

# J1000

1/8 to 7.5 HP



## Great Things Come in Small Packages

In our pursuit to create drives optimized for variable speed needs in compact applications, the J1000 is the solution. This micro-drive is simple and reliable with Yaskawa quality. Demand continues to increase for compact drives with hassle-free maintenance. Yaskawa drives have earned a reputation for high performance, high functionality, and high quality.

### Standard Features

- Open loop V/f control
- Restriction of Hazardous Substances (RoHS) compliant
- Dual rating: Normal Duty and Heavy Duty
- Starting torque of 150% at 3 Hz
- Side-by-side installation due to advanced special alloy hybrid heatsink
- Preferred parameter feature
- "One-touch" copy function with verify with 5-digit LED keypad
- Increased vibration resistance, from 20 Hz to 50 Hz (0.65G)
- 1 in 10,000 failure rate
- Swing PWM function to decrease noise at low carrier frequencies
- Ingenious pre-maintenance function
- Modbus communication up to 38.4 kbps
- Reduction in mechanical parts to increase MTBF
- Cooling fan replacement without tools
- Mean Time Between Failures (MTBF): 28 years
- Short Circuit Current Rating (SCCR): 30kA rms symmetrical
- Built-in dynamic braking transistor

### Available Options

- Potentiometer Unit
- RS-232 Communication Unit for Remote Operator
- RS-232 Communication Option for Copy Unit/PC
- RS-485 Communication Interface
- USB Copy Unit
- Remote LED Digital Operator
- NEMA 1 Kit
- DIN Rail Kit
- Input CE Filter

200-240V Single Phase 50/60 Hz						
Model CIMR-JU	BA0001	BA0002	BA0003	BA0006	BA0010	
Motor Capacity (HP)	ND 1/8 & 1/4 HD 1/8	1/4	1/2 & 3/4 1/2	1 & 1.5 3/4 & 1	2 & 3 2	
Output Current A (rms)	ND 1.2 HD 0.8	1.9	3.3 3.0	6.0 5.0	9.6 8.0	

200-240V Three Phase 50/60 Hz								
Model CIMR-JU	2A0001	2A0002	2A0004	2A0006	2A0010	2A0012	2A0020	
Motor Capacity (HP)	ND 1/8 & 1/4 HD 1/8	1/4	1/2 & 3/4 1/2	1 & 1.5 3/4 & 1	2 & 3 2	3 3	5 5	
Output Current A (rms)	ND 1.2 HD 0.8	1.9	3.5* 3.0	6.0 5.0	9.6 8.0	12.0 11.0	19.6 17.5	

380-480V Three Phase 50/60 Hz								
Model CIMR-JU	4A0001	4A0002	4A0004	4A0005	4A0007	4A0009	4A0011	
Motor Capacity (HP)	ND 1/2 HD 1/2	3/4 & 1 3/4	2 2	3 3	4 3	5 4	7.5 5	
Output Current A (rms)	ND 1.2 HD 1.2	2.1 1.8	4.1 3.4	5.4 4.8	6.9 5.5	8.8 7.2	11.1 9.2	

Horsepower rating is based on 230 Volt and 460 Volt Induction-Type Squirrel Cage NEMA B 4-Pole Motors as represented in NEC Table 430.250 Full-Load Current, Three-Phase Alternating-Current Motors.

\* 3.3 for single-phase amps.

# J1000 Specifications

## Overload Capacity

150% Overload for 60 sec. (Heavy Duty)  
120% Overload for 60 sec. (Normal Duty)

## Output Frequency

0~400 Hz

## Control Methods

Open Loop V/f Control  
Speed Range: 40:1

## Protective Design

IP20/Protected Chassis

## Braking Transistor

Standard in all models

## Braking Torque

20 - 40% increase with intelligent high flux braking function

## KEB Function

Uses mechanical energy to continue operation during momentary power failure, standard

## Overvoltage Function

Prevention function for food and beverage machine 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

## Available I/O

(5) multi-function digital inputs  
(1) multi-function analog input  
(1) multi-function relay output  
(1) multi-function 0-10 Vdc analog output  
(1) speed potentiometer (optional)

## Network Communication

Optional: RS-232C, RS-422/485 MODBUS 38.4 kbps

## Keypad Operator

Standard LED 5 digit display

# Major Applications



Conveyor



Food & Beverage



Fan



Pump



Packaging

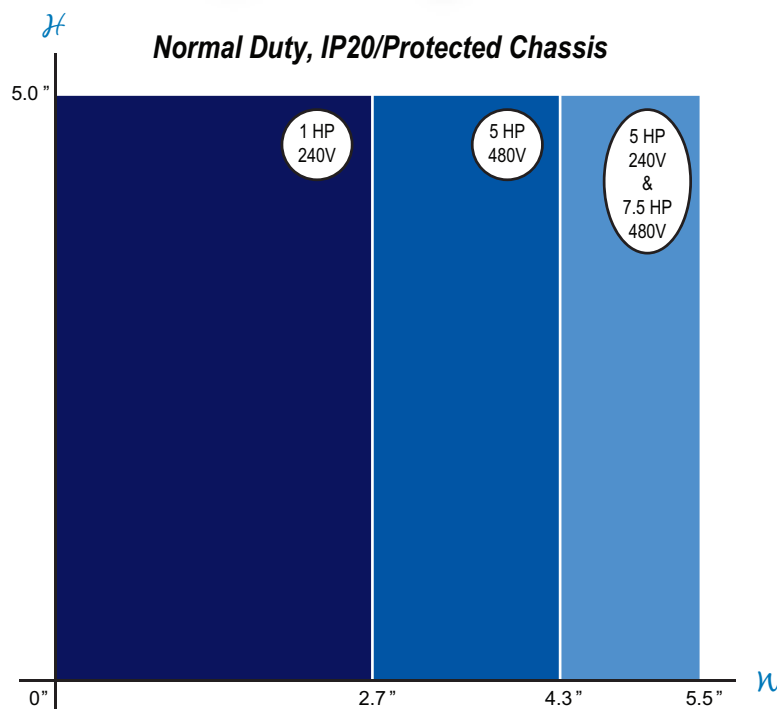


Agricultural  
Machines



Industrial Washer

# Size Comparison



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