

PowerFlex 700L Safe Storage Procedure

IMPORTANT Proper storage procedures must be followed. IF excess humidity and high swings in temperature occur during the period of shutdown or storage, moisture absorption into specific electrical components may occur. Excess humidity is defined as humidity levels that at any time exceed the product specification of 95% non-condensing. High temperature swings are defined as the phenomenon where condensation can occur as the air temperature rises rapidly causing condensation to occur especially on metallic surfaces. Refer to the PowerFlex 700L Liquid-Cooled Adjustable Frequency AC Drive User Manual, Publication 20L-UM001 for details regarding environmental specifications.

IMPORTANT The drive must not be located in a corrosive atmosphere. A study of the type of contamination and methods to avoid equipment damage must be performed if a corrosive environment is suspect.

Rockwell Automation is providing the following Commissioning / Start-up procedures that should be implemented immediately.

If excess humidity and high swings in temperature occur while the drive is in storage or during an extended drive shutdown (power off to the drive cabinet or CB1 open), then **the following commissioning/start-up procedure must be performed.**

If these environmental conditions cannot be reliably determined, Rockwell Automation recommends performing this procedure after a shutdown period of seven (7) days or more.

Commissioning / Start-up Procedure

Step #1

Prior to applying power to the **Variable Frequency Drive (VFD)** cabinet, visually examine the LCL capacitor bank hardware for signs of corrosion or any physical damage to the capacitor assembly.

Do not continue with commissioning procedure if corrosion is on the capacitor termination studs or any physical damage is present.

If corrosion and physical damage is not present, proceed to Step #2.

Step #2:

Ensure that the equipment is allowed to stabilize at room temperature for at least 24 hours. The main intent is to ensure that any condensation that occurs as a result of the ambient temperature changes is allowed to evaporate.

Qualified personnel must know how to quickly remove cabinet power before continuing.

With cabinet doors closed, apply power to cabinet, closing main circuit breaker. The main circuit breaker applies power to the input filter capacitors.

Qualified personnel should remain in visual contact of the equipment for at least four (4) hours to aid the detection of the anomaly. The Variable Frequency Drive (VFD) can remain in STANDBY, which occurs when main power is applied. It does not have to be in RUN mode actually spinning a motor. Indications of the anomaly include loud popping or hissing sounds, possibly followed by smoke; all coming from the input filter capacitor bank.

If any anomaly is observed, immediately disconnect main power and replace the input filter capacitor assembly. DO NOT continue with commissioning. Continued degradation of the capacitors will occur.

If no anomaly is observed, follow the appropriate commissioning procedure that was provided for this equipment.

U.S. Allen-Bradley Drives Technical Support - Tel: (1) 262.512.8176, Fax: (1) 262.512.2222, E-mail: support@drives.ra.rockwell.com
Online: www.ab.com/support/abdrives

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 NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, 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