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# SHAFT VOLTAGE TESTING REPORT

TEST DATE: 00/00/0000

Prepared for: ABC Corporation

123 Industrial Circle

Memphis, TN 38118

Report by: Name

Email Address: email

Date: 00/00/0000

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| Shaft Voltage Testing Report | |
| **Background:** |  |
| **Purpose:** | **To test for VFD induced shaft voltages** |
| **Test Equipment:** | **AEGIS® Shaft Voltage Tester™, 100 MHz, 1 GSa/s with SVP conductive microfiber probe tips** |
| **Test Procedure:** |  | |
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| Test Results |  | |  | | | | |
| Reading 1 Parameters | Motor & Drive | | | | |  | |
|  | RPM | | | | |  | |
|  | AEGIS® Ring Installed? | | | | | No | |
|  | AEGIS® Simulator Applied? | | | | | No | |
| Observation: | | | |  | | | |
| **NO AEGIS® Ring**  Waveform shows common mode voltage from the PWM drive. Voltage is capacitively coupled to the motor shaft.  Shaft voltage may cause EDM discharges in the motor bearings and potential for catastrophic motor failure. | | | |
|  | | | | |  | | |
| Reading 2 Parameters |  | Motor & Drive | | | | |  |
|  |  | RPM | | | | |  |
|  |  | AEGIS® Ring Installed? | | | | |  |
|  |  | AEGIS® Simulator Applied? | | | | |  |
| Observation: | | | |  | | | |
| **WITH AEGIS® Technology**  Shaft voltage is discharged to ground through the AEGIS® conductive microfibers. Bearing is protected from EDM damage. | | | |

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| **Summary:** |  | **With NO AEGIS**® **technology, shaft voltages indicate potential for bearing discharges and EDM (electrical discharge machining) damage in the bearings.**  **With AEGIS**® **technology, shaft voltage is significantly decreased and shaft voltages discharge to ground through the AEGIS® ring.** | |
| **Recommendation:** |  | To protect bearings from destructive shaft voltages, all VFD driven AC motors should incorporate AEGIS® shaft grounding as a standard. Refer to AEGIS® Bearing Protection Handbook for Best Practices.  *AEGIS*® *Bearing Protection Rings are* ***Manufactured in the USA*** | |
| **For more information please contact:** | | | |
|  |  | **name** | **address** |