



VFD

DATE: _____

PROJECT: _____

LOCATION: _____

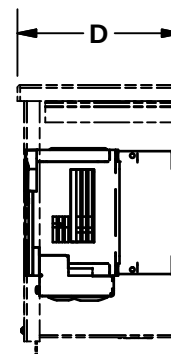
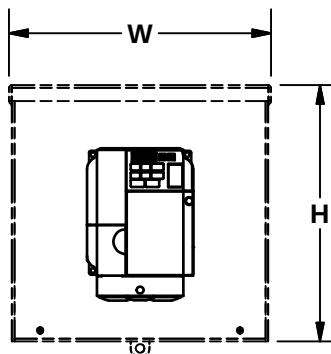
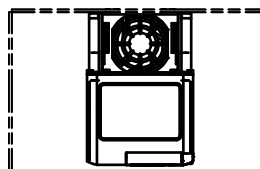
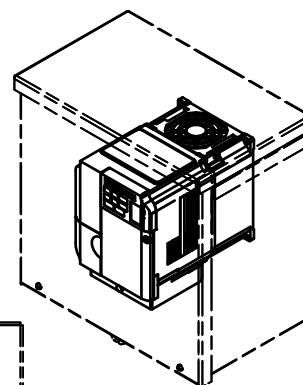
Accessory Data Sheet
Variable Frequency Drive
Micro Drive
NEMA 3R Enclosure
YASKAWA V1000 Series
Three Phase

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: 380-480± 10% VAC Three Phase / 48-62Hz
Output Ratings: Output Power 380-480V Three Phase 1/2-25 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 VY1J15N3RK shown.

DIMENSION DATA

Catalog No.	Voltage	HP	Output*	H	W	D	Wt.
VY1J10N3RK	380-460	1/2	1.2	10	10	4	9
VY1J12N3RK	380-460	1	2.1	10	10	4	9
VY1J14N3RK	380-460	2	4.1	10	10	6	11
VY1J15N3RK	380-460	3	5.4	10	10	6	12
VY1J16N3RK	380-460	5	8.8	10	10	6	12
VY1J17N3RK	380-460	7 1/2	11.1	10	10	6	13
VY1J18N3RK	380-460	10	17.5	18	18	8	26
VY1J19N3RK	380-460	15	24.0	18	18	8	26
VY1J20N3RK	380-460	20	31.0	18	18	8	29
VY1J21N3RK	380-460	25	38.0	18	18	8	30

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

X1015R00