

# VersaBridge<sup>®</sup> AC

## Medium Voltage Variable Frequency Drive



**Front View**

**Side View**

### SPECIFICATIONS

#### Electrical

Nominal Motor Capacity	1500 – 2000 HP
Output Current	260 A
Output Voltage	0 – 4.16 kV
Output Frequency	0 – 120 Hz Standard, Higher Available with Derating
Overload	VT: 110% for 1 min Every 10 min CT: 150%*
Regulatory Compliance	UL, cUL, IEEE, ANSI, NEMA
Auxiliary Supply	460 V, 60 Hz, 3-Ph
Mains Supply Voltage	4.16 kV ±10%
Mains Supply Frequency	60 Hz ±5%
Input Protection	Integral, Fused Vacuum Starter with Isolation Switch
Input Power Factor	≥0.95 at Rated Power
Efficiency	≥0.96
Input Harmonics	IEEE 519, IEC 61000-2-4 Compliant
Output Harmonics	< 1% THD (Current)
Transformer Topology	54 Pulse, Integral, Copper Windings
Inverter Topology	Multilevel, Cascaded H-Bridge
DC Capacitor Type	Film, Self-healing, 20-Year Life
Ride-Through Capability	IEEE 1566 Compliant

\* Consult factory for additional options.

## Controls

Control Method	V/Hz, Vector*
User Interface/ Display	10" PC, Resistive Touch Screen
Communication Interface	Modbus TCP/IP (Ethernet), RS-232 , and RS-485, PLC I/O
User I/O	(8) Digital Inputs – (6) Digital Outputs (4) Analog Inputs – (2) Analog Outputs
Indicators	Fault (Red) – Alarm (Amber) Run Status (Green) – Main/Aux Power Status (White)
Isolation Type	Optical Fiber
Speed Regulation	±1%
Spinning Load	Auto/Manual Restart, Catch a Spinning Load
Synchronous Transfer	Automatically Transfer the Motor to and from the Utility Line, Closed-Transition Operation, Capable of Starting Duty Only Beyond Nominal HP Rating, Depending on Load Conditions
Protective Functions	Overcurrent, Overload, Current Limit, Over/Under Voltage, Ground Fault, Unbalance, Over Temperature, Overspeed

## Mechanical

Enclosure Rating	NEMA 1, Gasketed
Enclosure Access	Mechanically Interlocked Doors, Disconnect Viewing Window
Cable Entry	Top, Bottom, or Both
Rear Access	Not Required
Cabinet Dimensions	H: 95" x W: 137.8" x D: 51.3" (without Fans) H: 112" x W: 137.8" x D: 51.3" (with Fans)
Color	Light Gray, RAL 7035
Total Weight	11,185 lbs

## Environmental Condition

Ambient Temperature	0 - 40°C, Up to 50°C with Derating
Altitude	0 – 1000m, Up to 2000m with Derating
Humidity	95%, Non-Condensing
Noise Level	≤ 85 dBA

## Cooling System

Transformer	Forced-Air Cooling, Redundant Fans
Electronics	Forced-Air Cooling, Redundant Fans
Heat Rejection	55 kW

\* Consult factory for additional options.



Commissioning support is available. Contact our Aftermarket Service group at 888-754-5006 for further details.