YASKAWA

YASKAWA AC Drive
Fan, Pump & HVAC
E1000

400 V CLASS, 0.75 to 630 kW



Safety & reliability

Super energy-saving

Easy for operation & compliance with environment



SINGAPORE GREEN BUILDING PRODUCT SGBC

TÜV SÜD PSB
LIC NO.: 00053G

Excellent

The Green Inverter

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Certified for ISO9001 and ISO14001

JQA-0422 JQA-EM0498

400 V Class

		Specifications													
Model: CIMR-E□4A		0002	0004	0005	0007	0009	0011	0018	0023	0031	0038	0044	0058	0072	0088
Maximum applicable motor capacity (kW) *1		0.75	1.5	2.2	3	3.7	5.5	7.5	11	15	18.5	22	30	37	45
Input	Rated input current (A) *2	2.1	4.3	5.9	8.1	9.4	14	20	24	38	44	52	58	71	86
Output	Rated output capacity (kVA) *3	1.6	3.1	4.1	5.3	6.7	8.5	13.3	17.5	24	29	34	44	55	67
	Rated output current (A) *4	2.1	4.1	5.4	6.9	8.8	11.1	17.5	23	31	38	44	58	72	88
	Overload tolerance	120% of rated output current for 60 seconds													
	Carrier frequency	2~15kHz (It can be changed via parameters.)													
	Maximum output voltage (V)	3-phase 380~480V (corresponding input voltage)													
	Maximum output frequency (Hz)	200Hz (It can be changed via parameters.)													
Power supply	Rated voltage, rated frequency	AC: 3-phase 380~480V 50/60Hz DC: 510~680V													
	Allowable voltage fluctuation	-15~10%													
	Allowable frequency fluctuation	±5%													
	Power-supply device capacity (kVA)	2.3	4.3	6.1	8.1	10.0	14.5	19.1	28.1	37.5	46.6	51.9	53.0	64.9	78.6

Item		Specifications											
Model: CIMR-E□4A		0103	0139	0165	0208	0250	0296	0362	0414	0515	0675	0930	1200
Maximum applicable motor capacity (kW) *1		55	75	90	110	132	160	185	220	250	355	500	630
Input	Rated input current (A) *2	105	142	170	207	248	300	346	410	465	657	922	1158
Output	Rated output capacity (kVA) *3	78	106	126	159	191	226	276	316	392	514	709	915
	Rated output current (A) *4	103	139	165	208	250	296	362	414	515	675	930	1200
	Overload tolerance	120% of rated output current for 60 seconds											
	Carrier frequency	2~10kHz (It can be changed via parameters.)							2~5kHz (It can be changed via parameters.)				
	Maximum output voltage (V)	3-phase 380~480V (Relative to input voltage)											
	Maximum output frequency (Hz)	200Hz (It can be changed via parameters.)											
Power supply	Rated voltage, rated frequency	AC: 3-phase 380~480V 50/60Hz DC: 510~680V											
	Allowable voltage fluctuation	-15~10%											
	Allowable frequency fluctuation	±5%											
	Power-supply device capacity (kVA)	96.0	129.9	155.5	189	227	274	316	375	416	601	843	1059

*1 The maximumly applicable motor capacity is the capacity of the 4-pole, 50Hz, 400V standard motor manufactured by the Company. The more rigorous selection method is to make the rated output current of the inverter greater than the rated current of the motor when selecting the model.

*2 Refer to the rated output current value. This value is not only affected by the power transformer, the reactor at the input side and the wiring conditions, but also fluctuates with the impedance at the power supply side.

*3 Rated output capacity is calculated with a rated output voltage of 440V.

*4 Increasing the carrier frequency requires a reduction in current.

*5 The cumulatively calculated overload starting current is the objective current value when the inverter starts to cumulatively calculate the overload fault (OL2) of the inverter. The inverter will continue to operate when it exceeds the rated output current value and lower than such current value.
However, it is noted that, when the ambient temperature is too high or the ventilation is poor, the heat sink overheat alarm (OH1) or heat sink overheat fault may occur.
At this time when the inverter capacity needs to be improved or the inverter gives an overheat alarm, it will continue to operate using the progressive frequency decrease.

Model Designation

CIMR- E T 4 A 0018 F A A

AC Drive | E1000 Series | Design Revision order

No.	Region code
T	Asia

No.	Voltage class
4	3-phase 400Vac

No.	Customized specifications
A	E1000 standard

No.	Output Current A
	Please refer to the above

No.	Enclosure Type
A	IP00 (above 30kW)
F	NEMA Type1 (below 22kW)

No.	Environmental Specifications
A	Standard
M	Humidity, dust-resistant

Contact Yaskawa for more information on environmental specifications.

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