## Model VR648 Universal Voltage Regulator

www.PartsForTechs.com CBAF+F-7.5A Fuse **Actual Size** STAB ADJ Voltage Adjustment

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**Programing Guide** 

220/127 Volts/50 Hertz

208/120 Volts/60 Hertz 240/120 1 Phase 60 Hertz 240/120 Delta 60 Hertz

\_\_\_\_n 380/220 Volts/50 Hertz

> 380/220 Volts/60 Hertz 415/240 Volts/60 Hertz

Warning: Connecting the AVR to the wrong voltage

it wrong can

or programming

cause High Voltage

122 440 volts 50 Hertz

480/277Volts/60Hertz 12

ON 123

1 ON 50Hz 1 OFF 60 Hz 2 ON 3 ON 220 V

2 ON 3 OFF 380 V 2 OFF 3 OFF 440 V

The VR648 AVR is normally connected with only 4 wires.

It comes factory set with a short from (B to A) terminals and the dip switches set for 208 - 240 volts 60 Hertz use. 1 OFF - 2 ON - 3 ON

In this configuration it works in almost all modern 12 wire generators sets from 190 to 277 volts and with exciter fields from 9 to 100 Ohms.

With the power and sensing input voltage connected together in the AVR to terminals C & BA, and output terminals connected to terminals F+ and F-, It can work in almost any voltage configuration. See Fig 1, 2, 3, and 4.

This AVR is "Universal" because it can also work with any 4 wire generator at any voltage & Hertz just by programing 3 simple dip switches located on the AVR itself. As long as you feed power to input terminals C&B with 100 to 300 Volts and then connect sensing terminals C&A to the generator output voltage, you can make it work on almost any configuration. See Fig 5.

The VR648 is the repairman's friend because of its great versatility.. Always handy to have around for emergencies. Accurate generator output can be obtained in 380, 415, 440 and 480 volt systems by by using terminals A, B & C separately. See Fig. 5





