



For GPD 503
Adjustable Frequency Drives
and VCD 703
Vector Control Drives

115 VAC Logic Interface

Part No. 46S03029-0010

DESCRIPTION

The 115 VAC Logic Interface is an option for the GPD 503 and VCD 703 drives. It allows the drive's multi-function inputs (Run, Stop and Jog) to be controlled by 115 Vac. It mounts directly to the drive's control terminal strip.

4. Connect external control signal wiring:

Figure 1. 2-Wire control (requires a maintained contact for run).

Figure 2. 3-Wire control (requires a N.C. Stop push button and a N.O. Run push button.)

INSTALLATION

CAUTION

Option contains electrostatic sensitive devices. Personnel should be grounded before removing carton contents and installing into the equipment.

1. Turn off all power to the drive.
2. Remove drive front cover. Verify that CHARGE indicator lamp inside drive is off.
3. Use a voltmeter to verify that power has been disconnected at incoming power terminals (L1, L2, L3).

5. Loosen, but do not completely remove, the screws at drive terminals 1 thru 8, 21 and 22. Slide the option board onto the drive terminal strip at these terminals. The wire hold down clips should be on top of the option board. Securely tighten the terminal screws. Attach the pigtail wire from the option board to terminal 11 on the drive.

NOTE

The option board attaches to terminals 21 and 22 only for extra mounting support. THESE ARE NOT 115 Vac INPUTS! Connection to these terminals should be made in accordance with TM 4231 para. 2.20, or TM 4730 para. 5.13. Always terminate connections between the wire hold down clip and the option board.

WARNING

Hazardous voltage can cause severe injury or death. Lock all power sources feeding drive in "OFF" position.

6. Replace drive front cover. Apply power to the drive. Applying the specified AC signal between terminal X2 and any of the option board terminals 1 thru 8 will now provide a low impedance path (short) between terminal 11 and the same numbered drive terminal (1 thru 8).

SPECIFICATIONS

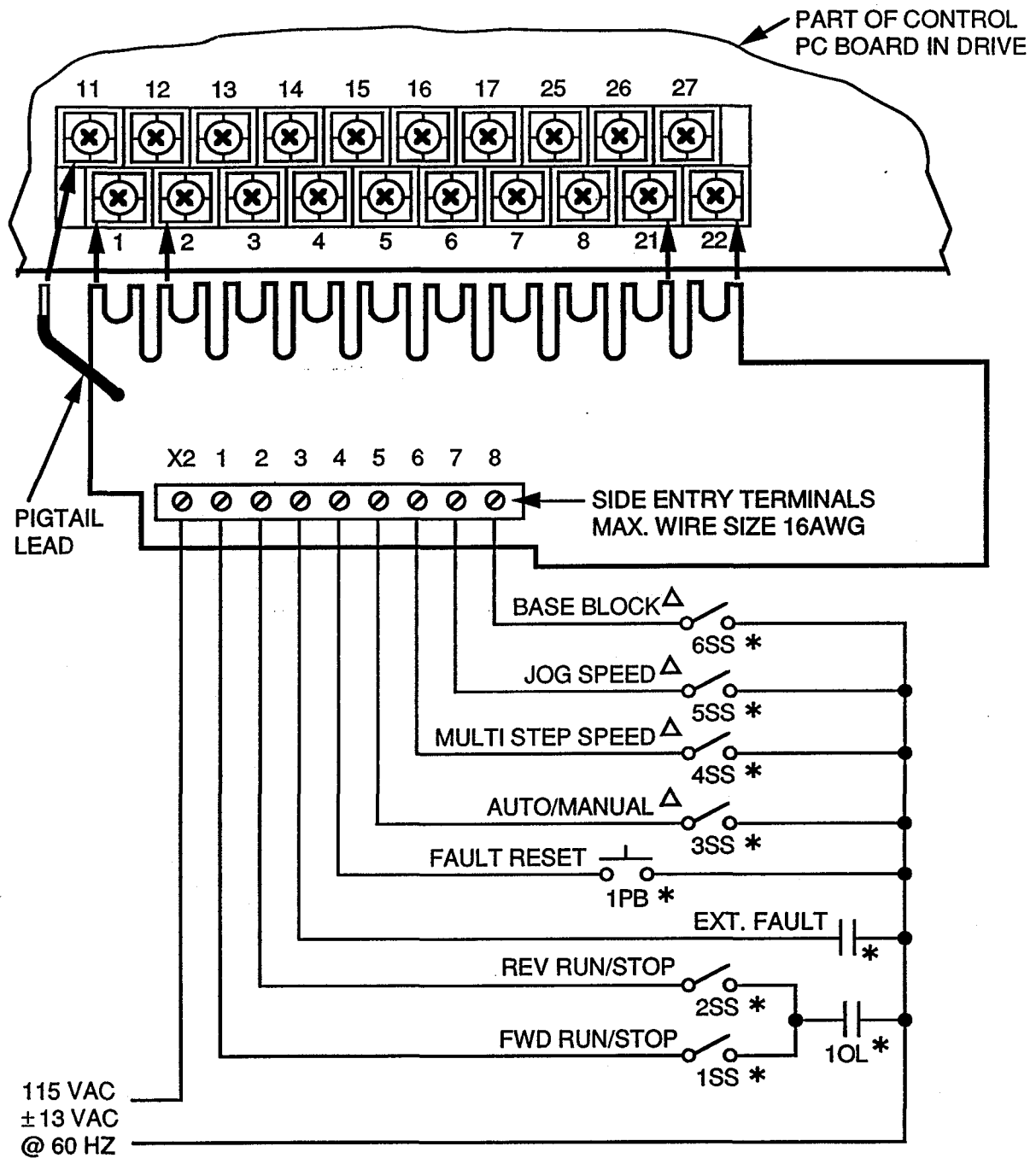
Recommended Voltage (VAC _{RMS} @ 60Hz)	115 ±13	
	VOLTAGE (VAC _{RMS})	CURRENT (mA AC _{RMS})
Lower Threshold *	55	3.9
Upper Threshold **	70	5.0
Nominal	115	8.45

* The MAXIMUM voltage and current required to maintain the output in its high impedance (OFF) state.

** The MINIMUM voltage and current required to maintain the output in its low impedance (ON) state.

CHANGE RECORD	NO.	DATE	DESCRIPTION

DWG. NO. 02Y00025-0347
SHEET NO. 1 OF 3
EFF. 11/02/92 (m-df)



* INDICATES COMPONENTS NOT SUPPLIED.

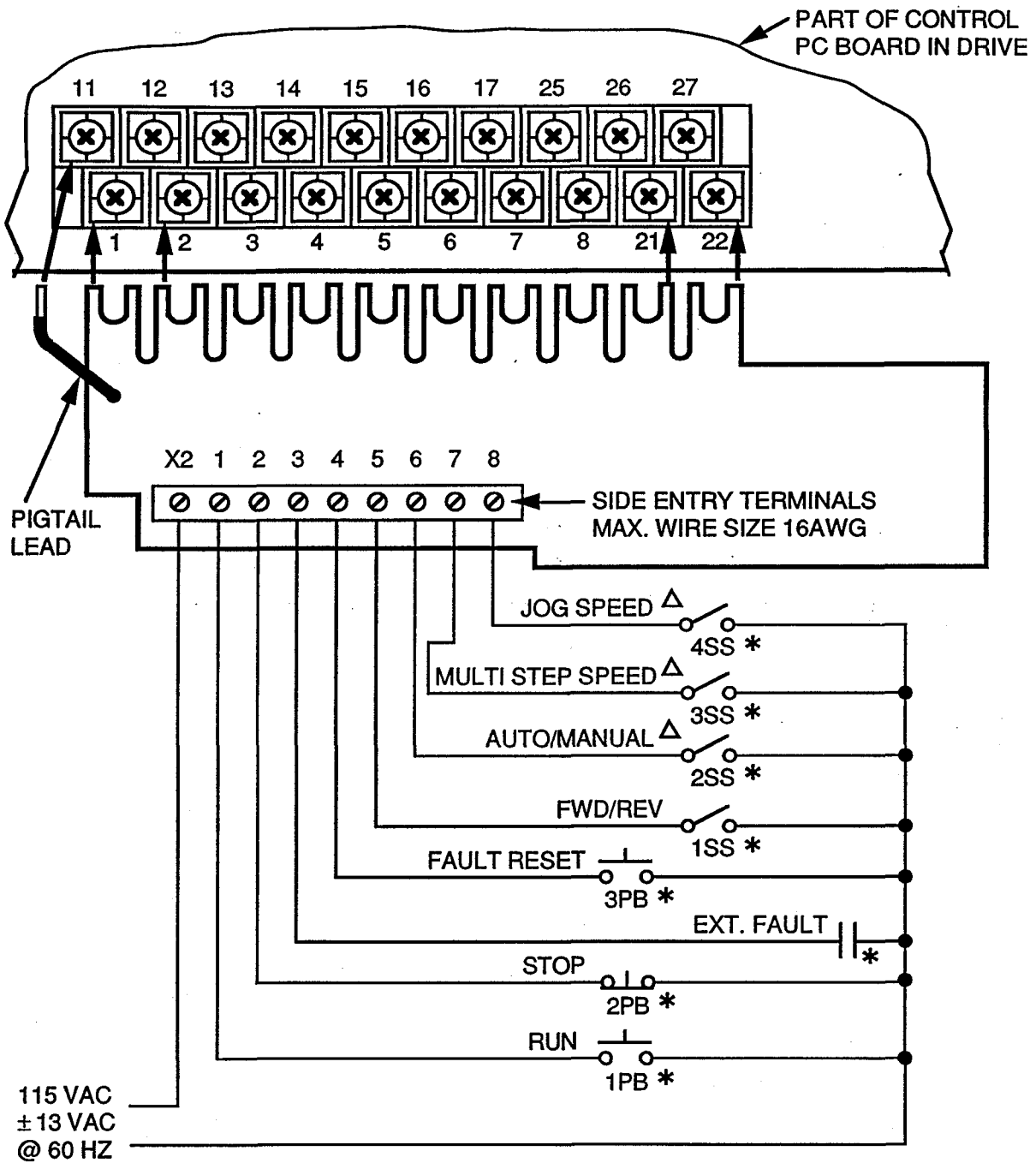
△ FUNCTIONS SHOWN FOR TERMINALS 5 THRU 8 ARE THE DEFAULT FUNCTIONS FOR 2-WIRE CONTROL. CONSTANT PROGRAMMING FOR Sn-15 THRU Sn-18 ALLOWS ASSIGNMENT OF OTHER FUNCTIONS TO THESE TERMINALS.

Figure 1 Interconnection For 2-Wire Control

Refer to Sheet 1 for latest change.

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* INDICATES COMPONENTS NOT SUPPLIED.

Δ FUNCTIONS SHOWN FOR TERMINALS 6 THRU 8 ARE THE DEFAULT FUNCTIONS FOR 3-WIRE CONTROL. CONSTANT PROGRAMMING FOR Sn-16 THRU Sn-18 ALLOWS ASSIGNMENT OF OTHER FUNCTIONS TO THESE TERMINALS.

Figure 2 Interconnection For 3-Wire Control

Refer to Sheet 1 for latest change.

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