



VFD

DATE: _____
 PROJECT: _____
 LOCATION: _____

Accessory Data Sheet
Variable Frequency Drive
HVAC Drive
IP20/NEMA 1
YASKAWA Z1000 Series
Three Phase

STANDARD CONSTRUCTION FEATURES:

Built-in 5% line impedance - On board EMI/RFI filter complies with IEC 61800-3 restricted distribution for first environment - Embedded BACnet communications (BTL Certified), along with Modbus/Memobus - Plenum Rated (UL 1995), Seismic Rated (IBC 2006 - Certification 12/2011) - RoHS compliant materials - Time and date stamping for events, timer controls for starting, stopping, and speed changes - Set point for closed loop controls - Independent PI to control an external device - 5-Line 16 character alpha-numeric display, with hands off auto function - 5 kHz carrier frequency with dynamic noise control.

SPECIFICATIONS:

Input Range: 380-480± 10% VAC Three Phase / 48-62Hz
 Output Ratings: Output Power 380-480V Three Phase 3-200 HP
 Overload Capacity: 110% Overload for 60 sec.
 Output Frequency: 0.01~240 Hz
 Control Methods: V/Hz Control

Open Loop Current Vector Control for Permanent Magnet motors
 Squirrel Cage Induction
 Interior Permanent Magnet (IPM)

Motor Types:

Protective Design:

Ambient Operating Temperature: -10°C to 40°C (14°F to 104°F)

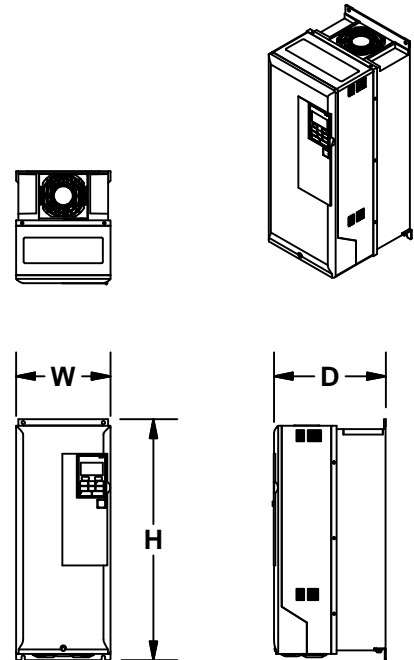
Global Certification: CE, UL, CSA, RoHS

Standard I/O:

- (7) multi-function programmable digital inputs (24Vdc)
- (2) multi-function programmable analog inputs (0-10VDC or 4-20mA)
- (1) fault relay output (Form C - 2 Amps at 250Vac max.)
- (3) multi-function programmable relay outputs (Form A - 2 Amps at 250Vac max.)
- (2) multi-function programmable analog outputs (0-10Vdc or 4-20mA)
- (1) 24Vdc, 150 mA transducer or transmitter power supply

Network Communication: Standard: BACnet, RS485/422 -

programmable up to 76.8 kbps
 Optional: LonWorks, Metasys, APOGEE
 FLN, EtherNet/IP



Size VY2J19N1G shown.

DIMENSION DATA

Catalog No.	Voltage	HP	Output*	H	W	D	Wt.
VY2J15N1K	460	3	4.8	14.1	4.9	8.6	11.9
VY2J16N1K	460	5	7.6	14.1	4.9	8.6	12.6
VY2J17N1K	460	7-1/2	11.0	14.1	4.9	8.6	13.4
VY2J18N1K	460	10	14.0	17.6	4.9	9.2	16.1
VY2J19N1K	460	15	21.0	17.6	4.9	9.2	16.8
VY2J20N1K	460	20	27.0	17.6	4.9	9.2	18.5
VY2J21N1K	460	25	34.0	20.1	7.9	9.4	28.7
VY2J22N1K	460	30	40.0	20.1	7.9	9.4	28.7
VY2J23N1K	460	40	52.0	21.3	10.0	10.3	59.5
VY2J24N1K	460	50	65.0	21.3	10.0	10.3	63.9
VY2J25N1K	460	60	77.0	21.3	10.0	10.3	68.3
VY2J26N1K	460	75	96.0	21.3	10.0	10.3	70.5
VY2J27N1K	460	100	124.0	27.6	11.8	11.5	101.4
VY2J28N1K	460	125	156.0	30.5	14.2	15.7	160.9
VY2J29N1K	460	150	180.0	30.5	14.2	15.7	167.6
VY2J30N1K	460	200	240.0	30.5	14.2	15.7	174.2

ALL DIMENSIONS IN INCHES. WEIGHTS IN LBS.
 *RATED OUTPUT CURRENT (AMPS)