

## JAGUAR VXR INVERTER INSTRUCTIONS.

The inverter drive should be installed in a clean well ventilated area; if there is difficulty accessing the keypad from its installed location Power Capacitors Ltd can supply a Transwave Remote Pendant with large Stop/Start - Forward/Reverse - Speedup/Slowdown controls in a durable enclosure that can be safely installed on your machine. The Remote Pendant is supplied with a two metre length of cable.

If a Remote Pendant is to be installed please follow the pendant instructions in conjunction with the instructions below.

The default settings for a new Jaguar VXR inverter are arranged for keypad operation Stop/Start plus using the up/down buttons for speed up & slow down.

- Connect a suitable motor configured to operate on 230 Volts 3 phase (delta connected) L1 - L2 - L3 to the terminals marked U - V - W & Earth Ground (G).
- Connect the input single phase power Live-Neutral & Earth 230 Volts 50Hz to L - N & Earth Ground (G).
- Test the drive operation using the keypad, it will be necessary to push & hold the speedup button (^) to make the motor run.
- A new drive is supplied with its own default settings for max speed, min speed, speedup & slowdown settings etc, all of the original settings are shown in the instruction manual supplied with the drive but they can be changed as follows.
- To change a Function Code.
  - Stop the drive with the keypad
  - Press PRG/RESET
  - Press FUNC/DATA
  - Move up/down arrow buttons until the required Function Code is displayed
  - Press FUNC/DATA
  - Move up/down arrow buttons until the required new figure is displayed
  - Press FUNC/DATA, the display flashes SAVE if the Code has been changed
  - Press PRG/RESET twice
  - The drive can now be restarted and the new instruction code will be affective.

### **Code F01**

The default is 0 for operation from the keypad; change to 1 if a Transwave Remote Pendant is to be installed.

### **Code F02 - Drive Input for Direction**

This tells the drive in which direction to run the motor. The factory default is 2. Should the motor be running in the wrong direction, instead of swapping cables over you can change this setting to 3. If a Transwave Remote Pendant is used the setting is (1) as a reversing switch is included in the pendant.

### **Code F03 - Maximum Output Frequency**

This sets the maximum frequency that the drive will supply to the motor. The factory default is 50Hz. Customers can change this to any value from 25 to 400Hz but must be aware of the application they are running. Note parameter F15 will also need amending if the factory default is changed.

### **Code F07 - Acceleration Time**

This setting determines the time taken for the motor to attain the frequency selected by the up/down buttons in a controlled "acceleration ramp". The factory default is 6 seconds.

### **Code F08 - Deceleration Time**

This setting determines the time taken for the motor to stop in a controlled "deceleration ramp". The factory default is 6 seconds.

### **Code F11 - Current Limit to activate Thermal overload**

This sets the thermal overload to operate at between 1 and 135% of the rated drive current. This should be set so to equal the current given on the motor rating plate.

### **Code F15 - Maximum Frequency Limit**

This sets the maximum upper frequency limit allowed from the keypad (^). The factory default is 70Hz .If this is set higher than the value in parameter F03, parameter F03 takes precedent.

### **Code F16 - Minimum Frequency Limit**

This sets the lower frequency limit allowed from the keypad. The factory default is 0Hz. If this is set higher than the value in parameter F03, no lower limit is activated. This should be set as the minimum allowable speed your application warrants.

### **Values shown on Keypad Display**

When the motor is running the display will show either kW, Frequency or Amps supplied by the drive this can be toggled using the FUNC/DATA button.

**Full Instructions available from IMO web-site <http://www.imopc.com/>**