

MEDIUM VOLTAGE MOTOR DRIVE

L3Ha i'/h b id ech l g c bi e e - a e d la i a d l e- id h d la i a ef idea e de e high ef cie c l i d la 6MW Medi V l age M D i e (MVMD).

Our MVMD motor drive modules operate as a motor drive or active rectifier for DC applications.

As many as six MVMD modules can operate in parallel to drive motors in increments of 6MW (6MW up to 36MW).

FEATURES

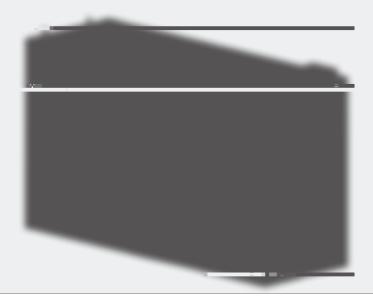
- > The MVMD is compatible with all types of multi-phase motors:
 - > Induction
 - > Synchronous
 - > High temperature superconductor
 - > Permanent magnet technologies
- > Delivers high efficiency >98%
- Low line harmonics High power quality waveforms with low total harmonic distortion <2%
- > MVMD supports full galvanic isolation with additional AC/DC converters
- Compact module for small system footprint and envelope
- > MVMD modules configured in parallel or sychronized, are capable of driving 3-, 6or 9-phase motors

APPLICATIONS

- > DC power supply
- Potential PCM-4 type source replacement for next generation integrated power systems
 - > Eliminates need for 60Hz transformer
 - > Weight savings in comparison to existing integrated power systems
- Single common module suitable for many applications – drives and distribution
- > Perfect for retrofit with existing motors
- > Future surface and combatants

BENEFITS

- > High-power quality minimizes the output filter size and weight
- > Low output delta voltage/delta time key benefit for motor winding
- > Uses low cost, low voltage IGBTs to generate medium voltage output
- > Eliminates the need for harmonic filters
- > Module fully supports bi-directional power flow and operates as an active rectifier to provide high DC power
- > High torque drive capability with low ripple at low speeds
- > Power dense with fresh water liquid-cooling, eliminates need for de-ionized water
- > Single common module part number for two functions



SPECIFICATIONS

- > Rated at 6.25MW, +/-0.9PF
- > Input voltage: 4200 VDC
- > Output voltage: 4160 VAC, variable frequency, 3-phase
- Individual MVMD measures: 144" length X 51" width X 84" height (3658 mm length X 1295 mm width X 2134 mm height)
- > Individual MVMD weighs: 8,000 lbs

L3Ha i _SellShee _MPES MVMD_Re A

© 2021 L3Harris Technologies, Inc. | 12/2021

These item(s)/data have been reviewed in accordance with the international traffic in arms regulations (ITAR), 22 CFR Part 120.11, and the export administration regulations (EAR), 15 CFR 734(3)(b)(3), and may be released without export restrictions.

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.