

Voltage Class	Maximum Motor Capacity kW	Varispeed F7		Order Model Number (Always specify the protective structure when ordering.)	
		Output Capacity kVA	Basic Model Number	Open Chassis (IEC IP00) CIMR-F7□□□□□□	Enclosed Wall-mounted (IEC IP20, Type 1 (NEMA 1)) CIMR-F7A□□□□□□
400 V class	0.4	1.4	CIMR-F7A40P4	Remove the top and bottom covers from the Enclosed Wall-mount model.	40P4□□
	0.75	1.6	CIMR-F7A40P7		40P7□□
	1.5	2.8	CIMR-F7A41P5		41P5□□
	2.2	4.0	CIMR-F7A42P2		42P2□□
	3.7	5.8	CIMR-F7A43P7		43P7□□
	5.5	9.5	CIMR-F7A45P5		45P5□□
	7.5	13	CIMR-F7A47P5		47P5□□
	11	18	CIMR-F7A4011		4011□□
	15	24	CIMR-F7A4015		4015□□
	18.5	30	CIMR-F7A4018		4018□□
	22	34	CIMR-F7A4022	4022□□	4022□□
	30	46	CIMR-F7A4030	4030□□	4030□□
	37	57	CIMR-F7A4037	4037□□	4037□□
	45	69	CIMR-F7A4045	4045□□	4045□□
	55	85	CIMR-F7A4055	4055□□	4055□□
	75	110	CIMR-F7A4075	4075□□	4075□□
	90	140	CIMR-F7A4090	4090□□	4090□□
	110	160	CIMR-F7A4110	4110□□	4110□□
	132	200	CIMR-F7A4132	4132□□	4132□□
	160	230	CIMR-F7A4160	4160□□	4160□□
	185	280	CIMR-F7A4185	4185□□	-
	220	390	CIMR-F7A4220	4220□□	-
	300	510	CIMR-F7A4300	4300□□	-

## ■Motor 2 Setup: E4

User constants for motor 2 are shown in the following table.

Con- stant Number	Name	Description	Setting Range	Factory Setting	Change during Opera- tion	Control Methods			MEMO- BUS Register	Page
						V/f	V/f with PG	Open Loop		
E4-01	Motor 2 rated cur- rent	Sets the motor rated current in 1 A units. This set value will become the reference value for motor protection, torque limits and torque control. This constant is automati- cally set during auto tuning.	0.32 to 6.40 *2	1.90 A *1	No	A	A	A	321H	6-50
E4-02	Motor 2 rated slip	Sets the motor rated slip in Hz units. This set value will become the reference value for slip compensation. This constant is automati- cally set during auto tuning.	0.00 to 20.00	2.90 Hz *1	No	A	A	A	322H	-
E4-03	Motor 2 no- load current	Sets the motor no-load cur- rent in 1 A units. This constant is automati- cally set during auto tuning.	0.00 to 1.89 *3	1.20 A *1	No	A	A	A	323H	-
E4-04	Motor 2 number of poles (num- ber of poles)	Sets the number of motor poles. This constant is automati- cally set during auto tuning.	2 to 48	4 poles	No	No	A	No	324H	-
E4-05	Motor 2 line-to-line resistance	Sets the motor phase-to- phase resistance in $\Omega$ units. This constant is automati- cally set during auto tuning.	0.000 to 65.000	9.842 $\Omega$ *1	No	A	A	A	325H	-
E4-06	Motor 2 leakage inductance	Sets the voltage drop due to motor leakage inductance as a percentage of the motor rated voltage. This constant is automati- cally set during auto tuning.	0.0 to 40.0	18.2% *1	No	No	No	A	326H	-
E4-07	Motor 2 rated capac- ity	Set the rated output of the motor in units of 0.01 kW. This constant is automati- cally set during auto tuning.	0.40 to 650.00	0.40 *1	No	A	A	A	327H	-

\* 1. The factory setting depends upon the Inverter capacity. The value for a 200 V class Inverter of 0.4 kW is given.

\* 2. The setting range is 10% to 200% of the Inverter's rated output current. The values for a 200 V class Inverter of 0.4 kW is given.

\* 3. If a multi-function input is set for motor 2 (H1-□□ = 16), the factory setting will depend upon the Inverter capacity. The value for a 200 V class Inverter of 0.4 kW is given.

## ■400 V Class

Table 9.2 400 V Class Inverters

Model Number CIMR-F7A □		40P4	40P7	41P5	42P2	43P7	45P5	47P5	4011	4015	4018
Max. applicable motor output (kW) *1		0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5
Output ratings	Rated output capacity (kVA)	1.4	1.6	2.8	4.0	5.8	9.5	13	18	24	30
	Rated output current (A)	1.8	2.1	3.7	5.3	7.6	12.5	17	24	31	39
	Max. output voltage (V)	3-phase; 380, 400, 415, 440, 460, or 480 VAC (Proportional to input voltage.)									
Power supply characteristics	Max. output frequency (Hz)	CT selected (low carrier, constant torque applications): 150 Hz max. VT selected (high carrier, variable torque applications): 400 Hz max.									
	Rated voltage (V) Rated frequency (Hz)	3-phase, 380, 400, 415, 440, 460 or 480 VAC, 50/60 Hz									
	Allowable voltage fluctuation	+ 10%, - 15%									
Control characteristics	Allowable frequency fluctuation	±5%									
	Measures for power supply harmonics	DC reactor	Optional								
		12-phase rectification	Not possible								

Model Number CIMR-F7A □		4022	4030	4037	4045	4055	4075	4090	4110	4132	4160	4185	4220	4300
Max. applicable motor output (kW) *1		22	30	37	45	55	75	90	110	132	160	185	220	300
Output ratings	Rated output capacity (kVA)	34	46	57	69	85	110	140	160	200	230	280	390	510
	Rated output current (A)	45	60	75	91	112	150	180	216	260	304	370	506	675
	Max. output voltage (V)	3-phase, 380, 400, 415, 440, 460, or 480 VAC (Proportional to input voltage.)												
Power supply characteristics	Max. output frequency (Hz)	CT selected (low carrier, constant torque applications): 150 Hz max. VT selected (high carrier, variable torque applications): 400 Hz max.												
	Max. voltage (V) Rated frequency (Hz)	3-phase, 380, 400, 415, 440, 460, or 480 VAC, 50/60 Hz												
	Allowable voltage fluctuation	+ 10%, - 15%												
Control characteristics	Allowable frequency fluctuation	±5%												
	Measures for power supply harmonics	DC reactor	Built in											
		12-phase rectification	Possible *2											

\* 1. The maximum applicable motor output is given for a standard 4-pole Yaskawa motor. When selecting the actual motor and Inverter, be sure that the Inverter's rated current is applicable for the motor's rated current.

\* 2. A 3-wire transformer is required on the power supply for 12-phase rectification.