Specification Chart

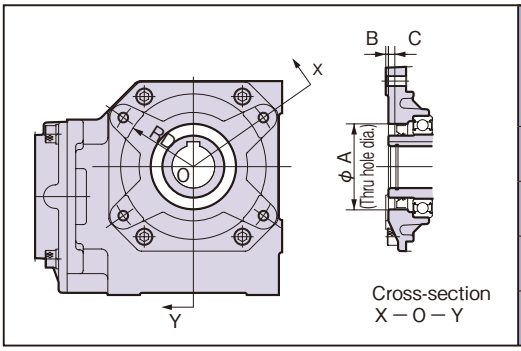
Output	Number of phases	Number of poles	Frequency Hz	Voltage V 50/60/60Hz	Rated current A 50/60/60Hz	Rated revolution r/min 50/60/60Hz	Protection	Cooling method	Rating	Insulation	Brake		
											Type	Rated torque of motor torque	Insulation
0.2kW	Three-phase	4	50/60/60	200/200/220 (400/400/440)	1.2/1.1/1.1 (0.59/0.55/0.55)	1420/1700/1720 (1410/1690/1720)	Totally enclosed (IP44)	Self managed (JC411)	Continuous	Class E	Non-excitation	At least 50%	Class B

Note 1: The values in parentheses under "Rated current" and "Rated revolution" are for 400 V class.
Note 2: The protective construction for the brake type is IP20.

Model number		Motor output kW	Actual reduction ratio	Number of reduction steps	Reducer frame number	Output shaft revolution r/min		Allowable output shaft torque				Allowable output shaft O.H.L.		Drawing number of outline dimensions
								N·m	{kgf·m}	N·m	{kgf·m}			
						50Hz	60Hz	50Hz		60Hz		N	{kgf}	
CSMA020	10	0.2	1/10	1	13	150	180	11.1	{ 1.1 }	9.3	{ 1.0 }	1580	{161}	1
	15		1/15			100	120	15.7	{ 1.6 }	13.2	{ 1.3 }	1580	{161}	
	20		1/20			75	90	20.0	{ 2.0 }	17.0	{ 1.7 }	1660	{169}	
	25		1/25			60	72	23.5	{ 2.4 }	20.1	{ 2.0 }	1660	{169}	
	30		1/30			50	60	26.6	{ 2.7 }	22.7	{ 2.3 }	1660	{169}	
	40		1/40		16	37.5	45	33.8	{ 3.5 }	28.9	{ 3.0 }	2660	{271}	2
	50		1/50			30	36	39.7	{ 4.1 }	34.1	{ 3.5 }	2660	{271}	
	60		1/60			25	30	45.0	{ 4.6 }	38.7	{ 4.0 }	2660	{271}	
HCMA020	40		1/40	2	16	37.5	45	40.0	{ 4.1 }	34.0	{ 3.4 }	2660	{271}	3
	50		1/50			30	36	50.0	{ 5.1 }	42.0	{ 4.3 }	2660	{271}	
	60		1/60			25	30	56.0	{ 5.7 }	47.0	{ 4.8 }	2660	{271}	
	75		1/75			20	24	59.0	{ 6.1 }	58.0	{ 6.0 }	2660	{271}	
	90		1/90		22	16.7	20	81.0	{ 8.3 }	68.0	{ 7.0 }	3970	{405}	4
	100		1/100			15	18	89.0	{ 9.1 }	75.0	{ 7.7 }	3970	{405}	
	120		1/120			12.5	15	97.0	{ 9.9 }	82.0	{ 8.4 }	3970	{405}	
	150		1/150			10	12	118.0	{12.0 }	100.0	{10.2 }	3970	{405}	
	180		1/180			8.3	10	129.0	{13.1 }	110.0	{11.2 }	3970	{405}	
	200		1/200			7.5	9	139.0	{14.2 }	120.0	{12.3 }	3970	{405}	
	240		1/240		28	6.3	7.5	161.0	{16.4 }	138.0	{14.1 }	5320	{543}	5
	300		1/300			5	6	195.0	{19.9 }	167.0	{17.0 }	5320	{543}	

Note 1: The actual reduction ratio is shown as the reduction ratio. (They are all integer ratios.)
Note 2: The output shaft revolution rate is calculated by dividing the synchronous motor revolution rate by the reduction ratio. Calculate the actual output revolution rate from the motor's rated revolution rate.

Output Housing Dimensions



Frame number	Thru hole ϕA (H8)	B	C	RD
13	45	1.5	3	34
16	58	1.5	3	40.5
22	70	2.0	4	54
28	80	2.5	5	67