

DRILLING ELECTRIFICATION

A Comprehensive Harmonic Solution for High-Line Drilling Applications



Mirus International is excited to announce the expansion of our Lineator AUHF product line, now available in sizes up to 5000 HP. As a longstanding supplier to the drilling and offshore sectors, we specialize in meeting the demanding harmonic mitigation needs of high-power applications.

Our Extreme Duty AUHF filter has been designed specifically for the onshore and offshore oil and gas markets. Unlike conventional passive filters and active harmonic filters, our AUHF-ED is built to withstand the rigorous requirements of these industries and comply with the necessary harmonic limits.

The AUHF-ED can be configured to cater to both diode bridge load structures and thyristor-based DC drive load structures, guaranteeing optimal performance for a range of applications.

Filter Specification for AUHF-ED

- Nominal 3 Phase Voltages: 400V, 440V, 480V, 600V, 690V
 - Frequencies: 50Hz or 60Hz
- Through 5000HP (4.0MW) Nominal Load
- Constant Torque Rated
- Available for designs in Type D: AC Drive/Diode Bridge or Type T: DC Drive/Thyristor Bridge
- Background Voltage Distortion Withstand: 12% Nominal, consult factory for applications
 - The AUHF-ED configuration has been successfully deployed in background voltage distortion environments as high as 18% with no temperature derating requirement.
- High Ambient Temperature Withstand: 55°C Max at full load.
- Capacitance to Power Ratio: <15% kVAR to kW
- No-Load/Low Load Voltage Boost: <3% without the need for a capacitor switching contactor.
- Enclosure Configurations:
 - E1 - Indoor, Nema 1
 - E1E - Enhanced Outdoor (< Nema 3R)
 - M1 - Below Deck Marine with Galvaneel Steel and Marine Epoxy Paint
 - M1E - Above Deck Marine with Galvaneel Steel and Marine Epoxy Paint
 - S1E - 304 Stainless Steel
 - 316 SS and Custom IP Enclosure ratings are available - consult factory.
 - E0, E0P, and E0M - Open Configurations available for integrators.
- Certifications Available: CSA, cULus, ABS, CE, UL recognized component



Filter Specification for AUHF-ED

- Conductor Terminations:
 - Busbar pads in typical NEMA configurations. Custom termination layouts available upon request.
- Optional:
 - PLT - Tin plating and conformal coating for exposed terminals available for harsh environments
 - Bottom Entry Gland Plates
 - Top Entry Provisions
 - Incoming and Outgoing Cable and Hard Bus Interconnect Sections
 - Special design Cable Tray provisions or Bus Duct Termination options
 - Incoming and Outgoing provisions for High Amperage Receptacles or Close-Coupling to transformer or switchgear
- Coordinated Surge Protection (CSP): Voltage transient and Surge Protection coordinated to maximize protection to critical component and load equipment.

Skid Mount Option

The Mirus Extreme Duty Filter is specifically designed for extreme skid duty applications. It features a heavy-duty welded skid mountable frame assembly that offers superior rigidity and enhanced structural reinforcement. The filter is equipped with filter "core and coil" bracing to effectively handle dynamic shock and vibration during transport and installation. Additionally, our skid frame comes with standard lift provisions for convenient handling and mounting on the integration skid.

Choose Mirus International for your harmonic mitigation needs in the Oil and Gas sector and experience the reliability and efficiency of our Lineator AUHF products.

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