

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: 200-240± 10% VAC Three Phase / 48-62Hz  
 Output Ratings: Output Power 200-240V Three Phase 3-100 HP  
 Overload Capacity: 110% Overload for 60 sec.  
 Output Frequency: 0.01~240 Hz  
 Control Methods: V/Hz Control

**Motor Types:**

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

**Protective Design:**

IP20/NEMA1

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.)

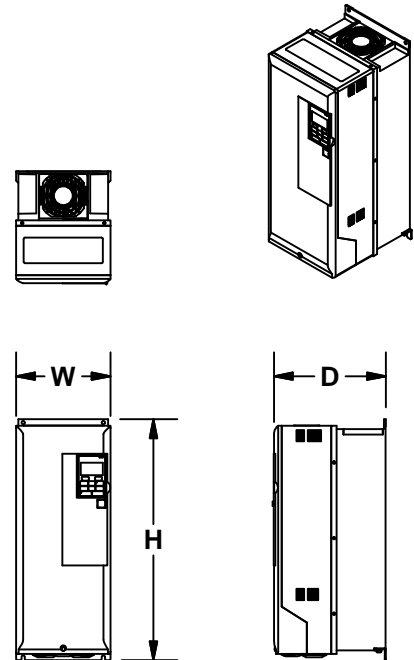
(3) multi-function programmable relay outputs (Form A - 2 Amps at 250Vac max.)

(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 VY2G19N1G shown.

**DIMENSION DATA**

Catalog No.	Voltage	HP	Output*	H	W	D	Wt.
VY2G15N1G	208-240	3	10.6	14.1	4.9	8.6	12.3
VY2G16N1G	208-240	5	16.7	14.1	4.9	8.6	13.0
VY2G17N1G	208-240	7-1/2	24.2	17.6	4.9	9.2	16.3
VY2G18N1G	208-240	10	30.8	17.6	4.9	9.2	17.2
VY2G19N1G	208-240	15	46.2	20.1	7.9	9.4	26.5
VY2G20N1G	208-240	20	59.4	20.1	7.9	9.4	28.7
VY2G21N1G	208-240	25	74.8	21.3	10.0	10.3	59.5
VY2G22N1G	208-240	30	88.0	21.3	10.0	10.3	61.7
VY2G23N1G	208-240	40	114.0	21.3	10.0	10.3	63.9
VY2G24N1G	208-240	50	143.0	30.5	13.4	15.7	143.3
VY2G25N1G	208-240	60	169.0	30.5	13.4	15.7	149.9
VY2G26N1G	208-240	75	211.0	30.5	13.4	15.7	154.3
VY2G27N1G	208-240	100	273.0	30.5	13.4	15.7	160.9

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