

DC to AC VFD–Mini Inverter for Auxiliary Motors

AC Induction

Contact-Cooled

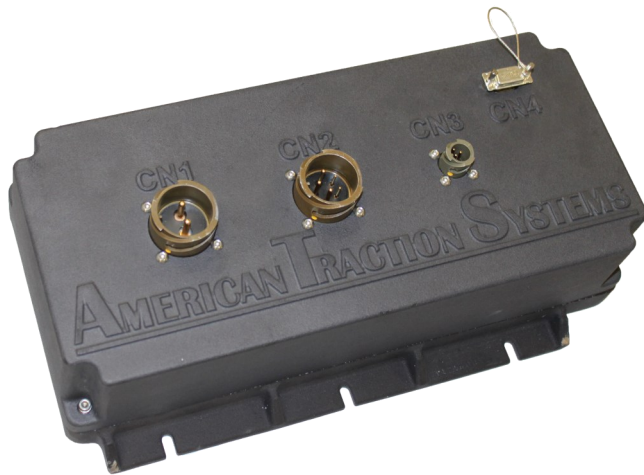
450 — 900 V_{DC}

37 A_{PK-RMS}

39 kVA_{PK}

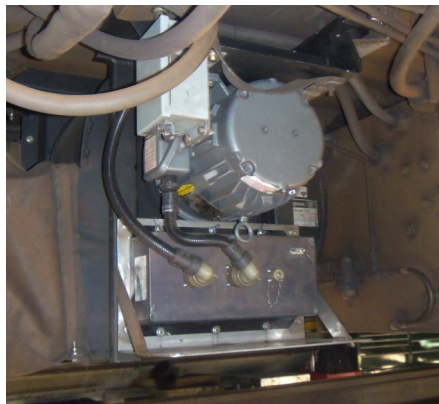
Features

- Suitable for Blowers, Compressors, Evaporators and Air Handlers
- Operates AC induction motors from DC line voltage
- Variable Voltage/Speed Output
- Reverse polarity protection
- IP67 rated cast aluminum enclosure
- Auto Restart with automatic Motor Speed Search for uninterrupted operation under power loss condition
- Electronic motor thermal overload protection
- Over 200 units in operation

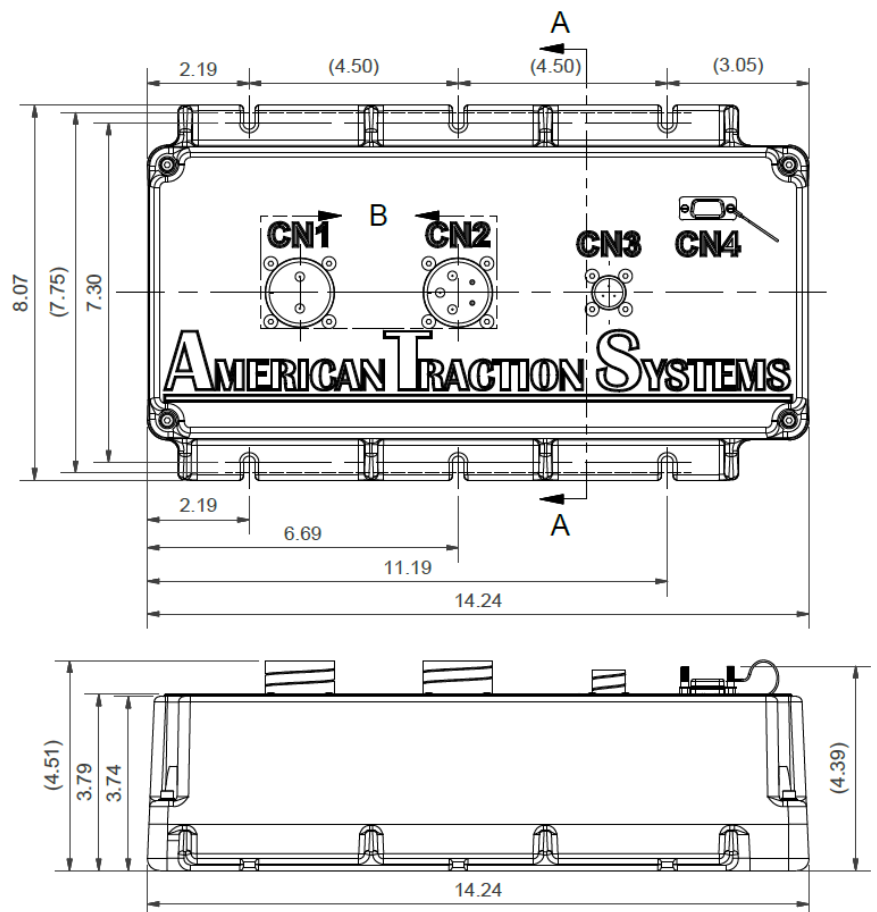


Mechanical Specifications

Size	14.2" (362 mm) x 8.07" (205 mm) x 4.5" (115 mm)
Weight	12 lb (5.44 kg)
Operating Temp	-25°C to 70°C



Typical Light Rail Blower installation



VFD-Mini Inverter

VFD-Mini Electrical Specifications

Description	Specification
Power	
Input Voltage	750VDC nominal 450VDC to 900VDC Contact factory for other ranges
Output Current	15A RMS Continuous (w/2.5m/s airflow) 9A RMS Continuous without airflow
Output Frequency	0 - 125Hz
Control I/O	
Reverse Polarity	Software and hardware detection
Power Loss	Auto restart with automatic motor speed search to continue operation.
Load Short Circuit	Current Control Overload Trip IGBT Over Current Protection
Thermal Protection	Heat Sink Over-temperature Alarm at 75°C & Shutdown at 80°C
Motor Overload	Electronic Time trip
Overcurrent Protection	Programmable

VFD-Mini DC/AC System Block Diagram

