

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

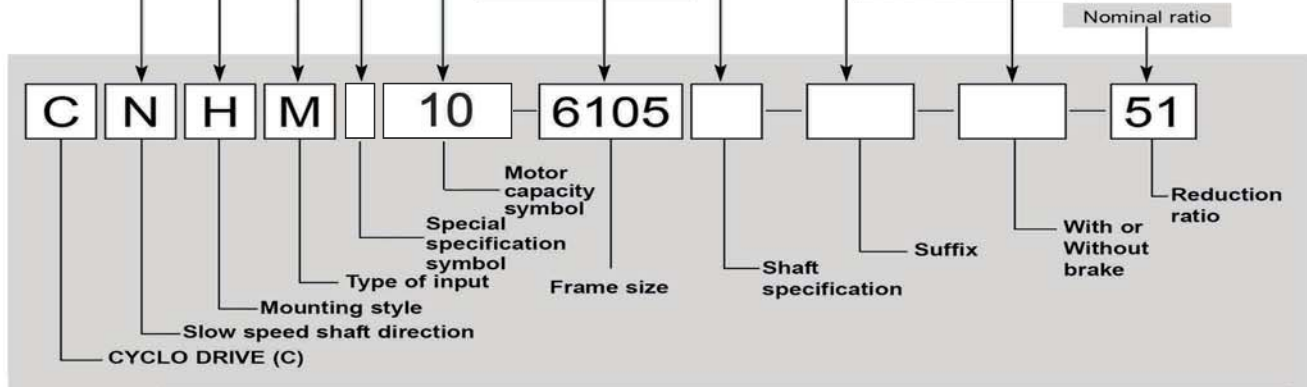
		Motor Capacity Symbol						
4P	Capacity symbol	01	02	03	05	08	1	
	kW (HP)	0.1 (1/8)	0.2 (1/4)	0.25 (1/3)	0.4 (1/2)	0.55 (3/4)	0.75 (1)	
	Capacity symbol	1H	2	3	4	5	8	
	kW (HP)	1.1 (1.5)	1.5 (2)	2.2 (3)	3.0 (4)	3.7 (5)	5.5 (7.5)	
	Capacity symbol	10	15	20	25	30	40	
	kW (HP)	7.5 (10)	11 (15)	15 (20)	18.5 (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.)

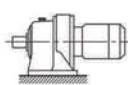


Product and Nomenclature Symbol Examples (Gearmotor)

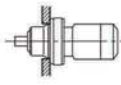
Standard and various application products of CYCLO GEARMOTOR are classified by their nomenclature symbol as below. Refer to specific catalogs or consult us for details on our application products.

CYCLO® GEARMOTORS

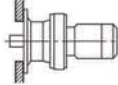
CHHM
(CNHM)



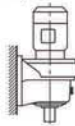
CHFM
(CNFM)



CHVM
(CNVM)



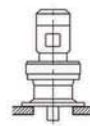
CVHM
(CNHM)



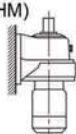
CVFM
(CNFM)



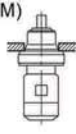
CVVM
(CNVM)



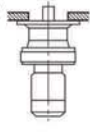
CWHM
(CNHM)



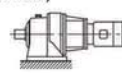
CWFM
(CNFM)



CWVM
(CNVM)

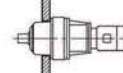


CHHJM
(CNHJM)



With Adaptor

CHFJM
(CNFJM)



With Adaptor

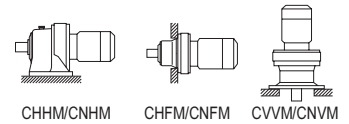
CVVJM
(CNVJM)



With Adaptor

Selection Tables Gearmotors #CNHM10, #CHHM10, #CNVM10, #CVVM10

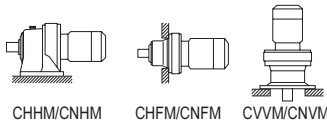
7.5 kW	Hz		50Hz		60Hz	
	P		4	6	4	6
	n ₁	r/min	1450	980	1750	1165



50Hz					60Hz					Nomenclature			Page of Dimension Sheet			
Output Speed n ₂ r/min	Output Torque Tout N·m	kgf·m	Allowable Radial Load Pro N	SF	Output Speed n ₂ r/min	Output Torque Tout N·m	kgf·m	Allowable Radial Load Pro N	SF	Input Capacity Symbol	Frame Size	Reduction Ratio	CNHM CHHM	CNFM CHFM	CNVM CVVM	
242	282	28.7	5980	610	1.25	292	233	23.8	5650	576	1.25	10 - 6130 - 6	B-102	B-118	B-137	
			5980	610	1.51				5650	576	1.51		10 - 6135 - 6	B-102	B-118	B-137
			9330	951	2.01				8830	901	1.73		10 - 6140 - 6	B-102	B-118	B-137
			10400	1070	2.71				8830	901	2.01		10 - 6145 - 6	B-102	B-118	B-137
181	375	38.3	6650	678	1.25	219	311	31.7	6290	641	1.25	10 - 6130 - 8	B-102	B-118	B-137	
			6650	678	1.51				6290	641	1.51		10 - 6135 - 8	B-102	B-118	B-137
			10300	1050	2.01				9790	998	1.73		10 - 6140 - 8	B-102	B-118	B-137
			10300	1050	2.01				9790	998	2.01		10 - 6145 - 8	B-102	B-118	B-137
132	516	52.6	7570	771	1.25	159	428	43.6	7150	729	1.25	10 - 6130 - 11	B-102	B-118	B-137	
			7570	771	1.51				7150	729	1.51		10 - 6135 - 11	B-102	B-118	B-137
			11600	1180	1.73				11000	1120	1.73		10 - 6140 - 11	B-102	B-118	B-137
			11600	1180	2.01				11000	1120	2.01		10 - 6145 - 11	B-102	B-118	B-137
112	610	62.2	7860	801	1.25	135	505	51.5	7430	758	1.25	10 - 6130 - 13	B-102	B-118	B-137	
			7860	801	1.36				7430	758	1.51		10 - 6135 - 13	B-102	B-118	B-137
			11800	1210	1.73				11200	1140	1.73		10 - 6140 - 13	B-102	B-118	B-137
			11800	1210	2.01				11200	1140	2.01		10 - 6145 - 13	B-102	B-118	B-137
96.7	704	71.8	8000	815	1.04	117	583	59.5	7570	771	1.04	10 - 6130 - 15	B-102	B-118	B-137	
			8000	815	1.20				7570	771	1.20		10 - 6135 - 15	B-102	B-118	B-137
			12400	1260	1.60				11700	1200	1.60		10 - 6140 - 15	B-102	B-118	B-137
			12400	1260	1.93				11700	1200	2.01		10 - 6145 - 15	B-102	B-118	B-137
85.3	798	81.3	8550	872	1.11	103	661	67.4	8100	826	1.11	10 - 6135 - 17	B-102	B-118	B-137	
			12900	1320	1.35				12200	1250	1.35		10 - 6140 - 17	B-102	B-118	B-137
			12900	1320	1.60				12200	1250	1.60		10 - 6145 - 17	B-102	B-118	B-137
			15100	1540	1.75				14300	1450	1.75		10 - 6160 - 17	B-103	B-119	B-138
69.0	985	100	13800	1410	1.15	83.3	817	83.2	13100	1330	1.15	10 - 6140 - 21	B-102	B-118	B-137	
			13800	1410	1.27				13100	1330	1.47		10 - 6145 - 21	B-102	B-118	B-137
			16200	1650	1.72				15300	1560	1.72		10 - 6160 - 21	B-103	B-119	B-138
			16200	1650	2.13				15300	1560	2.15		10 - 6165 - 21	B-103	B-119	B-138
58.0	1170	120	14400	1470	1.05	70.0	972	99.1	13700	1390	1.05	10 - 6145 - 25	B-102	B-118	B-137	
			16900	1720	1.31				15900	1630	1.31		10 - 6160 - 25	B-103	B-119	B-138
			16900	1720	1.79				15900	1630	2.01		10 - 6165 - 25	B-103	B-119	B-138
			19100	1940	2.08				18000	1830	2.11		10 - 6170 - 25	B-103	B-119	B-138
50.0	1360	139	14700	1500	1.00	60.3	1130	115	14000	1420	1.00	10 - 6145 - 29	B-102	B-118	B-137	
			17600	1790	1.27				16600	1690	1.40		10 - 6160 - 29	B-103	B-119	B-138
			17600	1790	1.52				16600	1690	1.52		10 - 6165 - 29	B-103	B-119	B-138
			20100	2050	1.80				18900	1930	1.91		10 - 6170 - 29	B-103	B-119	B-138
41.4	1640	167	18600	1890	1.07	50.0	1360	139	17500	1790	1.29	10 - 6160 - 35	B-103	B-119	B-138	
			18600	1890	1.28				17500	1790	1.52		10 - 6165 - 35	B-103	B-119	B-138
			21200	2160	1.49				20000	2040	1.60		10 - 6170 - 35	B-103	B-119	B-138
			21200	2160	1.92				20000	2040	2.01		10 - 6175 - 35	B-103	B-119	B-138
			28600	2920	2.47				26900	2750	2.51	10 - 6180 - 35	B-104	B-120	B-139	

- 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).
- Motor slippage may affect n₁ and n₂. Refer to technical data for details.
- CNHM, CHHM, CNFM, CHFM, CNVM, and CVVM indicate types. Refer to page B-10 for details.
- Lubrication method is different for each model. Refer to "Lubrication" section in page F-4~F-5 for details.
- "6" at the end of "input capacity symbol" indicates models with 6P motor. Other models come with 4P motor.

Selection Tables Gearmotors #CNHM10, #CHHM10, #CNVM10, #CVVM10



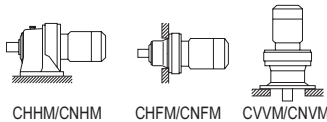
7.5 kW	Hz		50Hz		60Hz	
	P		4	6	4	6
	n ₁	r/min	1450	980	1750	1165

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					
33.7	2020	206	19700	2010	1.04	40.7	1670	170	18600	1900	1.05	10 -	6165	- 43	B-103	B-119	B-138								
			22500	2300	1.21				21300	2170	1.30	10 -	6170	- 43	B-103	B-119	B-138								
			22500	2300	1.51				21300	2170	1.51	10 -	6175	- 43	B-103	B-119	B-138								
			30700	3130	2.01				28900	2950	2.01	10 -	6180	- 43	B-104	B-120	B-139								
			30700	3130	2.48				28900	2950	2.51	10 -	6185	- 43	B-104	B-120	B-139								
28.4	2390	244	42800	4370	2.79	34.3	1980	202	40300	4110	2.79	10 -	6190	- 43	B-104	B-120	B-139								
			20400	2080	0.88				19300	1970	1.00	10 -	6165	- 51	B-103	B-119	B-138								
			23400	2390	1.02				22100	2250	1.12	10 -	6170	- 51	B-103	B-119	B-138								
			23400	2390	1.32				22100	2250	1.51	10 -	6175	- 51	B-103	B-119	B-138								
			31700	3230	1.60				29900	3050	1.60	10 -	6180	- 51	B-104	B-120	B-139								
24.6	2770	282	31700	3230	2.01	29.7	2290	234	29900	3050	2.01	10 -	6185	- 51	B-104	B-120	B-139								
			44800	4560	2.43				42100	4290	2.43	10 -	6190	- 51	B-104	B-120	B-139								
			44800	4560	2.79				42100	4290	2.79	10 -	6195	- 51	B-104	B-120	B-139								
			24400	2490	1.11				23100	2360	1.11	10 -	6175	- 59	B-103	B-119	B-138								
			33100	3380	1.30				31200	3180	1.30	10 -	6180	- 59	B-104	B-120	B-139								
20.4	3330	340	33100	3380	1.60	24.6	2290	234	31200	3180	1.60	10 -	6185	- 59	B-104	B-120	B-139								
			46800	4770	2.04				44000	4490	2.04	10 -	6190	- 59	B-104	B-120	B-139								
			46800	4770	2.51				44000	4490	2.51	10 -	6195	- 59	B-104	B-120	B-139								
			25700	2620	0.93				24300	2480	0.95	10 -	6175	- 71	B-103	B-119	B-138								
			35100	3580	1.17				33100	3380	1.17	10 -	6180	- 71	B-104	B-120	B-139								
16.7	4080	416	49600	5050	1.80	24.6	2760	281	33100	3380	1.31	10 -	6185	- 71	B-104	B-120	B-139								
			49600	5050	2.08				46700	4760	1.80	10 -	6190	- 71	B-104	B-120	B-139								
			46700	4760	2.08				46700	4760	2.08	10 -	6195	- 71	B-104	B-120	B-139								
			37700	3840	1.15				35600	3620	1.15	10 -	6185	- 87	B-104	B-120	B-139								
			53300	5430	1.56				50200	5120	1.57	10 -	6190	- 87	B-104	B-120	B-139								
13.9	4620	471	53300	5430	1.81	20.1	3380	345	50200	5120	1.81	10 -	6195	- 87	B-104	B-120	B-139								
			4000	4080	1.06				37800	3850	1.28	10 -	6185DB	- 104	B-111	B-127	B-146								
			56400	5750	1.38				53200	5420	1.59	10 -	6190DB	- 104	B-112	B-128	B-147								
			56400	5750	1.59				53200	5420	1.59	10 -	6195DB	- 104	B-112	B-128	B-147								
			4060	414	41700				4250	*1	14.5	4060	414	40300	4100	*1	10 -	6180DB	- 121	B-111	B-127	B-146			
41700	4250	0.89	40100	4090	1.08	10 -	6185DB	- 121	B-111	B-127				B-146											
59000	6010	1.19	56600	5770	1.43	10 -	6190DB	- 121	B-112	B-128				B-147											
59000	6010	1.41	56600	5770	1.59	10 -	6195DB	- 121	B-112	B-128				B-147											
84100	8570	1.59	84100	8570	1.59	10 -	6205DB	- 121	B-112	B-129				B-148											
10.1	4900	500	104000	10600	2.12	12.0	5380	548	102000	10400	2.55	10 -	6215DB	- 121	B-113	B-130	B-149								
			115000	11700	2.50				109000	11100	3.02	10 -	6225DB	- 121	B-113	B-130	B-149								
			4060	414	41700				4250	*1	12.2	4900	500	41700	4250	*1	10 -	6180DB	- 143	B-111	B-127	B-146			
			4900	500	41700				4250	*1				41700	4250	*1	10 -	6185DB	- 143	B-111	B-127	B-146			
			58700	5980	1.00				58800	5990				1.21	10 -	6190DB	- 143	B-112	B-128	B-147					
58700	5980	1.20	58800	5990	1.45	10 -	6195DB	- 143	B-112	B-128				B-147											
4920	502	41700	4250	*1	10.6	4920	502	41700	4250	*1				10 -	6185DB	- 165	B-111	B-127	B-146						
58500	5960	1.08	59000	6010				1.30	10 -	6195DB	- 165	B-112	B-128	B-147											
84100	8570	1.26	84100	8570				1.53	10 -	6205DB	- 165	B-112	B-129	B-148											
104000	10600	1.59	104000	10600				1.59	10 -	6215DA	- 165	B-112	B-129	B-148											
104000	10600	1.66	104000	10600				2.00	10 -	6215DB	- 165	B-113	B-130	B-149											
8.79	7340	748	124000	12600	1.97	10.6	6080	620	117000	12000	2.38	10 -	6225DB	- 165	B-113	B-130	B-149								
			154000	15700	2.67				146000	14800	3.23	10 -	6235DA	- 165	B-114	B-131	B-150								

- "*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 #CNHM10, #CHHM10, #CNVM10, #CVVM10



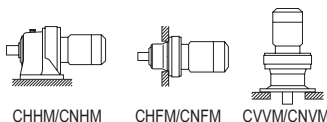
CHHM/CNHM CHF/CNFM CVVM/CNVM

7.5 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					CHHM	CHF	CVVM	
1.72	25800	2630	208000	21200	*1	2.08	25800	2630	208000	21200	*1	10 -	6245DA	- 841	B-114	B-131	B-150	
			258000	26300	0.87					258000	26300	1.05	10 -	6255DA	- 841	B-115	B-132	B-151
	37400	3810	276000	28100	1.23			31000	3160	276000	28100	1.48	10 -	6265DA	- 841	B-115	B-132	B-151
			248000	25300	1.82					248000	25300	2.20	10 -	6275DA	- 841	B-115	-	B-151
1.45	34500	3520	258000	26300	*1	1.74	34500	3520	258000	26300	*1	10 -	6255DA	- 1003	B-115	B-132	B-151	
	44600	4550	276000	28100	1.03			36900	3770	276000	28100	1.25	10 -	6265DA	- 1003	B-115	B-132	B-151
		248000	25300	1.53				248000	25300	1.85	10 -	6275DA	- 1003	B-115	-	B-151		
1.16	34500	3520	258000	26300	*1	1.40	34500	3520	258000	26300	*1	10 -	6255DA	- 1247	B-115	B-132	B-151	
	46000	4690	276000	28100	*1			46000	4690	276000	28100	*1	10 -	6265DA	- 1247	B-115	B-132	B-151
			276000	28100	0.83			45900	4680	276000	28100	1.00	10 -	6265DA	- 1247	B-115	B-132	B-151
	55400	5650	248000	25300	1.23			45900	4680	248000	25300	1.48	10 -	6275DA	- 1247	B-115	-	B-151
0.980	44000	4490	276000	28100	*1	1.18	44000	4490	276000	28100	*1	10 -	6265DA	- 1479	B-115	B-132	B-151	
	65800	6700	247000	25200	1.04			54500	5550	248000	25300	1.25	10 -	6275DA	- 1479	B-115	-	B-151
0.784	82200	8380	248000	25300	0.83	0.946	68100	6940	248000	25300	1.00	10 -	6275DA	- 1849	B-115	-	B-151	
0.702	68200	6950	248000	25300	*1	0.847	68200	6950	248000	25300	*1	10 -	6275DA	- 2065	B-115	-	B-151	
0.572	68200	6950	248000	25300	*1	0.690	68200	6950	248000	25300	*1	10 -	6275DA	- 2537	B-115	-	B-151	
0.476	68200	6950	245000	25000	*1	0.575	68200	6950	245000	25000	*1	10 -	6275DA	- 3045	B-115	-	B-151	
0.417	68200	6950	248000	25300	*1	0.503	68200	6950	248000	25300	*1	10 -	6275DA	- 3481	B-115	-	B-151	
0.327	68200	6950	245000	25000	*1	0.394	68200	6950	245000	25000	*1	10 -	6275DA	- 4437	B-115	-	B-151	
0.282	68200	6950	245000	25000	*1	0.341	68200	6950	245000	25000	*1	10 -	6275DA	- 5133	B-115	-	B-151	
0.235	68200	6950	245000	25000	*1	0.283	68200	6950	245000	25000	*1	10 -	6275DA	- 6177	B-115	-	B-151	
0.192	68200	6950	245000	25000	*1	0.231	68200	6950	245000	25000	*1	10 -	6275DA	- 7569	B-115	-	B-151	

GEARMOTORS

Selection Tables
7.5 kW, 11 kW

CHHM/CNHM CHF/CNFM CVVM/CNVM

11 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		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	CHF	CVVM	
242	413	42.1	5840	595	1.03	292	342	34.9	5540	564	1.03	15 -	6135	- 6	B-102	B-118	B-137	
			9270	945	1.18					8780	895	1.18	15 -	6140	- 6	B-102	B-118	B-137
			9270	945	1.37					8780	895	1.37	15 -	6145	- 6	B-102	B-118	B-137
			10400	1060	1.85					9760	995	1.85	15 -	6160	- 6	B-103	B-119	B-138
			10400	1060	2.19					9760	995	2.19	15 -	6165	- 6	B-103	B-119	B-138
			11700	1190	2.51					11000	1120	2.51	15 -	6170	- 6	B-103	B-119	B-138
		11700	1190	2.74				11000	1120	2.74	15 -	6175	- 6	B-103	B-119	B-138		
181	551	56.1	6480	661	1.03	219	456	46.5	6150	627	1.03	15 -	6135	- 8	B-102	B-118	B-137	
			10300	1050	1.18					9730	992	1.18	15 -	6140	- 8	B-102	B-118	B-137
			10300	1050	1.37					9730	992	1.37	15 -	6145	- 8	B-102	B-118	B-137
			11600	1180	1.79					10900	1110	1.79	15 -	6160	- 8	B-103	B-119	B-138
			11600	1180	2.19					10900	1110	2.19	15 -	6165	- 8	B-103	B-119	B-138
			12900	1320	2.51					12200	1240	2.51	15 -	6170	- 8	B-103	B-119	B-138
		12900	1320	2.74				12200	1240	2.74	15 -	6175	- 8	B-103	B-119	B-138		

- "*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.