

CD3000S-2PH

2PHASE THYRISTOR UNIT



GENERAL DESCRIPTION

- **CD3000S-2PH TWO LEG SWITCHING THREE WIRE LOADS STAR OR DELTA RESISTIVE LOADS UP TO 700A**
- **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 100A**
- **SIDE BY SIDE PACKAGING**
- **SPECIAL DESIGN FOR HEATSINK WITH HIGH DISSIPATION**
- **IP20 PROTECTION**
- **COMPLY WITH EMC SPECIFICATION**



TECHNICAL SPECIFICATION

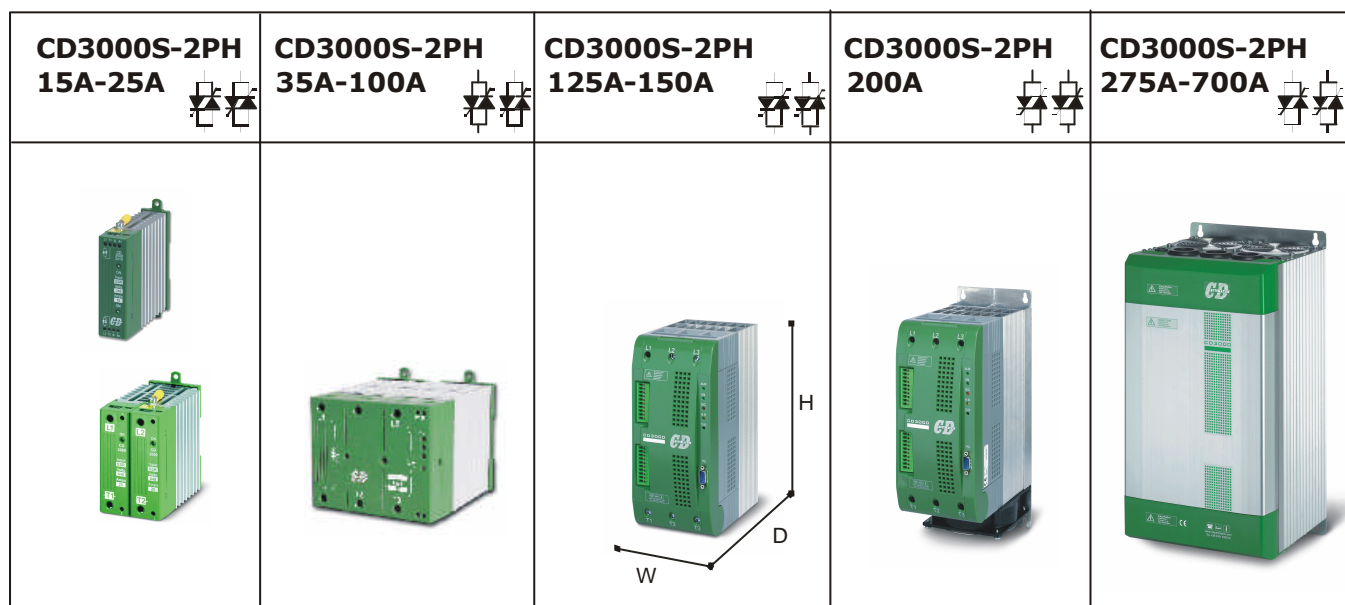
Operating temperature	0 ÷ 40°C up to 100A. For higher temperature see derating curve
Voltage power supply	24V minimum, 480V max and 600V on request
Input signal	SSR (Off State < 1Vdc ON= 4-30Vdc) AC Input 110-230 Vac Available up to 100A
Firing	Zero Crossing ZC
Auxiliary voltage supply	230V to 460V; 10VA power consumption, request for CD3000S-2PH from 125A to 700A
Fan voltage supply	230V ±15%
Mounting	Din rail mounting up to 100A, bulk head over 100A,
Protection	Ip20

ORDERING CODE

Model	Current (A)	Oper. Volt (V)	Max. Volt. (V)	Aux Voltage* (V)	Input	Firing	Options
CD3000S-2PH	10	min 24	480	230	SSR	ZC (Zero Crossing)	EF (External Fuse+Fuse Holder up to 100A)
	15		600	460	110Vac		NF (NO FUSE up to 100A)
	25			600	230Vac		IF (Internal Fuses are standard over 100A)
	35						110V Fan (Fan at 110V)
	45						UL (cUL us Listed)
	75						
	100						
	125						
	150						
	200						
	275						
	400						
	450						
	500						
	600						
	700						

EXAMPLE CODE

CD3000S-2PH	150A/	440V/	480V/	460V/	SSR/	ZC/	UL
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DIMENSIONS

	W	H	D		W	H	D		W	H	D		W	H	D
10A	30	120	120	45A	117	120	159	150A	116	316	187	450A	262	520	270
15A	60	120	120	75A	117	138	159	200A	116	350	220	500A	262	520	270
25A	60	120	120	100A	117	138	159	275A	262	520	270	600A	262	520	270
35A	117	120	123	125A	116	316	187	400A	262	520	270	700A	262	520	270

FUSES AND FUSEHOLDER

External Fuses + Fuse holder up to 100A, Internal Fuses from 125A to 700A.

INPUT FEATURES

Input signal	Details	ON condition	Off condition
SSR	20mA max.	$\geq 4V$ - max 30V	$\leq 1V$
110Vac	Range 110Vac +/-15% up to 20mA	$> 90V$	$\leq 50V$
230Vac	Range 230Vac +/-15% up to 20mA	$> 200V$	$\leq 100V$

Auxiliary Power Supply From 125 to 700A 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
10A	24÷480 V	1200	NA	150	230	15	610	47÷70	36	2500
15A	24÷480 V	1200	NA	150	230	15	610	47÷70	36	2500
25A	24÷480 V	1200	NA	150	230	15	610	47÷70	60	2500
35A	24÷600 V	1200	1600	250	600	15	1800	47÷70	88	2500
45A	24÷600 V	1200	1600	450	1000	15	4750	47÷70	108	2500
75A	24÷600 V	1200	1600	450	1350	15	8830	47÷70	180	2500
100A	24÷600 V	1200	1600	450	2000	15	19100	47÷70	240	2500
125A	24÷600 V	1200	1600	450	2000	15	19100	47÷70	255	2500
150A	24÷600 V	1200	1600	300	5250	15	128000	47÷70	268	2500
200A	24÷600 V	1200	1600	300	5250	15	128000	47÷70	380	2500
275A	24÷600 V	1200	1600	300	4800	15	108000	47÷70	623	2500
400A	24÷600 V	1200	1600	200	7800	15	300000	47÷70	875	2500
450A	24÷600 V	1200	1600	200	7800	15	300000	47÷70	1021	2500
500A	24÷600 V	1200	1600	200	8000	15	306000	47÷70	1061	2500
600A	24÷600 V	1200	1600	1000	17800	15	1027000	47÷70	1178	2500
700A	24÷600 V	1200	1600	1000	17800	15	1027000	47÷70	1425	2500

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