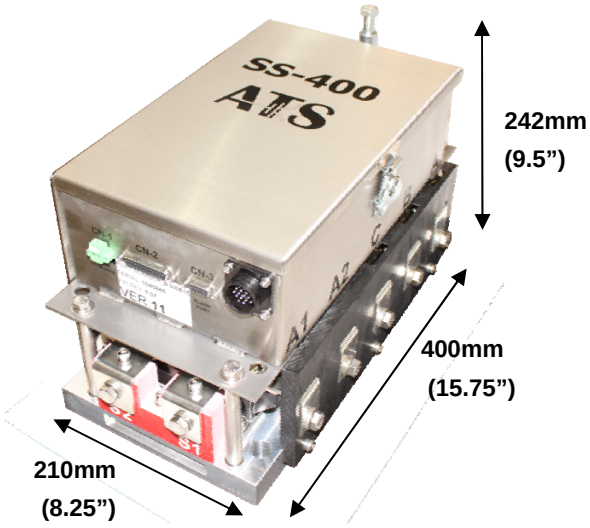
SS-400 FOR MARINE PROPULSION SYSTEMS

Scalable SCR (Silicon Controlled Rectifier) Controller

Features

- Scalable output current depending on application
- Programmable AC input voltage
- Ross-Hill replacement or upgrade
- Full micro controller controlled SCR drive
- Interface to PLC control systems
- Solid State reversing
- Provides infinitely variable, reversible control
- Instantaneous over current protection
- Heatsink over temperature warning and trip (both adjustable)
- Motor overload protection with inverse time characteristic, will be adjusted automatically by changing motor rated current
- Can be set as current controlled (torque-control) or voltage controlled (speed-control) drive
- Phase protection: unit shuts down if a phase is missing



Specifications

Description	Specification
Electrical	
Input Voltage	3 phase, 240 - 575VAC 50/60Hz
Max Output Voltage	0 - 99% of rectified input voltage (adjustable)
Output Current	Scalable depending on the application
20 Seconds Overload Capability	300% continuous rating at heatsink temperature <90°C
Regen Current	Up to 80% of motor rating
Control Supply	120VAC, single phase (supplied separately)
Grounding Configuration	Full floating, grounded positive, or grounded negative
Control Mode	Phase angle control
Mechanical	
Size	8.25"w (210mm) x 15.75"d (400mm) x 9.5"h (242mm)
Weight	48lb (21kg)
Control I/O	
Three Discrete Inputs	24V DC rating (FWD, REV, Neutral)
Two Analog Inputs	0 to 4V DC
Communication	
CAN-BUS	System communication, Handheld programmer
RS-232	Firmware update programming port (CN3 on SS-400)
Protective Functions	
Thermal Protection	Heatsink over-temperature alarm at 90°C and shutdown at 95°C
Motor Overload	Electronic time trip
Over current Protection	Instantaneous electronic over-current protection

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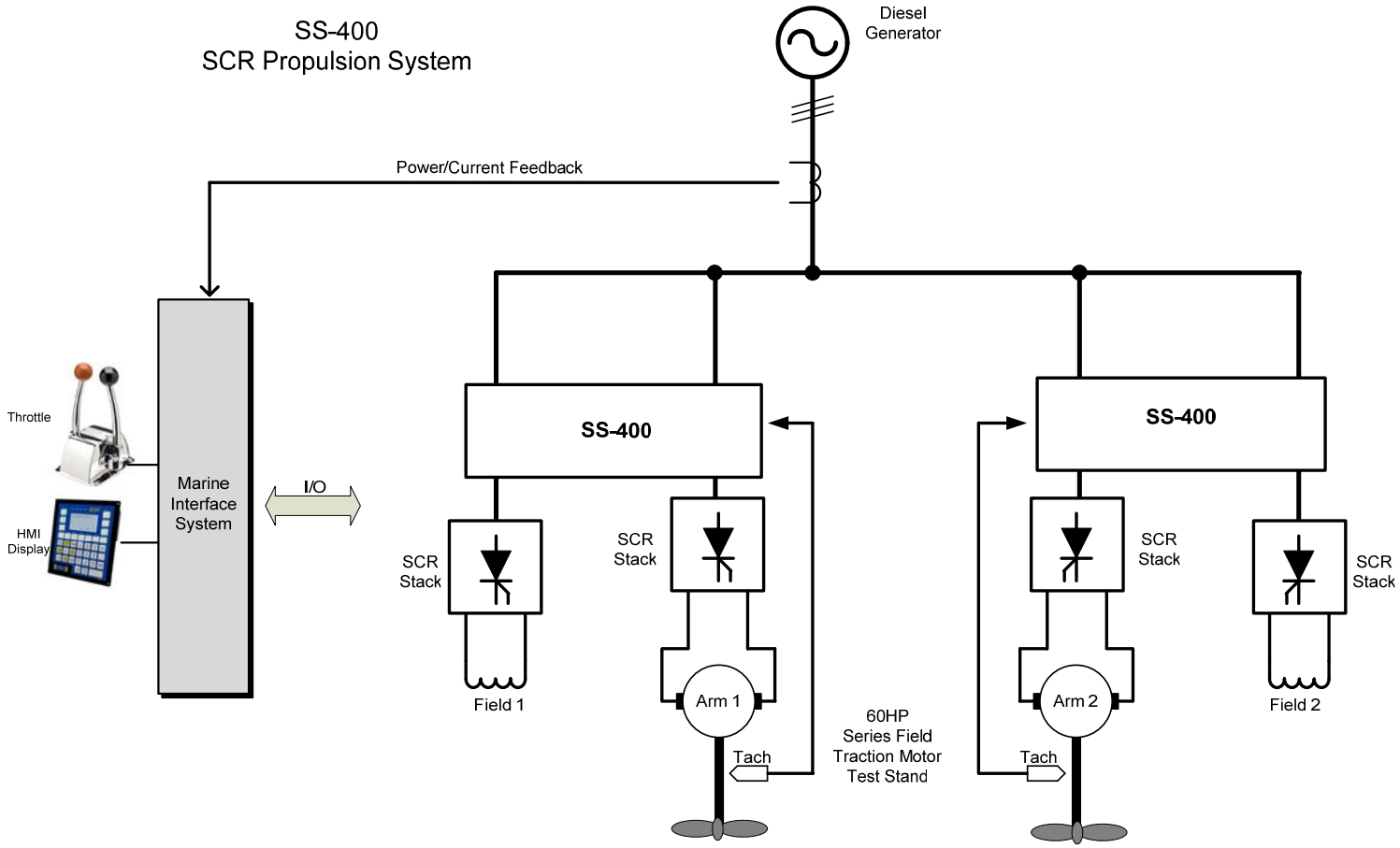
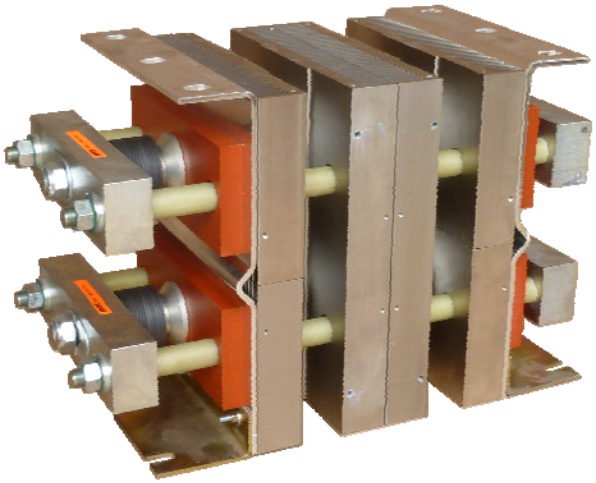
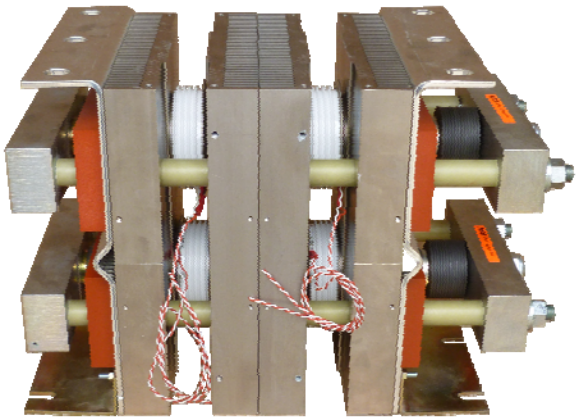
SS-400 Typical Propulsion System



SCR Power Stacks up to 10,000 AMPS





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