



VFD

DATE: _____

PROJECT: _____

LOCATION: _____

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 Single Phase / 48-62Hz
 Output Ratings: Output Power 240V Three Phase 1/6-5 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

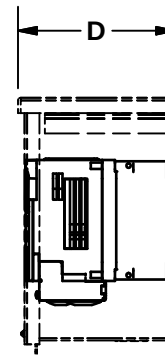
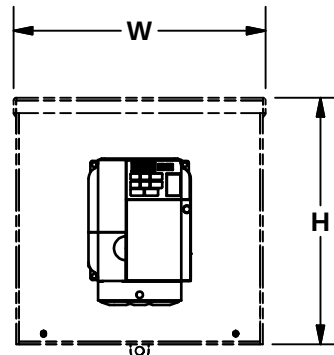
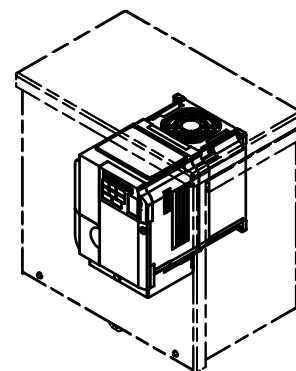
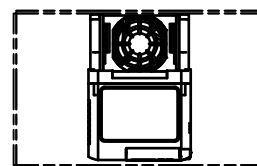
Overvoltage Function: Prevent function for die-cushion in a
 hydraulic mechanical press and
 other applications

Maintenance: Elapsed timer assists in
 preventative maintenance for
 cooling fan, capacitors, and
 transistors

Global Certification: Easily replaceable cooling fan
 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 VY1D14N3RG shown.

DIMENSION DATA

Catalog No.	Voltage	HP	Output*	H	W	D	Wt.
VY1D07N3RG	200-240	1/6	1.2	10	10	4	8
VY1D08N3RG	200-240	1/4	1.9	10	10	4	8
VY1D11N3RG	200-240	3/4	3.3	10	10	6	10
VY1D12N3RG	200-240	1	6.0	10	10	6	12
VY1D14N3RG	200-240	2	9.6	10	10	6	12
VY1D15N3RG	200-240	3	12.0	12	12	8	18
VY1D16N3RG	200-240	5	17.5	12	12	8	19

ALL DIMENSIONS IN INCHES. WEIGHTS IN LBS.

*RATED THREE PHASE OUTPUT CURRENT (AMPS)