

DATE: _____

PROJECT: _____

LOCATION: _____

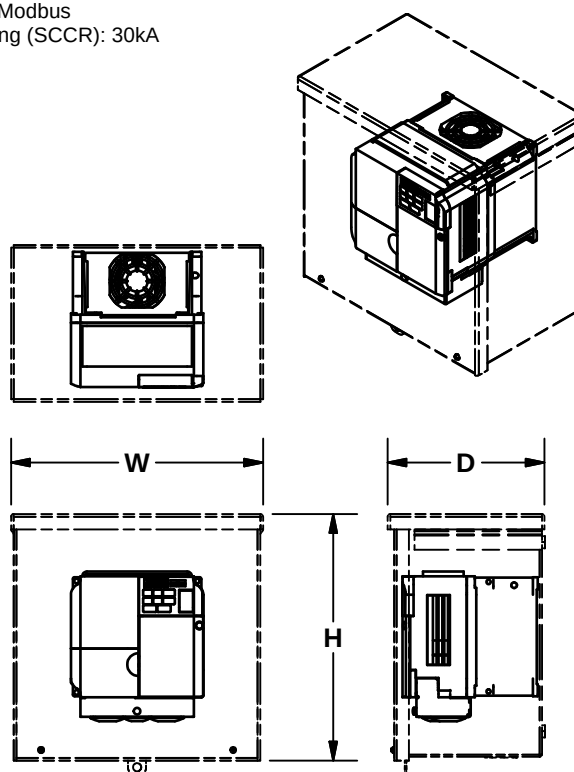
Accessory Data Sheet
Variable Frequency Drive
Micro Drive
NEMA 3R Enclosure
YASKAWA V1000 Series
Three Phase

STANDARD CONSTRUCTION FEATURES:

Current vector control, open loop - RoHS compliance - Online tuning - Induction motor (IM) or permanent motor (PM) operation - Function Block Diagram (FBD) programming via DriveWorksEZ™ - Starting torque 200% at .5 Hz - Side by side installation - Removable terminal block with parameter backup function - "One-touch" copy function with verify - Super-fast 2 ms scan cycle with dual CPU - EN9541 Safety Cat. 3, Stop Cat. 0 - Vibration resistance, from 20 Hz to 50 Hz (0.65G) - Swing PWM function to decrease noise at low carrier frequencies - Pre-maintenance function - Modbus communication - Cooling fan replacement without tools - Short Circuit Current Rating (SCCR): 30kA rms symmetrical.

SPECIFICATIONS:

Input Range: 200-240± 10% VAC Three Phase / 48-62Hz
Output Ratings: Output Power 240V Three Phase 1/6-25 HP
Overload Capacity: 120% Overload for 60 sec.
Output Frequency: 0~400 Hz
Control Methods: Open Loop Current Vector Control, V/f Control, PM Open Loop Vector Control
Simple closed loop speed control
Protective Design: IP20/NEMA1 (NEMA 3R Cabinet)
Braking Transistor: Standard in all models
Braking Torque: 20-40% increase with intelligent high slip braking function
KEB Function: Uses mechanical energy to continue operation during momentary power failure, standard
Overvoltage Function: Prevent function for die-cushion in a hydraulic mechanical press and other applications
Maintenance: Elapsed timer assists in preventative maintenance for cooling fan, capacitors, and transistors
Easily replaceable cooling fan
Global Certification: CE, UL, cUL, RoHS, TUV
Available I/O: (7) multi-function digital inputs
(1) hardware baseblock
(2) multi-function analog inputs
(1) multi-function pulse input
(1) multi-function relay output
(2) multi-function photo-coupler outputs
(1) multi-function 0-10 Vdc analog output
(1) multi-function pulse output
Network Communication: Standard: RS-422/485 MODBUS 115 kbps
Optional: DeviceNet, EtherNet/IP, Profibus-DP, Modbus TCP/IP, MECHATROLINK-II
Keypad Operator: Standard LED 5 digit display
Optional multi-lingual, full-text remote LCD



Size VY1G16N3RG shown.

DIMENSION DATA

Catalog No.	Voltage	HP	Output*	H	W	D	Wt.
VY1G07N3RG	200-240	1/6	1.2	10	10	4	8
VY1G08N3RG	200-240	1/4	1.9	10	10	4	8
VY1G11N3RG	200-240	3/4	3.5	10	10	4	9
VY1G12N3RG	200-240	1	6.0	10	10	4	9
VY1G14N3RG	200-240	2	9.6	10	10	4	11
VY1G15N3RG	200-240	3	12.0	10	10	4	11
VY1G16N3RG	200-240	5	19.6	10	10	6	14
VY1G17N3RG	200-240	7 1/2	30.0	18	12	8	26
VY1G18N3RG	200-240	10	40.0	18	12	8	26
VY1G20N3RG	200-240	20	56.0	18	12	8	30
VY1G25N3RG	200-240	25	69.0	18	12	8	38

ALL DIMENSIONS IN INCHES. WEIGHTS IN LBS.

*RATED OUTPUT CURRENT (AMPS)