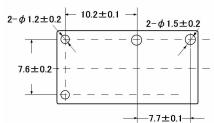


Tolerance: 0.99mm Max.: +/-0.1mm, 1-2.99mm: +/-0.2mm, 3mm Min.: +/-0.3mm

Wiring Diagram (Bottom View) 1c 1a 1a 1a 1a 1a 1a 1a 1a

PC Board Layout (mm) (Bottom View) 1c

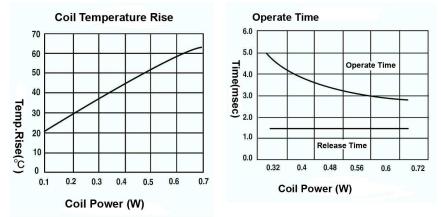




© Copyright 2009 by Tyco Electronics Japan G.K. All rights reserved. Edition: 1/2010 REV.B **TYCO Electronics Japan G.K.** [3-5-8, Hisamoto Takatsu-ku Kawasaki, 213-8535, Japan, TEL: 81 44 844 8445] This document is subject to change, Please call local TYCO Electronics for the latest version.

Downloaded from Elcodis.com electronic components distributor

Reference Data



*Above reference data is apply for 1 Form C / NO contact side, rated voltage: 277Vac / Coil power: 400mW. *Please contact with us about the graph of expected electrical life.