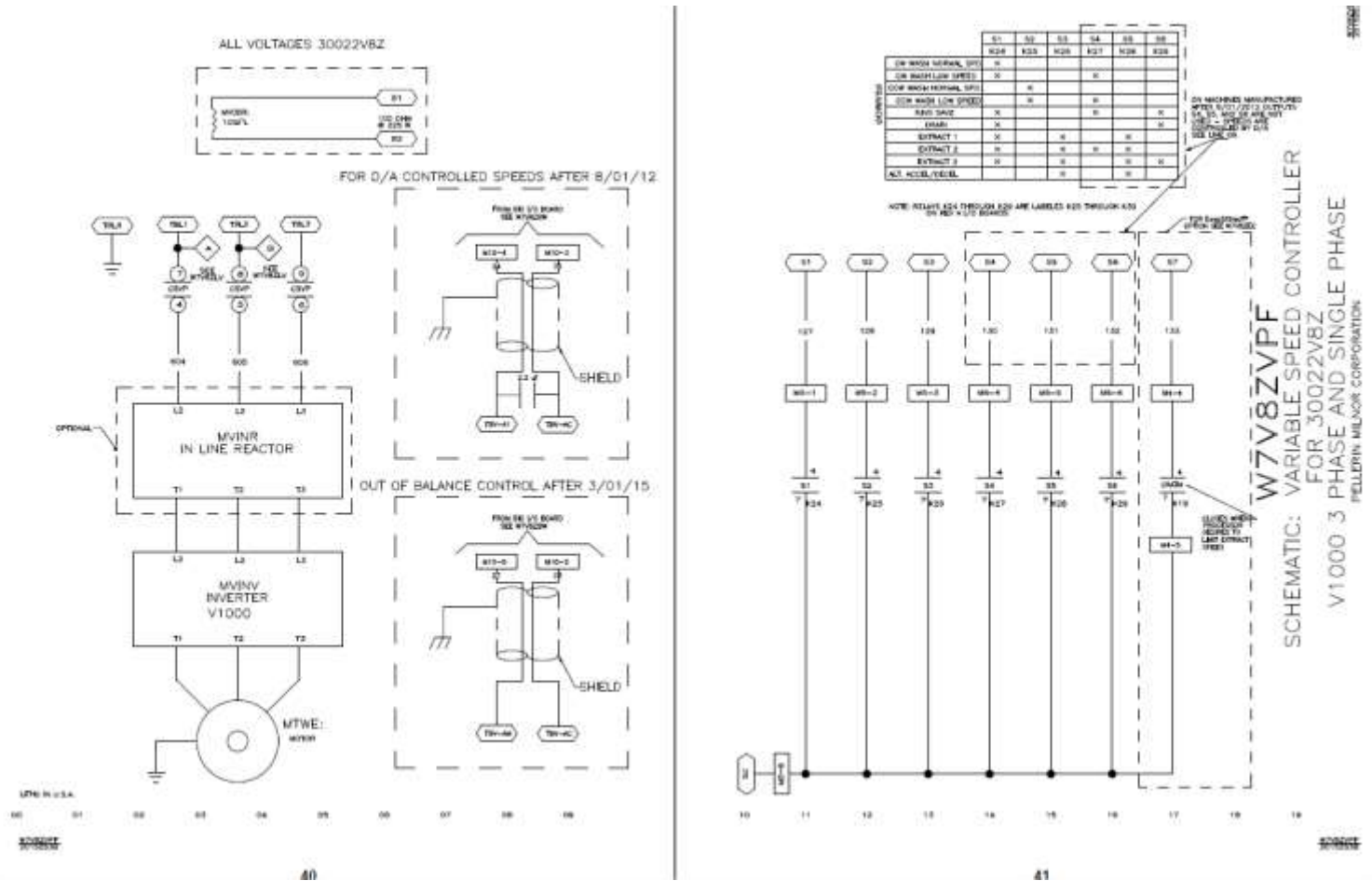


Inverter Speed Limiting Operation



This is a sample schematic of inverter connections for Inverter Out of Balance Detection. Check your specific schematic for exact details.

Most Milnorch machines use an analog signal for speed output to the inverter. Connections are on connector M10, terminals 3 and 4.

Some Milnorch 2 machines used output relay signals to select speeds at the inverter. These machines are not equipped with OOb detection.

Milnorch uses proprietary software on the Yaskawa inverter. This allows programming of the P2-01 through 07 constants needed for OOb detection to operate.

When properly equipped, the inverter will output a signal to the Milnorch A/D proportional to the OOb detected. The input to the Milnorch A/D channel on M10 Terminal 5 and 6. The voltage is monitored while the machine is in drain speed and is locked in during the last 5 seconds of drain. If the locked in voltage is below 200 millivolts we assume the inverter is malfunctioning and speed limits at the lowest allowable RPM. As the voltage rises above 200 Millivolts the machine is allowed to run at higher rpm. Between 200 Millivolts and a preset threshold voltage for the specific machine model the machine is allowed to run a max rpm. Above the threshold voltage the machine will limit extract speed. The threshold voltages vary by model.