



The V1000 is a world-class compact current vector drive that defines a new world standard. Demands for efficient production and better maintainability are on the rise, spurred by global competition. Yaskawa drives have earned a reputation for high performance, high functionality, and high quality.

Performance Features

- Ratings:
 - 1/8 to 5 HP at 200-240 VAC 1-Ph.
 - 1/8 to 25 HP (ND) at 200-240 VAC 3-Ph.
 - 1/2 to 25 HP (ND) at 380-480 VAC 3-Ph.
- Overload Capacity:
 - 150% for 60 sec. (Heavy Duty)
 - 120% for 60 sec. (Normal Duty)
- Control Methods: V/f Control, Open Loop Current Vector Control, PM Open Loop Current Vector Control Simple closed loop speed control
- DC injection braking, ramp to stop
- Electronic reversing
- Adjustable accel/decel: 0.01 to 6000 seconds
- Controlled speed range:
 - 40:1⁽¹⁾ 100:1⁽²⁾
- Speed Regulation:
 - ± 0.5 to 1% with slip compensation⁽¹⁾
 - ± 0.2%⁽²⁾
- Displacement power factor: 0.98
- Output frequency: 0 to 400 Hz
- Frequency resolution:
 - 0.01 Hz with digital reference
 - 0.06 / 60 Hz with analog reference
- Frequency accuracy:
 - 0.01% with digital command
 - 0.5% with analog command
- Volts / hertz ratio: infinitely adjustable pattern
- DC Injection braking: adjustable amplitude, duration, current limited
- Torque boost: full range, auto
- Power loss ride-thru: 0.5 sec.
- Speed search
- Auto restart
- 3 Critical frequency rejection settings
- Slip Compensation
- Energy Savings Function
- Enhanced PID with loss of feedback function

⁽¹⁾ V/f Mode

⁽²⁾ Open Loop Current Vector Mode

Design Features

- Dual microprocessor logic
- Digital keypad operator, 5 digits
- LED status display
- Remote Mount Keypad Capability
- RJ-45 Style Digital Operator Connector
- 7 multifunction digital inputs
- 3 multifunction digital outputs
- Hardwire baseblock (EN954-1 Cat. 3)
- Programmable form C output contact for customer use: 1A at 250 VAC or 30 VDC
- 24 VDC control logic compatible with sourcing or sinking outputs (PNP or NPN)
- Carrier frequency: 15 kHz max; swing PWM
- 16 multi-speed settings plus jog speed
- 2 Remote speed references:
 - 0-10 VDC (20 kohms) or isolated 4-20 mA (250 ohms)
- Signal follower: bias and gain
- 2 programmable open collector outputs
- Analog monitor output:
 - 0-10 VDC proportional to output frequency or output current
- Approx. 400 parameters and monitors
- Digital pulse train input (33 kHz max.)
- Cooling fan controlled by drive run/stop
- RS-422/485 Modbus 115 kbps
- UL recognized electronic overload
- MTBF: 28 years
- Built-in Dynamic Braking Transistor
- NEMA 1 enclosure
- Side-by-Side mounting
- Application presets
- Maintenance monitors

Protective Features

- Current limit, stall prevention during accel, decel, and run
- Motor and drive overload
- Over voltage prevention function
- Instantaneous over current
- Short circuit
- Under voltage
- Heatsink overheat
- Ground fault protection
- Over/under torque
- Short circuit current rating: 30kA rms sym.

Service Conditions

- Ambient service temperature:
 - 10° to 40°C (+14° to 104°F) NEMA 1
 - 10° to 50°C (+14° to 122°F) Open Chassis
- Ambient storage temperature:
 - 20° to 60°C (-4° to 140°F)
- Humidity: to 95% non-condensing
- Altitude: to 3300 ft; higher by derating
- Service factor: 1.0
- Input voltage: -15% to +10%
 - 200 to 240 VAC, 380 to 480 VAC
- Input frequency: +/-5%; 50/60 Hz
- Input phase sequence insensitive

Options

- Dynamic Braking resistor (external)
- Multi-lingual, full-text remote LCD w/ copy
- Profibus-DP, DeviceNet Communications
- Modbus TCP/IP, EtherNet/IP Communications
- MECHATROLINK-II communications
- DriveWizard Plus
- CASE software
- DIN rail mounting kit
- USB Copy Unit (Y-Stick)
- Reactors, 3% and 5%
- EMC filters, C1 and C3
- Adapter plates
- External heatsink kits
- 24V control power unit
- Remote LED operator
- Remote LCD operator
- 120V interface

Standards

- UL 508C (Power Conversion)
- CSA 22.2 No. 14-95 (Industrial Control Equipment)
- UL, cUL listed; CE marked
- RoHS compliant
- EN 50178 (LVD)
- EN 50081-2, EN 50082-2 (EMC)
- EN 954-1, Category 3 Safety Standard
- EN 61800-3
- IEC 529, 146
- FCC CFR 47 Part 15 Subpart B (w/ External Filter)
- TUV

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Rated Input Voltage	Drive Model Number CIMR-VU ⁽³⁾	Normal Duty ⁽¹⁾		Heavy Duty ⁽¹⁾	
		Rated Output Current (Amps)	Nominal HP ⁽²⁾	Rated Output Current (Amps)	Nominal HP ⁽²⁾
200-240V 1-Phase	BA0001FAA	1.2	1/8 & 1/4	0.8	1/8
	BA0002FAA	1.9	1/4	1.6	1/4
	BA0003FAA	3.3	1/2 & 3/4	3.0	1/2
	BA0006FAA	6.0	1	5.0	3/4 & 1
	BA0010FAA	9.6	2 & 3	8.0	2
	BA0012FAA	12.0	3	11.0	3
200-240V 3-Phase	BA0018FAA	17.5	5	17.5	5
	2A0001FAA	1.2	1/8 & 1/4	0.8	1/8
	2A0002FAA	1.9	1/4	1.6	1/4
	2A0004FAA	3.5	1/2 & 3/4	3.0	1/2
	2A0006FAA	6.0	1	5.0	3/4 & 1
	2A0010FAA	9.6	2 & 3	8.0	2
	2A0012FAA	12.0	3	11	3
	2A0020FAA	19.6	5	17.5	5
	2A0030FAA	30.0	7.5 & 10	25.0	7.5
	2A0040FAA	40.0	10	33.0	10
380-480V 3-Phase	2A0056FAA	56.0	15 & 20	47.0	15
	2A0069FAA	69.0	25	60.0	20
	4A0001FAA	1.2	1/2	1.2	1/2
	4A0002FAA	2.1	3/4 & 1	1.8	3/4
	4A0004FAA	4.1	2	3.4	1 & 2
	4A0005FAA	5.4	3	4.8	3
	4A0007FAA	6.9	4	5.5	3
	4A0009FAA	8.8	5	7.2	4
	4A0011FAA	11.1	7.5	9.2	5
	4A0018FAA	17.5	10	14.8	7.5 & 10
4A0023FAA	23.0	15	18.0	10	
4A0031FAA	31.0	20	24.0	15	
4A0038FAA	38.0	25	31.0	20	

- (1) Normal Duty overload current rating is 120% of rated output current for 60 seconds; Heavy Duty overload current rating is 150% of rated output current for 60 seconds
- (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) All standard V1000 ratings are typically in stock.

V1000

V1000 Drive Variants

V1000 Finless - Finless (flat heatsink) drives are intended to be installed in a customer's enclosure with an external heatsink. Replace standard "FAA" at end of drive model number with "JAA" (or "LAA").

V1000 Open Chassis - Open chassis drives are intended to be installed in a customer's enclosure and meet IP20 ("BAA") or IP00 ("AAA"). Replace standard "FAA" at end of drive model number with "BAA" (or "AAA").

V1000 w/ C3 Filter - These drives include a built-in C3 filter; see "EMC C3 Filters" on page 29. Replace standard "FAA" at end of drive model number with "EAA."

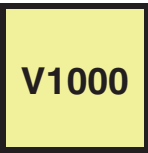
Rated Input Voltage	Normal Duty ⁽¹⁾		Heavy Duty ⁽¹⁾		Finless ^(3, 4)	Open ^(3, 4)	w/ C3 Filter ^(3, 4)
	Rated Output Current (Amps)	Nominal HP ⁽²⁾	Rated Output Current (Amps)	Nominal HP ⁽²⁾	Drive Model Number CIMR-VU	Drive Model Number CIMR-VU	Drive Model Number CIMR-VU
200V, 1-Phase	1.2	1/8 & 1/4	0.8	1/8	BA0001JAA	BA0001BAA	BA0001EAA
	1.9	1/4	1.6	1/4	BA0002JAA	BA0002BAA	BA0002EAA
	3.3	1/2 & 3/4	3.0	1/2	BA0003JAA	BA0003BAA	BA0003EAA
	6.0	1	5.0	3/4 & 1	BA0006JAA	BA0006BAA	BA0006EAA
	9.6	2 & 3	8.0	2	BA0010JAA	BA0010BAA	BA0010EAA
	12.0	3	11.0	3	BA0012JAA	BA0012BAA	BA0012EAA
	17.5	5	17.5	5	Consult Factory	BA0018BAA	Consult Factory
200V, 3-Phase	1.2	1/8 & 1/4	0.8	1/8	2A0001JAA	2A0001BAA	Consult Factory
	1.9	1/4	1.6	1/4	2A0002JAA	2A0002BAA	
	3.5	1/2 & 3/4	3.0	1/2	2A0004JAA	2A0004BAA	
	6.0	1	5.0	3/4 & 1	2A0006JAA	2A0006BAA	
	9.6	2 & 3	8.0	2	2A0010JAA	2A0010BAA	
	12.0	3	11.0	3	2A0012JAA	2A0012BAA	
	19.6	5	17.5	5	2A0020JAA	2A0020BAA	
	30.0	7.5 & 10	25.0	7.5	2A0030JAA	2A0030AAA	
	40.0	10	33.0	10	2A0040JAA	2A0040AAA	
	56.0	20	47.0	15	2A0056JAA	2A0056AAA	
69.0	25	60.0	20	2A0069LAA	2A0069AAA		
400V, 3-Phase	1.2	1/2	1.2	1/2	4A0001JAA	4A0001BAA	4A0001EAA
	2.1	3/4 & 1	1.8	3/4	4A0002JAA	4A0002BAA	4A0002EAA
	4.1	2	3.4	1 & 2	4A0004JAA	4A0004BAA	4A0004EAA
	5.4	3	4.8	3	4A0005JAA	4A0005BAA	4A0005EAA
	6.9	4	5.5	3	4A0007JAA	4A0007BAA	4A0007EAA
	8.8	5	7.2	4	4A0009JAA	4A0009BAA	4A0009EAA
	11.1	7.5	9.2	5	4A0011JAA	4A0011BAA	4A0011EAA
	18.0	10	15.0	7.5 & 10	4A0018JAA	4A0018AAA	Consult Factory
	23.0	15	18.0	10	4A0023JAA	4A0023AAA	
	31.0	20	25.8	15	4A0031JAA	4A0031AAA	
38.0	25	31.7	20	4A0038JAA	4A0038AAA		

(1) Normal Duty overload current rating is 120% of rated output current for 60 seconds; Heavy Duty overload current rating is 150% of rated output current for 60 seconds

(2) Horsepower rating is based on standard NEMA B 4-pole motor design and NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors

(3) All variant drives have a 16-week lead time unless a forecast is provided

(4) Consult factory to ensure any desired options are compatible with variant drives



V1000 Conformal Coat - These drives include circuit boards that have been conformally coated with Humiseal™ for humidity and dust resistance. Note that this variant is only available in open chassis at this time. Replace standard “FAA” at end of drive model number with “BMA” (or “AMA”).

V1000 Shakeproof - These drives include components that have been strengthened for increased vibration resistance. Note that this variant is only available in finless version at this time. Replace standard “FAA” at end of drive model number with “JSA.”

V1000 w/ 1167 Hz Software - These drives include custom software that allows output frequencies up to 1167 Hz. Delete “CIMR-” prefix and add “-134” at end of drive model number.

Rated Input Voltage	Normal Duty ⁽¹⁾		Heavy Duty ⁽¹⁾		Conformal Coat ^(3, 4)	Shakeproof ^(3, 4)	1167 Hz ^(3, 4)
	Rated Output Current (Amps)	Nominal HP ⁽²⁾	Rated Output Current (Amps)	Nominal HP ⁽²⁾	Drive Model Number CIMR-VU	Drive Model Number CIMR-VU	Drive Model Number VU
200V, 1-Phase	1.2	1/8 & 1/4	0.8	1/8	Consult Factory	Consult Factory	BA0001FAA-134
	1.9	1/4	1.6	1/4			BA0002FAA-134
	3.3	1/2 & 3/4	3.0	1/2			BA0003FAA-134
	6.0	1	5.0	3/4 & 1		BA0006FAA-134	
	9.6	2 & 3	8.0	2		BA00100JSA	BA0010FAA-134
	12.0	3	11.0	3		Consult Factory	BA0012FAA-134
	17.5	5	17.5	5			BA0018FAA-134
200V, 3-Phase	1.2	1/8 & 1/4	0.8	1/8	Consult Factory	Consult Factory	2A0001FAA-134
	1.9	1/4	1.6	1/4	2A0002BMA		2A0002FAA-134
	3.5	1/2 & 3/4	3.0	1/2	2A0004BMA		2A0004FAA-134
	6.0	1	5.0	3/4 & 1	2A0006BMA	2A0006JSA	2A0006FAA-134
	9.6	2 & 3	8.0	2	2A0010BMA	2A0010JSA	2A0010FAA-134
	12.0	3	11.0	3	2A0012BMA	2A0012JSA	2A0012FAA-134
	19.6	5	17.5	5	2A0020BMA	2A0020JSA	2A0020FAA-134
	30.0	7.5 & 10	25.0	7.5	2A0030BMA	2A0030JSA	2A0030FAA-134
	40.0	10	33.0	10	2A0040BMA	Consult Factory	2A0040FAA-134
	56.0	20	47.0	15	Consult Factory		2A0056FAA-134
69.0	25	60.0	20	2A0069FAA-134			
400V, 3-Phase	1.2	1/2	1.2	1/2	Consult Factory	Consult Factory	4A0001FAA-134
	2.1	3/4 & 1	1.8	3/4	4A0002BMA		4A0002FAA-134
	4.1	2	3.4	1 & 2	4A0004BMA	4A0004JSA	4A0004FAA-134
	5.4	3	4.8	3	4A0005BMA	4A0005JSA	4A0005FAA-134
	6.9	4	5.5	3	4A0007BMA	4A0007JSA	4A0007FAA-134
	8.8	5	7.2	4	4A0009BMA	4A0009JSA	4A0009FAA-134
	11.1	7.5	9.2	5	4A0011BMA	4A0011JSA	4A0011FAA-134
	18.0	10	15.0	7.5 & 10	4A0018AMA	Consult Factory	4A0018FAA-134
	23.0	15	18.0	10	4A0023AMA		4A0023FAA-134
	31.0	20	25.8	15	Consult Factory		4A0031FAA-134
38.0	25	31.7	20	4A0038FAA-134			

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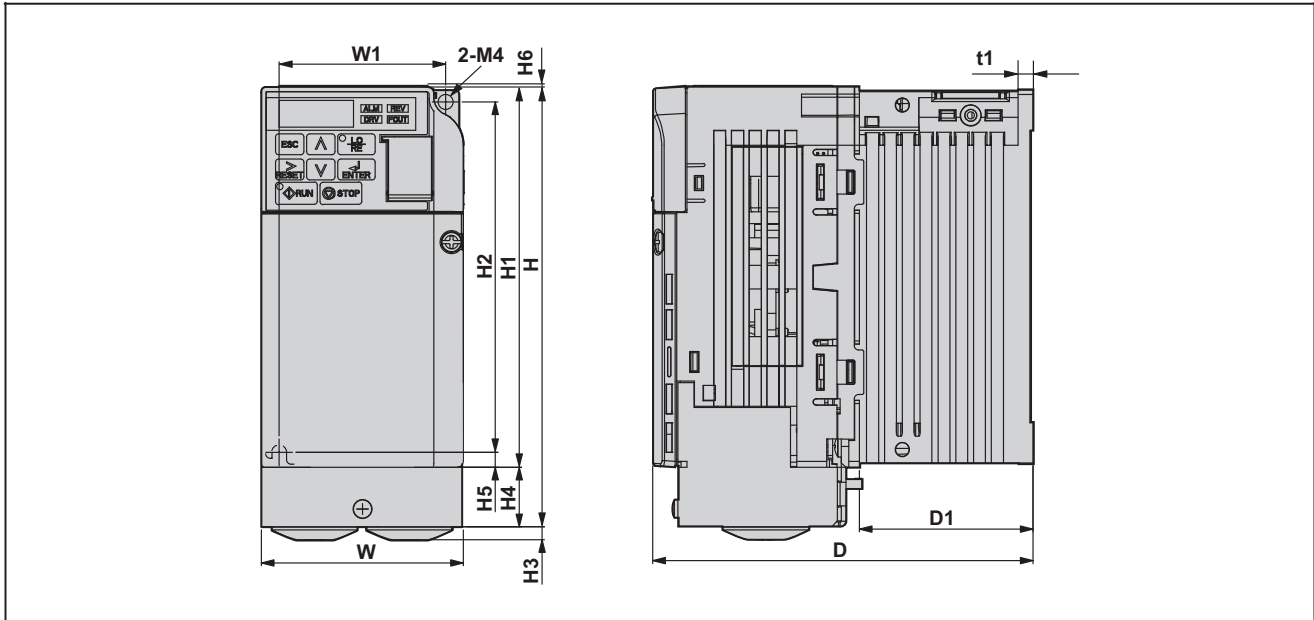
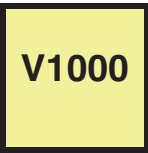
Dimensions and Data

Rated Input Voltage	Drive Model Number CIMR-VU	Normal Duty		Heavy Duty		Physical Dimensions (in.)			Mounting Dimensions		Weight (lbs.) ⁽¹⁾	Drawing Number DD.V1K.FR_
		Rated Output Current (Amps)	Nominal HP	Rated Output Current (Amps)	Nominal HP	H	W	D	H1	W1		
200-240V 1-Phase	BA0001__A	1.2	1/8 & 1/4	0.8	1/8	5.89	2.68	2.99	5.10	2.20	1.8	1
	BA0002__A	1.9	1/4	1.6	1/4	5.89	2.68	2.99	5.10	2.20	1.8	1
	BA0003__A	3.3	1/2 & 3/4	3.0	1/2	5.89	2.68	4.65	5.10	2.20	2.6	3
	BA0006__A	6.0	1	5.0	3/4 & 1	5.89	4.25	5.41	5.10	3.78	4.2	8
	BA0010__A	9.6	2 & 3	8.0	2	5.89	4.25	6.06	5.10	3.78	4.4	10
	BA0012__A	12.0	3	11.0	3	6.02	5.51	6.42	5.24	5.04	5.7	12
BA0018__A	17.5	5	17.5	5	6.02	6.69	7.09	5.24	6.22	6.6	13	
200-240V 3-Phase	2A0001__A	1.2	1/8 & 1/4	0.8	1/8	5.89	2.68	2.99	5.10	2.20	1.8	1
	2A0002__A	1.9	1/4	1.6	1/4	5.89	2.68	2.99	5.10	2.20	1.8	1
	2A0004__A	3.5	1/2 & 3/4	3	1/2	5.89	2.68	4.25	5.10	2.20	2.4	2
	2A0006__A	6.0	1	5	3/4 & 1	5.89	2.68	5.04	5.10	2.20	2.9	4
	2A0010__A	9.6	2 & 3	8	2	5.89	4.25	5.08	5.10	3.78	4.2	7
	2A0012__A	12.0	3	11	3	5.89	4.25	5.41	5.10	3.78	4.2	8
	2A0020__A	19.6	5	17.5	5	6.02	5.51	5.63	5.24	5.04	5.7	11
	2A0030__A	30.0	7.5 & 10	25.0	7.5	10.00	5.51	5.51	9.76	4.80	8.4	14
	2A0040__A	40.0	10	33.0	10	10.00	5.51	5.51	9.76	4.80	8.4	14
	2A0056__A	56.0	20	47.0	15	11.42	7.09	6.42	11.18	6.30	12.1	16
2A0069__A	69.0	25	57.5	20	14.09	8.66	7.36	13.23	7.56	20.2	17	
380-480V 3-Phase	4A0001__A	1.2	1/2	1.2	1/2	5.89	4.25	3.19	5.10	3.78	2.6	5
	4A0002__A	2.1	3/4 & 1	1.8	3/4	5.89	4.25	3.90	5.10	3.78	3.1	6
	4A0004__A	4.1	2	3.4	1 & 2	5.89	4.25	5.41	5.10	3.78	3.5	8
	4A0005__A	5.4	3	4.8	3	5.89	4.25	6.06	5.10	3.78	4.2	9
	4A0007__A	6.9	4	5.5	3	5.89	4.25	6.06	5.10	3.78	4.2	9
	4A0009__A	8.8	5	7.2	4	5.89	4.25	6.06	5.10	3.78	4.2	9
	4A0011__A	11.1	7.5	9.2	5	6.02	5.51	5.63	5.24	5.04	5.7	11
	4A0018__A	18.0	10	15.0	7.5 & 10	10.00	5.51	5.51	9.21	4.80	8.4	14
4A0023__A	24.0	15	19.2	10	10.00	5.51	5.51	9.21	4.80	8.4	14	
4A0031__A	31.0	20	25.8	15	11.42	7.09	5.63	10.63	6.30	11.4	15	
4A0038__A	38.0	25	31.7	20	11.42	7.09	6.42	10.63	6.30	12.1	16	

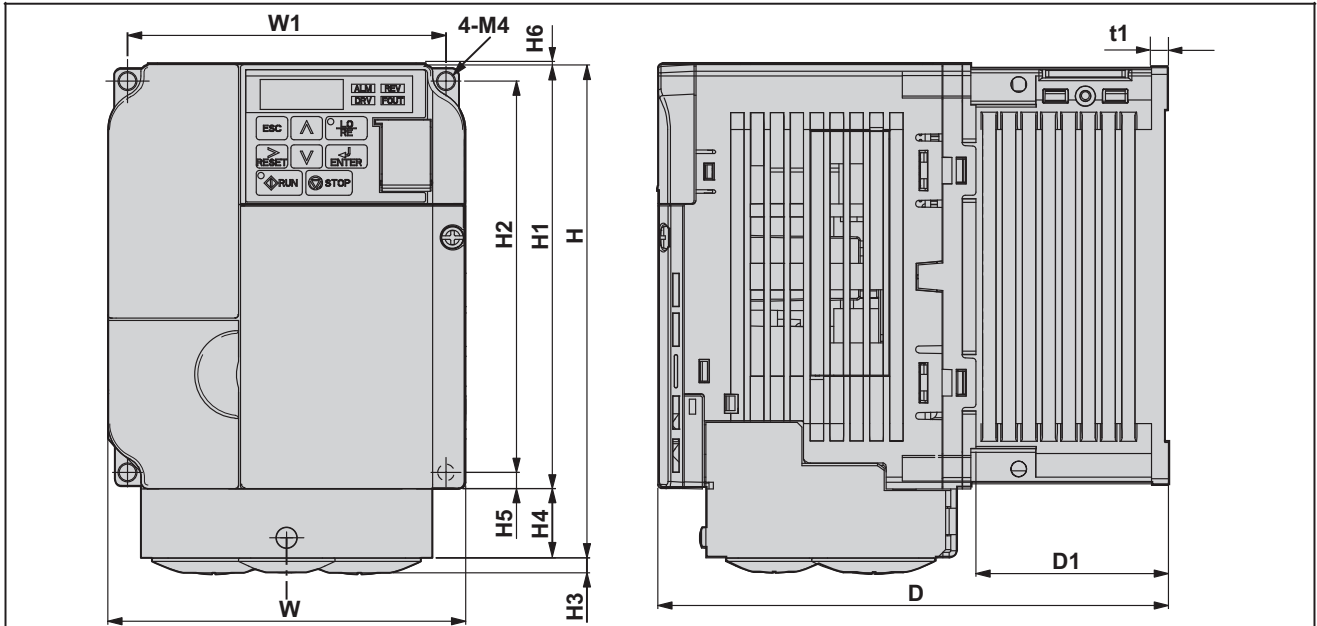
(1) This data represents the drive weight only, not shipping weight.

Dimension Drawing

DD.V1000.01
V1000 NEMA 1



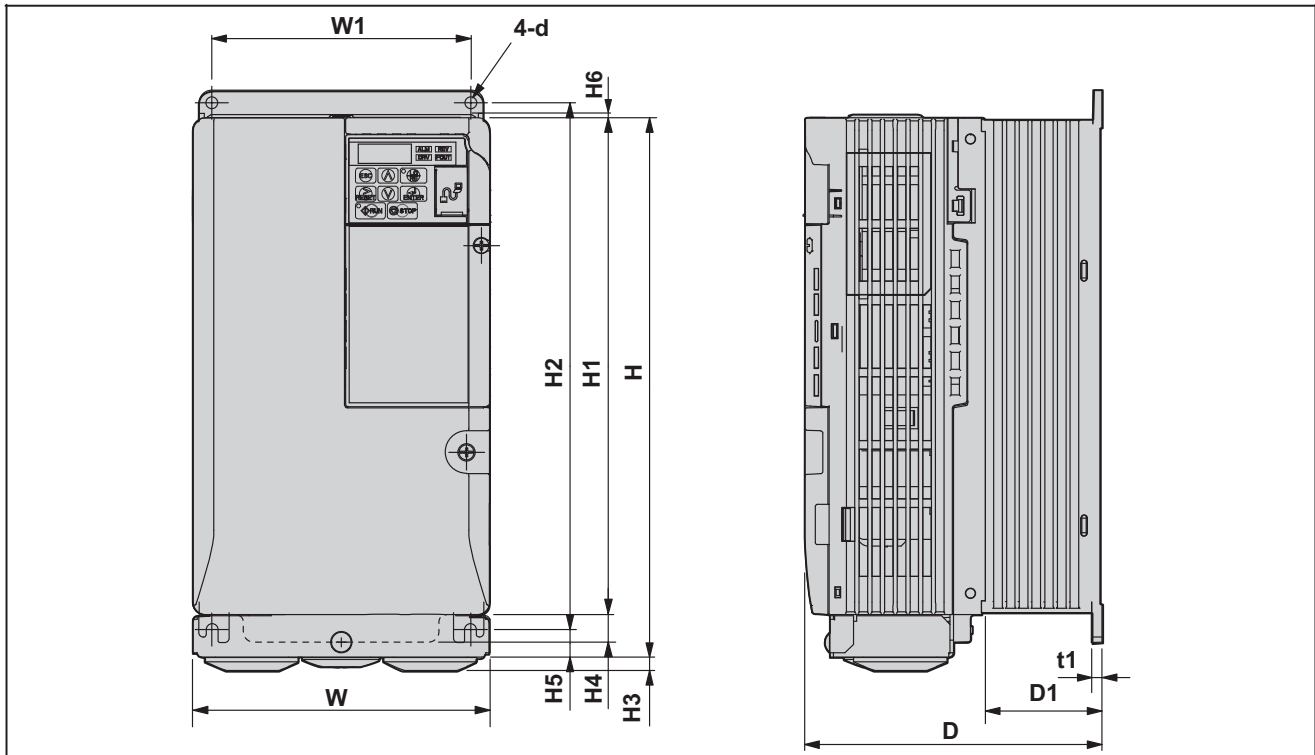
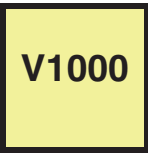
Voltage Class	Drive Model CIMR-VU	Dimensions (in)												
		W1	H2	W	H1	D	t1	H5	D1	H	H4	H3	H6	Weight (lb.)
Single-Phase 200 V Class	BA0001F	2.20	4.65	2.68	5.03	2.99	0.12	0.20	0.26	5.89	0.79	0.16	0.06	1.8
	BA0002F	2.20	4.65	2.68	5.03	2.99	0.12	0.20	0.26	5.89	0.79	0.16	0.06	1.8
	BA0003F	2.20	4.65	2.68	5.03	4.65	0.20	0.20	1.54	5.89	0.79	0.16	0.06	2.6
Three-Phase 200 V Class	2A0001F	2.20	4.65	2.68	5.03	2.99	0.12	0.20	0.26	5.89	0.79	0.16	0.06	1.8
	2A0002F	2.20	4.65	2.68	5.03	2.99	0.12	0.20	0.26	5.89	0.79	0.16	0.06	1.8
	2A0004F	2.20	4.65	2.68	5.03	4.25	0.20	0.20	1.54	5.89	0.79	0.16	0.06	2.4
	2A0006F	2.20	4.65	2.68	5.03	5.04	0.20	0.20	2.32	5.89	0.79	0.16	0.06	2.9



Voltage Class	Drive Model CIMR-VU	Dimensions (in)												Weight (lb.)
		W1	H2	W	H1	D	t1	H5	D1	H	H4	H3	H6	
Single-Phase 200 V Class	BA0006F	3.78	4.65	4.25	5.03	5.41	0.20	0.20	2.28	5.89	0.79	0.16	0.06	4.2
	BA0010F	3.78	4.65	4.25	5.03	6.06	0.20	0.20	2.28	5.89	0.79	0.16	0.06	4.4
	BA0012F	5.04	4.65	5.51	5.03	6.42	0.20	0.20	2.56	6.02	0.79	0.19	0.20	5.7
	BA0018F	6.22	4.64	6.69	5.23	7.08	0.20	0.20	2.56	6.73	1.50	0.19	0.20	7.3
Three-Phase 200 V Class	2A0010F	3.78	4.65	4.25	5.03	5.08	0.20	0.20	2.28	5.89	0.79	0.16	0.06	4.2
	2A0012F	3.78	4.65	4.25	5.03	5.41	0.20	0.20	2.28	5.89	0.79	0.16	0.06	4.2
	2A0020F	5.04	4.65	5.51	5.03	5.63	0.20	0.20	2.56	6.02	0.79	0.19	0.20	5.7
Three-Phase 400 V Class	4A0001F	3.78	4.65	4.25	5.03	3.19	0.20	0.20	0.39	5.89	0.79	0.16	0.06	2.6
	4A0002F	3.78	4.65	4.25	5.03	3.90	0.20	0.20	1.10	5.89	0.79	0.16	0.06	3.1
	4A0004F	3.78	4.65	4.25	5.03	5.41	0.20	0.20	2.28	5.89	0.79	0.16	0.06	4.2
	4A0005F	3.78	4.65	4.25	5.03	6.06	0.20	0.20	2.28	5.89	0.79	0.16	0.06	4.2
	4A0007F	3.78	4.65	4.25	5.03	6.06	0.20	0.20	2.28	5.89	0.79	0.16	0.06	4.2
	4A0009F	3.78	4.65	4.25	5.03	6.06	0.20	0.20	2.28	5.89	0.79	0.16	0.06	4.2
	4A0011F	5.04	4.65	5.51	5.03	5.63	0.20	0.20	2.56	6.02	0.79	0.19	0.20	5.7

Dimension Drawing

DD.V1000.03
V1000 NEMA 1



Voltage Class	Drive Model CIMR-VU	Dimensions (in)													
		W1	H2	W	H1	D	t1	H5	D1	H	H4	H3	H6	d	Weight (lb.)
Three-Phase 200 V Class	2A0030F	4.80	9.76	5.51	9.21	5.51	0.20	0.51	2.17	10.00	0.51	0.24	0.06	M5	8.4
	2A0040F	4.80	9.76	5.51	9.21	5.51	0.20	0.51	2.17	10.00	0.51	0.24	0.06	M5	8.4
	2A0056F	6.30	11.18	7.09	10.63	6.42	0.20	0.51	2.95	11.42	0.59	0.24	0.06	M5	12.1
	2A0069F	7.56	13.23	8.66	12.60	7.36	0.20	0.87	3.07	13.78	0.59	0.28	0.06	M5	20.3
Three-Phase 400 V Class	4A0018F	4.80	9.76	5.51	9.21	5.51	0.20	0.51	2.17	10.00	0.51	0.24	0.06	M5	8.4
	4A0023F	4.80	9.76	5.51	9.21	5.51	0.20	0.51	2.17	10.00	0.51	0.24	0.06	M5	8.4
	4A0031F	6.30	11.18	7.09	10.63	5.63	0.20	0.51	2.17	11.42	0.59	0.24	0.06	M5	11.5
	4A0038F	6.30	11.18	7.09	10.63	6.42	0.20	0.51	2.95	11.42	0.51	0.24	0.06	M5	12.1

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Reactor, 3% and 5% Impedance - may be used on either the input or output of a drive to reduce the effect of load or line side transients on the drive. The three-phase reactors are available loose in a separate NEMA 1 enclosure.

Rated Input Voltage	Drive Model Number CIMR-VU	Rated Output Current (Amps)	Nominal HP	3% Enclosed Reactor			5% Enclosed Reactor				
				Part Number 05P00620-	Dimensions (in.)			Part Number 05P00620-	Dimensions (in.)		
					H	L	W		H	L	W
200-240V 1-Phase	BA0001_A	1.2	1/8 & 1/4	0020	8.0	8.0	6.0	0015	8.0	8.0	6.0
	BA0002_A	1.9	1/4					0021			
	BA0003_A	3.3	1/2 & 3/4	0027	8.0	8.0	6.0	0021	8.0	8.0	6.0
	BA0006_A	6.0	1					0028			
	BA0010_A	9.6	2 & 3	0032	8.0	8.0	6.0	0028	8.0	8.0	6.0
	BA0012_A	12.0	3					0033			
BA0018_A	17.5	5	0036	8.0	8.0	6.0	0037	8.0	8.0	6.0	
200-240V 3-Phase	2A0001_A	1.2	1/8 & 1/4	0020	8.0	8.0	6.0	0015	8.0	8.0	6.0
	2A0002_A	1.9	1/4					0021			
	2A0004_A	3.5	1/2 & 3/4	0027	8.0	8.0	6.0	0021	8.0	8.0	6.0
	2A0006_A	6.0	1					0028			
	2A0010_A	9.6	2 & 3	0032	8.0	8.0	6.0	0028	8.0	8.0	6.0
	2A0012_A	12.0	3					0033			
	2A0020_A	19.6	5	0036	8.0	8.0	6.0	0037	8.0	8.0	6.0
	2A0030_A	30.0	7.5 & 10	0046	13.0	13.0	13.0	0042	13.0	13.0	13.0
	2A0040_A	40.0	10					0047			
	2A0056_A	56.0	20	0058	13.0	13.0	13.0	0055	13.0	13.0	13.0
2A0069_A	69.0	25	0059								
380-480V 3-Phase	4A0001_A	1.2	1/2	0015	8.0	8.0	6.0	0016	8.0	8.0	6.0
	4A0002_A	2.1	3/4 & 1					0016			
	4A0004_A	4.1	2	0028	8.0	8.0	6.0	0023	8.0	8.0	6.0
	4A0005_A	5.4	3					0029			
	4A0007_A	6.9	4	0037	8.0	8.0	6.0	0034	8.0	8.0	6.0
	4A0009_A	8.8	5					0038			
	4A0011_A	11.1	7.5	0042	13.0	13.0	13.0	0043	13.0	13.0	13.0
	4A0018_A	17.5	10					0043			
	4A0023_A	23.0	15	0047	13.0	13.0	13.0	0048	13.0	13.0	13.0
4A0031_A	31.0	20	0048								
4A0038_A	38.0	25	0051	13.0	13.0	13.0	0052	13.0	13.0	13.0	



Options

V1000 Drive

EMC C1 Filters - may be used on the input of the drive to attenuate possible drive-generated noise. Filters should always be mounted as close to the drive as possible; these are designed such that the drive can be mounted to it, pancake-style. The drive should be installed with the EMC filters listed below in order to comply with the EN 61800-3, category C1 requirements. These C1 filters meet the requirements for CE. Note: EMC filters for models CIMR-VU2A0030 through 0069 are in compliance with EN 61800-3, Category 2. All other models comply with Category 1.

Rated Input Voltage	Drive Model Number CIMR-VU	Rated Output Current (Amps)	Nominal HP	C1 Filter					
				Part Number	Rated Current (A)	Dimensions (in.)			Weight (lbs)
						H	W	D	
200-240V 1-Phase	BA0001__A	1.2	1/8 & 1/4	FS23638-10-07	10	6.65	2.80	1.77	0.97
	BA0002__A	1.9	1/4						
	BA0003__A	3.3	1/2 & 3/4	FS23638-20-07	20	6.65	4.37	1.97	1.76
	BA0006__A	6.0	1						
	BA0010__A	9.6	2 & 3						
	BA0012__A	12.0	3						
BA0018__A	17.5	5	FS23638-30-07	30	6.85	5.67	1.97	2.64	
200-240V 3-Phase	2A0001__A	1.2	1/8 & 1/4	FS23637-8-07	8	6.65	2.80	1.57	0.88
	2A0002__A	1.9	1/4						
	2A0004__A	3.5	1/2 & 3/4						
	2A0006__A	6.0	1	FS23637-14-07	14	6.65	4.37	1.77	1.28
	2A0010__A	9.6	2 & 3						
	2A0012__A	12.0	3						
	2A0020__A	19.6	5						
	2A0030__A	30.0	7.5 & 10						
	2A0040__A	40.0	10						
	2A0056__A	56.0	20	FS23637-24-07	24	6.85	5.67	1.97	1.98
2A0069__A	69.0	25	FS23637-52-07	52	11.97	5.39	2.20	4.41	
380-480V 3-Phase	4A0001__A	1.2	1/2	FS23639-5-07	5	6.65	4.37	1.77	1.10
	4A0002__A	2.1	3/4 & 1						
	4A0004__A	4.1	2						
	4A0005__A	5.4	3	FS23639-10-07	10	6.65	4.37	1.77	1.54
	4A0007__A	6.9	4						
	4A0009__A	8.8	5						
	4A0011__A	11.1	7.5						
	4A0018__A	17.5	10						
	4A0023__A	23.0	15						
4A0031__A	31.0	20	FS23639-15-07	15	6.85	5.67	1.97	1.98	
4A0038__A	38.0	25	FS23639-30-07	30	11.97	5.39	2.20	3.97	
				FS23639-50-07	50	13.39	6.89	2.56	5.95

EMC C3 Filters (Conducted Interference Voltage Limits) - may be used on the input of a drive to attenuate possible drive-generated noise. An input filter with proper shielding, routing and grounding between itself and the drive is designed to reduce line-conducted noise levels within the limits of EN61800-3 Category C3, $I \leq 100A$ (second environment for industrial low-voltage supply network), when the drive's output conductors are properly routed and shielded in grounded steel conduit all the way to the motor. The filters in combination with the drive meet UL and CE.

Rated Input Voltage	Drive Model Number CIMR-VU	Rated Output Current (Amps)	Nominal HP	C3 Filter Kit	
				Part Number	Rated Current (A)
200-240V 1-Phase	BA0001__A	1.2	1/8 & 1/4	FS22800-5-B	5
	BA0002__A	1.9	1/4		
	BA0003__A	3.3	1/2 & 3/4		
	BA0006__A	6.0	1		
	BA0010__A	9.6	2 & 3		
	BA0012__A	12.0	3	FS22800-33-B	33
	BA0018__A	17.5	5	Consult Factory	Consult Factory
200-240V 3-Phase	2A0001__A	1.2	1/8 & 1/4	Consult Factory	Consult Factory
	2A0002__A	1.9	1/4		
	2A0004__A	3.5	1/2 & 3/4		
	2A0006__A	6.0	1		
	2A0010__A	9.6	2 & 3		
	2A0012__A	12.0	3		
	2A0020__A	19.6	5		
	2A0030__A	30.0	7.5 & 10		
	2A0040__A	40.0	10		
	2A0056__A	56.0	20		
2A0069__A	69.0	25			
380-480V 3-Phase	4A0001__A	1.2	1/2	FS22801-3-B	3
	4A0002__A	2.1	3/4 & 1		
	4A0004__A	4.1	2	FS22801-6-B	6
	4A0005__A	5.4	3	FS22801-12-B	12
	4A0007__A	6.9	4	FS22801-12-B	12
	4A0009__A	8.8	5		
	4A0011__A	11.1	7.5	FS22801-16-B	16
	4A0018__A	17.5	10	FS22801-24-B	24
4A0023__A	23.0	15			
4A0031__A	31.0	20	FS22801-44-B	44	
4A0038__A	38.0	25			

Note: Kit contains filter, cover, and mounting hardware.



Options

V1000 Drive

Dynamic Braking Resistor, 3% Duty Cycle - are rated for 3% duty cycle over a 100-second interval. Approximate braking torque for each rating is listed. These resistors are designed for separate panel mounting.

Rated Input Voltage	Drive Model Number CIMR-VU	Normal Duty		Heavy Duty		3% DB Resistor					Dimensions (in.)		
		Rated Output Current (Amps)	Nominal HP	Rated Output Current (Amps)	Nominal HP	Part Number	Qty Reqd	Resistance (Ohms) (Each)	Power (Watts) (Each)	Approx. Braking Torque (%)	H	W	D
200-240V 1-Phase	BA0001__A	1.2	1/8 & 1/4	0.8	1/8	R7507	1	400	150	125	7.16	1.73	0.51
	BA0002__A	1.9	1/4	1.6	1/4	R7507	1	400	150	125	7.16	1.73	0.51
	BA0003__A	3.5	1/2 & 3/4	3.0	1/2	R7505	1	200	150	230	7.16	1.73	0.51
	BA0006__A	6.0	1	5.0	3/4 & 1	R7505	1	200	150	230	7.16	1.73	0.51
	BA0010__A	9.6	2 & 3	8.0	2	R7504	1	100	150	125	7.16	1.73	0.51
	BA0012__A	12.0	3	11.0	3	R7503	1	70	150	120	7.16	1.73	0.51
200-240V 3-Phase	BA0018__A	17.5	5	17.5	5	R7510	1	62	150	100	7.16	1.73	0.51
	2A0001__A	1.2	1/8 & 1/4	0.8	1/8	R7507	1	400	150	125	7.16	1.73	0.51
	2A0002__A	1.9	1/4	1.6	1/4	R7507	1	400	150	125	7.16	1.73	0.51
	2A0004__A	3.5	1/2 & 3/4	3.0	1/2	R7505	1	200	150	230	7.16	1.73	0.51
	2A0006__A	6.0	1	5.0	3/4 & 1	R7505	1	200	150	230	7.16	1.73	0.51
	2A0010__A	9.6	2 & 3	8.0	2	R7504	1	100	150	125	7.16	1.73	0.51
	2A0012__A	12.0	3	11.0	3	R7503	1	70	150	120	7.16	1.73	0.51
	2A0020__A	19.6	5	17.5	5	R7510	1	62	150	100	7.16	1.73	0.51
	2A0030__A	30	7.5 & 10	25.0	7.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2A0040__A	40	10	33.0	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
380-480V 3-Phase	2A0056__A	56	20	47.0	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2A0069__A	69	25	60.0	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4A0001__A	1.2	1/2	1.2	1/2	R7508	1	750	150	230	7.16	1.73	0.51
	4A0002__A	2.1	3/4 & 1	1.8	3/4	R7508	1	750	150	230	7.16	1.73	0.51
	4A0004__A	4.1	2	3.4	1 & 2	R7508	1	750	150	130	7.16	1.73	0.51
	4A0005__A	5.4	3	4.8	3	R7507	1	400	150	125	7.16	1.73	0.51
	4A0007__A	6.9	4	5.5	3	R7507	2	400	150	125	7.16	1.73	0.51
	4A0009__A	8.8	5	7.2	4	R7507	2	400	150	125	7.16	1.73	0.51
	4A0011__A	11.1	7.5	9.2	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4A0018__A	17.5	10	14.8	7.5 & 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4A0023__A	23.0	15	18.0	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4A0031__A	31.0	20	24.0	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4A0038__A	38.0	25	31.0	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Dynamic Braking Resistor, 10% Duty Cycle - are rated for 10% duty cycle over a 100-second interval. Approximate braking torque for each rating is listed. These resistors are designed in vented NEMA 1 enclosures for separate panel mounting. The built-in braking module supports the 3% and 10% duty cycle resistors listed here and on the previous page. Resistors for applications requiring 50% and 100% duty cycle can be supported; please consult Yaskawa for duty cycles above 10%.

Rated Input Voltage	Drive Model Number CIMR-VU	Normal Duty		Heavy Duty		10% DB Resistor							Minimum Resistance (Ohms)		
		Rated Output Current (Amps)	Nominal HP	Rated Output Current (Amps)	Nominal HP	Part No.	Qty Reqd	Resistance (Ohms) (Each)	Power (Watts) (Each)	Approx. Braking Torque (%)		Dimensions (in.)			
										ND	HD	L		W	H
200-240V 1-Phase	BA0001__A	1.2	1/8 & 1/4	0.8	1/8	USR000032	1	750	600	120	150	12	7	5	300
	BA0002__A	1.9	1/4	1.6	1/4	USR000033	1	400	500	120	150	12	7	5	300
	BA0003__A	3.5	1/2 & 3/4	3.0	1/2	USR000022	1	200	250	120	150	12	5	5	200
	BA0006__A	6.0	1	5.0	3/4 & 1	USR000035	1	150	500	102	150	12	7	5	120
	BA0010__A	9.6	2 & 3	8.0	2	USR000024	1	70	250	107	150	12	5	5	60
	BA0012__A	12.0	3	11.0	3	USR000024	1	70	250	107	107	12	5	5	60
200-240V 3-Phase	BA0018__A	17.5	5	17.5	5	USR000025	1	40	846	111	111	12	7	5	32
	2A0001__A	1.2	1/8 & 1/4	0.8	1/8	USR000032	1	750	600	120	150	12	7	5	300
	2A0002__A	1.9	1/4	1.6	1/4	USR000033	1	400	500	120	150	12	7	5	300
	2A0004__A	3.5	1/2 & 3/4	3.0	1/2	USR000022	1	200	250	120	150	12	5	5	200
	2A0006__A	6.0	1	5.0	3/4 & 1	USR000035	1	150	500	102	150	12	7	5	120
	2A0010__A	9.6	2 & 3	8.0	2	USR000024	1	70	250	107	150	12	5	5	60
	2A0012__A	12.0	3	11.0	3	USR000024	1	70	250	107	107	12	5	5	60
	2A0020__A	19.6	5	17.5	5	USR000025	1	40	846	111	111	12	7	5	32
	2A0030__A	30	7.5 & 10	25.0	7.5	URS000148	1	18	1301	120	150	12	10	5	16
	2A0040__A	40	10	33.0	10	URS000140	1	13.6	1646	120	150	12	13	5	9.6
2A0056__A	56	20	47.0	15	URS000136	1	10.5	3402	101	135	27	10	5	9.6	
380-480V 3-Phase	2A0069__A	69	25	60.0	20	URS000136	1	10.5	3402	80	101	27	10	5	9.6
	4A0001__A	1.2	1/2	1.2	1/2	USR000032	1	750	600	120	150	12	7	5	750
	4A0002__A	2.1	3/4 & 1	1.8	3/4	USR000032	1	750	600	120	150	12	7	5	750
	4A0004__A	4.1	2	3.4	1 & 2	USR000032	1	750	600	61	61	12	7	5	510
	4A0005__A	5.4	3	4.8	3	USR000034	1	250	500	119	119	12	7	5	240
	4A0007__A	6.9	4	5.5	3	USR000034	1	250	500	119	119	12	7	5	200
	4A0009__A	8.8	5	7.2	4	USR000035	1	150	500	118	150	12	7	5	100
	4A0011__A	11.1	7.5	9.2	5	USR000036	1	100	975	117	150	12	10	5	100
	4A0018__A	17.5	10	14.8	7.5 & 10	USR000038	1	50	1600	120	150	12	13	5	32
	4A0023__A	23.0	15	18.0	10	USR000038	1	50	1600	113	150	12	13	5	32
4A0031__A	31.0	20	24.0	15	USR000039	1	40	2050	106	142	12	16	5	20	
4A0038__A	38.0	25	31.0	20	URS000154	1	27.2	2720	120	150	19	13	5	20	



Options
V1000 Drive

DIN Rail Mounting Kits - The DIN rail attachment kit allows the drive to be mounted on a 35 mm DIN rail. The DIN rail itself is not included in the kit. Option kit for customer mounting.

Rated Input Voltage	Drive Model Number CIMR-VU	Rated Output Current (Amps)	Nominal HP	DIN Rail Kit
				Part Number 72606-EZZ08122
200-240V 1-Phase	BA0001__A	1.2	1/8 & 1/4	A
	BA0002__A	1.9	1/4	
	BA0003__A	3.3	1/2 & 3/4	
	BA0006__A	6.0	1	B
	BA0010__A	9.6	2 & 3	C
	BA0012__A	12.0	3	D
	BA0018__A	17.5	5	D
200-240V 3-Phase	2A0001__A	1.2	1/8 & 1/4	A
	2A0002__A	1.9	1/4	
	2A0004__A	3.5	1/2 & 3/4	
	2A0006__A	6.0	1	
	2A0010__A	9.6	2 & 3	B
	2A0012__A	12.0	3	C
	2A0020__A	19.6	5	C
	2A0030__A	30.0	7.5 & 10	Not Available
	2A0040__A	40.0	10	
	2A0056__A	56.0	20	
2A0069__A	69.0	25		
380-480V 3-Phase	4A0001__A	1.2	1/2	B
	4A0002__A	2.1	3/4 & 1	
	4A0004__A	4.1	2	
	4A0005__A	5.4	3	
	4A0007__A	6.9	4	
	4A0009__A	8.8	5	
	4A0011__A	11.1	7.5	C
	4A0018__A	18.0	10	Not Available
	4A0023__A	23.0	15	
	4A0031__A	31.0	20	
4A0038__A	38.0	25		



Adapter Plate - Conversion kit used to mount a V1000 on the same footprint as a V7 drive. Not available for J1000 drives.

External Heatsink Kit - Allow for V1000 drives to be mounted with the drive's heatsink external to the enclosure. Not available for J1000 drives. Option kit for customer mounting.

Rated Input Voltage	Drive Model Number CIMR-VU	Rated Output Current (Amps)	Nominal HP	External Heatsink Kit	Adapter Kit
				Part Number EZZ020568_	Part Number EZZ020572_
230V, 1-Phase	BA0001__A	1.2	1/8 & 1/4	A	Not Required
	BA0002__A	1.9	1/4		
	BA0003__A	3.3	1/2 & 3/4	B	
	BA0006__A	6.0	1	C	
	BA0010__A	9.6	2 & 3	D	
	BA0012__A	12.0	3	E	
	BA0018__A	17.5	5	F	
230V, 3-Phase	2A0001__A	1.2	1/8 & 1/4	A	Not Required
	2A0002__A	1.9	1/4		
	2A0004__A	3.5	1/2 & 3/4	B	
	2A0006__A	6.0	1	G	
	2A0010__A	9.6	2 & 3	D	
	2A0012__A	12.0	3		
	2A0020__A	19.6	5	E	
	2A0030__A	30.0	7.5 & 10	H	B
	2A0040__A	40.0	10		
	2A0056__A	56.0	20	J	Not Required
	2A0069__A	69.0	25	K	
460V	4A0001__A	1.2	1/2	L	Not Required
	4A0002__A	2.1	3/4 & 1	C	
	4A0004__A	4.1	2		
	4A0005__A	5.4	3		
	4A0007__A	6.9	4	D	A
	4A0009__A	8.8	5		
	4A0011__A	11.1	7.5	E	Not Required
	4A0018__A	18.0	10		
	4A0023__A	23.0	15	H	B
	4A0031__A	31.0	20		
4A0038__A	38.0	25	J	Not Required	



Options

V1000 Drive

24VDC Control Power Unit - This option provides board-level component voltages for the V1000 drive when provided with 24VDC from an external, customer-supplied source. It is used to maintain both drive control power and network communications (when utilized). Both a Control Power Unit and a Bracket Kit are required for proper operation and certification. Option kit for customer mounting.

Rated Input Voltage	Drive Model Number CIMR-VU	Rated Output Current (Amps)	Nominal HP ⁽¹⁾	Control Power Unit	Bracket Kit
				Part Number	Part Number EZZ020639_
200-240V 1-Phase	BA0001__A	1.2	1/8 & 1/4	PS-V10S	A
	BA0002__A	1.9	1/4		
	BA0003__A	3.3	1/2 & 3/4		
	BA0006__A	6.0	1	PS-V10S	B
	BA0010__A	9.6	2 & 3		
	BA0012__A	12.0	3		
BA0018__A	17.5	5			
200-240V 3-Phase	2A0001__A	1.2	1/8 & 1/4	PS-V10S	A
	2A0002__A	1.9	1/4		
	2A0004__A	3.5	1/2 & 3/4		
	2A0006__A	6.0	1	PS-V10S	B
	2A0010__A	9.6	2 & 3		
	2A0012__A	12.0	3		
	2A0020__A	19.6	5		
	2A0030__A	30.0	7.5 & 10	PV-V10M	B
	2A0040__A	40.0	10	PS-V10M	C
	2A0056__A	56.0	20		
2A0069__A	69.0	25			
380-480V 3-Phase	4A0001__A	1.2	1/2	PS-V10S	A
	4A0002__A	2.1	3/4 & 1		
	4A0004__A	4.1	2	PS-V10S	B
	4A0005__A	5.4	3		
	4A0007__A	6.9	4		
	4A0009__A	8.8	5		
	4A0011__A	11.1	7.5	PS-V10M	B
	4A0018__A	18.0	10		
	4A0023__A	23.0	15		
4A0031__A	31.0	20			
4A0038__A	38.0	25			



Operator, LCD Digital Remote, NEMA Type 1. This option allows the drive to be operated from a remote location, and provides a 16-character, 5-line alpha-numeric LCD. This option requires Installation Set A (EZZ020642A) for panel or door mounting and Remote Operator Cable (UWR0051 or UWR0052), each sold separately.

Note: This option requires the V1000 drive to contain 1012 software or later; please consult your Yaskawa representative to ensure proper operation.

Model No. JVOP-180

Operator, LED Digital Remote, NEMA Type 1. This option allows the drive to be operated from a remote location. This option requires Installation Set A (EZZ020642A) for panel or door mounting and Remote Operator Cable (UWR0051 or UWR0052), each sold separately.

Note: This option requires the V1000 drive to contain 1016 software or later; please consult your Yaskawa representative to ensure proper operation.

Model No. JVOP-182

LCD/LED Keypad Installation Set A (Remote Operator Mounting Bracket Kit). This is a bracket to which the LCD Digital Remote Operator (JVOP-180) attaches, and has (4) threaded holes and screws to attach to the cover of an enclosure. The kit contains (2) screws to mount the Operator to the bracket and (4) screws to attach the bracket to the enclosure.

Model No. EZZ020642A

LCD/LED Keypad Installation Set B (Remote Operator Mounting Bracket Kit). Contains a similar bracket that the keypad attaches to and has non-threaded holes for mounting to an enclosure that has the screws attached to the enclosure already. The kit contains (2) screws to mount the keypad to the bracket and (4) nuts to attach the bracket to the customer supplied screws attached to the enclosure.

Model No. EZZ020642B

Operator Cable, Remote. These cables are used to connect the Remote LCD Digital Operator (JVOP-180) or Remote LED Operator (JVOP-182). They are available in one (1) or three (3) meter lengths.

Model No. UWR0051 (1 meter)

Model No. UWR0052 (3 meter)

Operator Kits, NEMA Type 3R/4X. This option is used to extend an LCD or LED Digital Remote Operator to the wall of a separately priced, oversized UL Type 3R, 4, 4X, or 12 enclosure (IPX6 environment). Price includes a faceplate bezel with digital operator brackets and membrane to cover the operator cutout in the enclosure door, a 3-foot cable, a 10-foot cable, and a 1:1 template for cutting the necessary cutouts in the enclosure. Keypad can be removed after kit installation. Designed for use with the LCD Operator JVOP-180 or the LED Operator JVOP-182 sold separately. Connects to RJ45 port and mounts to enclosure wall.

Model No. UUX000526 (Blank Membrane)

Model No. UUX000527 (Yaskawa Logo Membrane)

DriveWizard Plus Software. This optional software package allows upload and download of parameters via PC for data storage and for programming multiple drives. The software also includes graphing and monitoring tools. It is a Windows-based program designed to make startup, commissioning, and troubleshooting of the J1000 as simple as possible. Refer to our website at www.yaskawa.com to download the software, and for more information, including minimum system requirements and cable information to interface a PC to V1000 or J1000 drives.

No Model No.

PC Interface Cable. This 6-foot cable interconnects the drive keypad port to the 9-pin communication port on a PC. This cable is used in conjunction with DriveWizard Plus software.

Model No. UWR00468-2

USB Copy Unit (Y-Stick). This option allows the drive to connect to the USB port on a PC. It can read, copy and verify drive parameter settings from one drive to another like drive. The unit plugs into the RJ-45 port on the front of the digital operator. Refer to our website at www.yaskawa.com to download the software.

Model No. JVOP-181

CopyUnitManager Software for USB Copy Unit (Y-Stick). This option allows the user to transfer and save parameter files from the Copy Unit (JVOP-181), sold separately, to a PC and vice versa. Refer to our website at www.yaskawa.com to download the software.

No Model No.

120 VAC Interface. This option mounts directly to the control terminal block on the drive and allows the use of 120 VAC control logic circuits to produce multi-function control input signals for the drive.

Model No. DI-100

DriveWorksEZ (DWEZ) Standard and Pro. A software system that provides the means to create custom drive functionality in the V1000 using function block programming to distribute control away from a PLC.

DWEZ Standard can be downloaded from www.yaskawa.com with a valid partner login. DWEZ Pro requires attending a factory training class - see below for details.

DriveWorksEZ (DWEZ) Standard. The V1000 provides for 118 basic function blocks and up to 20 block connections. Available via web download only.

Valid www.yaskawa.com Partner Login required

DriveWorksEZ (DWEZ) Pro Certification. A two-day DWEZ-specific training class (TRM020-DriveWorksEZ) must be attended to become certified. This class is intended for those well-versed in V1000 programming. DWEZ Pro provides increased functionality, with 50 connections and 225 function blocks compared to the Standard version.

Model No. CD.DWEZ.03

To enroll in class, call Technical Training Services at 847-887-7228.



Options V1000 Drive

DeviceNet™ With ADR. This option complies with all pertinent aspects of the ODVA (Open DeviceNet Vendor Association) specification and AC drive profile. All parameters, diagnostics and operational commands are accessible via DeviceNet. Automatic Device Replacement (ADR) is supported in this DeviceNet option, including the functions of Auto Baud Rate sensing and Faulted Node Recovery (using Group 4 messaging). Each DeviceNet network supports up to 63 drives. Controllers are available from many PLC and/or PC suppliers. The board mounts integrally in the drive and provides a DeviceNet standard open tap connector. The option is configured using parameters within the drive, which allows for easy configuration eliminating the use of hardware switches. Status LEDs are viewable through the front cover and a monitor has been added to allow for improved diagnostics.

Note: This option requires the V1000 drive to contain 1012 software or later; please consult your Yaskawa representative to ensure proper operation.

Mounts at option connector CN5.

Model No. SI-N3/V

EtherNet/IP. This option complies with the EtherNet/IP protocol specification, and allows for communication over 10/100 Mbps Ethernet networks. This option has the ability to configure the IP Address from a user specified IP address, from a DHCP host, or from a BootP host. The IP address can be set from the drive keypad or from the network. All parameters, diagnostics and operational commands are accessible via EtherNet/IP. The web interface allows management of diagnostic information through a standard web browser. The embedded web pages include the main page, drive status page, network monitor page, and documentation page.

Note: This option requires the V1000 drive to contain 1012 software or later; please consult your Yaskawa representative to ensure proper operation.

Mounts at option connector CN5.

Model No. SI-EN3/V

PROFINET. This option complies to PROFINET I/O device and PROFIDrive profile specifications. It allows connection of a PROFINET network and facilitates the exchange of data via a simple, networking solution that reduces the cost and time to wire and install factory automation devices, while providing interchangeability of like components from multiple vendors. This is a PROFINET Conformance Class A certified interface.

This interface makes it possible to perform the following from a PROFINET master device:

- Operate the drive
- Monitor the operation status of the drive
- Change parameter settings

Note: This option requires the V1000 to contain 1012 software or later; please consult your Yaskawa representative to ensure proper operation.

Mounts at option connector CN5.

Model No. SI-EP3/V

Profibus DP. This option complies with the Profibus DP protocol specification. All parameters, diagnostics and operational commands are accessible via Profibus. The option board provides a 9-pin (F) type D-Sub connector for easily connecting to a standard Profibus style, shielded twisted-pair cable. Each Profibus network supports up to 99 drives. This option supports all of the Profibus data rates from 9.6 Kbps to 12 Mbps. Up to 32 bytes of input data and 32 bytes of output data are provided per message transaction. Sync and Freeze modes are supported for groups. Profibus DP-V1 support (cyclic and acyclic data exchange). Configurable PPO read and write parameters. The option is configured using parameters within the drive, which allows for easy configuration eliminating the use of hardware switches. Status LEDs are viewable through the front cover, and a monitor has been added to allow for improved diagnostics. Option is backwards compatible with the previous generation option cards.

Note: This option requires the V1000 drive to contain 1010 software or later; please consult your Yaskawa representative to ensure proper operation.

Mounts at option connector CN5.

Model No. SI-P3/V

Modbus TCP/IP. This option complies with the Modbus TCP/IP protocol specification. This allows for Modbus communication over 10/100 Mbps Ethernet networks. This option has the ability to configure the IP Address from a user-specified IP address, from a DHCP host, or from a BootP host. All parameters, diagnostics and operational commands are accessible via Modbus TCP/IP. This option supports up to 10 simultaneous PLC/PC connections.

Note: This option requires the V1000 drive to contain 1015 software or later; please consult your Yaskawa representative to ensure proper operation.

Mounts at option connector CN5.

Model No. SI-EM3/V

MECHATROLINK-II. This option is designed for connecting a drive to a field network using the MECHATROLINK protocol. The MECHATROLINK-II option allows the user to operate the drive, monitor the status, and change parameters from a MECHATROLINK master device at a communication speed up to 10 Mbps.

Note: This option requires the V1000 drive to contain 1016 software or later; please consult your Yaskawa representative to ensure proper operation.

Mounts at option connector CN5.

Model No. SI-T3/V