1331 Troubleshooting Guide

Maintenance

The Bulletin 1331 is convection cooled by air flowing over the heat sink fins. Air flow must never be restricted. Heat sink fins or enclosure vents must never become obstructed with dirt or foreign matter. Periodically inspect and clean the drive only after removing all power. Do not use aromatic or petroleum based solvents to clean plastic parts of the drive.

Troubleshooting

Six status and fault LEDs are provided on the Bulletin 1331 as a troubleshooting guide. The following charts indicate drive malfunctions and the approved procedures for correcting these malfunctions

Warning: Power must be applied to the drive with the cover removed to perform certain troubleshooting procedures. Voltages on many components are at incoming lone potential or bus voltage. To avoid electrical shock hazard or damage to equipment, do not touch any drive component other than those specified in the troubleshooting procedure.

Motor does not run - Bus LED is illuminated - No other LEDs are illuminated

Is run signal present at control terminal block TB1 term 6B	No	Verify continuity of contact or relay connections

Yes

Consult your nearest Allen-Bradley area sales/support center for assistance.

Motor does not run - Bus and Run LEDs are illuminated - No other LEDs are illuminated

Is a speed command present at TB1 term. 1W, 2W and 3O (speed potentiometer) or at TB1 term. 3O and 4Y (0-10V DC speed signal)	No	Correct the cause

Yes

Is the motor securely connected to output terminals M1/T1, M2/T2, M3/T3?	No	Verify and resecure connections if necessary. Check motor thermal overloads for a tripped condition and reset if necessary.

Yes

Consult your nearest Allen-Bradley area sales/support center for assistance

Motor does not run continuously - LV LED is illuminated - Bus voltage is at or below 220V DC

Has the input voltage dropped below 10% of rated line voltage?	Yes	Monitor the incoming line voltage and correct the condition.

No

When the drive is reset is the LV LED still lit?	Yes	Monitor the incoming line voltage for low voltage transient conditions and correct the condition

No

Consult your nearest Allen-Bradley area sales/support center for assistance.

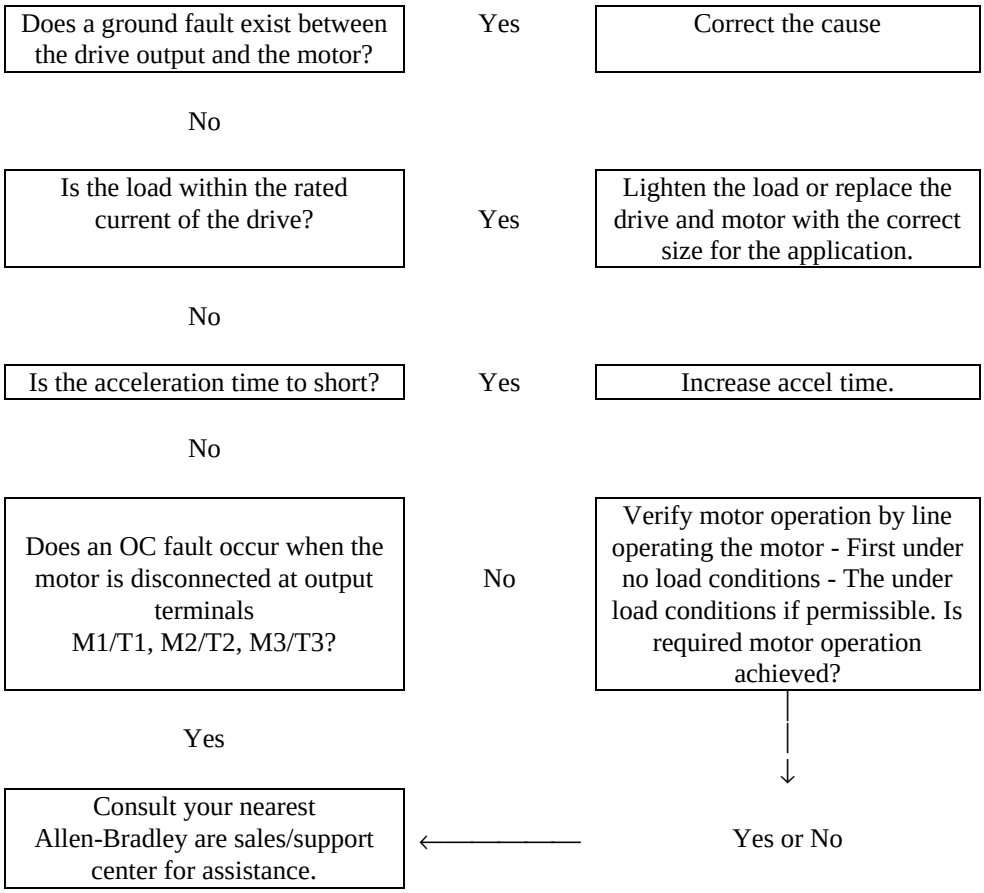
Motor does not run continuously - OH LED is illuminated - Heatsink temperature is at or above 100°C

Is the ambient temperature above the rated limit (40°C)? Are the heat sink fins dirty or enclosure vents clogged?	Yes	Lower the ambient temperature. Clean heat sink fins and enclosure vents.

No

Consult your nearest Allen-Bradley area sales/support center for assistance.

Motor does not run continuously - OC LED is illuminated - output is at or above 200% of rated input current



Motor does not run continuously - OV LED is illuminated - Bus voltage is at or above 400V DC