

FEATURES

- Outline dimension (20.0mm×10.0mm×15.2mm)
- 1 Form A (SPST) or 1 Form C (SPDT) contact arrangement
- Designed to meet cULus, TUV, CQC requirements
- 4,000VAC dielectric strength between coil and contact
- Sensitive and standard coils available
- RoHS compliance
- REACH SvHC compliance
- Halogen-Free type available Glow
- Glow wire type



File NO. E341422



File NO. R50174892



File NO. CQC10002043606

APPLICATION

Air Conditioner, Washing Machine, Microwave Oven,
Power Meter, Industrial Control

COIL PARAMETER

Coil voltage	3-48VDC	
Coil power	Sensitive	200mW
	Standard	400mW

COIL DATA@23°C

A2-LA2/LC2(200mW).Sensitive				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω)±10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
3	66.7	45	2.25	0.15
5	40.0	125	3.75	0.25
6	33.3	180	4.5	0.3
9	22.2	405	6.75	0.45
12	16.7	720	9	0.6
18	11.1	1620	13.5	0.9
24	8.3	2880	18	1.2
48	4.2	11520	36	2.4

A2-DA2/DC2(400mW).Standard				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω)±10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
3	133.3	22.5	2.25	0.15
5	80.0	62.5	3.75	0.25
6	66.7	90	4.5	0.3
9	44.4	202.5	6.75	0.45
12	33.3	360	9	0.6
18	22.2	810	13.5	0.9
24	16.7	1440	18	1.2
48	8.3	5760	36	2.4

CONTACT DATA

Contact arrangement	1 Form A (SPST) / 1 Form C (SPDT)	
Contact material	Ag Alloy	
Initial contact resistance	100mΩ max.@6VDC,1A	
Max. switching voltage	277VAC/30VDC	
Max. switching current	7A(N.O.)/5A(N.C)	
Max. switching power	1,939VA/150W(N.O)	
	830VA/90W(N.C)	
Contact rating (Resistive Load)	Form A	10A @ 125VAC
		5A @ 277VAC/30VDC
		H Type 7A @ 277VAC
	Form C	5A @ 277VAC/30VDC (N.O)
		3A @ 277VAC/30VDC (N.C)
	H Type	7A @ 277VAC (N.O)
		5A @ 277VAC (N.C)
Mechanical endurance	10,000,000 ops Min.(no load)	
Electrical endurance	100,000 ops Min(rated load)	
Minimum load (reference value)	100mA@5VDC	

CHARACTERISTICS

Operate voltage	75% of nominal voltage or less	
Release voltage	5% of nominal voltage or more	
Operate time (At nominal voltage)	Sensitive Coil	15ms max.
	Standard Coil	10ms max.
Release time(At nominal voltage)	5ms max.	
Insulation resistance	1,000 MΩ min. (at 500 VDC)	
Dielectric strength	Between coil and contacts	4,000 VAC, 50/60 Hz for 1 min
	Between open contacts	1,000 VAC, 50/60 Hz for 1 min
Surge voltage between coil and contacts	8,000V(1.2/50μs)	
Vibration resistance	Destruction	10 to 55 Hz, 1.5mm double amplitude
	Malfunction	10 to 55 Hz, 1.5mm double amplitude
Shock resistance	Destruction	1,000 m/s ² (100G approximately)
	Malfunction	100 m/s ² (10G approximately)
Ambient temperature	Operating: -40~+85°C (without icing or condensation)	
Ambient humidity	Operating: 20% to 85% RH	
Terminal	PCB terminals	
Enclosure (94V-0 Flammability Ratings)	V: Vented(Flux-tight, RTII)	
	S: Sealed(Wash-tight, RTIII)	
Weight	Approx. 7g	

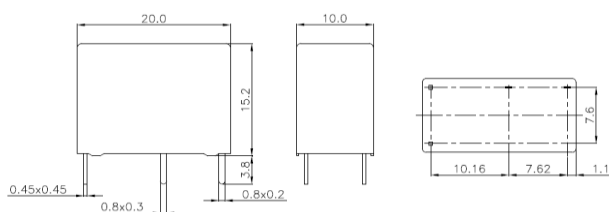


ORDERING INFORMATION

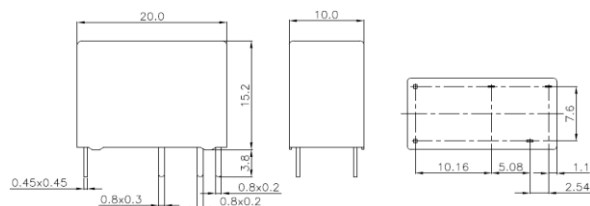
	A2	-V	-1	12	D	A	2	H	,000
1.Product Family									
2.Enclosure									
V=Vented(Flux-tight, RTII) S=Sealed(Wash-tight,									
3.Number of Poles									
1=1 pole									
4.Rated Coil Voltage									
03,05,06,09,12,18,24,48VDC									
5.Coil Power									
L = Sensitive(200mW) D = Standard(400mW)									
6.Contact Arrangement									
A = Form A(SPST) C = Form C(SPDT)									
7.Contact Material									
2 = AgSnO ₂									
8.Rated Current									
Blank = 5A H = 7A									
9.Additional numbers and /or letters									
000-999 , AAA-ZZZ , aaa-zzz or blank , which does not represent electrical changes, only for specific customer requirements									

OUTLINE DIMENSION

Form A

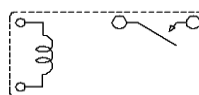


Form C

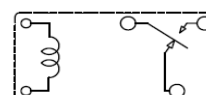


WIRING DIAGRAMS (BOTTOM VIEWS)

Form A

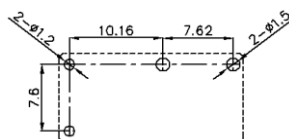


Form C

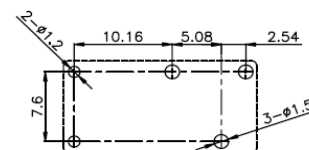


PC BOARD LAYOUTS (BOTTOM VIEWS)

Form A



Form C

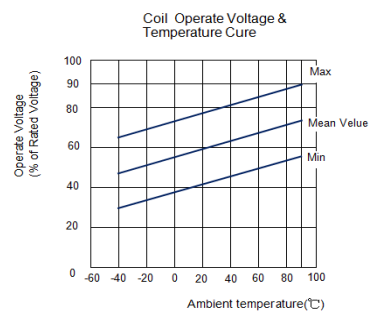
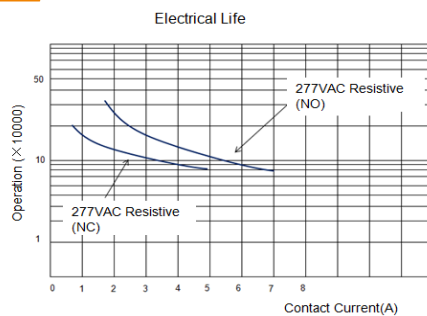
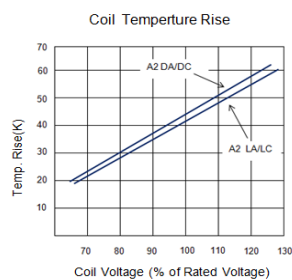


Remarks:

- The reference tolerance in outline dimension:
outline dimension $\leq 1\text{mm}$, reference tolerance is $\pm 0.2\text{mm}$;
outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, reference tolerance is $\pm 0.3\text{mm}$;
outline dimension $> 5\text{mm}$, reference tolerance is $\pm 0.5\text{mm}$.
- The reference tolerance for PC Board layout is $\pm 0.1\text{mm}$.

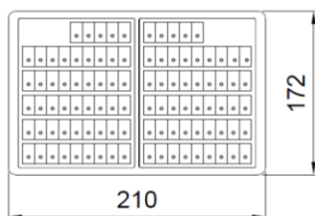


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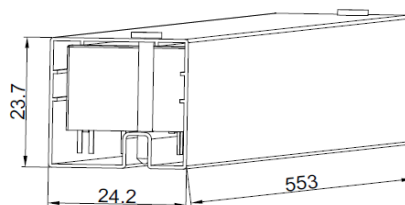
PACKAGING FIGURE

1.BOX



100 pcs inside a box
1000pcs inside a carton

2.TUBE



50 pcs inside a tube
2000 pcs inside a carton

Disclaimer :

The specification is for reference only,if you need more detail information,please contact Churod. We could not evaluate all the performance and all parameters for every possible application. And the user should be in a right position to choose the suitable product for their own application.If there is any new need,please contact Churod for the technical service.

[Http://www.churod.com](http://www.churod.com)

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