

TECHNICAL ASPECTS of "GE" make DC Thyristor Drives :

DESIGN	Our Designs, parts & Dimensions are as per I.S.I Standards. Latest Innovations are incorporated. Changes are made with times and also as per Customer demands.
CONTROLLER MODULE	This is an electronic solid state controller either on a single board or on a multiboard rack arrangement. The system incorporates all the necessary functional blocks such as power supply, error amplifiers, speed amplifier, current amplifier and SCR firing circuits.
THYRISTOR BLOCK.	This block consists of suitably rated thyristors mounted on properly selected heatsinks. While designing, due consideration has been given to the starting torque, ambient temperature and the atmosphere in which the drive is to be operated. The starting torque requirement from 1.6 to 2.5 times can be met. Normally, a single stack is used upto 400 KW and parallel stacks for those in the range of 500 to 1000 KW.
ELECTRICAL BLOCK.	This meets the electrical and functional requirements of the drive and comprises switchgears like input switch or circuit breakers. output contactors, indicating meters, push buttons and contactors/relay logics. Meters to indicate the DC voltage, DC current and motor rpm and lamps for mains ON and motor ON are provided on the front panel. Additional meters can be provided on request.
CONSTRUCTION	<ul style="list-style-type: none"> • The panels are free standing, floor mounted types with or without the cooling fan depending on the rating of the drive. • Almost all components are accessible through the front door. • The layout is such that the power module and the controller module can be identified easily. • Enclosures are available in IP 22, IP 41 and IP 51 types. • All cables are colour-coded and ferruled and components labelled for identification.
SALIENT FEATURES	<ul style="list-style-type: none"> • Acceleration / Deceleration Control. This enables the system to achieve the rated rpm within 2 to 10 seconds for drives upto 5 HP and 4 to 30 seconds for drives of higher HP. Special requirements can also be met. • Provision for armature feedback or tacho- feedback for better speed regulation. • Smooth, solid state current limit adjustment.

	<ul style="list-style-type: none">• Sufficient number of test points for easier testing and maintenance.• LED indications for various stages.• Available in fully controlled i.e. Six pulse as well as 12 pulse versions.
OPTIONAL FEATURES	<p>(Against specific orders)</p> <ul style="list-style-type: none">• Dynamic braking for quick stoppage.• Pendant control for remote operation• Inching.• 10- Turn potentiometer for accurate speed setting.• Tachogenerator feedback for better speed regulation.