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REPORT

ON

POWER CONVERSION EQUIPMENT

LG Industrial Systems Co. Ltd.
Chonan, Chungnam, Korea

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DESCRIPTIONPRODUCT COVERED:

USL, CNL: AC Adjustable Speed Drives: Models SV055iV5-2DB, SV055iV5-4DB, SV075iV5-2DB, SV075iV5-4DB, SV110iV5-2DB, SV110iV5-4DB, SV150iV5-2DB, SV150iV5-4DB, SV185iV5-2DB, SV185iV5-4DB, SV220iV5-2DB, SV220iV5-4DB, SV300iV5-2, SV300iV5-4, SV370iV5-2, SV370iV5-4, SV450iV5-4, SV550iV5-4, SV750iV5-4, SV900iV5-4, SV1100iV5-4, SV1320iV5-4, SV1600iV5-4, and SV2200iV5-4

GENERAL:

The products covered by this report are general purpose, Open Type, Insulated Gate Bipolar Transistor (IGBT) AC motor controllers, operating from a three-phase source of supply. They are intended to control three-phase induction motors by means of a variable frequency, variable voltage output.

The units are intended for mounting within another enclosure suitable for the application, with forced filtered ventilation.

ENGINEERING CONSIDERATIONS: (Not For Field Representative's Use))

CNL Indicates Investigation to:

CAN/CSA-C22.2 No. 14-M91, Industrial Control Equipment.

USL Indicates Investigation to:

United States Standard - UL 508C Third Edition - Power Conversion Equipment.

United States Standard - UL 840 Second Edition - Insulation Coordination Including Clearances and Creepage distances for Electrical Equipment

General - These devices are intended to be used for general purpose industrial applications. The solid state overload relay functions of these drives were evaluated. These adjustable speed drives are provided with the NEC-required motor overload protection. The overload relay function is based on a nominal 115 percent of rated FLA. The drive is provided with solid state short circuit protection circuitry that is the same throughout the series. Current sensing is accomplished by three current sensors, one per phase.