

**INSTALLATION - OPERATION - MAINTENANCE**

IC DRIVER / REGULATOR

S-22

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the General Electric Company.

GENERAL  **ELECTRIC**

INSTRUCTION
IC DRIVER/REGULATOR
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GEK-24920
Preliminary

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SECTION I

GENERAL

1.1 SCOPE OF MANUAL

This instruction manual is furnished as a guide to the start-up, check-out, and operation of the drive system. It includes a detailed description of the IC Driver Regulator and general troubleshooting guides. Refer to the other attached manuals and the system diagrams for detailed instructions on special function cards which may be included in the IC Driver Regulator rack. For more information on the power conversion modules and motor field exciters, refer to the appropriate instruction manual.

This manual is structured around a four quadrant (regenerative) drive with the Instrument/Diagnostic modification and a Motor Field Control provided for operation in the constant horsepower region. Those sections peculiar to these modifications are so noted and may be ignored if these modifications were not ordered. Refer to the system drawings to determine the modifications furnished.

Slot Location	Number	Nomenclature	Name
F	193X25AA01	PS	20V Power Supply
C	193X22AC01	GC	Gate Control
D	193X22AC01	PC	Phase Control
E	193X21AC01	M	Monitor
F	193X20AC01	DC	Driver Coordination
G	193X20AC01	R	Standard Regulator
H	193X20AC01	D	* Diagnostic
I	193X20AC01	I	* Instrument

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2.1.1 20V Power Supply: The 20V power supply card receives unregulated +30 volt DC from the rectifier in the Power Assembly and provides regulated +20 volt DC for the Driver Regulator and up to 100 mA of external load. It also provides the unregulated power to activate the solid state switches on the Regulator card. The Power Supply outputs are fused with 1.5A fast-acting fuses located on the front of the PS card. Both fuses will clear, removing all power from the cards. If an overload or overcurrent condition exists on either the positive or the negative output...

