

OUR OTHER PRODUCTS



Hybrid Microwave Rubber Vulcanization Oven



Continuous Sintering Furnace



Microwave Drying And Disinfestation System



Infrared Shock Oven



Tophat Type High Temp. Hybrid Microwave Furnace for Vitrification



Abrasive Drying Oven



Microwave Reducing Atmosphere Furnace



Head Office :
Enerzi Microwave Systems Pvt. Ltd.

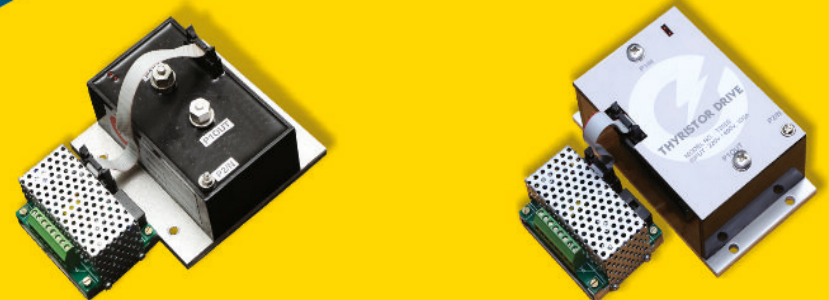
"Creintors Compound", Plot No. 99/107, Survey No. 343A/335,
 Udyambag, BELGAUM- 590 008, Karnataka, INDIA.

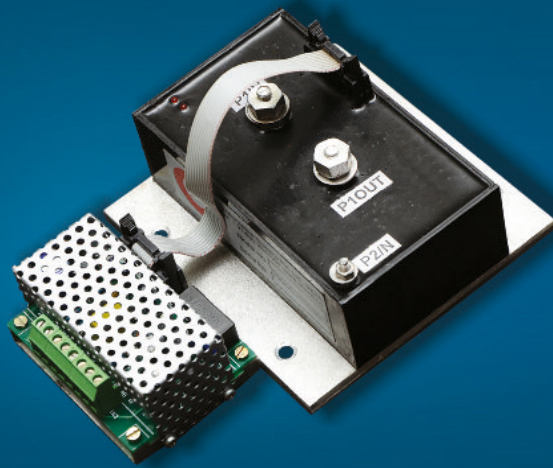
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www.enerzi.co

HEAVY DUTY THYRISTOR DRIVES





HEAVY DUTY THYRISTOR DRIVE SERIES

At Enerzi, with over a decade of experience in engineering state-of-the-art heating solutions, we have developed heavy duty thyristor drives designed to provide precise control of AC loads with better surge handling capability. These heavy duty thyristor drives are assembled with highly reliable triac/thyristors which can withstand repetitive peak-off state and reverse voltages up to 1600 V. Our thyristor drives come with digital control allowing accurate power control compared to analog SSR / thyristor drives. With built in snubbers, thyristor drives offer better dv/dt surge protection. For resistive or non-inductive or slightly inductive loads, our thyristor drives can be used without any derating. They come with a well designed SMPS to power up the electronic modules which make the product compact and efficient.

PRODUCT FEATURES

- For resistive or non inductive or slightly inductive loads up to 100A
- Single phase/ Two phase/ Three phase operation
- Control input: 0-5V/ 0-20mA/ 4-20mA/Potentiometer
- Micro-controller based modular design
- Built in snubber
- Soft start feature

The thyristor, a semiconductor device, used to switch electric current helps in precise control of power for industrial heating applications. Thyristors being robust offer silent, reliable and long life control suited for industrial environments. A single phase thyristor drive consists of a thyristor and SMPS module. These drives are completely modular, offering flexibility to connect up to three additional thyristor modules for each additional phase. A single SMPS module can be used to power a maximum of three thyristor drive modules. In a three phase system, three module configurations can drive the loads connected in star with (or without) neutral and delta (or open delta) network connections. These can also be used for 2 phase networks.



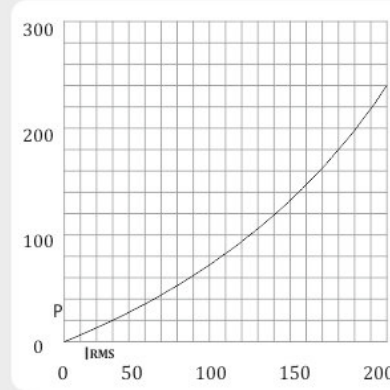
HEAVY DUTY THYRISTOR DRIVES WITH INSTRUMENTATION SERIES

The instrumentation series of thyristor drives come with many advanced features like energy counter, load open circuit, short circuit detection and protection. The drive module continuously monitors to detect short circuit conditions and turns off the module before over current crosses the set threshold. A semiconductor fuse is also provided to protect the module in case of short circuit. All the electrical parameters like phase voltages, load currents, power on each phase, total energy consumed (energy counter in kWh) are monitored on a 7 segment display. A keypad is provided to scroll through and view various parameters on the display and reset the energy counter.

PRODUCT FEATURES

- For resistive or non inductive or slightly inductive loads up to 100A
- Single phase/ Two phase/ Three phase operation
- Control input: 0-5V/ 0-20mA/ 4-20mA/Potentiometer
- Micro-controller based modular design
- Built in snubber
- Short circuit protection
- Open load detection
- Current, voltage measurement
- Energy counter
- 7-segment display and keypad interface
- Soft start feature

BELOW GRAPH DEPICTS THE POWER DISSIPATION PER THYRISTOR DRIVE IN WATTS VS RMS CURRENT IN AMPERES.



PRODUCT SELECTION GUIDE:

SI. NO	VOLTAGE RATING	CURRENT RATING	MODEL NUMBER
1	220V	30 A	EMSTA12030M
2		40 A	EMSTA12040M
3		50 A	EMSTA12050M
4		60 A	EMSTA12060M
5		75 A	EMSTA12075M
6		100 A	EMSTA12100M
7	415V	30 A	EMSTA14030M
8		40 A	EMSTA14040M
9		50 A	EMSTA14050M
10		60 A	EMSTA14060M
11		75 A	EMSTA14075M
12		100 A	EMSTA14100M

For 3 phase Thyristor drives, put 3 in place of 1 (EMSTA3XXXXX)
For Thyristor drives with instrumentation, put S in place of M.