A16-H Series

16A MINIATURE POWER RELAY



FEATURES

- Outline dimension (19mm×10.2mm×14.9mm)
- 1 Form A (SPST) contact arrangement
- Designed to meet cULus,TUV,CQC requirements
- 4,000VAC dielectric stenght between coil and contact
- RoHS compliance
- REACH SvHC compliance
- Glow wire type avaliable





File NO. R50461636



File NO. CQC20002239037

APPLICATION

Smart socket, Home appliance, Industrial controls,etc

COIL PARAMETER

Coil voltage	3-48VDC	
Coil power	450mW	

COIL DATA @23°C

A16-H					
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω)±10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)	
3	150	20	2.25	0.15	
5	89.0	55.6	3.75	0.25	
9	50	180	6.75	0.45	
12	37.5	320	9.00	0.60	
18	25	720	13.50	0.90	
24	18.7	1280	18.00	1.20	
48	9.4	5120	36.00	2.40	

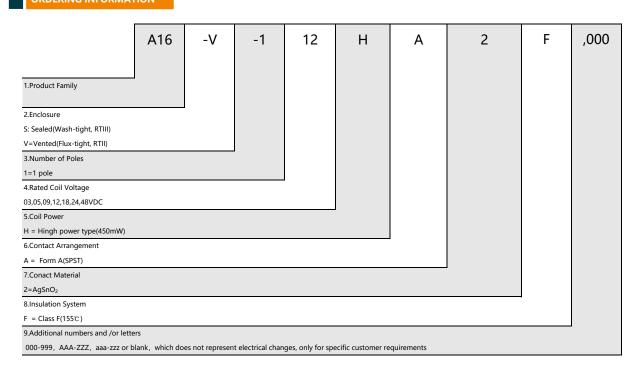
CONTACT DATA

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	t 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	1,000,000 ops Min.(no Load)		
Electrical endurance	16A 277VAC , 1s/9s on/off, 100,000 ops		
Minimum load (reference value)	100mA@5VDC		

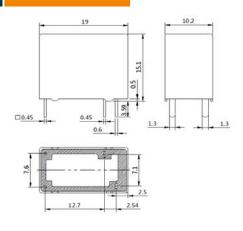
CHARACTERISTICS

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	Betw	een 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		il 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/s2(100G approximately)		
		Malfunction	100 m/s2(10G approximately)		
Ambient temperature			-40~+85°C (without icing or condensation)		
Ambient humidity			20%~85% RH		
Terminal			PCB terminals		
Enclosure (94V-0 Flammability Ratings)			V: Vented(Flux-tight, RTII)		
			S: Sealed(Wash-tight, RTIII)		
Weight			Approx. 6g		

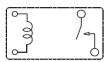
ORDERING INFORMATION



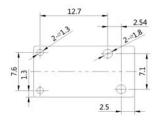
OUTLINE DIMENSION



WIRING DIAGRAMS (BOTTOM VIEWS)



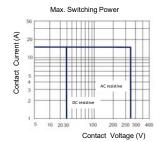
PC BOARD LAYOUTS (BOTTOM VIEWS)

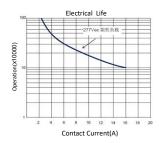


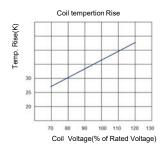
Remarks:

1)The reference tolerance in outline dimension: outline dimension ≤ 1 mm, reference tolerance is ± 0.2 mm; outline dimension > 1mm and ≤ 5 mm, reference tolerance is ± 0.3 mm; outline dimension > 5mm, reference tolerance is ± 0.5 mm. 2)The reference tolerance for PC Board layout is ± 0.1 mm.

Reference Date







Test Condition:

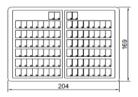
Resistive Load, 250VAC, cosφ=0.75 85

°C,1s on/9s off

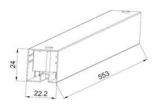
Test Condition: 85°C 16A Mounting distance: 10mm

Packaging Flgure

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.