

FEATURES

- Outline dimension (18.2mm×10.2mm×14.9mm)
- 1 Form A (SPST) contact arrangement
- Designed to meet cULus,TUV,CQC requirements
- 4,000VAC dielectric strength between coil and contact
- RoHS compliance
- REACH SvHC compliance
- Halogen-Free type available Glow
- Glow wire type



APPLICATION

Smart Socket, Home Appliance , Industrial Control Appliances

COIL PARAMETER

Coil voltage	3-48VDC
Coil power	400mW

COIL DATA @23°C

A16				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω)±10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
3	13.3	23	2.25	0.15
5	80.0	63	3.75	0.25
9	44.4	203	6.75	0.45
12	33.3	360	9.00	0.60
18	22.2	810	13.50	0.90
24	16.7	1440	18.00	1.20
48	8.3	5760	36.00	2.40

CONTACT DATA

Contact arrangement	1 Form A (SPST)
Contact material	Ag Alloy
Initial contact resistance	100mΩ max.@6VDC,1A
Max. switching voltage	277VAC/30VDC
Max. switching current	16A
Max. switching power	4432VA/480W
Contact rating(Resistive Load)	16A 277/250/125VAC,Resistive Load
	1/6HP 250/125VAC,Motor TV-8 250/125VAC,TV Load
Mechanical endurance	10,000,000 ops Min.(no Load)
Minimum load(reference value)	100mA@5VDC

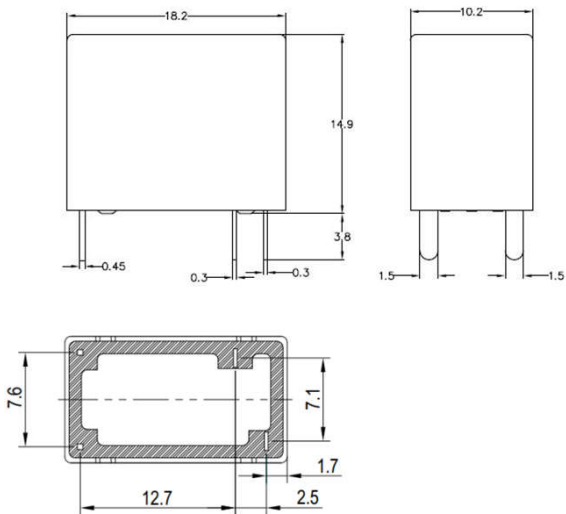
CHARACTERISTICS

Operate voltage	75% of nominal voltage or less	
Release voltage	5% of nominal voltage or more	
Operate time(At nominal voltage)	10ms max.	
Release time(At nominal voltage)	4ms 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	10,000V(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	-40~ +85°C (without icing or condensation)	
Ambient humidity	20% to 85% RH	
Terminal	PCB terminals	
Enclosure (94V-0 Flammability Ratings)	V: Vented(Flux-tight, RTII)	
Weight	Approx. 6g	

ORDERING INFORMATION

	A16	-V	-1	12	D	A	2	F	,000
1.Product Family									
2.Enclosure									
V=Vented(Flux-tight, RTII)									
3.Number of Poles									
1=1 pole									
4.Rated Coil Voltage									
03,05,09,12,18,24,48VDC									
5.Coil Power									
D =Standard(400mW)									
6.Contact Arrangement									
A = Form A(SPST)									
7.Contact Material									
2=AgSnO ₂									
8.Insulation System									
F = Class F(155°C)									
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									

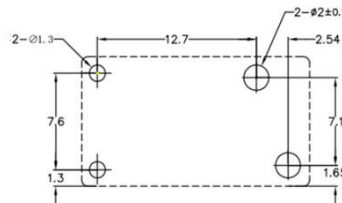
OUTLINE DIMENSION



WIRING DIAGRAMS (BOTTOM VIEWS)



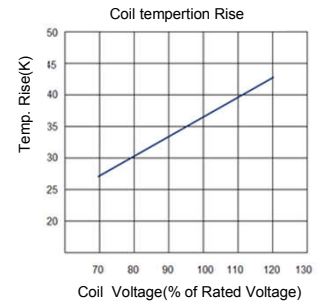
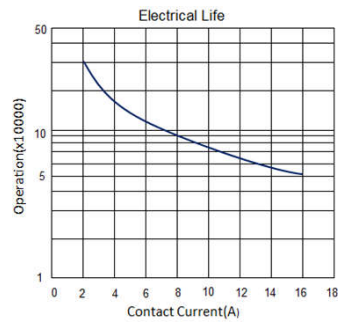
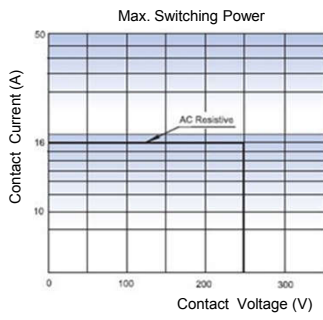
PC BOARD LAYOUTS (BOTTOM VIEWS)



Remarks:

- 1)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 $\pm 0.5\text{mm}$.
- 2)The reference tolerance for PC Board layout is $\pm 0.1\text{mm}$.

Reference Date



Test Condition:

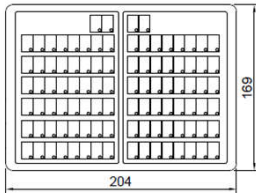
Resistive Load, 250VAC, $\cos \phi$
=0.75 85°C, 1s on/9s off

Test Condition: 85°C 16A

Mounting distance: 10mm

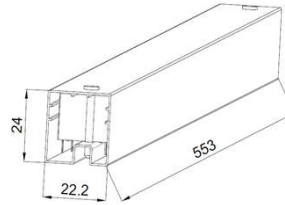
Packaging Figure

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.

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