



PowerFlex® 755, Series A, Firmware Release 1.00X and F9 Faults

Issue

For firmware versions 1.009 and less, fault F9 (transistor overtemp) may occur when starting into large torques from zero speed in Sensorless Vector mode. Sensorless Vector ("Induction SV") is the default setting for P35 [Motor Cntl Mode], offering good performance and simple setup for many applications.

Corrective Action

If the F9 fault occurs at start:

- Ensure that Motor Nameplate settings (parameters 25...31) are correct
- Drive has been autotuned
- Value of current limit (see parameters 421...423) is at its maximum

If the problem still occurs, increase P64 [SVC Boost Filter] from the default value of 0.1 to 0.4.

Important: This change is not recommended when the problem is not present because it can decrease responsiveness and starting torque on some power ratings.

If the change to P64 does not resolve the problem, change P35 [Motor Cntl Mode] to Flux Vector ("Induction FV"), and rerun the autotune routine, including the inertia test.

www.rockwellautomation.com



Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846