

VersaBridge[®] 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
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, Capacitive Touch Screen
Communication Interface	Modbus TCP/IP (Ethernet), RS-232 , and RS-485, PLC I/O
User I/O	(8) Digital Inputs – (8) Digital Outputs (2) 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
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	9700 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	45kW

* Consult factory for additional options.

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