



## DESCRIPTION & APPLICATION

The AUTOSAPIAN Variable voltage DC Drive uses Thyristors in its power section to vary the armature voltage of a separately excited D.C. Motor to run it at a desired speed. Controls the system in variations of load temperature or supply voltage. The drive operates on 230V Ac, 50 Hz single Phase Supply. Normal Protections like overload current trip. Surge current trip, field current failure trip as well as surge suppressors are provided.

The product has a high light immunity, high repeatability and can be used for new existing installations

It offer solid state reliability, very low power consumption, and consistent activation points over a wide temp. Range in a rugged and environmentally isolated package.

HEMKUNT electronics specializes in customizing designs to specific customer needs for a wide range of applications. Please feel free contact us to provide the optimal solution for your specific needs.

## TECHNICAL SPECIFICATION

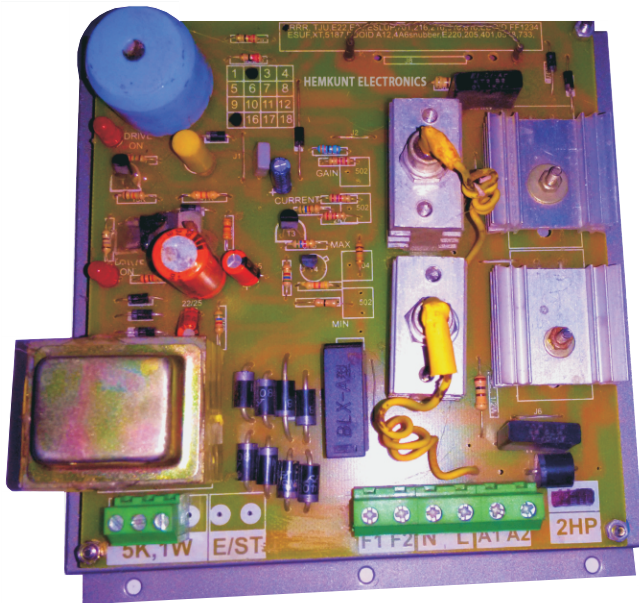
Product	:	THYRISTOR DRIVE
Mounting	:	Vertical / Horizontal
Input Supply	:	230V AC $\pm$ 15% , 50 Hz
Output Voltage	:	Field : 200V DC Armature : 20V - 200V DC
Output Current	:	Field : 1 Amp DC Armature : 0 - 3Amp DC
Operating Temp.	:	-10 to 50 deg centigrade
Speed Regulation	:	$\pm$ 1.5% line regulation
(Armature Feedback)	:	$\pm$ 2% Load regulation
Current Limit Adj.	:	50% to 100%
Maximum Speed Limit	:	75% to 100% rated speed
Minimum Speed Limit	:	0 to 25% of rated speed
Note	:	1HP/2HP/3HP/5HP THYRISTOR DRIVE ALSO AVAILABLE IN SAME SPECIFICATION.

## HEMKUNT ELECTRONICS

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### FEATURES

- Continuous firing SCR circuitry to provide continuously variable speed setting.
- Surge suppressors to protect the Thyristor and the diodes.
- Soft start.
- Overload current trip at the rating of the drive.
- Surge current trip.
- Field future trip
- LED indications provided for the above trip conditions moreover the TRIP RELAY energizes during the trip conditions.
- The user as per the diagram for can provide H.R.C. Fuses and contactors usual protection interlock can be provided to see that the armature output can be started only if the field contactor is turned ON.
- Armature bridge connection directly on the heat sink to avoid loose connections and terminalheating.
- How current connection on a separate terminal strip.
- Speed set potentiometer can be mounted at a convenient location on the panel.



### WARRANTY STATEMENT

For any defects caused by mal-manufacture , the user can return the device to the manufacturer for repair or replacement within 12 months from factory delivery . This warranty does not apply to any defects caused by misuse and improper storage.

As a result of our policy of continual improvement, the information in this document is subject to change without any notice and it is intended only as general guidance on product performance and suitability. This information shall not form part of any contract.

our product should be installed by a qualified personnel only, therefore any use of this application is at the installer's own risk and should be accessed appropriately.

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