CHAR-C Series 75A Photovoltaic Relay



Product FEATURES

- Outline Dimension: 38 mm×33 mm×39.5 mm
- I Form X arrangement, GAP≥4.0 mm
- Designed to meet GB21711.1, IEC61810, UL60947-1, RoHS, REACH SVHC requirements
- Environmental protection category RTII
- Contact switching capability with 75A
- Applied to the inverter in solar photovoltaic field
- To reduce power loss, a small coil holding-voltage has been used for working coil
- Insulation class: F class

APPLICATION

Circuit Control of Inverter

COIL PARAMETERS

Rated voltage (VDC)	Rated power (W)	Rated current (mA)	Coil resistance (Ω±10%)	Operate voltage (VDC)	Release voltage (VDC)
6	1.92	320	18.75	≤4.5	≥0.6
9	1.92	213	42.2	≤6.75	≥0.9
12	1.92	160	75	≤9	≥1.2
24	1.92	80	300	≤18	≥2.4
48	1.92	40	1200	≤36	≥4.8

Notes:

1) The above values are the initial at 23°C.

HOLD VOLTAGE

Rated voltage (VDC)	Hold voltage of coil (VDC)		
6	3.3~6		
9	4.95~9		
12	6.6~12		
24	13.2~24		
48	26.4~48		

Notes:

1) The above values are only the reference values at 23 $^{\circ}\!C.$ Please contact the comp

for details.



C**RU**US

File NO. E341422



CONTACT PARAMETERS

Contact configuration	1 Form X			
Contact material	Ag Alloy			
Initial contact resistance	≤5 mΩ (6 VDC 20 A)			
Rated current	75 A			
Contact rating	Making 30 A; Carry 90 A; Break 30 A			
Rated switching voltage	1000 VAC			
Max. breaking current	83 A			
Max. switching power	83000 VA			
Electrical endurance	≥3×10^(4) cycles (at 85 °C, 1 s ON/9 s OFF)			
Mechanical endurance	1 Million cycles, Coil:0.2 s ON / 0.2 s OFF			

Notes:

1) The life expectancy will be lower when a diode is used in parallel with the coil.

OTHER PARAMETERS

		-		
Dielectric strength	between open contacts	2500 VAC. 50/60 Hz 1 min		
Dielectric strengtri	between coil to contacts	5000 VAC. 50/60 Hz 1 min		
Insulation resistance		100 MΩ (1000 VDC)		
Operate time (Rate	d voltage)	≤35 ms (at 85 °C)		
Release time (Rated voltage)		≤10 ms		
Vibration resistance	Between coil and contacts	10 Hz~ 55 Hz,1.5 mm		
vibration resistance	Malfunction	10 Hz~ 500 Hz, 49 m/s2		
Shock resistance	Between coil and contacts	981 m/s2		
	Malfunction	98.1 m/s2		
Operating temperature		—40 °C~85 ℃ (Without condensation and free		
Operating humidity		20% RH ~85% RH		
Terminal style		PCB terminal		
Category of protection		RT II (Flux proof)		
Weight		About 89.5 g		

Notes:

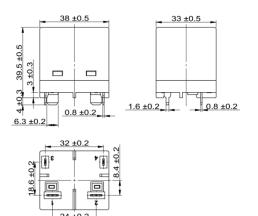
1) Unless otherwise specified, the above values are the initial at 23°C.

ORDERING INFORMATON

	CHAR	-1	12	A75	С	,XXX
1.Product Family CHAR series						
2.Contact form 1=1 Form A (SPDM)						
3.Coil rated voltage 06 =06 VDC 09 =09 VDC 12 =12 VDC 24 =24 VD	0C 48 =48 VDC		1			
4.Rated switching current A75= 75 A						
5.Product code C series						
6.Additional numbers and letters						1

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

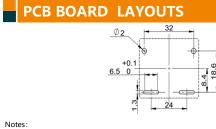
OUTLINE DIMENSION



WIRING DIAGRAMS



1) The schematic of wiring diagrams is the bottom view in the above.



Notes:

1) The schematic of assembling with PCB is the bottom view in the above.

Notes:

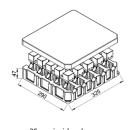
1) Unmarked geometric toletance are as follows:

outline dimension \leq 1mm, reference tolerance is ±0.2mm;

outline dimension > 1mm and ≤5mm, reference tolerance is ±0.3mm;

outline dimension > 10mm, reference tolerance is ±0.5mm;

PACKAGING FIGURE



25 pcs inside a box 100 pcs inside a carton

Disclaimer:

This specification is for reference only. For more details, please contact Churod. We are not able to evaluate all the performance and parameters of every possible application.

If you have any new needs, please contact us in time, we will be happy to serve you.

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