

CHM Series

FEATURES

- Outline dimension (20.4mm×7.0mm×15.0mm)
- 1 Form A (SPST) contact arrangement
- Designed to meet cULus, TUV, CQC requirements
- 4,000VAC dielectric strenght between coil and contact
- RoHS compliance
- REACH SvHC compliance
- Halogen-Free type available Glow
- ■Glow wire type

APPLICATION

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

COIL

COIL PARAMETER

Coil voltage	3-24VDC		
Coil power	200mW		

COIL DATA @23℃

СНМ						
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	4.50	0.30		
9	22.5	405	6.75	0.45		
12	16.7	720	9.00	0.60		
18	11.1	1620	13.50	0.90		
24	8.6	2880	18.00	1.20		

5A MINIATURE POWER RELAY

LY File NO. E341422

TUV File NO. R50196152

CQC File NO. CQC11002055116



CONTACT DATA

Contact arrangement	1 Form A (SPST)		
Contact material	Ag Alloy		
Initial contact resistance	100mΩ max.@6VDC,1A		
Max. switching voltage	250VAC/30V DC		
Max. switching current	5A		
Max. switching power	1,250VA/150W		
Contact rating(Resistive Load)	5A@250VAC		
Contact rating(Nesistive Load)	5A@30VDC		
Mechanical endurance	10,000,000 ops Min.(no load)		
Electrical endurance	100,000 ops Min.(rated load)		
Minimum load	100mA@5VDC		

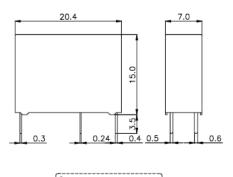
CHARACTERISTICS

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 n	ominal voltage)	5ms max.				
Insulation resistan	ce	1,000 MΩ min. (at 500 VDC)				
Dielectric Between	coil and contacts	4,000 VAC, 50/60 Hz for 1 min				
strength Between	open contacts	1,000 VAC, 50/60 Hz for 1 min				
Surge voltage bet	ween coil and contacts	7,000V(1.2/50µs)				
Vibration esistance	Destruction	10 to 55 Hz.,1.5mm double amplitude				
VIDIATION ESISTANC	Malfunction	10 to 55 Hz.,1.5mm double amplitude				
Shock resistance	Destruction	1,000 m/s ² (100G approximately)				
SHOCK resistance	Malfunction	100 m/s ² (10G approximately)				
Ambient temperature		Operating: -40~+90°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. 4g				

ORDERING INFORMATION CHM D 3 '000 -1 12 Α 1. Product Family 2. Enclosure V=Vented(Flux-tight, RTII) S=Sealed(Wash-tight, RTIII) 3. Number of Poles 1=1 pole 4. Rated Coil Voltage 03=3VDC 05=5VDC 06=6VDC 09=9VDC 12=12VDC 18=18VDC 24=24VDC 5. Coil Power D = Standard(200mW) 6. Contact Arrangement A = Form A(SPST)7. Conact Arrangement 3 = Ag alloy 8. Additional numbers and /or letters

OUTLINE DIMENSION

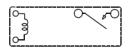
specific customer requirements





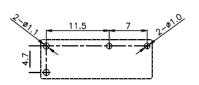
WIRING DIAGRAMS (BOTTOM VIEWS)

Unit:mm



PC BOARD LAYOUTS (BOTTOM VIEWS)

Unit:mm



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

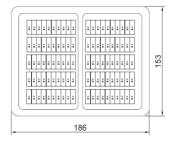
000-999, AAA-ZZZ, aaa-zzz or blank, which does not represent electrical changes, only for

Typical products

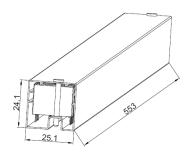
Product Descri	Characteristic								
Product Name	Code	Coil Rated voltage	Contact material	Contact Load	Electrical endurance	Safety certification	Glow	Anti- explosio n	Special Feature
CHM-V-1**DA3	000		3V.5V.6V.9V. 12V.18V.24V Ag Alloy .48V 3	5A @250VAC	100000ops.min	UL/cUL,TUV,CQC			
	200						•		
CHM-S-1**DA3	000								
	200	3\/ 5\/ 6\/ 9\/					•		
	210	12V.18V.24V					•		contact resistance: 50mΩmax
	600	.40 V		3A @250VAC			•		
	700			5A @250VAC			•		
	F600			3A @250VAC			•	•	
	F700			5A @250VAC			•	•	

Remarks: Special ordering for other requirements

Packaging Flgure



A Box of 100 Products



One Tupe Holds 50 Products