

General Purpose

# AC Drive Fan, Pump, HVAC E1000

## 400 V Class

Item		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
	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
Output	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
	Cumulatively calculated overload starting current (A) *5	2.4	4.6	6.0	7.4	9.7	12.4	19.6	24	32	42	49	61	81	99
	Overload tolerance	120% of rated output current for 60 seconds													
	Carrier frequency	2~15kHz (can be changed via parameters.)													
	Maximum output voltage (V)	Three-phase 380~480V (corresponding input voltage)													
	Maximum output frequency (Hz)	200Hz (can be changed via parameters.)													
	Rated voltage, rated frequency	AC: Three-phase 380~480V 50/60Hz DC: 510~680V													
Power supply	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	19.4	28.4	37.5	46.6	54.9	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) ts *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
	Rated output capacity (kVA) *3	78	106	126	159	191	226	276	316	392	514	709	915
Output	Rated output current (A) *4	103	139	165	208	250	296	362	414	515	675	930	1200
	Cumulatively calculated overload starting current (A) *5	115	141	170	213	256	332	405	464	577	756	1042	1344
	Overload tolerance	120% of rated output current for 60 seconds											
	Carrier frequency	2~10kHz (can be changed via parameters.)						2~5kHz (can be changed via parameters.)					
	Maximum output voltage (V)	Three-phase 380~480V (corresponding input voltage)											
	Maximum output frequency (Hz)	200Hz (can be changed via parameters.)											
	Rated voltage, rated frequency	AC: three-phase 380~480V 50/60Hz DC: 510~680V											
Power supply	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 maximum 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. The rated output current 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 The rated output capacity is calculated when the rated output voltage is 440V.

\*4 The current needs to be reduced when improving the carrier frequency.

\*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.