

Toshcon CD REVO I - 2PH 100A to 700A

2 Phase Unit to drive 3 phase load

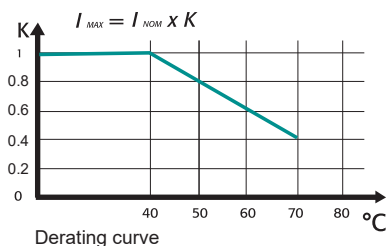


GENERAL DESCRIPTION

- Toshcon CD REVO I - 2PH is a Full digital and Burst Fired Thyristor unit based on a very powerful dedicated micro configurable via serial communication port for all inputs, control modes with Burst Firing (3-255 Burst) or Zero Cross over firing.
- Micro USB / RS485 to configure the Thyristor, software free available.
- Suitable to drive resistive & transformer coupled loads.
- Universal Input Signal with automatic zero / span calibration.
- Number of Burst, customer configurable via RS485 comm. as Burst Firing.
- 2nd Analogue Input for external feedback / Alternate Set point.
- Universal Control mode V/ V2/ I/ I2/ VxI/ external feedback.
- Soft Start facility as standard & can be used in additional to Burst Firing.
- Unbalanced load, Heater Break, SCR short circuit & Heat Sink over temp. & various other alarm.
- 4 LEDs on front for various indications.
- Internal fuses are standard.
- IP20 Protection.
- Comply with CE EMC.
- Front LED Display as option.

TECHNICAL SPECIFICATION

Operating Temperature	0-40° above this temperature see derating curve
Voltage Power Supply	480V & 600V Max.
Auxiliary Power Supply	110V / 220V / 415V AC
Fan Voltage supply	230V $\pm$ 15% as a standard and 110V on request
Analog Input 1	Primary reference - Current Input 0-20mA / 4-20mA Voltage Input 0-10V Potentiometer Input 10K Ohm min.
Analog Input 2	External feedback, Setpoint
Digital Input	Two optoisolated digital input (12/24V DC), for Enable, SP AI1/ AI2, local / remote, heater bakeout, Alarm reset
Alarm Digital Output	Heater Break, Short circuit, SCR over temperature, watch dog - Relay Output
Firing	Burst firing up to 255 Burst / Zero Cross over firing
Control Feedback Mode	V/ V2/ I/ I2/ VxI
Communication	RS 485 port. Modbus protocol
Fuses	High speed Semiconductor fuses fitted Internally
Mounting	Panel mounting
Protection	IP20



TOSHCON CD AUTOMATION (INDIA) PVT. LTD.,

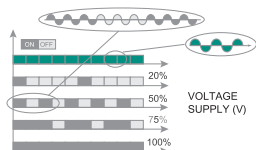
H 1 - 75, Gegal Industrial Area, Ajmer - 305023 (Raj.) INDIA

CIN: U32200MH2009PTC197386

Phone: +91-145-2791112 E-mail: cd@toshcon.com Website: www.toshcon.com

REGD OFFICE: 401, Manish Chamber, Sonawala Cross Lane, Goregaon (E), MUMBAI - 63

BURST FIRING



This firing is performed digitally within the thyristor unit at zero volts, producing no EMC interference. Analogue input is necessary for BF and the number of complete cycles must be specified for 50% power demand. This value can be between 3 and 255 complete cycles, determining the speed of firing. When 1 is specified, the firing mode becomes Single Cycle (SC).

FIELD BUS MODULE



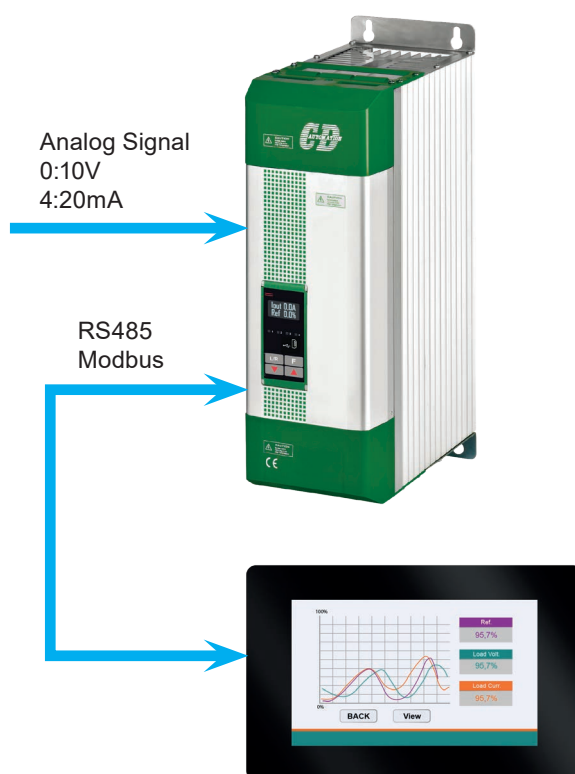
CD-RS Used to convert RS232 to RS422
 TU-RS485-PDP Used to convert RS485 Modbus to Profibus DP
 TU-RS485-DNE Used to convert RS485 Modbus to Devicenet
 TU-RS485-ETH Used to convert RS485 Modbus to Ethernet
 TU-RS485-CAN Used to convert RS485 Modbus to CAN
 For more informations see "Field Bus Module" Bulletin

OPERATOR PANEL "KP"

KP Operator Panel is designed to be mounted on the front of the cabinet and to be connected to most CD Automation thyristor units via RS485.

Parameters, power, current and alarms can be read on the display.

Local/Remote, Up and Down and Function commands are also available.



APPLICATIONS AND FOCUS ON:

Infrared lamp.
 Autoclaves.

Furnaces.
 Chemical

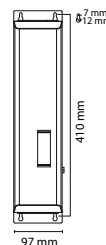
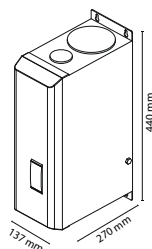
Petrochemical
 Climatic chambers

Pharmaceutical

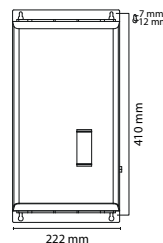
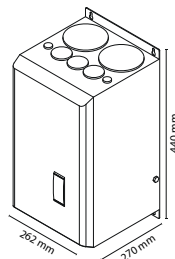
[illegible]

SIZE S11

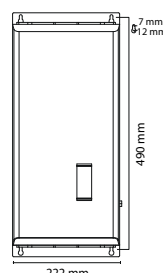
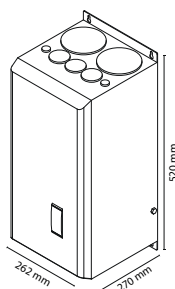
Current: 100A / 125A / 150A



Current: 200A



Current: 300A - 700A



OUTPUT FEATURES (POWER DEVICE)

Current A	Voltage range (V)	Ripetitive peak reverse voltage (480V) (600V)		Latching current (mAeff)	Max peak one cycle (10msec.)	Leackage current (mAeff)	I ² T value for fusing tp=10msec.	Frequency range (Hz)	Power loss I=Inom (W)	Isolation voltage Vac
100A	24÷600	1200	1600	600	1900	15	16940	47÷70	290	3000
125A	24÷600	1200	1600	600	1900	15	16940	47÷70	398	3000
150A	24÷600	1200	1600	400	1900	15	27500	47÷70	409	3000
200A	24÷600	1200	1600	400	1900	15	84700	47÷70	598	3000
300A	24÷600	1200	1600	200	7800	15	73500	47÷70	903	3000
400A	24÷600	1200	1600	200	7800	15	149000	47÷70	1092	3000
450A	24÷600	1200	1600	200	7800	15	215600	47÷70	1259	3000
500A	24÷600	1200	1600	200	8000	15	215600	47÷70	1407	3000
600A	24÷600	1200	1600	1000	17800	15	294000	47÷70	1528	3000
700A	24÷600	1200	1600	1000	17800	15	294000	47÷70	1753	3000

ORDERING CODE: REVO I-2PH

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
R	I	2	-	-	-	-	-	-	-	-	-	-	-	-

4	5	6	Current		
Description code			Numeric code		
100A	1	0	0	0	
125A	1	2	5		
150A	1	5	0		
200A	2	0	0		
300A	3	0	0		
400A	4	0	0		
450A	4	5	0		
500A	5	0	0		
600A	6	0	0		
700A	7	0	0		

7	Max Voltage		
Description code			Numeric code
480V			4
600V			6

8	Aux. Voltage Supply		
Description code			Numeric code
110V			1
220V			2
415V			5

9	Input		
Description code			Numeric code
SSR			S
0:10V			V
0:20mA			A
4:20mA			B
10Kpot			K
RS485			R

10	Firing		
Description code			Numeric code
Burst Firing BF			B
Zero Cross			Z

15	Optional		
Description code			Numeric code
Touch Screen panel Door Display			KP
Front LED Display			FD

14	Load Type/Connection		
Description code			Numeric code
Resistive Load / Delta o Star Connection			1
IRSW infrared short wave / Delta or Star Connection			3
Transformer coupled with normal resistance			4
Transformer coupled with cold resistance			5

13	Fan		
Description code			Numeric code
Fan Voltage 115V ac			1
Fan Voltage 230V ac			2
Fan Voltage 24V dc			3

12	Optional Feature		
Description code			Numeric code
None			0
Heater Break Alarm			8

11	Control Mode		
Description code			Numeric code
Open Loop			0
Voltage Feed Back			U
Voltage Square			Q
Current Feed Back			I
Current Square			A
Power Feedback VxI			W

TOSHCON CD AUTOMATION (INDIA) PVT. LTD.,

H 1 - 75, Gegal Industrial Area, Ajmer - 305023 (Raj.) INDIA

CIN: U32200MH2009PTC197386

Phone: +91-145-2791112 E-mail: cd@toshcon.com Website: www.toshcon.com

REGD OFFICE: 401, Manish Chamber, Sonawala Cross Lane, Goregaon (E), MUMBAI - 63