

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 1/4	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 1.6	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 1/4	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 1.6	3.3 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.

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

Major Applications



Conveyor



Food & Beverage



Fan



Pump



Packaging



Agricultural
Machines



Industrial Washer

Size Comparison

