

J1000

1/8 to 7.5 HP

Basic Protected Chassis Microdrive



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 microdrive 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.

200-240V Single Phase 50/60 Hz					
Model Number CIMR-JU ☐ BAA	BA0001	BA0002	BA0003	BA0006	BA0010
Motor Capacity ND (HP) HD	1/8 & 1/4 1/8	1/4 1/4	1/2 & 3/4 1/2	1 & 1.5 3/4 & 1	2 & 3 2
Output Current A ND (rms) HD	1.2 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 Number CIMR-JU ☐ BAA	2A0001	2A0002	2A0004	2A0006	2A0010	2A0012	2A0020
Motor Capacity ND (HP) HD	1/8 & 1/4 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 ND (rms) HD	1.2 0.8	1.9 1.6	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 Number CIMR-JU ☐ BAA	4A0001	4A0002	4A0004	4A0005	4A0007	4A0009	4A0011
Motor Capacity ND (HP) HD	1/2 1/2	3/4 & 1 3/4	2 2	3 3	4 3	5 4	7.5 5
Output Current A ND (rms) HD	1.2 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.

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
- Dynamic Braking Resistor (3% or 10%)
- Input Reactor (3% or 5%)

Features

- Open loop V/f control
- RoHS compliance
- Dual rating: Normal Duty and Heavy Duty
- Starting torque of 150% at 3 Hz
- Side-by-side installation due to patented 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
- Pre-maintenance function
- Modbus communication
- Reduction in mechanical parts to increase MTBF
- Cooling fan replacement without tools
- MTBF: 28 years
- Short Circuit Current Rating (SCCR): 30kA rms symmetrical
- Built-in dynamic braking transistor
- Common programming with all other Yaskawa drives

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Specifications

Item	Specification
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

