INSTRUCTIONS
for
INSTALLATION
and
OPERATION
STABILINE® Automatic Voltage Regulators
Types CR5205C, CR5210C and CR5220C

INSPECTION

After unpacking the STABILINE Automatic Voltage Regulator, examine it carefully for any indication of shipping damage. The "Damage and Shortage" instruction packed with the unit describes the procedure to follow if any parts are damaged or missing.

SUPERIOR ELECTRIC NEDERLAND B.V.

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DESCRIPTION

Models of the CR Series maintain properly conditioned voltage to computers and other voltage sensitive equipment. They are mounted in attractive cabinets to harmonize with modern office decor and are designed for easy mechanical and electrical installation. In addition to maintaining output voltage within ±3% of nominal, a CR Series regulator will also provide 65dB minimum common-mode noise rejection to help prevent computer errors, loss of information and other noise related problems. CR Series units also exhibit a degree of transient noise attenuation.

MECHANICAL INSTALLATION

A CR Series regulator is designed for use on a bench or a shelf. Mounting holes are provided in the base of the unit if it is necessary to fasten the regulator in place. Mounting hole locations are given in the Outline Drawing.

ELECTRICAL INSTALLATION

CAUTION

Because STABILINE Voltage Regulators of the CR Series are self protecting devices, the output voltage will fall off if the load current exceeds the rated current of the regulator. When a CR series regulator is used with a device that draws high start-up current, such as an electric motor, select the regulator model needed based on the start-up current rather than on the operating current.

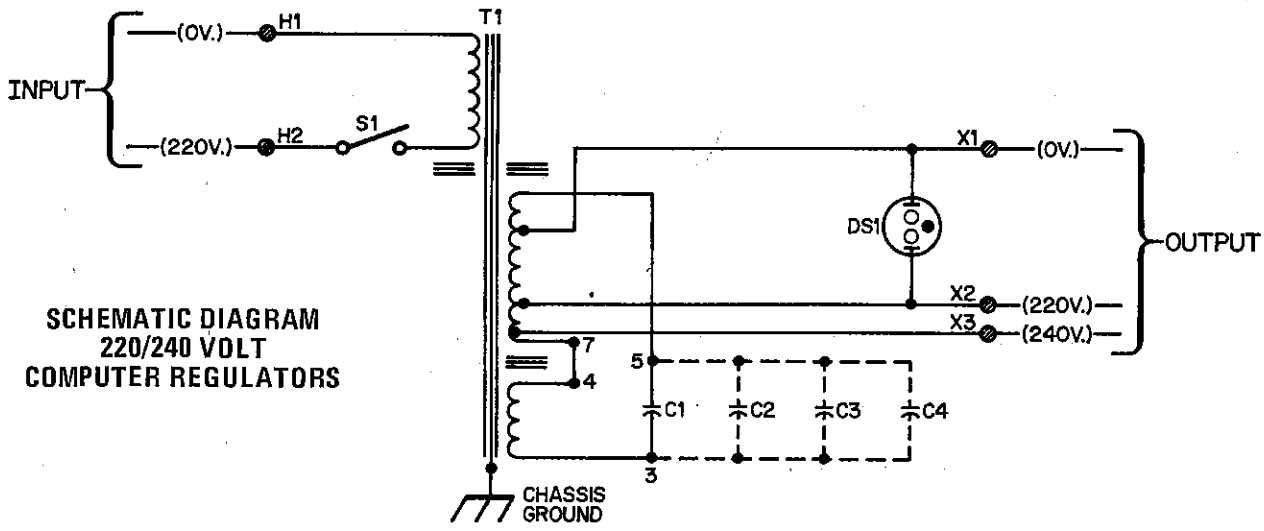
Input and output connections to the regulator are shown in the schematic diagram. Knockouts are provided on the rear of the cabinet for running the necessary cables into the cabinet. Remove the four screws which hold the top of the cabinet in place and remove the top of the cabinet when making the connections. Be sure to connect the ground stud on the regulator chassis to a suitable ground.

OPERATION

When the regulator input and load connections have been made, energize the power to the regulator and place the regulator On/Off switch in the On position. The pilot lamp will light, signifying that the regulator is energized. The regulator will provide power to the load and will correct for any power line deviations within the stated specifications for the unit.

SPECIFICATIONS

Efficiency	85%
Output Voltage Regulation	3% of rated output for an input range of 176 to 245 volts rms at unity power factor, full load
Output Harmonic Distortion	3% of rated output of an input voltage range of 176 to 245 volts rms at unity power factor, full load
Short Circuit Current	125% to 250% of rated load current
Ambient Temperature Range	–20°C to +50°C
Dielectric	2000 volts rms, 60 hertz (1 minute), input to case (1mA max. leakage); 1750 volts rms, 60 hertz (1 minute) output to case, 5mA max. leakage
Common-Mode Noise Rejection	65dB minimum
Temperature Rise at Rated Output Voltage	100°C max.

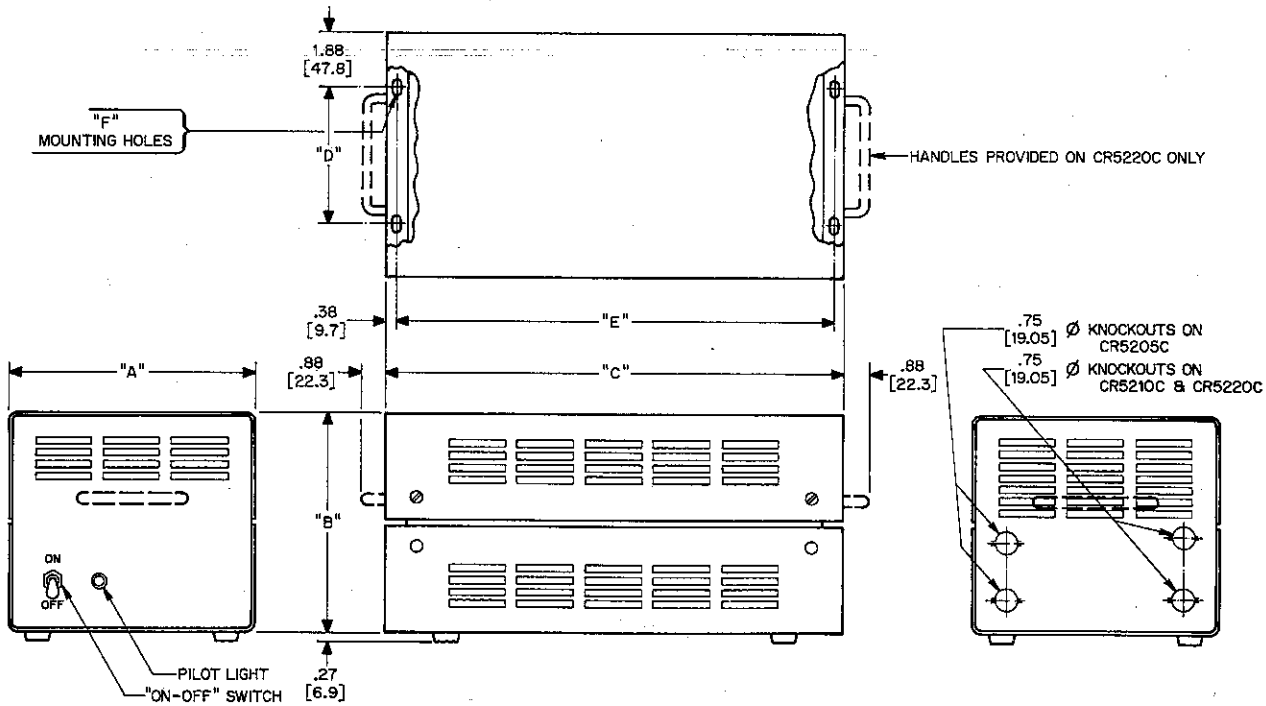


SCHEMATIC DIAGRAM 220/240 VOLT COMPUTER REGULATORS

RATINGS

NOMINAL OUTPUT VOLTAGE	INPUT VOLTAGE RANGE	FREQUENCY (HERTZ)	MAXIMUM OUTPUT CURRENT (AMPERES)	RATED OUTPUT kVA	TYPE	WEIGHT LB.	WEIGHT KG
220	176 to 245	50	2.27	0.5	CR5205C	45	20.4
240	176 to 245	50	2.08				
220	176 to 245	50	4.55	1.0	CR5210C	65	29.5
240	176 to 245	50	4.17				
220	176 to 245	50	9.09	2.0	CR5220C	115	52.2
240	176 to 245	50	8.33				

DIMENSIONS
220/240 VOLT
COMPUTER REGULATORS



TYPE	"A" ± .06 [1.6]	"B" ± .06 [1.6]	"C" ± .06 [1.6]	"D" ± .06 [1.6]	"E" ± .06 [1.6]	"F" ± .06 [1.6]
CR5205C	8.50 [215.9]	7.50 [190.5]	16.00 [406.4]	4.75 [120.7]	15.25 [387.4]	.22 [5.6] x .50 [12.7]
CR5210C	9.50 [241.3]	8.50 [215.9]	16.00 [406.4]	5.75 [146.1]	15.25 [387.4]	.22 [5.6] x .50 [12.7]
CR5220C	10.50 [266.7]	10.00 [254.0]	19.00 [482.6]	6.75 [171.5]	18.25 [463.6]	.28 [7.1] x .66 [16.8]

WARRANTY

Superior Electric Nederland B.V., The Hague, Netherlands warrants its apparatus to be free from defects in material and workmanship under normal use and service for a period of one year from date of shipment by Superior Electric Nederland B.V. The obligation under this warranty is limited to repair or replacement of the apparatus or parts thereof at Superior Electric Nederland B.V., The Hague, Netherlands. This warranty is in lieu of all other warranties, expressed or implied, and no other representative or person is authorized to assume for us any other liability. This warranty does not apply to any apparatus which has been tampered with or altered in any way or which has been subjected to misuse, neglect or accident.

Before returning any apparatus or parts thereof under the terms of this warranty, written authorization must be obtained from Superior Electric Nederland B.V., otherwise the shipment cannot be accepted.

The sender is responsible for all transportation charges to and from Superior Electric Nederland B.V., The Hague, Netherlands.

SUPERIOR ELECTRIC NEDERLAND B.V., The Hague, Netherlands

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Because continuous efforts are made to improve the quality and performance of our products, delivered products may differ from descriptions in this literature

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