

Slow Speed Shaft Direction	
Horizontal, slow speed shaft level	H
Vertical, slow speed shaft down	V
Vertical, slow speed shaft up	W
Universal mounting	N

Mounting style	
Foot	H
V flange	V
Flange	F

Type of Input	
Gearmotor	M
With adaptor	JM

Special Specifications	
Standard specification	blank
Special specification	S

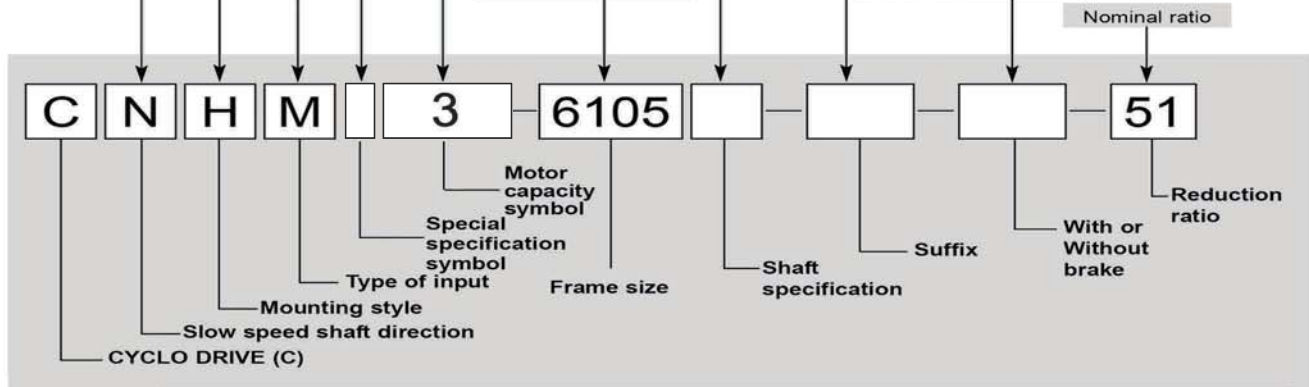
		Motor Capacity Symbol						
4P	Capacity symbol	01	02	03	05	08	1	
	kW (HP)	0.1 (1/8)	0.2 (1/4)	0.25 (1/3)	0.4 (1/2)	0.55 (3/4)	0.75 (1)	
	Capacity symbol	1H	2	3	4	5	8	
	kW (HP)	1.1 (1.5)	1.5 (2)	2.2 (3)	3.0 (4)	3.7 (5)	5.5 (7.5)	
	Capacity symbol	10	15	20	25	30	40	
	kW (HP)	7.5 (10)	11 (15)	15 (20)	18.5 (25)	22 (30)	30 (40)	
6P	Capacity symbol	50	60	75	100			
	kW (HP)	37 (50)	45 (60)	55 (75)	75 (100)			
	Capacity symbol	016	026	036	056	086	16	
	kW (HP)	0.1 (1/8)	0.2 (1/4)	0.25 (1/3)	0.4 (1/2)	0.55 (3/4)	0.75 (1)	
	Capacity symbol	1H6	26	36	46	56	86	
	kW (HP)	1.1 (1.5)	1.5 (2)	2.2 (3)	3.0 (4)	3.7 (5)	5.5 (7.5)	
6P	Capacity symbol	106	156	206	256	306	406	
	kW (HP)	7.5 (10)	11 (15)	15 (20)	18.5 (25)	22 (30)	30 (40)	
	Capacity symbol	506	606	756	1006	1256	1506	
	kW (HP)	37 (50)	45 (60)	55 (75)	75 (100)	90 (125)	110 (150)	
	Capacity symbol	1756						
	kW (HP)	132 (175)						

Shaft specification	
Metric JIS (Standard)	-
Inch size	Y
Metric DIN	G

Suffix		
Standard	-	Low Backlash
Light Heavy Radial	R1	With AF (inverter) motor
High Cap. Brg. Ductile Casing	R2	Servo Motor
Baseplate	BP	DC Motor
HH Type Ceiling	H1	High Efficiency Motor
Modification Left Wall	H2	Torque Limiter
Modification Right Wall	H3	

With or Without Brake	
Without brake	-
With brake	B

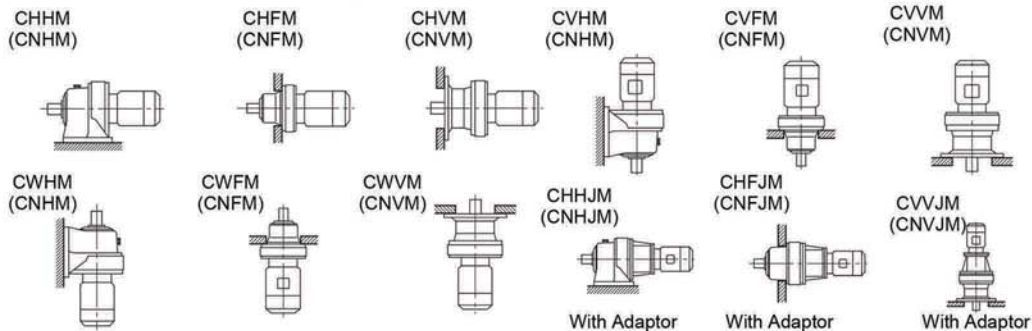
Frame size
(Refer to Selection
Tables starting from
page B-13.)



Product and Nomenclature Symbol Examples (Gearmotor)

Standard and various application products of CYCLO GEARMOTOR are classified by their nomenclature symbol as below. Refer to specific catalogs or consult us for details on our application products.

CYCLO® GEARMOTORS

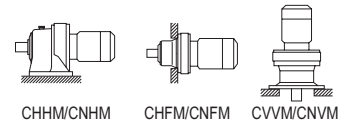


Selection Tables Gearmotors #CNHM3, #CHHM3, #CNVM3, #CVVM3

GEARMOTORS

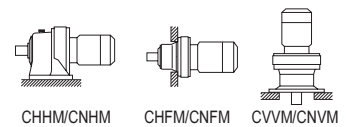
Selection Tables
1.5 kW, 2.2 kW

1.5 kW	Hz		50Hz		60Hz	
	P		4	6	4	6
	n ₁	r/min	1450	980	1750	1165



50Hz					60Hz					Nomenclature			Page of Dimension Sheet				
Output Speed n ₂	Output Torque Tout		Allowable Radial Load Pro		SF	Output Speed n ₂	Output Torque Tout		Allowable Radial Load Pro		SF	Input Capacity Symbol	Frame Size	Reduction Ratio	CNHM	CNFM	CNVM
r/min	N·m	kgf·m	N	kgf		r/min	N·m	kgf·m	N	kgf					CHHM	CHFM	CVVM
0.235	11300	1150	104000	10600	*1	0.283	11300	1150	104000	10600	*1	2 -	6215DA	-6177	B-112	B-129	B-148
	15100	1540	145000	14800	*1		15100	1540	145000	14800	*1		6225DA	-6177	B-113	B-130	B-149
0.192	11300	1150	104000	10600	*1	0.231	11300	1150	104000	10600	*1	2 -	6215DA	-7569	B-112	B-129	B-148
	15100	1540	145000	14800	*1		15100	1540	145000	14800	*1		6225DA	-7569	B-113	B-130	B-149

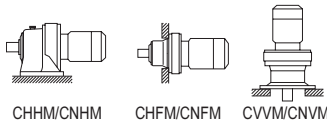
2.2 kW	Hz		50Hz		60Hz	
	P		4	6	4	6
	n ₁	r/min	1450	980	1750	1165



50Hz					60Hz					Nomenclature			Page of Dimension Sheet							
Output Speed n ₂	Output Torque Tout		Alloable Radial Load Pro		SF	Output Speed n ₂	Output Torque Tout		Alloable Radial Load Pro		SF	Input Capacity Symbol	Frame Size	Reduction Ratio	CNHM	CNFM	CNVM			
r/min	N·m	kgf·m	N	kgf		r/min	N·m	kgf·m	N	kgf					CHHM	CHFM	CVVM			
580	34.4	3.51	2050	209	1.09	700	28.5	2.91	1970	201	1.09	3 -	6090SK	- 2.5 *3	B-98	-	B-133			
			2050	209	1.23				1970	201	1.23				3 - 6095SK	- 2.5 *3	B-98	-	B-133	
			2050	209	1.45				1970	201	1.45				3 - 6100SK	- 2.5 *3	B-99	-	B-134	
			2050	209	1.70				1970	201	1.70				3 - 6105SK	- 2.5 *3	B-99	-	B-134	
			2790	284	2.34				2650	270	2.34				3 - 6110SK	- 2.5 *3	B-99	-	B-134	
			2790	284	2.93				2650	270	2.93				3 - 6115SK	- 2.5 *3	B-99	-	B-134	
483	41.3	4.21	2120	216	1.06	583	34.2	3.49	2040	208	1.06	3 -	6090SK	- 3 *3	B-98	-	B-133			
			2120	216	1.20				2040	208	1.20				3 - 6095SK	- 3 *3	B-98	-	B-133	
			2120	216	1.50				2040	208	1.50				3 - 6100SK	- 3 *3	B-99	-	B-134	
			2120	216	1.76				2040	208	1.76				3 - 6105SK	- 3 *3	B-99	-	B-134	
			2960	302	2.40				2820	287	2.40				3 - 6110SK	- 3 *3	B-99	-	B-134	
			2960	302	3.00				2820	287	3.00				3 - 6115SK	- 3 *3	B-99	-	B-134	
363	55.1	5.61	2300	234	1.06	438	45.6	4.65	2240	228	1.06	3 -	6090SK	- 4 *3	B-98	-	B-133			
			2300	234	1.20				2240	228	1.20				3 - 6095SK	- 4 *3	B-98	-	B-133	
			2300	234	1.46				2240	228	1.46				3 - 6100SK	- 4 *3	B-99	-	B-134	
			2300	234	1.72				2240	228	1.72				3 - 6105SK	- 4 *3	B-99	-	B-134	
			3170	323	2.43				3010	307	2.43				3 - 6110SK	- 4 *3	B-99	-	B-134	
			3170	323	3.04				3010	307	3.04				3 - 6115SK	- 4 *3	B-99	-	B-134	
290	68.8	7.02	2420	247	1.02	350	57.0	5.81	2330	238	1.02	3 -	6090SK	- 5 *3	B-98	-	B-133			
			2420	247	1.20				2330	238	1.20				3 - 6095SK	- 5 *3	B-98	-	B-133	
			2420	247	1.43				2330	238	1.43				3 - 6100SK	- 5 *3	B-99	-	B-134	
			2420	247	1.68				2330	238	1.68				3 - 6105SK	- 5 *3	B-99	-	B-134	
			3330	339	2.09				3180	324	2.09				3 - 6110SK	- 5 *3	B-99	-	B-134	
			3330	339	2.62				3180	324	2.62				3 - 6115SK	- 5 *3	B-99	-	B-134	
242	82.6	8.42	2410	246	1.03	292	68.4	6.98	2370	242	1.03	3 -	6095SK	- 6 *3	B-98	-	B-133			
			2410	246	1.21				2370	242	1.21				3 - 6100SK	- 6 *3	B-99	-	B-134	
			2410	246	1.43				2370	242	1.43				3 - 6105SK	- 6 *3	B-99	-	B-134	
			3520	359	1.92				3370	344	1.92				3 - 6110SK	- 6 *3	B-99	-	B-134	
			3520	359	2.40				3370	344	2.40				3 - 6115SK	- 6 *3	B-99	-	B-134	
			4090	417	1.07				3860	393	1.07				3 -	6100	- 6	B-101	B-117	B-136
			4090	417	1.45				3860	393	1.45				3 -	6105	- 6	B-101	B-117	B-136
			4640	473	1.61				4370	445	1.61				3 -	6110	- 6	B-101	B-117	B-136
			4640	473	1.78				4370	445	1.78				3 -	6115	- 6	B-101	B-117	B-136
			5260	536	2.30				4950	505	2.30				3 -	6120	- 6	B-101	B-117	B-136

1. Combinations in **bold** are the recommended models for operations for 10 hours/day with uniform load (service factor is about 1.0 for motor rating at 50Hz).
2. Motor slippage may affect n₁ and n₂. Refer to technical data for details.
3. CNHM, CHHM, CNFM, CHFM, CNVM, and CVVM indicate types. Refer to page B-10 for details.
4. Lubrication method is different for each model. Refer to "Lubrication" section in page F-4~F-5 for details.
5. "6" at the end of "input capacity symbol" indicates models with 6P motor. Other models come with 4P motor.

Selection Tables Gearmotors #CNHM3, #CHHM3, #CNVM3, #CVVM3



CHHM/CNHM

CHFM/CNFM

CVVM/CNVM

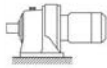
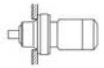

2.2 kW	Hz		50Hz		60Hz	
	P		4	6	4	6
	n ₁	r/min	1450	980	1750	1165

n₁: Motor Speed

50Hz					60Hz					Nomenclature			Page of Dimension Sheet				
Output Speed n ₂ r/min	Output Torque Tout N·m kgf·m		Allowable Radial Load Pro N kgf		SF	Output Speed n ₂ r/min	Output Torque Tout N·m kgf·m		Allowable Radial Load Pro N kgf		SF	Input Capacity Symbol	Frame Size	Reduction Ratio	CNHM	CNFM	CNVM
															CHHM	CHFM	CVVM
181	110	11.2	2540	259	0.80	219	91.2	9.30	2500	255	0.80	3 - 6095SK	- 8 *3	B-98	-	B-133	
			2540	259	1.13				2500	255	1.13	3 - 6105SK	- 8 *3	B-99	-	B-134	
			3730	380	1.68				3580	365	1.68	3 - 6110SK	- 8 *3	B-99	-	B-134	
			3730	380	2.10				3580	365	2.10	3 - 6115SK	- 8 *3	B-99	-	B-134	
			4560	465	1.07				4300	438	1.07	3 - 6100	- 8	B-101	B-117	B-136	
			4560	465	1.45				4300	438	1.45	3 - 6105	- 8	B-101	B-117	B-136	
			5170	527	1.61				4870	496	1.61	3 - 6110	- 8	B-101	B-117	B-136	
5170	527	1.78	4870	496	1.78	3 - 6115	- 8	B-101	B-117	B-136							
5870	598	2.30	5520	563	2.30	3 - 6120	- 8	B-101	B-117	B-136							
145	138	14.0	2610	266	0.80	175	114	11.6	2580	263	0.80	3 - 6095SK	- 10 *3	B-98	-	B-133	
			2610	266	1.00				2580	263	1.00	3 - 6105SK	- 10 *3	B-99	-	B-134	
			3960	404	1.39				3820	389	1.39	3 - 6110SK	- 10 *3	B-99	-	B-134	
			3960	404	1.74				3820	389	1.74	3 - 6115SK	- 10 *3	B-99	-	B-134	
132	151	15.4	5170	527	1.07	159	125	12.8	4870	497	1.07	3 - 6100	- 11	B-101	B-117	B-136	
			5170	527	1.45				4870	497	1.45	3 - 6105	- 11	B-101	B-117	B-136	
			5900	601	1.61				5560	567	1.61	3 - 6110	- 11	B-101	B-117	B-136	
			5900	601	1.78				5560	567	1.78	3 - 6115	- 11	B-101	B-117	B-136	
			6670	680	2.30				6280	640	2.30	3 - 6120	- 11	B-101	B-117	B-136	
			6670	680	2.69				6280	640	2.69	3 - 6125	- 11	B-101	B-117	B-136	
112	179	18.2	5360	547	1.07	135	148	15.1	5060	516	1.07	3 - 6100	- 13	B-101	B-117	B-136	
			5360	547	1.45				5060	516	1.45	3 - 6105	- 13	B-101	B-117	B-136	
			6090	621	1.61				5740	586	1.61	3 - 6110	- 13	B-101	B-117	B-136	
			6090	621	1.77				5740	586	1.77	3 - 6115	- 13	B-101	B-117	B-136	
			6890	702	2.30				6490	662	2.30	3 - 6120	- 13	B-101	B-117	B-136	
6890	702	2.69	6490	662	2.69	3 - 6125	- 13	B-101	B-117	B-136							
96.7	206	21.0	5400	550	1.07	117	171	17.4	5340	544	1.07	3 - 6100	- 15	B-101	B-117	B-136	
			5400	550	1.45				5340	544	1.45	3 - 6105	- 15	B-101	B-117	B-136	
			6490	662	1.61				6120	624	1.61	3 - 6110	- 15	B-101	B-117	B-136	
			6490	662	1.77				6120	624	1.77	3 - 6115	- 15	B-101	B-117	B-136	
			7390	753	2.30				6960	710	2.30	3 - 6120	- 15	B-101	B-117	B-136	
7390	753	2.69	6960	710	2.69	3 - 6125	- 15	B-101	B-117	B-136							
85.3	234	23.9	5400	550	1.12	103	194	19.8	5400	550	1.12	3 - 6105	- 17	B-101	B-117	B-136	
			6550	668	1.45				6180	630	1.45	3 - 6110	- 17	B-101	B-117	B-136	
			6550	668	1.77				6180	630	1.77	3 - 6115	- 17	B-101	B-117	B-136	
			7460	760	2.22				7030	716	2.30	3 - 6120	- 17	B-101	B-117	B-136	
			7460	760	2.57				7030	716	2.57	3 - 6125	- 17	B-101	B-117	B-136	
69.0	289	29.5	5400	550	1.04	83.3	240	24.4	5400	550	1.06	3 - 6105	- 21	B-101	B-117	B-136	
			6920	706	1.24				6540	667	1.24	3 - 6110	- 21	B-101	B-117	B-136	
			6920	706	1.41				6540	667	1.41	3 - 6115	- 21	B-101	B-117	B-136	
			8180	834	1.80				7710	786	1.80	3 - 6120	- 21	B-101	B-117	B-136	
			8180	834	2.18				7710	786	2.22	3 - 6125	- 21	B-101	B-117	B-136	
			9580	976	2.70				9020	919	2.79	3 - 6130	- 21	B-102	B-118	B-137	
58.0	344	35.1	7010	715	1.01	70.0	285	29.1	6620	675	1.01	3 - 6115	- 25	B-101	B-117	B-136	
			8560	873	1.40				8070	823	1.40	3 - 6120	- 25	B-101	B-117	B-136	
			8560	873	1.80				8070	823	1.80	3 - 6125	- 25	B-101	B-117	B-136	
			9950	1010	2.27				9370	955	2.35	3 - 6130	- 25	B-102	B-118	B-137	
			9950	1010	2.61				9370	955	2.70	3 - 6135	- 25	B-102	B-118	B-137	
50.0	399	40.7	7160	730	1.01	60.3	331	33.7	6800	693	1.01	3 - 6115	- 29	B-101	B-117	B-136	
			8880	905	1.30				8380	854	1.36	3 - 6120	- 29	B-101	B-117	B-136	
			8880	905	1.58				8380	854	1.71	3 - 6125	- 29	B-101	B-117	B-136	
			10500	1070	1.95				9850	1000	2.04	3 - 6130	- 29	B-102	B-118	B-137	
			10500	1070	2.22				9850	1000	2.56	3 - 6135	- 29	B-102	B-118	B-137	
			15000	1530	2.70				14200	1450	2.70	3 - 6140	- 29	B-102	B-118	B-137	

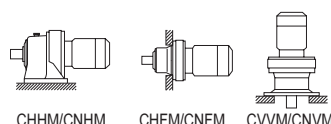
- "*2" indicate models manufactured with reducer and motor separately mounted on a common baseplate (horizontal shaft direction) or on an adaptor (vertical shaft direction). Consult us for details, including dimensions.
- Allowable radial load (Pro) is the value at the midpoint of the slow speed shaft.
- "*3" indicate models with reduction ratios equal to nominal ratio. Refer to Table A-3 "6000SK Series (Actual Reduction Ratio)" on page A-4 for actual reduction ratio. Indicated reduction ratio is the same as actual reduction ratio for other models.
- Maintain torque load during operation within "Output torque" in the table for models with "*" in the SF column. They cannot be operated with 100% motor rating.

Selection Tables Gearmotors #CNHM3, #CHHM3, #CNVM3, #CVVM3

2.2 kW		n ₁ : Motor Speed				   CHHM/CNHM CHF/CNFM CVVM/CNVM																					
		Hz		50Hz					60Hz																		
		P	r/min	4	6				4	6																	
		n ₁	r/min	1450	980	1750	1165																				
50Hz					60Hz					Nomenclature			Page of Dimension Sheet														
Output Speed n ₂	Output Torque T _{out}	Allowable Radial Load Pro		SF	Output Speed n ₂	Output Torque T _{out}	Allowable Radial Load Pro		SF	Input Capacity Symbol	Frame Size	Reduction Ratio	CNHM	CNFM	CNVM												
r/min	N·m	kgf·m	N	kgf	r/min	N·m	kgf·m	N	kgf				CHHM	CHF	CVVM												
41.4	482	49.1	4960	506	0.82	50.0	399	40.7	7230	737	0.82	3	6115	- 35	B-101	B-117	B-136										
			9350	954	1.08				8830	900	1.13				3	6120	- 35	B-101	B-117	B-136							
			9350	954	1.31				8830	900	1.45				3	6125	- 35	B-101	B-117	B-136							
			11000	1120	1.62				10300	1050	1.69				3	6130	- 35	B-102	B-118	B-137							
			11000	1120	1.87				10300	1050	1.93				3	6135	- 35	B-102	B-118	B-137							
			16000	1630	2.37				15200	1550	2.37				3	6140	- 35	B-102	B-118	B-137							
33.7	592	60.3	16000	1630	2.85	40.7	490	50.0	15200	1550	3.42	3	6145	- 35	B-102	B-118	B-137										
			9810	1000	1.06				9380	956	1.08				3	6125	- 43	B-101	B-117	B-136							
			11800	1200	1.32				11100	1130	1.36				3	6130	- 43	B-102	B-118	B-137							
			11800	1200	1.52				11100	1130	1.71				3	6135	- 43	B-102	B-118	B-137							
			16000	1630	1.79				15900	1620	1.79				3	6140	- 43	B-102	B-118	B-137							
			16000	1630	2.12				15900	1620	2.45				3	6145	- 43	B-102	B-118	B-137							
28.4	702	71.6	20600	2100	2.93	34.3	582	59.3	19300	1970	3.39	3	6160	- 43	B-103	B-119	B-138										
			9810	1000	0.90				9760	995	1.04				3	6125	- 51	B-101	B-117	B-136							
			12200	1250	1.11				11500	1180	1.33				3	6135	- 51	B-102	B-118	B-137							
			12200	1250	1.16				11500	1180	1.33				3	6135	- 51	B-102	B-118	B-137							
			16000	1630	1.56				16000	1630	1.56				3	6140	- 51	B-102	B-118	B-137							
			16000	1630	1.68				16000	1630	1.92				3	6145	- 51	B-102	B-118	B-137							
24.6	812	82.8	21300	2180	2.50	29.7	673	68.6	20100	2050	2.61	3	6160	- 51	B-103	B-119	B-138										
			21300	2180	2.99				20100	2050	3.42				3	6165	- 51	B-103	B-119	B-138							
			12800	1300	1.11				12100	1230	1.15				3	6135	- 59	B-102	B-118	B-137							
			16000	1630	1.35				16000	1630	1.35				3	6140	- 59	B-102	B-118	B-137							
			16000	1630	1.45				16000	1630	1.66				3	6145	- 59	B-102	B-118	B-137							
			22100	2250	2.01				22100	2250	2.01				3	6160	- 59	B-103	B-119	B-138							
20.4	977	99.6	22100	2250	2.59	24.6	810	82.5	22100	2250	2.61	3	6165	- 59	B-103	B-119	B-138										
			13500	1380	0.92				12800	1300	0.98				3	6135	- 71	B-102	B-118	B-137							
			16000	1630	1.10				16000	1630	1.10				3	6140	- 71	B-102	B-118	B-137							
			16000	1630	1.19				16000	1630	1.38				3	6145	- 71	B-102	B-118	B-137							
			22100	2250	1.58				22100	2250	1.58				3	6160	- 71	B-103	B-119	B-138							
			22100	2250	2.15				22100	2250	2.57				3	6165	- 71	B-103	B-119	B-138							
16.7	1200	122	16000	1630	0.98	20.1	992	101	16000	1630	1.13	3	6145	- 87	B-102	B-118	B-137										
			22100	2250	1.46				22100	2250	1.58				3	6160	- 87	B-103	B-119	B-138							
			22100	2250	1.71				22100	2250	1.77				3	6165	- 87	B-103	B-119	B-138							
			780	79.5	14700				1500	*1	16.8				1120	115	780	79.5	14700	1500	*1	3	6130DC	- 104	B-109	B-125	B-144
			940	95.8	14700				1500	*1							940	95.8	14700	1500	*1	3	6135DC	- 104	B-109	B-125	B-144
			16000	1630	1.01				16000	1630							1.22	3	6145DC	- 104	B-109	B-125	B-144				
22100	2250	1.29	22100	2250	1.53	3	6160DB	- 104	B-110	B-126		B-145															
22100	2250	1.29	22100	2250	1.56	3	6160DC	- 104	B-111	B-127		B-146															
22100	2250	1.53	22100	2250	1.53	3	6165DB	- 104	B-110	B-126		B-145															
13.9	1360	138	22100	2250	1.55	16.8	1120	115	22100	2250	1.87	3	6165DC	- 104	B-111	B-127	B-146										
			29500	3010	1.86				29400	3000	2.25				3	6170DC	- 104	B-111	B-127	B-146							
			29500	3010	2.32				29400	3000	2.80				3	6175DC	- 104	B-111	B-127	B-146							
			41300	4210	2.99				38800	3960	3.61				3	6180DB	- 104	B-111	B-127	B-146							

1. Combinations in **bold** are the recommended models for operations for 10 hours/day with uniform load (service factor is about 1.0 for motor rating at 50Hz).
2. Motor slippage may affect n₁ and n₂. Refer to technical data for details.
3. CNHM, CHHM, CNFM, CHF, CNVM, and CVVM indicate types. Refer to page B-10 for details.
4. Lubrication method is different for each model. Refer to "Lubrication" section in page F-4~F-5 for details.
5. "6" at the end of "input capacity symbol" indicates models with 6P motor. Other models come with 4P motor.

Selection Tables Gearmotors #CNHM3, #CHHM3, #CNVM3, #CVVM3



CHHM/CNHM CHF/CNFM CVVM/CNVM

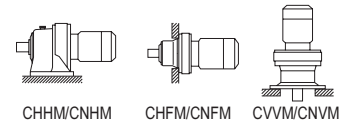
2.2 kW	Hz		50Hz		60Hz	
	P		4	6	4	6
	n ₁	r/min	1450	980	1750	1165

n₁: Motor Speed

50Hz					60Hz					Nomenclature			Page of Dimension Sheet				
Output Speed n ₂	Output Torque Tout		Allowable Radial Load Pro		SF	Output Speed n ₂	Output Torque Tout		Allowable Radial Load Pro		SF	Input Capacity Symbol	Frame Size	Reduction Ratio	CNHM	CNFM	CNVM
r/min	N·m	kgf·m	N	kgf		r/min	N·m	kgf·m	N	kgf					CNHM	CHFM	CVVM
12.0	940	95.8	14700	1500	*1	14.5	940	95.8	14700	1500	*1	3 - 6135DC	- 121	B-109	B-125	B-144	
	1230	125	16000	1630	*1		1230	125	16000	1630	*1	3 - 6140DC	- 121	B-109	B-125	B-144	
	1290	132	16000	1630	*1		1290	132	16000	1630	*1	3 - 6145DC	- 121	B-109	B-125	B-144	
			15300	1560	0.82					16000	1630	0.98	3 - 6145DC	- 121	B-109	B-125	B-144
			22100	2250	1.11					22100	2250	1.34	3 - 6160DB	- 121	B-110	B-126	B-145
			22100	2250	1.11					22100	2250	1.34	3 - 6160DC	- 121	B-111	B-127	B-146
			22100	2250	1.33					22100	2250	1.53	3 - 6165DB	- 121	B-110	B-126	B-145
	1580	161	22100	2250	1.33		1310	133	22100	2250	1.61	3 - 6165DC	- 121	B-111	B-127	B-146	
			29500	3010	1.53					29500	3010	1.53	3 - 6170DB	- 121	B-110	B-126	B-145
			29500	3010	1.60					29500	3010	1.94	3 - 6170DC	- 121	B-111	B-127	B-146
		29500	3010	2.00				29500	3010	2.41	3 - 6175DC	- 121	B-111	B-127	B-146		
		41700	4250	2.57				41300	4210	3.11	3 - 6180DB	- 121	B-111	B-127	B-146		
10.1	1230	125	16000	1630	*1	12.2	1230	125	16000	1630	*1	3 - 6140DC	- 143	B-109	B-125	B-144	
	1370	140	15900	1620	*1		1370	140	15900	1620	*1	3 - 6145DC	- 143	B-109	B-125	B-144	
			22100	2250	1.13					22100	2250	1.36	3 - 6165DB	- 143	B-110	B-126	B-145
			29500	3010	1.35					29500	3010	1.53	3 - 6170DB	- 143	B-110	B-126	B-145
			29500	3010	1.35					29500	3010	1.64	3 - 6170DC	- 143	B-111	B-127	B-146
			29500	3010	1.53					29500	3010	1.53	3 - 6175DB	- 143	B-110	B-126	B-145
	1860	190	29500	3010	1.69		1550	158	29500	3010	2.04	3 - 6175DC	- 143	B-111	B-127	B-146	
			41700	4250	2.18					41700	4250	2.63	3 - 6180DB	- 143	B-111	B-127	B-146
		41700	4250	2.63				41700	4250	3.17	3 - 6185DB	- 143	B-111	B-127	B-146		
		59000	6010	2.84				59000	6010	2.84	3 - 6190DA	- 143	B-111	B-128	B-147		
8.79	1230	125	16000	1630	*1	10.6	1230	125	16000	1630	*1	3 - 6140DC	- 165	B-109	B-125	B-144	
	1360	138	16000	1630	*1		1360	138	16000	1630	*1	3 - 6145DC	- 165	B-109	B-125	B-144	
	1760	179	22100	2250	*1		1760	179	22100	2250	*1	3 - 6160DB	- 165	B-110	B-126	B-145	
			22100	2250	0.98					22100	2250	1.18	3 - 6165DB	- 165	B-110	B-126	B-145
			29500	3010	1.18					29500	3010	1.42	3 - 6170DB	- 165	B-110	B-126	B-145
			29500	3010	1.46					29500	3010	1.53	3 - 6175DB	- 165	B-110	B-126	B-145
			29500	3010	1.46					29500	3010	1.77	3 - 6175DC	- 165	B-111	B-127	B-146
	2150	219	41700	4250	1.53		1780	182	41700	4250	1.53	3 - 6180DA	- 165	B-110	B-126	B-145	
			41700	4250	1.89					41700	4250	2.28	3 - 6180DB	- 165	B-111	B-127	B-146
			41700	4250	2.29					41700	4250	2.76	3 - 6185DB	- 165	B-111	B-127	B-146
		59000	6010	2.84				59000	6010	2.84	3 - 6190DA	- 165	B-111	B-128	B-147		
		59000	6010	2.97				59000	6010	3.58	3 - 6190DB	- 165	B-112	B-128	B-147		
7.44	1760	179	22100	2250	*1	8.97	1760	179	22100	2250	*1	3 - 6160DB	- 195	B-110	B-126	B-145	
	2100	214	22100	2250	*1		2100	214	22100	2250	*1	3 - 6165DB	- 195	B-110	B-126	B-145	
			22100	2250	0.83					22100	2250	1.00	3 - 6165DB	- 195	B-110	B-126	B-145
			29500	3010	0.98					29500	3010	1.20	3 - 6170DB	- 195	B-110	B-126	B-145
			29500	3010	1.24					29500	3010	1.50	3 - 6175DB	- 195	B-110	B-126	B-145
			41700	4250	1.53					41700	4250	1.53	3 - 6180DA	- 195	B-110	B-126	B-145
			41700	4250	1.60					41700	4250	1.93	3 - 6180DB	- 195	B-111	B-127	B-146
	2540	259	41700	4250	1.94		2110	215	41700	4250	2.34	3 - 6185DB	- 195	B-111	B-127	B-146	
			59000	6010	2.51					59000	6010	2.84	3 - 6190DA	- 195	B-111	B-128	B-147
			59000	6010	2.51					59000	6010	3.03	3 - 6190DB	- 195	B-112	B-128	B-147
			59000	6010	2.56					59000	6010	2.84	3 - 6195DA	- 195	B-111	B-128	B-147
			84100	8570	2.84					84100	8570	2.84	3 - 6205DA	- 195	B-112	B-129	B-148

- "*2" indicate models manufactured with reducer and motor separately mounted on a common baseplate (horizontal shaft direction) or on an adaptor (vertical shaft direction). Consult us for details, including dimensions.
- Allowable radial load (Pro) is the value at the midpoint of the slow speed shaft.
- "*3" indicate models with reduction ratios equal to nominal ratio. Refer to Table A-3 "6000SK Series (Actual Reduction Ratio)" on page A-4 for actual reduction ratio. Indicated reduction ratio is the same as actual reduction ratio for other models.
- Maintain torque load during operation within "Output torque" in the table for models with "*1" in the SF column. They cannot be operated with 100% motor rating.

Selection Tables Gearmotors #CNHM3, #CHHM3, #CNVM3, #CVVM3



2.2 kW	Hz		50Hz		60Hz	
	P		4	6	4	6
	n ₁	r/min	1450	980	1750	1165

50Hz						60Hz						Nomenclature			Page of Dimension Sheet						
Output Speed n ₂	Output Torque Tout	Allowable Radial Load Pro		SF		Output Speed n ₂	Output Torque Tout	Allowable Radial Load Pro		SF		Input Capacity Symbol	Frame Size	Reduction Ratio	CNHM	CNFM	CNVM				
r/min	N·m	kgf·m	N	kgf		r/min	N·m	kgf·m	N	kgf					CHHM	CHFM	CVVM				
6.28	1760	179	22100	2250	*1	7.58	1760	179	22100	2250	*1	3 -	6160DB	- 231	B-110	B-126	B-145				
			2100	2250	*1				2100	2250	*1				6165DB	- 231	B-110	B-126	B-145		
	3010	307	29500	3010	1.05		29500	3010	1.26	3 -	6175DB		- 231	B-110	B-126	B-145					
			41700	4250	1.34		41700	4250	1.53	3 -	6180DA		- 231	B-110	B-126	B-145					
			41700	4250	1.34		41700	4250	1.62	3 -	6180DB		- 231	B-111	B-127	B-146					
			41700	4250	1.53		41700	4250	1.53	3 -	6185DA		- 231	B-110	B-126	B-145					
			41700	4250	1.66		2500	254	41700	4250	2.00		3 -	6185DB	- 231	B-111	B-127	B-146			
			59000	6010	2.12		59000	6010	2.56	3 -	6190DA		- 231	B-111	B-128	B-147					
			59000	6010	2.64		59000	6010	2.84	3 -	6195DA		- 231	B-111	B-128	B-147					
			59000	6010	2.64		59000	6010	3.19	3 -	6195DB		- 231	B-112	B-128	B-147					
5.31	2100	214	22100	2250	*1	6.41	2100	214	22100	2250	*1	3 -	6165DB	- 273	B-110	B-126	B-145				
			2530	29500	3010				*1	2530	29500				3010	*1	6170DB	- 273	B-110	B-126	B-145
	3560	363	29500	3010	0.88		29500	3010	1.07	3 -	6175DB		- 273	B-110	B-126	B-145					
			41700	4250	1.14		41700	4250	1.37	3 -	6180DA		- 273	B-110	B-126	B-145					
			41700	4250	1.40		41700	4250	1.53	3 -	6185DA		- 273	B-110	B-126	B-145					
			41700	4250	1.40		2950	301	41700	4250	1.70		3 -	6185DB	- 273	B-111	B-127	B-146			
			59000	6010	1.79		59000	6010	2.16	3 -	6190DA		- 273	B-111	B-128	B-147					
			59000	6010	2.24		59000	6010	2.70	3 -	6195DA		- 273	B-111	B-128	B-147					
			84100	8570	2.35		84100	8570	2.66	3 -	6205DA		- 273	B-112	B-129	B-148					
			84100	8570	2.61		84100	8570	3.14	3 -	6205DB		- 273	B-112	B-129	B-148					
4.55	2530	258	29500	3010	*1	5.49	2530	258	29500	3010	*1	3 -	6170DB	- 319	B-110	B-126	B-145				
			3150	29500	3010				*1	3150	29500				3010	*1	6175DB	- 319	B-110	B-126	B-145
	4160	424	41700	4250	1.20		41700	4250	1.45	3 -	6185DA		- 319	B-110	B-126	B-145					
			59000	6010	1.53		59000	6010	1.85	3 -	6190DA		- 319	B-111	B-128	B-147					
			59000	6010	1.91		3450	351	59000	6010	2.31		3 -	6195DA	- 319	B-111	B-128	B-147			
			84100	8570	1.94		84100	8570	2.20	3 -	6205DA		- 319	B-112	B-129	B-148					
			84100	8570	2.22		84100	8570	2.68	3 -	6205DB		- 319	B-112	B-129	B-148					
			3150	321	29500		3010	*1	4.64	3150	321		29500	3010	*1	3 -	6175DB	- 377	B-110	B-126	B-145
			4050	413	41700		4250	*1					4050	413	41700				4250	*1	6180DA
			4920	501	41700		4250	1.02		41700	4250		1.23	3 -	6185DA		- 377	B-110	B-126	B-145	
59000	6010	1.30			59000	6010	1.57	3 -		6190DA	- 377	B-111	B-128	B-147							
59000	6010	1.62			4070	415	59000	6010		1.95	3 -	6195DA	- 377	B-111	B-128		B-147				
84100	8570	1.74			84100	8570	1.97	3 -		6205DA	- 377	B-112	B-129	B-148							
84100	8570	1.88			84100	8570	2.27	3 -		6205DB	- 377	B-112	B-129	B-148							
104000	10600	2.57			104000	10600	3.11	3 -		6215DA	- 377	B-112	B-129	B-148							
4060	414	41700			4250	*1	3.70	4060		414	41700	4250	*1	3 -	6180DA		- 473	B-110	B-126	B-145	
5000	41700	4250			*1	5000					41700	4250	*1					6185DA	- 473	B-110	B-126
6170	629	41700	4250	0.81	41700	4250		0.98	3 -	6185DA	- 473	B-110	B-126		B-145						
		59000	6010	1.03	59000	6010		1.25	3 -	6190DA	- 473	B-111	B-128		B-147						
		59000	6010	1.29	59000	6010		1.56	3 -	6195DA	- 473	B-111	B-128		B-147						
		84100	8570	1.34	5110	521		84100	8570	1.52	3 -	6205DA	- 473		B-112	B-129	B-148				
		84100	8570	1.51	84100	8570		1.82	3 -	6205DB	- 473	B-112	B-129		B-148						
		104000	10600	2.05	104000	10600		2.48	3 -	6215DA	- 473	B-112	B-129		B-148						
		145000	14800	2.59	145000	14800		3.13	3 -	6225DA	- 473	B-113	B-130		B-149						
		5000	510	41700	4250	*1		3.13	5000	510	41700	4250	*1		3 -	6185DA	- 559	B-110	B-126	B-145	
59000	6010	1.09	59000	6010	1.32	3 -	6195DA				- 559	B-111	B-128	B-147							
7290	743	84100	8570	1.20	84100	8570	1.36		3 -	6205DA	- 559	B-112	B-129	B-148							
		84100	8570	1.28	84100	8570	1.54		3 -	6205DB	- 559	B-112	B-129	B-148							
		104000	10600	1.74	6040	616	104000		10600	2.09	3 -	6215DA	- 559	B-112		B-129	B-148				
		145000	14800	2.19	145000	14800	2.65		3 -	6225DA	- 559	B-113	B-130	B-149							
		179000	18200	2.81	179000	18200	3.39		3 -	6235DA	- 559	B-114	B-131	B-150							

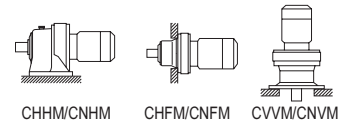
1. Combinations in **bold** are the recommended models for operations for 10 hours/day with uniform load (service factor is about 1.0 for motor rating at 50Hz).
2. Motor slippage may affect n₁ and n₂. Refer to technical data for details.
3. CNHM, CHHM, CNFM, CHFM, CNVM, and CVVM indicate types. Refer to page B-10 for details.
4. Lubrication method is different for each model. Refer to "Lubrication" section in page F-4~F-5 for details.
5. "6" at the end of "input capacity symbol" indicates models with 6P motor. Other models come with 4P motor.

Selection Tables Gearmotors #CNHM3, #CHHM3, #CNVM3, #CVVM3

GEARMOTORS

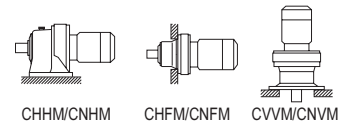
Selection Tables
2.2 kW, 3.0 kW

2.2 kW	Hz		50Hz		60Hz	
	P		4	6	4	6
	n ₁	r/min	1450	980	1750	1165



50Hz					60Hz					Nomenclature			Page of Dimension Sheet				
Output Speed n ₂	Output Torque Tout		Allowable Radial Load Pro		SF	Output Speed n ₂	Output Torque Tout		Allowable Radial Load Pro		SF	Input Capacity Symbol	Frame Size	Reduction Ratio	CNHM	CNFM	CNVM
r/min	N·m	kgf·m	N	kgf		r/min	N·m	kgf·m	N	kgf					B-114	B-131	B-150
0.192	17200	1750	179000	18200	*1	0.231	17200	1750	179000	18200	*1	3 -	6235DA	- 7569	B-114	B-131	B-150
	22600	2310	208000	21200	*1		22600	2310	208000	21200	*1	3 -	6245DA	- 7569	B-114	B-131	B-150

3.0 kW	Hz		50Hz		60Hz	
	P		4	6	4	6
	n ₁	r/min	1450	980	1750	1165



50Hz					60Hz					Nomenclature			Page of Dimension Sheet				
Output Speed n ₂	Output Torque Tout		Alloeeable Radial Load Pro		SF	Output Speed n ₂	Output Torque Tout		Alloeeable Radial Load Pro		SF	Input Capacity Symbol	Frame Size	Reduction Ratio	CNHM	CNFM	CNVM
r/min	N·m	kgf·m	N	kgf		r/min	N·m	kgf·m	N	kgf					B-99	B-117	B-136
580	46.9	4.78	1930	197	1.06	700	38.9	3.96	1870	191	1.06	4 -	6100SK	- 2.5 *3	B-99	-	B-134
			1930	197	1.25				1870	191	1.25	4 -	6105SK	- 2.5 *3	B-99	-	B-134
			2700	275	1.72				2570	262	1.72	4 -	6110SK	- 2.5 *3	B-99	-	B-134
			2700	275	2.15				2570	262	2.15	4 -	6115SK	- 2.5 *3	B-99	-	B-134
483	56.3	5.74	1980	202	1.10	583	46.7	4.76	1920	196	1.10	4 -	6100SK	- 3 *3	B-99	-	B-134
			1980	202	1.29				1920	196	1.29	4 -	6105SK	- 3 *3	B-99	-	B-134
			2850	291	1.76				2730	278	1.76	4 -	6110SK	- 3 *3	B-99	-	B-134
			2850	291	2.20				2730	278	2.20	4 -	6115SK	- 3 *3	B-99	-	B-134
363	75.1	7.65	2130	217	1.07	583	62.2	6.34	2080	212	1.07	4 -	6100SK	- 4 *3	B-99	-	B-134
			2130	217	1.26				2080	212	1.26	4 -	6105SK	- 4 *3	B-99	-	B-134
			3040	310	1.78				2900	296	1.78	4 -	6110SK	- 4 *3	B-99	-	B-134
			3040	310	2.23				2900	296	2.23	4 -	6115SK	- 4 *3	B-99	-	B-134
290	93.9	9.57	2210	225	1.23	350	77.8	7.93	2160	220	1.23	4 -	6105SK	- 5 *3	B-99	-	B-134
			3180	324	1.54				3040	310	1.26	4 -	6110SK	- 5 *3	B-99	-	B-134
			3180	324	1.92				3040	310	1.78	4 -	6115SK	- 5 *3	B-99	-	B-134
242	113	11.5	2190	223	1.05	292	93.3	9.51	2160	220	1.05	4 -	6105SK	- 6 *3	B-99	-	B-134
			3330	339	1.41				3210	327	1.41	4 -	6110SK	- 6 *3	B-99	-	B-134
			3330	339	1.76				3210	327	1.76	4 -	6115SK	- 6 *3	B-99	-	B-134
			4610	470	1.18				4340	443	1.18	4 -	6110	- 6	B-101	B-117	B-136
			4610	470	1.31				4340	443	1.31	4 -	6115	- 6	B-101	B-117	B-136
181	150	15.3	5230	534	1.69	219	124	12.7	4930	502	1.69	4 -	6120	- 6	B-101	B-117	B-136
			5230	534	2.32				4930	502	1.94	4 -	6125	- 6	B-101	B-117	B-136
			2170	221	0.83				2190	223	0.83	4 -	6105SK	- 8 *3	B-99	-	B-134
			3470	354	1.23				3370	344	1.23	4 -	6110SK	- 8 *3	B-99	-	B-134
			3470	354	1.54				3370	344	1.54	4 -	6115SK	- 8 *3	B-99	-	B-134
145	188	19.1	5130	523	1.18	175	156	15.9	4830	493	1.18	4 -	6110	- 8	B-101	B-117	B-136
			5130	523	1.31				4830	493	1.31	4 -	6115	- 8	B-101	B-117	B-136
			5830	595	1.69				5490	560	1.69	4 -	6120	- 8	B-101	B-117	B-136
			5830	595	2.32				5490	560	2.32	4 -	6125	- 8	B-101	B-117	B-136
132	206	21.0	3650	372	1.02	159	171	17.4	3550	362	1.02	4 -	6110SK	- 10 *3	B-99	-	B-134
			3650	372	1.27				3550	362	1.27	4 -	6115SK	- 10 *3	B-99	-	B-134
			5840	595	1.18				5510	561	1.18	4 -	6110	- 11	B-101	B-117	B-136
			5840	595	1.31				5510	561	1.31	4 -	6115	- 11	B-101	B-117	B-136
			6620	675	1.69				6240	636	1.69	4 -	6120	- 11	B-101	B-117	B-136
			6620	675	1.97				6240	636	1.97	4 -	6125	- 11	B-101	B-117	B-136

1. Combinations in **bold** are the recommended models for operations for 10 hours/day with uniform load (service factor is about 1.0 for motor rating at 50Hz).
2. Motor slippage may affect n₁ and n₂. Refer to technical data for details.
3. CNHM, CHHM, CNFM, CHFM, CNVM, and CVVM indicate types. Refer to page B-10 for details.
4. Lubrication method is different for each model. Refer to "Lubrication" section in page F-4~F-5 for details.
5. "6" at the end of "input capacity symbol" indicates models with 6P motor. Other models come with 4P motor.