



TECHNICAL BULLETIN

➤ *Recommend Earliest Possible Action* ◀

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Reference # 157 (Rev 2)

Route to: Modernization Managers/Service Managers

From: MCE Application Support Engineering Department

Date: March 1, 2023

Pages: 1

Subject: Premature IGBT Failure on KEB F5 480V size 16 & 17 G Housing Drives

Equipment: iControl and Motion 4000 (M4000) AC Controllers equipped with KEB F5 480V size 16 and 17 G-Housing Drives.

Description: KEB informed MCE that the KEB 480V F5 size 16 and 17 G - Housing Drives (16F5A1G-RPxx and 17F5A1G-RPxx) produced between the years 2016 through 2019 have a potential issue with the Power Modules. This could result in a premature failure of the drive with a shorted transistor or "Error Over Current" (E. OC) fault. KEB will provide a warranty exchange of these drives if they are less than five production years old:

- G-Housing drive, 480V size 16 or 17

Action: If a 480V F5 size 16 or 17 G-Housing Drive falls within the described guidelines, please follow these steps:

- Contact MCE and provide us with the MCE job number and the affected drive's serial number.
- MCE will handle the extended warranty approval process. We strongly recommend incorporating a Monitoring Circuit as an added protective measure to take the elevator out of service and disconnect power from the drive in case of a fault. MCE will supply the Monitoring Circuit if requested by the contractor. Please reference TB 161

MCE Help: As always, should you require any additional technical assistance on this or if you wish to add your email for future technical bulletin advisories:

- **Email:** techsupport@nidec-mce.com
- **Refer to the reference number above**