

V1000

Inverter Series



One for all

The V1000 is a general purpose inverter drive covering the demands of a wide field of applications. Simple duties as well as requirements of complex systems need a higher level of functionality, reliability and easy handling, which are provided by the V1000.

Wherever you are -Our support team is always close to you



Easy and costsaving

This powerful little helper sets standards in terms of user friendliness and process orientation. The development of the V1000 focuses on all aspects of application, installation, operation and maintenance.

Functional safety integrated

The V1000 comes with a built in two-channel Safe Torque Off function (STO according to IEC 61800-5-2). By that V1000 replaces motor contactors usually required for safe stop, reducing cost while increasing reliability.

Finless type

YASKAWA has as one of the first manufacturers promoted the development of finless type inverters for the European and international markets. Consequently the V1000 is available as finless version for applications with an external cooling system.

Features

- Functional Safety built in, STO according to ISO 13849-1 Cat 3, PLd and IEC 61508, SIL2
- · Worldwide specification: CE, UL, cUL, RoHS
- Small Design Big Power: 150 % overload in heavy duty service is possible, 120 % overload in normal duty mode allowing a smaller size inverter to do the job of a bigger one
- Standard AC Motor and PM motor control for highly efficient applications
- High flux braking reduces braking time to the half without using braking resistors
- Flexible base: IP20 as standard, Finless for special cooling demands, IP66 without keypad for fieldbus connection and IP66 with large key LED operator for best display readability
- High output frequency optional for spindles and other high speed applications
- V/f and open-loop current vector control
- One of the smallest inverter drives in the world
- Side-by-side mounting
- Icon-based programming
- Designed for 10 years of maintenance-free operation



Easy. Reliable. Quick.



Easy installation

YASKAWA V1000 reduces installation time and costs. Installable in tight spaces it requires a minimum of set-up time and provides you all the comfort of a modern up-to-date inverter drive.

- One of the smallest inverter drives in the world saves mounting space and cost by side-by-side mounting
- · Application parameter pre-settings shorten set-up time
- Same handling and parameter structure for all YASKAWA inverters
- DriveWorksEZ visual programming tool. Simply drag and drop icons to customize your drive. Create special sequences and detection functions, then load them onto the drive.



Reliable operation

The V1000 continues the tradition of YASKAWA by being the reliable link in your production chain.

- Designed for Long Performance Life (10 years 24 h per day at 80% nominal load.)
- · Quick response on load and speed changes improves your machine performance
- Online Auto-Tuning to optimise for improved motor performance at low speed
- Optional external 24 VDC-supply assures communication and data flow in any power-down situation



Quick maintenance

YASKAWA V1000 is an inverter drive which adapts to user demands and provides maintenance functions that ensure quick replacement and minimize down time.

- Removable terminal board with parameter memory for quick and easy maintenance
- Screwless control terminal saves setup time

For a wide range of applications







- Pumps
- Fans and blowers
- Compressors



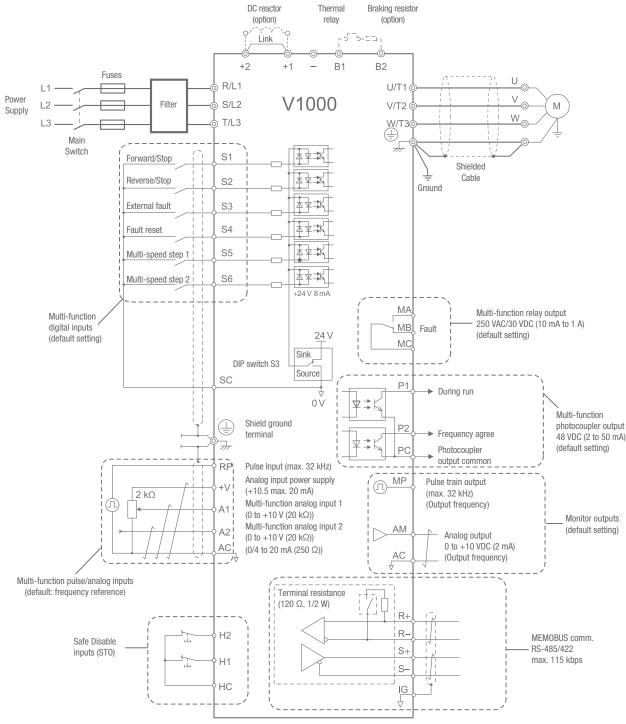




- Conveyor belts
- Transport systems
- and many other applications

Technical information

Connection diagram



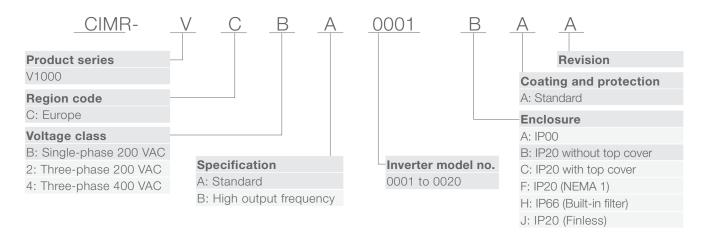
Tuse twisted pair cables

Use shielded twisted pair cables

O Indicates a main circuit terminal

Indicates a control circuit terminal

Model code



Single-phase, 200 VAC

Inverter model CIMR-VCBA*1	0001	0002	0003	0006	0010	0012	0018*6	
Motor output (normal duty) [kW]*2	0.18	0.37	0.75	1.1	2.2	3.0	-	
Motor output (heavy duty) [kW]*2	0.1	0.18	0.55	0.75	1.5	2.2	4.0	
Rated output current (normal duty) [A]*3	1.2	1.9	3.3	6.0	9.6	12.0	-	
Rated output current (heavy duty) [A]	0.8*4	1.6*4	3.0*4	5.0*4	8.0*4	11.0*4	17.5*4	
Overload	125% for 60 sec normal duty, 150% for 60 sec heavy duty from inverter rated output current							
Rated output power (normal duty) [kVA]	0.5	0.7	1.3	2.3	3.7	4.6	-	
Rated output power (heavy duty) [kVA]	0.3	0.6	1.1	1.9	3.0	4.2	6.7	
Max. output voltage		Three	-phase 200 to	240 V (proport	ional to input v	voltage)		
Max. output frequency				400 Hz				
Rated input voltage	Single-phase 200 to 240 V +10%/-15%							
Rated input frequency			į	50/60 Hz +/-5	%			

Three-phase, 200 VAC

Inverter model CIMR-VC2A	0001	0002	0004	0006	0010	0012	0020	0030	0040	0056	0069
Motor output (normal duty) [kW]*2	0.18	0.37	0.75	1.1	2.2	3.0	5.5	7.5	11.0	15.0	18.5
Motor output (heavy duty) [kW]*2	0.1	0.2	0.4	0.75	1.5	2.2	4.0	5.5	7.5	11.0	15.0
Rated output current (normal duty) [A]*3	1.2	1.9	3.5	6.0	9.6	12.0	19.6	30.0	40.0	56.0	69.0
Rated output current (heavy duty) [A]	0.8*4	1.6*4	3.0*4	5.0*4	8.0*4	11.0*4	17.5*4	25.0*4	33.0*4	47.0*4	60.0*4
Overload		120% for 60 sec normal duty, 150% for 60 sec heavy duty from inverter rated output current									
Rated output power (normal duty) [kVA]	0.5	0.7	1.3	2.3	3.7	4.6	7.5	11.4	15.2	21.3	26.3
Rated output power (heavy duty) [kVA]	0.3	0.6	1.1	1.9	3.0	4.2	6.7	9.5	12.6	17.9	22.9
Max. output voltage				Three-	phase 200 to	240 V (propo	rtional to inpu	t voltage)			
Max. output frequency						400 Hz					
Rated input voltage		Single-phase 200 to 240V +10%/-15%									
Rated input frequency		50/60 Hz +/-5%									

Three-phase, 400 VAC

Inverter model CIMR-VC4A	0001	0002	0004	0005	0007	0009	0011	0018	0023	0031	0038		
Motor output (normal duty) [kW]*2	0.37	0.75	1.5	2.2	3.0	4.0	5.5	7.5	11.0	15.0	18.5		
Motor output (heavy duty) [kW]*2	0.18	0.37	0.75	1.5	2.2	3.0	4.0	5.5	7.5	11.0	15.0		
Rated output current (normal duty) [A]*3	1.2	1.9	3.5	6.0	9.6	12.0	19.6	30.0	40.0	56.0	69.0		
Rated output current (heavy duty) [A]*5	1.2	1.8	3.4	4.8	5.5	7.2	9.2	14.8	18.0	24.0	31.0		
Overload		120 % for 60 sec normal duty, 150 % for 60 sec heavy duty from inverter rated output current											
Rated output power (normal duty) [kVA]	0.9	1.6	3.1	4.1	5.3	6.7	8.5	13.3	17.5	23.6	29.0		
Rated output power (heavy duty) [kVA]	0.9	1.4	2.6	3.7	4.2	5.5	7.0	11.3	13.7	18.3	23.6		
Max. output voltage				Three-	phase 380 to	480V (propor	tional to inpu	t voltage)					
Max. output frequency						400 Hz							
Rated input voltage		Three-phase 380 to 480V +10%/-15%											
Rated input frequency					Ę	50/60 Hz +/-5	i%	50/60 Hz +/-5%					

- *1 Drives with a single-phase power supply input have three-phase output. Single-phase motors cannot be used.
 *2 The motor capacity (kW) refers to a YASKAWA 4-pole, 60 Hz, 200 V motor. The rated output current of the drive output amps should be equal to or greater than the motor rated current.
 *3 at 2 kHz carrier frequency without derating
 *4 at 10 kHz carrier frequency without derating
 *5 at 8 kHz carrier frequency without derating
 *6 only leave with variable

- *6 only heavy duty available

Specifications

Control functions	
Control methods	Open loop vector control (Current vector), V/f control, PM open loop vector control (for SPM and IPM motors)
Frequency control range	
Frequency accuracy	Digital input: within ±0.01% of the max. output frequency (-10°C to +50°C)
(Temperature fluctuation)	Analog input: within ±0.1% of the max. output frequency (25 °C ±10 °C)
Frequency setting	Digital input: 0.01 Hz
resolution	Analog input: 1/1000 of max. frequency
Starting torque	200 % / 0.5 Hz (assumes heavy duty rating AC motor of 3.7 kW or less using open loop vector control), 50 % / 6 Hz (assumes PM open loop vector control)
Speed control range	1:100 (Open loop vector control), 1:20 to 40 (V/f control), 1:10 (PM open loop vector control)
Speed control accuracy	±0.2% in open loop vector control (25°C ±10°C)*1
Speed response	5 Hz in open loop vector (25 °C ±10 °C) (requires rotational auto-tuning)
Torque limit	Open loop vector control allows seperate settings in four quadrants
Accel/Decel time	0.0 to 6,000.0 s (4 selectable combinations of independent acceleration and deceleration settings)
Braking torque	 Short-time decel torque*2: over 150 % for 0.1/0.2 kW motors, over 100 for 0.4/0.75 kW motors, over 50 % for 1.5 kW motors, over 20 % for 2.2 kW and above motors (overexcitation braking/high-slip braking: approx. 40 %) Continuous regen. torque: approx. 20 % (approx. 125 % with dynamic braking resistor option*3: 10 % ED, 10 s, internal braking transistor)
V/f characteristics	User-selected programs, V/f preset patterns possible
Main control functions	Momentary power loss ride-thru, Speed search, Overtorque detection, Torque limit, 17-step speed (max), Accel/dectime switch, S-curve accel/decel, 3-wire sequence, Auto-tuning (rotational, stationary tuning for resistance between lines), Dwell, Cooling fan on/off switch, Slip compensation, Torque compensation, Frequency jump, Upper/lower limit for frequency reference, DC injection braking at start and stop, Overexcitation braking, High slip braking, PID control (with sleep function), Energy saving control, MEMOBUS comm. (RS-485/422 max, 115.2 kbps), Fault restart, Application presets, DriveWorksEZ (customized function), Removable terminal block with parameter backup function
Protection functions	
Motor protection	Motor overheat protection based on output current
Momentary overcurrent protection	Drive stops when output current exceeds 200 % of heavy duty rating
Overload protection	Drive stops after 60 s at 150 % of rated output current (heavy duty rating)*4
Overvoltage protection	200 V class: Stops when DC bus exceeds approx. 410 V 400 V class: Stops when DC bus exceeds approx. 820 V
Undervoltage protection	Stops when DC bus voltage falls below the following levels: 190V (3-phase 200V), 160V (single-phase 200V), 380V (3-phase 400V), 350V (3-phase 380V)
Momentary power loss ride-thru	Stops after approx. 15 ms (default). Parameter settings allow the drive to continue running if power loss lasts for u to approx. $2s^{*5}$
Heatsink overheat pro-	Protection by thermistor
	Frotection by thermistor
tection Braking resistance over-	Overheat sensor for braking resistor (optional ERF-type, 3 % ED)
tection Braking resistance over- heat protection	Overheat sensor for braking resistor (optional ERF-type, 3 % ED) Seperate settings allowed during acceleration, and during run. Enable/disable only during deceleration.
tection Braking resistance over- heat protection Stall prevention	Overheat sensor for braking resistor (optional ERF-type, 3 % ED)
tection Braking resistance over- heat protection Stall prevention Ground fault protection	Overheat sensor for braking resistor (optional ERF-type, 3 % ED) Seperate settings allowed during acceleration, and during run. Enable/disable only during deceleration.
tection Braking resistance over- heat protection Stall prevention Ground fault protection Charge LED	Overheat sensor for braking resistor (optional ERF-type, 3 % ED) Seperate settings allowed during acceleration, and during run. Enable/disable only during deceleration. Protection by electronic circuit*6
tection Braking resistance over- heat protection Stall prevention Ground fault protection Charge LED Operating environment	Overheat sensor for braking resistor (optional ERF-type, 3 % ED) Seperate settings allowed during acceleration, and during run. Enable/disable only during deceleration. Protection by electronic circuit*6 Charge LED remains lit until DC bus has fallen below approx. 50 V Indoors
tection Braking resistance over- heat protection Stall prevention Ground fault protection Charge LED Operating environment Area of use	Overheat sensor for braking resistor (optional ERF-type, 3 % ED) Seperate settings allowed during acceleration, and during run. Enable/disable only during deceleration. Protection by electronic circuit*6 Charge LED remains lit until DC bus has fallen below approx. 50 V
tection Braking resistance over- heat protection Stall prevention Ground fault protection Charge LED Operating environment Area of use Ambient temperature	Overheat sensor for braking resistor (optional ERF-type, 3 % ED) Seperate settings allowed during acceleration, and during run. Enable/disable only during deceleration. Protection by electronic circuit*6 Charge LED remains lit until DC bus has fallen below approx. 50 V Indoors
tection Braking resistance over- heat protection Stall prevention Ground fault protection Charge LED Operating environment Area of use Ambient temperature Humidity Storage temperature	Overheat sensor for braking resistor (optional ERF-type, 3 % ED) Seperate settings allowed during acceleration, and during run. Enable/disable only during deceleration. Protection by electronic circuit*6 Charge LED remains lit until DC bus has fallen below approx. 50 V Indoors -10 °C to +50 °C (open chassis), -10 °C to +40 °C (NEMA Type 1) 95 RH% or less (non-condensing) -20 °C to +60 °C
tection Braking resistance over- heat protection Stall prevention Ground fault protection Charge LED Operating environment Area of use Ambient temperature Humidity Storage temperature	Overheat sensor for braking resistor (optional ERF-type, 3 % ED) Seperate settings allowed during acceleration, and during run. Enable/disable only during deceleration. Protection by electronic circuit*6 Charge LED remains lit until DC bus has fallen below approx. 50 V Indoors -10 °C to +50 °C (open chassis), -10 °C to +40 °C (NEMA Type 1) 95 RH% or less (non-condensing)
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^{*1} Speed control accuracy may vary slightly depending on installation conditions or motor used.
*2 Momentary average deceleration torque refers to the deceleration torque from 60Hz down to 0 Hz. This may vary depending on the motor.
*3 If L3-04 is enabled when using a braking resistor or braking resistor unit, the motor may not stop within the specified deceleration time.
*4 Overload protection may be triggered at lower levels if output frequency is below 6 Hz.
*5 Varies by drive capacity. Drives smaller than 7.5 kW require a separate Momentary Power Loss Recovery Unit to continue operating during a momentary power loss of 2s.
*6 Protection may not be provided under the following conditions as the motor windings are grounded internally during run:

Low resistance to ground from the motor cable or terminal block.

Drive already has a short-circuit when the power is turned on.

Options

Name		Purpose	Model		
Input noise filter		Reduces noise from the line that enters into the drive input power system. Should be installed as close as possible to the drive.	1-phase 200 V CIMR-VCBA0001 CIMR-VCBA0002 CIMR-VCBA0003 CIMR-VCBA0010 CIMR-VCBA0010 CIMR-VCBA0012 CIMR-VCBA0018 3-phase 200 V CIMR-VC2A0001 CIMR-VC2A0002 CIMR-VC2A0006 CIMR-VC2A0006 CIMR-VC2A0010 CIMR-VC2A0000 CIMR-VC4A0000 CIMR-VC4A0001	Filter FS23638-10-07 FS23638-10-07 FS23638-10-07 FS23638-20-07 FS23638-20-07 FS23638-30-07 FS23638-40-07 Filter FS23637-8-07 FS23637-8-07 FS23637-14-07 FS23637-52-07 FS23637-52-07 FS23637-52-07 FS23637-52-07 FS23637-52-07 FS23637-52-07 FS23639-5-07 FS23639-5-07 FS23639-10-07 FS23639-10-07 FS23639-10-07 FS23639-30-07 FS23639-30-07 FS23639-30-07 FS23639-30-07 FS23639-30-07 FS23639-30-07 FS23639-30-07 FS23639-50-07 FS23639-50-07 FS23639-50-07 FS23639-30-07 FS23639-50-07 FS23639-50-07 FS23639-50-07	
Braking re	Used to shorten the deceleration time by dissipating regenerative energy through a resistor (3 % ED).		ERF-150WJ series		
AC choke		Reducing harmonics			
Braking ch	opper	Shortened deceleration time results when used with a braking transistor unit.	CDBR-		
24 V power	supply	Provides power supply for the control circuit and option boards. Note: Parameter settings cannot be changed when the drive is operating solely from this power supply.	PS-V10S PS-V10M		
USB copy compatible	unit (RJ-45/USB e plug)	Adapter for connecting the drive to the USB port of a PC (e.g. for support tool DriveWizard Plus). Can copy parameter settings to be later transferred to another drive	JVOP-181		
Support to Plus) cable	ols (DriveWizard	Connects the drive to a PC for use with DriveWizard.	WV103		
LCD opera	tor	For easier operation when using the optional LCD operator. Allows for remote operation. Includes a copy function for saving drive settings.	JVOP-180		
LED opera	tor	LED digital operator for easier operation.	JVOP-182		
Operator e	extension cable	Cable for connecting the LCD operator.	WV001: 1 m WV003: 3 m		
Communication interface unit Communication interface unit Communication interface unit Coc-Link DeviceNet PROFIBUS-DP CANopen PROFINET Modbus TCP/IP EtherCat Ethernet/IP Attachment for external		Frame for mounting JVOP-180/182 on panel door or wall, IP65 Allows control of the drive via a fieldbus network.	EUOP-V11011 SI-T3/V SI-C3/V SI-N3/V SI-P3/V SI-S3/V SI-EP3/V SI-EM3/V SI-EN3/V		
heatsink	it for external	Mechanical kit to install the drive with the heatsink out of the cabinet.	100-0340-00		
	tachment kit	Mechanical kit for installation on a DIN rail.			

Dimensions

IP20/Open-chassis (without EMC filter)

Single-phase, 200 VAC

Inverter model		Dimens	ions [mm	Weight	
CIMR-VC□	Figure	w	Н	D	[kg]
BA0001B		68	128	76	0.6
BA0002B	1	68	128	76	0.6
BA0003B		68	128	118	1.0
BA0006B		108	128	137.5	1.7
BA0010B	2	108	128	154	1.8
BA0012B	2	140	128	163	2.4
BA0018B		170	128	180	3.0

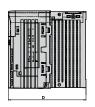
Three-phase, 200 VAC

Inverter model	Figures	Dimensi	ons [mm]	Weight	
CIMR-VC□	Figure	W	Н	D	[kg]
2A0001B		68	128	76	0.6
2A0002B	4	68	128	76	0.6
2A0004B		68	128	108	1.0
2A0006B		68	128	137.5	1.7
2A0010B		108	128	154	1.8
2A0012B	2	108	128	163	2.4
2A0020B		140	128	180	3.0

Three-phase, 400 VAC

Inverter model	Figure	Dimensi	ons [mm]		Weight [kg]	
CIMR-VC□	Figure	W	Н	D		
4A0001B		108	128	81	1.0	
4A0002B		108	128	99	1.2	
4A0004B		108	128	137.5	1.7	
4A0005B	2	108	128	154	1.7	
4A0007B		108	128	154	1.7	
4A0009B		108	128	154	1.7	
4A0011B		140	128	143	2.4	







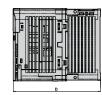


Figure 1

Figure 2

IP20/NEMA Type 1 (without EMC filter)

Single-phase, 200 VAC

Inverter model	Figure	Dimens	Dimensions [mm]				
CIMR-VC□	Figure	W	н	D	Weight [kg] 0.8 0.8 1.2 1.9 2.0		
BA0001F		68	149.5	76	0.8		
BA0002F	3	68	149.5	76	0.8		
BA0003F		68	149.5	118	1.2		
BA0006F		108	149.5	137.5	1.9		
BA0010F	4	108	149.5	154	2.0		
BA0012F	4	140	153	163	2.6		
BA0018F		170	171	180	3.3		

Three-phase, 200 VAC

Inverter model	Figure	Dimensi		Weight	
CIMR-VC□	Figure	W	Н	D	[kg]
2A0001F		68	149.5	76	0.8
2A0002F	3	68	149.5	76	0.8
2A0004F	3	68	149.5	108	1.1
2A0006F		68	149.5	128	1.3
2A0010F		108	149.5	129	1.9
2A0012F	4	108	149.5	137.5	1.9
2A0020F		140	153	143	2.6
2A0030F		140	254	140	3.8
2A0040F	-	140	254	140	3.8
2A0056F	5	180	290	163	5.5
2A0069F		220	350	187	9.2

Three-phase, 400 VAC

Inverter model	Figure	Dimensi	ons [mm]		Weight
CIMR-VC□	Figure	W	Н	D	[kg]
4A0001F		108	149.5	81	1.2
4A0002F		108	149.5	99	1.4
4A0004F		108	149.5	137.5	1.9
4A0005F	4	108	149.5	154	1.9
4A0007F		108	149.5	154	1.9
4A0009F		108	149.5	154	1.9
4A0011F		140	153	143	2.6
4A0018F		140	254	140	3.8
4A0023F	5	140	254	140	3.8
4A0031F	5	180	290	143	5.2
4A0038F		180	290	163	5.5









Figure 3

Figure 4

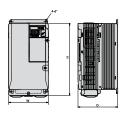


Figure 5

Finless

Single-phase, 200 VAC

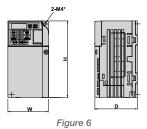
Inverter model	Figure	Dimens	Dimensions [mm]			
CIMR-VC□	Figure	W H D		D	[kg]	
BA0001J		68	128	71	0.6	
BA0002J	6	68	128	71	0.6	
BA0003J		68	128	81	0.8	
BA0006J	7	108	128	79.5	1.1	
BA0010J	1	108	128	91	1.1	
BA0012J	8	140	128	98	1.4	

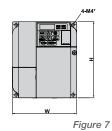
Three-phase, 200 VAC

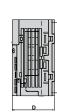
Inverter model	Figure	Dimensi	Weight		
CIMR-VC□		W	Н	D	[kg]
2A0001J	6	68	128	71	0.6
2A0002J		68	128	71	0.6
2A0004J		68	128	71	0.7
2A0006J		68	128	71	0.7
2A0008J		108	128	71	1.0
2A0010J	7	108	128	71	1.0
2A0012J		108	128	79.5	1.0
2A0018J	8	140	128	78	1.3
2A0020J	ö	140	128	78	1.3
2A0030J		140	260	145	3.2
2A0040J	9	140	260	145	3.2
2A0056J		180	300	147	4.6
2A0069J		220	350	152	7.0

Three-phase, 400 VAC

Inverter model CIMR-VC□	Figure	Dimensi	Weight		
		W	Н	D	[kg]
4A0001J		108	128	71	0.9
4A0002J	7	108	128	71	0.9
4A0004J		108	128	79.5	1.0
4A0005J		108	128	96	1.0
4A0007J		108	128	96	1.1
4A0009J		108	128	96	1.1
4A0011J	8	140	128	78	1.3
4A0018J		140	260	145	3.1
4A0023J	9	140	260	145	3.2
4A0031J		180	300	147	4.3
4A0038J		180	300	147	4.6



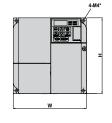


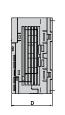


IP66

Single-phase, 200 VAC

Inverter model	Figure	Dimensions [mm]			Weight
CIMR-VC□		W	Н	D	[kg]
BA0001HDD-0080/0081	10	262	340	173.5	4.9
BA0002HDD-0080/0081		262	340	173.5	4.9
BA0003HDD-0080/0081		262	340	173.5	5.1
BA0006HDD-0080/0081		262	340	173.5	5.7
BA0010H□□-0080/0081		262	340	173.5	5.8
BA0012HQQ-0080/0081		262	340	173.5	6.1





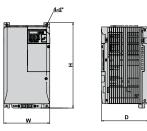
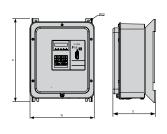


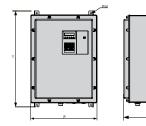
Figure 8

Figure 9

Three-phase, 400 VAC

Inverter model	Figure	Dimensions [mm]			Weight
CIMR-VC□		W	Н	D	[kg]
4A0001H□□-0080/0081	10	262	340	173.5	5.2
4A0002H□□-0080/0081		262	340	173.5	5.2
4A0004H□□-0080/0081		262	340	173.5	5.3
4A0005H□□-0080/0081		262	340	173.5	5.3
4A0007H□□-0080/0081		262	340	173.5	5.7
4A0009H□□-0080/0081		262	340	173.5	5.7
4A0011H□□-0080/0081		262	340	173.5	6.0
4A0018H□□-0080/0081	11	345	500.5	273.5	19.8
4A0023H□□-0080/0081		345	500.5	273.5	19.9
4A0031H□□-0080/0081		345	500.5	273.5	21.0
4A0038H□□-0080/0081		345	500.5	273.5	21.3





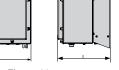


Figure 10

Figure 11



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