

CD3000S-3PH 3PHASE THYRISTOR UNIT



GENERAL DESCRIPTION

- **CD3000-3PH IS A THREE LEG SWITCHING THREE WIRE RESISTIVE LOAD**
- **UP TO 500A**
- **FULLY ISOLATED FROM POWER**
- **APPLICABLE FOR RESISTIVE LOADS**
- **ZERO CROSSING FIRING**
- **LOGIC INPUT SIGNAL SSR**
- **CONSTANT CURRENT DRAIN**
- **AC INPUT 110VAC OR 230VAC UP TO 90A**
- **SIDE BY SIDE PACKAGING**
- **SPECIAL DESIGN FOR HEATSINK WITH HIGH DISSIPATION**
- **IP20 PROTECTION**
- **COMPLY WITH EMC SPECIFICATION**



TECHNICAL SPECIFICATION

Operating temperature	0÷40°C up to 90A. For higher temperature see derating curve
Voltage power supply	24V minimum, 480V max and 600V on request
Input signal	SSR (Off State < 1Vdc ON= 4-30Vdc) Firing Ac Input 110V-230Vac available up to 90A
Firing	Zero Crossing ZC
Auxiliary voltage supply	230V to 600V; 10VA power consumption, request for CD3000S-3PH from 125A to 500
Fan voltage supply	230V ±15%
Line Drop Voltage	Automatic compensation ±15% of supply voltage with analog input
Mounting	Din rail mounting up to 90A, bulk head over 90A,
Protection	Ip20

ORDERING CODE

Model	Current (A)	Oper. Volt (V)	Max. Volt. (V)	Aux Voltage* (V)	Input	Firing	Options
CD3000S-3PH	15	min 24	480	230	SSR	ZC (Zero Crossing)	EF (External Fuse+Fuse Holder up to 90A)
	30		600	460	110Vac		NF (NO FUSE up to 90A)
	45			600	230Vac		IF (Internal Fuses are standard over 90A)
	60						110V Fan (Fan at 110V)
	75						UL (cUL us Listed)
	90						
	125						
	150						
	225						
	300						
	350						
	400						
	450						
	500						

EXAMPLE CODE

CD3000S-3PH	150A/	440V/	480V/	460V/	SSR/	ZC/	UL
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DIMENSIONS

	W	H	D		W	H	D		W	H	D		W	H	D
15A	92	145	120	60A	117	138	159	125A	137	440	270	350A	262	520	270
30A	117	120	123	75A	117	138	159	150A	137	440	270	400A	262	520	270
45A	117	138	123	90A	117	138	159	225A	262	440	270	450A	262	520	270
								300A	262	520	270	500A	262	520	270

FUSES AND FUSEHOLDER

External Fuses + Fuse holder up to 90A, Internal Fuses from 125A to 500A.

INPUT FEATURES

Input signal	Details	ON condition	Off condition
SSR	20mA MAX	≥4V - max 30V	≤1V
110Vac	Range 110Vac ±15% 20mA UP TO 90A	>90V	<=50V
230Vac	Range 230Vac ±15% 20mA UP TO 90A	>200V	<=100V

Auxiliary Power Supply From 125 to 500A is request
230 (Range 200Vac to 260Vac max) or 460V (Range 330V to 500V Max)

OUTPUT FEATURES

Current	Voltage range (V)	Ripetitive peak reverse voltage (480V)	(600V)	Latching current (mAeff)	Max peak one cycle (10msec.) (A)	Leakage current (mAeff)	I2T value for fusing tp=10msec.	Frequency range (Hz)	Power loss I=Inom (W)	Isolation Voltage Vac
15A	24÷480 V	1200	NA	150	230	15	610	47÷70	54	2500
30A	24÷600 V	1200	1600	250	600	15	1800	47÷70	108	2500
45A	24÷600 V	1200	1600	250	600	15	1800	47÷70	162	2500
60A	24÷600 V	1200	1600	450	1000	15	4750	47÷70	216	2500
75A	24÷600 V	1200	1600	450	1540	15	11300	47÷70	270	2500
90A	24÷600 V	1200	1600	450	2000	15	19100	47÷70	324	2500
125A	24÷600 V	1200	1600	450	2000	15	19100	47÷70	450	2500
150A	24÷600 V	1200	1600	450	2000	15	19100	47÷70	540	2500
225A	24÷600 V	1200	1600	300	4800	15	108000	47÷70	810	2500
300A	24÷600 V	1200	1600	300	5250	15	128000	47÷70	1080	2500
350A	24÷600 V	1200	1600	200	7800	15	300000	47÷70	1260	2500
400A	24÷600 V	1200	1600	200	8000	15	306000	47÷70	1440	2500
450A	24÷600 V	1200	1600	1000	17800	15	1027000	47÷70	1620	2500
500A	24÷600 V	1200	1600	1000	17800	15	1027000	47÷70	1620	2500

Note: for more deep information about derating curve, fuseholder dimensions and wiring see our web site: www.cdautomation.com