

# **CHDR RELAY SERIES**

## 100 A POWER DCRELAY



- Outline dimension(47.6mmX40.0mmX45.1mm)
- Contact arrangement 1 Double Make contact / 1 Form X
- Contact gap 3mmMin.
- Designed to meet IEC60947-4-1, UL60947-4-1, GB14048.4 requirements
- PC Board type
- RoHS compliance
- REACH SvHC compliance

## APPLICATION

DCpower control Inverter pre charge circuit control (H type) Industrial control

## COIL

Coil voltage	12VDC,24VDC,48VDC
Coil power	3.2W

#### COIL DATA@23℃

Rated coil voltage (VDC)	Coil Current (mA)	Coil Resistance (Ω)±10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
12	267	45	9	0.6
24	13'3	180	18	1'2
48	66.7	720	36	2.4



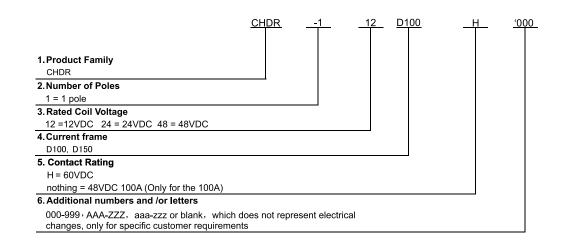
## CONTACT DATA

Туре	Н	Н	nothing
Contact arrangement	1 Form X	1 Form X	1 Form X
Contact material	Ag Alloy	Ag Alloy	Ag Alloy
Initial contact resistance	100mΩ max. @6VDC,1A	100mΩ max. @6VDC,1A	100mΩ max. @6VDC,1A
Max. switching voltage	60VDC	60VDC	60VDC
Max. switching current	150A	100A	100Å <b>C</b>
Max. switching power	9000W	6000W	4800W
Contact rating	150A @60VDC (resistive)	100A @60VDC (resistive)	100A @48VDC (resistive)
Mechanical endurance	1,000,000 ops Min (no load)		
Electrical endurance	1,000ops	1,000 ops	3,000 ops
Minimum load(reference value)	100mA(5VDC)		

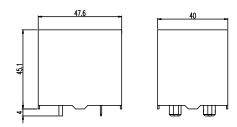
## CHARACTERISTICS

Operate voltage			75% of rated voltage or less	
Release voltage			5% of rated voltage or more	
Operate time (at rated voltage)		ted voltage)	30ms max.	
Release time(At nominal voltage)		ominal voltage)	10ms max.	
Insulation resistance		ce	1,000 MΩ min. (at 500 VDC)	
Dielectric strength Between coil and contacts  Between open contacts		coil and contacts	4,000 VAC, 50/60 Hz for 1 min	
		open contacts	1,300 VAC, 50/60 Hz for 1 min	
Surge voltage between coil and contacts		coil and contacts	6,000V(1.2/50µs)	
Vibration resistance		Destruction	10 to 55 Hz.,1.5mm double amplitude	
Vibration re	Sistance	Malfunction	10 to 55 Hz.,1.5mm double amplitude	
Shock resistance Destruction		Destruction	1,000 m/s <sup>2</sup> (100G approximately )	
SHOCK TEST	Snock resistance		100 m/s <sup>2</sup> (10G approximately)	
Ambient temperature		ire	Operating: -40~+70℃ (with no icing or condensation)	
Ambient humidity			Operating: 20% to 85% RH	
Terminal			Printed circuit terminals	
Enclosure (94V-0 Flammability Ratings)		nability Ratings)	Vented(Flux-tight)	
mounting direction			Free	
Weight			Approx.165g	

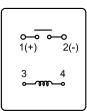
#### ORDERING INFORMATION



## OUTLINE DIMENSION

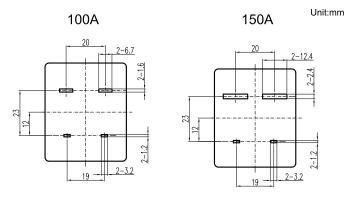


## WIRING DIAGRAMS (BOTTOM VIEWS)



Unit:mm

# PC BOARD LAYOUTS (BOTTOM VIEWS)



#### 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.