CHAR Series

150A/200A LARGE POWER RELAY



FEATURES

- Outline dimension(47.7mm×40.1mm×51.8mm)
- 1 Form X arrangement
- Contact gap,4.0mm Min.
- Designed to meet UL/cUL,TUV requirements
- PCB terminal for the mounting
- RoHS compliance
- REACH SvHC compliance





APPLICATION

Solar inverter, Industrial Control

COIL PARAMETER

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

CONTACT DATA

Туре	CHAR-A200	CHAR-A150H	
Contact arrangement	1 Form X		
Contact material	Ag Alloy		
Initial contact resistance	1mΩ max.@DC20A		
Max. switching voltage	830VAC		
Max. switching current	220A	180A	
Max. switching power	182,600VA	149,400VA	
Contact rating	Make 50A, Carry 200A, Break 50A 830VAC	Make 50A, Carry 150A, Break 50A 830VAC	
Mechanical endurance	1,000,000 ops Min.(no load)		
Electrical endurance	30,000 ops Min.(Resistive load)		
Minimum load (reference value)	100mA @48VAC		

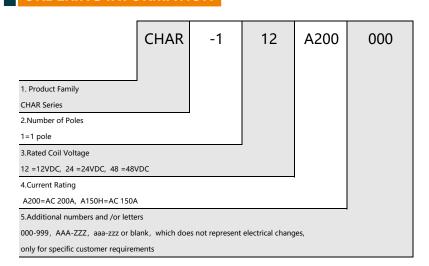
COIL DATA @23℃

CHAR				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
12	267	45	9	0.6
24	133	180	18	1.2
48	67	720	36	2.4

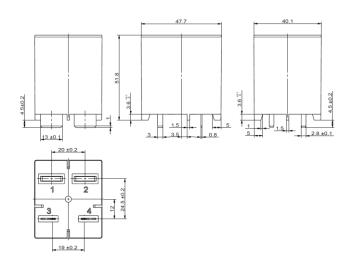
CHARACTERISTICS

Operate voltage			75% of nominal voltage or less		
Release voltage			5% of nominal voltage or more		
Operate time (At nominal voltage)		l voltage)	35ms max.		
Release time(At nominal voltage)		voltage)	30ms max.		
Insulation resistance			1,000MΩ min. (at 1000 VDC)		
Dielectric	Between coil and contacts		4,500 VAC, 50/60Hz (1min)		
strength Between open		n contacts	2,500 VAC, 50/60Hz (1min)		
Surge voltage between coil and contacts		oil and contacts	6,000V(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 Malfunction		Destruction	1,000 m/s2(100G approximately)		
		Malfunction	100 m/s2(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)		bility Ratings)	V: Vented(Flux-tight),plastic cover.(RT II)		
Weight			Approx. 194g		

ORDERING INFORMATION

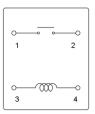


OUTLINE DIMENSION

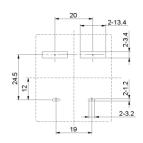


Remark: 1) The reference tolerance in outline dimension:
outline dimension ≤1mm, reference tolerance is ±0.2mm;
outline dimension >1mm and ≤5mm, reference tolerance is ±0.3mm;
outline dimension >5mm, reference tolerance is ±0.5mm.

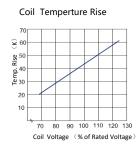
WIRING DIAGRAMS (BOTTOM VIEWS)

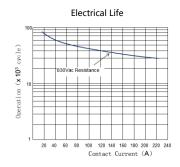


PC BOARD LAYOUTS (BOTTOM VIEWS)

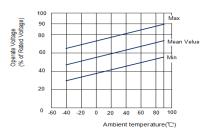


Reference Date

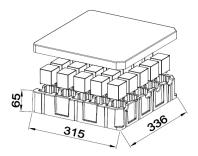




Coil Operate Voltage & Temperature Cure



PACKAGING FIGURE



25 pcs inside a box 50 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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