

LVMD

Low-Voltage Motor Drive

L3Harris presents its new series of Low-Voltage Motor Drive (LVMD) for control of brushless motors up to 150kW at low voltage power supply in critical temperature and vibration environments.

MAIN FEATURES

The LVMD is designed to drive and control brushless motors in critical environments (Navy/Submarine) with a minimum operating temperature of -30°C and a maximum temperature up to +55°C.

Equipped with an on-board PLC (Programmable Logic Controller), it can be controlled both in standalone or with external signal commands.

Each feature and parameter can be controlled and monitored thru the 7-inch full-color touchscreen human-machine interface.

The LVMD is built in a solid AISI 316L steel case of 2.5mm thickness with internal reinforcement to improve shock and vibration resistance.

BENEFITS

- > High quality connectors for perfect interfaces (no signal losses) with external devices
- > High power quality – minimizes the output filter size and weight
- > Low output DV/DT – key benefit for motor winding
- > Uses low-voltage SiC module to motor control in high frequency
- > Power dense with fresh water liquid-cooling



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Qualified as per:

- > MIL-STD-461F/G
- > MIL-S-901D
- > MIL-STD-167A

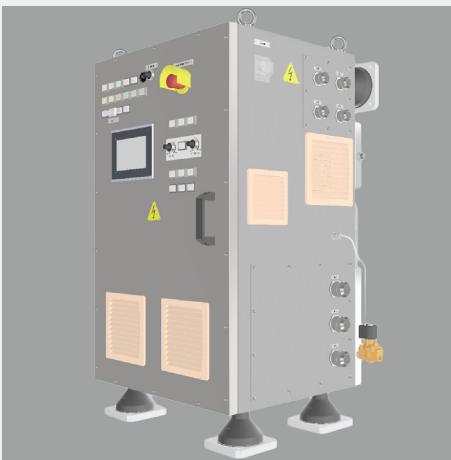
TECHNICAL DETAILS

- > DC power supplied
- > 7-inch full-color touchscreen display
- > Delivers high efficiency > 98%
- > Low line harmonics
- > High power-quality waveform with low THD (<2%)
- > Full galvanic insulation with external (optional) DC/DC converter
- > High-quality input filter
- > Optional output DV/DT or sinusoidal filter
- > High switching frequency
- > Water-cooled heat sink

SPECIFICATIONS

- > Rated Power: 10 ÷ 150 kW
- > Input Voltage: 100 ÷ 1000 VDC
- > Output Voltage: variable* - 3ph (* depending on the controlled motor)
- > Temperature range: -30°C ÷ +55°C
- > Variable Output Frequency: on customer request*
- > Overall dimensions (LxWxH): 650x500x1,000mm*
- > Weight: 280 kg approx

*contact our technical office for customized requests.



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