

Sumitomo Drive Technologies
Always on the Move

ALTAX[®] NEO



No. C2015E-2

Introducing ALTAX[®] NEO

ALTAX NEO Series, a new addition to the ALTAX line of gearmotors that have established a strong reputation since its launch in 1993.

While maintaining the compactness of the ALTAX_α series, ALTAX NEO has adopted the both-side supported mechanism that holds the cycloid disc, the core component of Cyclo Speed Reducer, from both sides. The models with a brake also feature a low-noise brake.

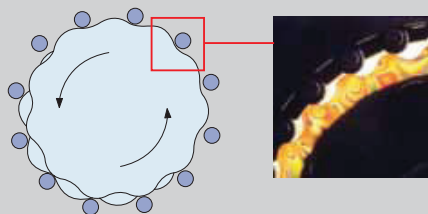
The series caters to a broad range of applications as a compact and low-noise gearmotor.



CYCLO[®] Speed Reducer

Unlike an involute-tooth gear, Cyclo Speed Reducer is an internal planetary-gearing reducer that features the cycloid disc, which has a unique smooth tooth profile (epitrochoidal parallel curve).

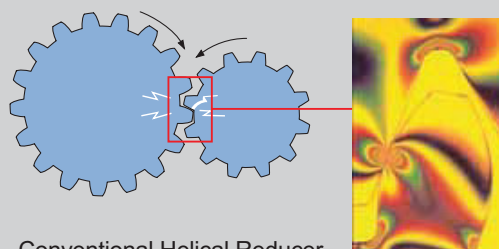
The internal gear also has teeth of a distinctive circular-arc profile, which enables smooth rotation. The reducer mechanism is made of Chromium bearing steel, which offers excellent abrasion resistance and fatigue resistance.



CYCLO[®] SPEED REDUCER

All torque transmitting parts roll, not grind.

The gear tooth profile of the Cyclo[®] reducer enables the sharing of the load by a number of teeth, thus not susceptible to tooth breakage.



Conventional Helical Reducer

Involute gears allow for small tooth engagement rate.

Torque transmitting parts grind, wear, and can break off with the sliding contact.

1. Low Noise

Both-Side Supported Mechanism^{*1}

Supporting the cycloid disc and other reducer mechanism from both sides

Traction Drive^{*2}

Quiet operation without noise from teeth meshing

High Tooth-Count and High Tooth Contact

Significantly increased number of teeth mesh simultaneously

Low Noise Brake^{*3}

Low-noise brake is now the standard instead of being optional.

^{*1}: Models with frame sizes which do not end with "R" or "S."

^{*2}: Models with frame sizes ending with "R" or "S."

^{*3}: Excluding 90W and 2.2kW inverter motors.

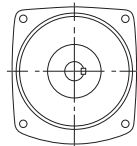
2. Compactness

Compact Design

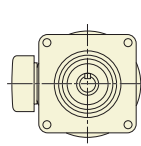
Major installation dimensions are compatible with ALTAX α models, which is reputed for their compactness.

Smallest Flange in the Industry

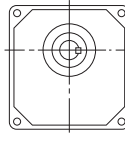
ALTAX NEO has a concentric shaft structure unlike a regular gearmotor. This is to achieve the industry's smallest flange size. The flange and the motor is concentric for a compact design.



Company A



ALTAX



Company B

3. Usability

Universal Mounting Direction

There are no limits in installation direction for all models. Users have the freedom of design to suit application.

Maintenance-Free

All models are grease-lubricated, eliminating the need for maintenance for a long time. Our unit are shipped with grease packed for immediate use.

4. Wide Variety

ALTAX NEO offers a wide variation of motors. Users can choose an exact unit to match their needs. They also comply to standards in various countries.

Three-phase motor
Single-phase motor
Motor for inverter
Motor with brake
High-efficiency motor

Outdoor motor
Increased safety type motor
Special voltage motor
Overseas specifications motor



CSA Standard



EC Directive

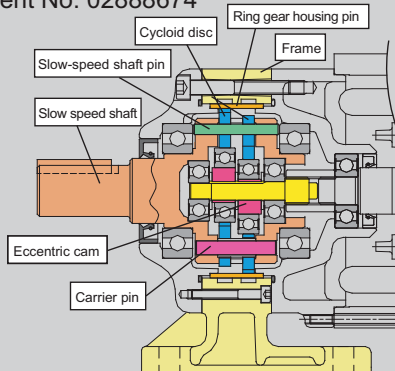


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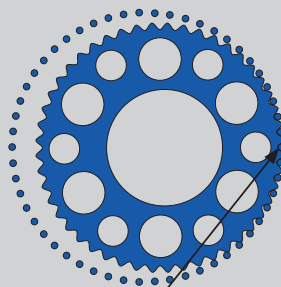
Both-Side Supported Structure

Patent No. 02888674



High Tooth-Count and High Tooth Contact Gear

Patent No. 02639847



Large number of teeth come in contact simultaneously

Traction Drive

Patent Pending



The models with the frame size ending with "R" or "S" use traction drive for the planetary mechanism.

Noise Reduction

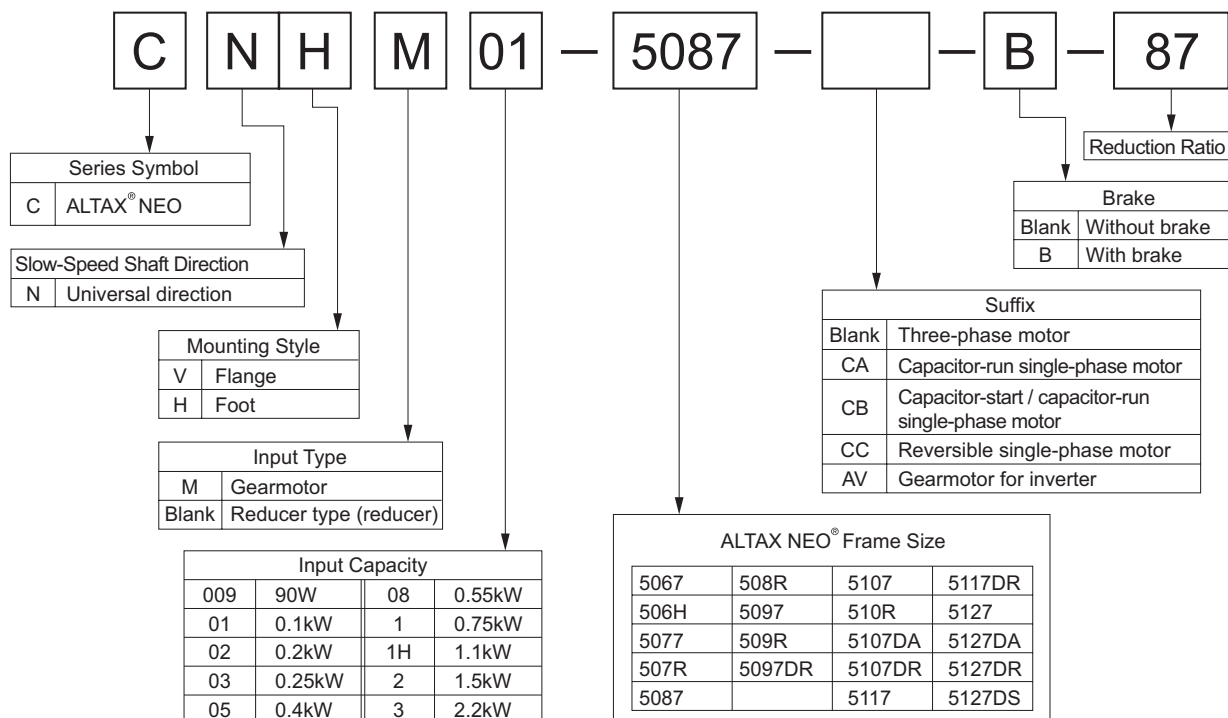
The Mechanism enables quieter operation than regular gearmotors without contact noise. (Up to 5dB (A) lower than our gearmotors of the equivalent size)

Nomenclature / List of Models

Nomenclature

Make sure to specify the applicable nomenclature, voltage, and frequency when ordering or inquiring. Also specify when the required model is: outdoor type, light dust proof type, increased safety type (eG3), water proof type (IP65), terminal box/terminal platform type or type for overseas standards.

Nomenclature for ALTAX NEO



List of Models

Three-Phase Motor

Frame size

Motor Capacity	3	5	6	8	11	13	15	17	21	25	29	35	43	51	59	71	87	103	119	145	175	215	255	295	355	435	559	649	731	841	1003
90W																															
0.1kW	507R																														
0.2kW	507R																														
0.25kW	507R																														
0.4kW	507R																														
0.55kW	508R																														
0.75kW	508R																														
1.1kW	509R																														
1.5kW	509R																														
2.2kW	510R																														

*At the motor capacity of 0.55kW and 0.75kW, the reduction ratio 1/103 changes to 1/105 and 1/119 changes to 1/125.

Single-Phase Motor

Frame size

Motor Capacity	3	5	6	8	11	13	15	17	21	25	29	35	43	51	59	71	87	103	119	145	175	215	255	295	355	435	559	649	731	841	1003
90W																															
0.1kW	507R																														
0.2kW	507R																														
0.4kW	508R																														

Three-Phase Motor for Inverter

Frame size

Motor Capacity	3	5	6	8	11	13	15	17	21	25	29	35	43	51	59	71	87	103	119	145	175	215	255	295	355	435	559	649	731	841	1003
0.1kW	507R																														
0.2kW	507R																														
0.4kW	508R																														
0.75kW	509R																														
1.5kW	509R																														
2.2kW	510R																														

*At the motor capacity of 0.75kW, the reduction ratio 1/103 changes to 1/105 and 1/119 changes to 1/125.

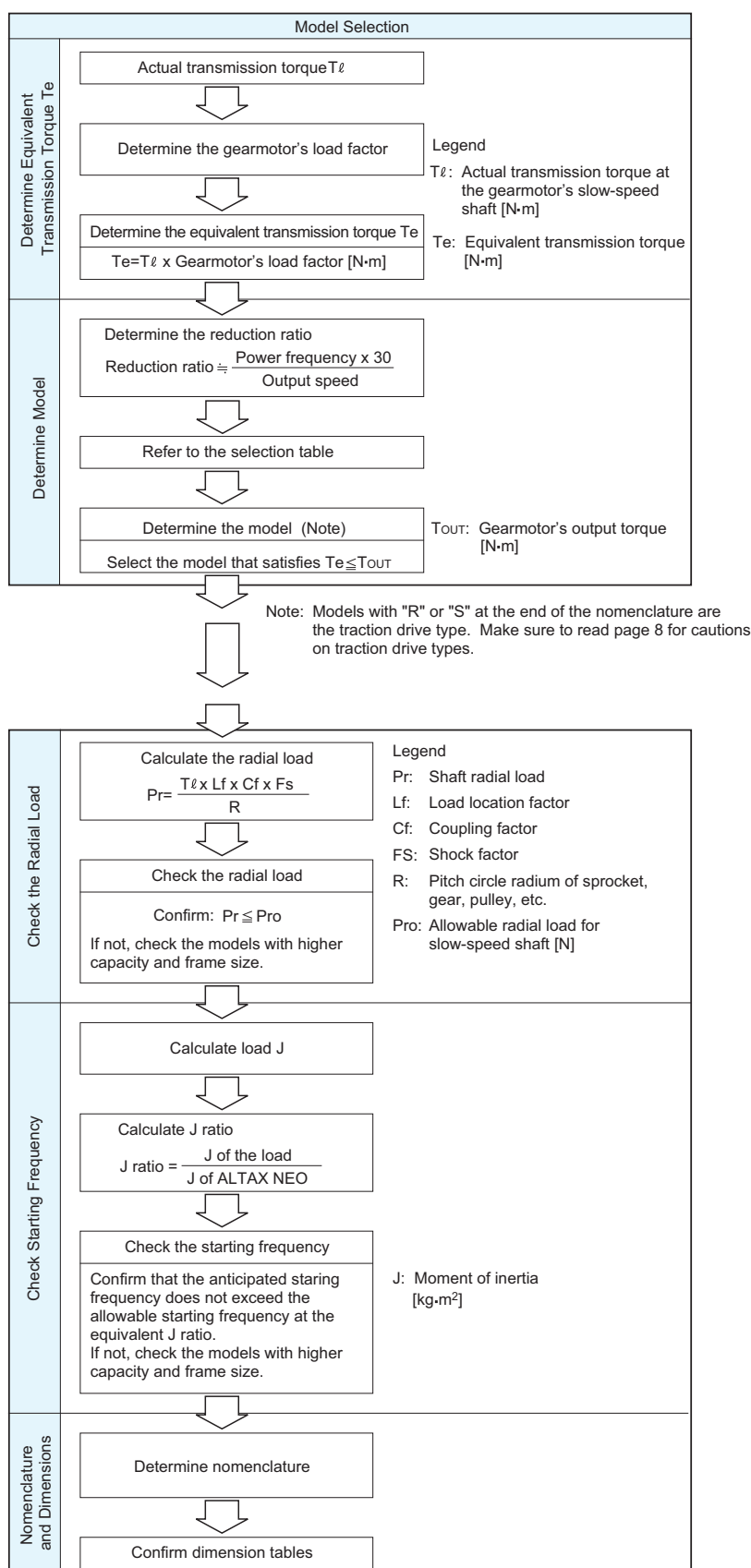
Standard Specifications

ALTAX NEO Three-Phase / Single-Phase Gearmotor

	Type	Item	Standard Specification	Standard Specification with Built-in Brake
Motor Part	Three-Phase Motor	Capacity Range	Note: 90W - 2.2kW, 4-pole	Note: 90W - 2.2kW, 4-pole RB, FB brake (non-asbestos lining)
		Enclosure	IP44 (indoor), totally-enclosed fan-cooled type (The 90W and 0.1kW models are the totally-closed self-cooled type)	IP44 (indoor), totally-enclosed fan-cooled type (The 90W and 0.1kW models are the totally-closed self-cooled type)
		Power Source	Three-rated power sources 200V 50/60Hz, 220V 60Hz or 400V 50/60Hz, 440V 60Hz	Three-rated power source 200V 50/60Hz, 220V 60Hz or 400V 50/60Hz, 440V 60Hz
		Insulation	90W - 0.4kW 4-pole: E 0.55 - 2.2kW 4-pole: B	90W - 0.4kW 4-pole: E (B for brake) 0.55 - 2.2kW 4-pole: B (B for brake)
		Time Rating	Continuous rating	Continuous rating
		Starting System	Direct connection	Direct connection
		Leading Wiring (Lug Type)	90W - 2.2kW 4-pole: 3 cables	90W - 2.2kW 4-pole: 5 cables
		Standard	JIS compliant	JIS compliant
	Single-Phase Motor		Induction	Induction
		Capacity Range	Note: 90W - 0.4 kW, 4-pole	Note: 90W - 0.4 kW, 4-pole RB, FB brake (non-asbestos lining)
		Enclosure	IP44 (indoor), totally-enclosed fan-cooled type	IP44 (indoor), totally-enclosed fan-cooled type
		Power Source	100V, 200V 50/60Hz (dual voltage) 100V 50/60Hz for 90W	100V, 200V 50/60Hz (dual voltage) 100V 50/60Hz for 90W
		Insulation	90W 4-pole: E 0.1 - 0.4kW 4-pole: B	90W 4-pole: E (B for the brake) 0.1 - 0.4kW 4-pole: B (B for the brake)
		Time Rating	Continuous rating	Continuous rating
		Starting System	90W 4-pole: Capacitor-run 0.1 - 0.4kW 4 pole: Capacitor-start / Capacitor-run	90W 4-pole: Capacitor-run 0.1 - 0.4kW 4 pole: Capacitor-start / Capacitor-run
		Leading Wiring (Lug Type)	90W 4-pole: 3 cables 0.1 - 0.4kW 4-pole: 6 cables	90W 4-pole: 5 cables 0.1 - 0.4kW 4-pole: 8 cables
		Standard	JIS compliant	JIS compliant
	Motor for Inverter	Capacity Range	Note: 0.1 - 2.2kW, 4-pole	Note: 0.1 - 2.2kW, 4-pole FB brake (non-asbestos lining)
		Enclosure	IP44 (indoor), totally-enclosed fan-cooled type	IP44 (indoor), totally-enclosed fan-cooled type
		Power Source	200V 60Hz, 220V 60Hz	200V 60Hz, 220V 60Hz
		Insulation	B (6 - 60Hz fixed torque)	B (B for the brake)
		Time Rating	Continuous rating (6 - 60Hz fixed torque)	Continuous rating (6 - 60Hz fixed torque)
		Leading Wiring (Lug Type)	0.1 - 2.2kW 4-pole: 3 cables	0.1 - 2.2kW 4-pole: 5 cables
		Standard	JIS compliant	JIS compliant
Gear Part	Lubrication Method	Grease lubricated (filled with grease at factory shipment)		
	Material	Casing: Aluminum alloy (Cast iron for the frame size 5117, 5117DR, 5127, 5127DA, 5127DR, and 5127DS)		
Ambient Conditions	Installation Location	Indoor (minimal dust and humidity)		
	Ambient Temperature	-10 ~ +40°C		
	Ambient Humidity	Nomore than 85% with no condensation		
	Altitude	No more than 1,000m		
	Atmosphere	Well-ventilated location, free of corrosive gas, explosive gas, vapors, and dust		
Installation Angle		Universal (No restriction)		
Painting		Paint type: Acrylic urethane Paint color: (Munsell 5Y8/1 or equivalent)		

Note: ASTERO Gearmotor is used for the parallel shaft of three-phase or single-phase motor up to 60W (6 - 60W).
Refer to the specific catalog for details.

Model Selection



ALTAX NEO gearmotor is designed for 10 hours operation per day with uniform load.

1. Gearmotor's Load Factor

Table 1

Daily Duty Load Condition	Up to 10 Hours per Day	10 - 24 Hours per Day	Main Applications
Uniform Load	1	1.2	Conveyor (uniform load), pump (centrifugal), food processing machine (rice milling machine, can filling machine), elevator (uniform load), plastic molding machine, agitator (liquid), bar screen
Light Shock Load	1.2	1.35	Conveyor (heavy duty, not uniformly fed), food processing machine (beet slicer, dough mixer, meat grinder), elevator (heavy load), agitator (liquids & solids, liquids variable density), feeder (belt, apron, screw), thickener, flocculator, general tools (for main shaft)
Heavy Shock Load	1.5	1.6	Punching press, tapping machine, crusher mill, hoist (heavy load), barking drum, log haul, cutter, plater

2. Shaft Radial Load

When attaching ALTAX NEO gearmotor to a chain wheel or pulley, make sure of the radial load of the shaft. The radial load must be smaller than the allowable radial load for slow-speed shaft. Calculate radial load by the following formula.

$$\text{Shaft radial load } Pr = \frac{T_l \times L_f \times C_f \times F_s}{R} [\text{N}]$$

T_l : Actual transmission torque at ALTAX NEO's slow-speed shaft [N·m]

L_f : Load location factor

C_f : Coupling factor

F_s : Shock factor

R : Pitch circle radius of sprocket, gear, pulley, etc. [m]

Table 2: Load Location Factor L_f

Load Location	L_f
Shaft Base	0.8
Shaft Center	1.0
Shaft End	1.4

Table 3: Coupling Factor C_f

Coupling Method	C_f
Chain	1
Gear	1.25
V-belt	1.5

Table 4: Shock Factor F_s

Degree of Shock	F_s
Practically No Shock	1
Light Shock	1~1.2
Severe Shock	1.4~1.6

3. Allowable Starting Frequency

Large load moment of inertia generates a large torque momentarily at the time of starting (or when stopping for models with brake). Keep the starting frequency within the allowable range as shown below. It is determined according to the coupling method and the size of inertia involved. Also check the motor's allowable thermal capacity on page 7.

Table 5: Allowable Starting Frequency

J: Moment of Inertia

Coupling with the Load	J ratio $\left(\frac{\text{Motor-shaft Equivalent Load } J}{\text{Motor Equivalent ALTAX NEO } J} \right)$	Allowable Starting Frequency
Direct Coupling with No Play	2 1.5 0.6 and smaller	5 times per hour Once per minute 10 times per minute
Chain Coupling with Play	1 0.75 0.4 and smaller	5 times per hour Once per minute 7 times per minute

Note: For a short period of time, the gearmotor may be used at more than the allowable frequency. Consult us for confirmation.

Reference for Model Selection

Table 6: Motor's Allowable Thermal Capacity (C x Z)

Motor Output [kW]	Allowable C x Z				Motor's Moment of Inertia [kg·m ²]		Motor GD ² [kgf·m ²]	
	(Up to 35%ED)	(Over 35%ED - up to 50%ED)	(Over 50%ED - up to 80%ED)	(Over 80%ED - up to 100%ED)	Standard	With Brake	Standard	With Brake
0.1	3200	3000	2000	1200	0.00033	0.00035	0.0013	0.0014
0.2	2200	2800	2800	2500	0.00050	0.00055	0.002	0.0022
0.25	2200	2800	2800	2500	0.00050	0.00055	0.002	0.0022
0.4	1800	2200	1500	1500	0.00065	0.00068	0.0026	0.0027
0.55	1800	2200	1500	1500	0.00101	0.00111	0.00405	0.00445
0.75	1400	1400	800	500	0.00120	0.00130	0.0048	0.0052
1.1	1400	1400	800	500	0.00185	0.00208	0.0074	0.0083
1.5	1200	1200	500	400	0.00213	0.00235	0.0085	0.0094
2.2	1000	900	400	200	0.00333	0.00373	0.0133	0.0149
3.0	1000	900	400	200	0.00700	0.00810	0.0281	0.0325
3.7	800	800	800	700	0.00848	0.00958	0.0339	0.0383
5.5	300	300	200	150	0.01143	0.01253	0.0457	0.0501

Calculate C x Z by below steps (1)-(3). The value must be less than allowable C x Z listed in Table 6.

(1) Calculate C using formula below.

$$\text{SI units } C = \frac{J_M + J_L}{J_M}$$

$$\text{Gravitational units } C = \frac{GD_M^2 + GD_L^2}{GD_M^2}$$

J_M: Moment of inertia of motor [kg·m²]

GD_M²: GD² of motor [kgf·m²]

J_L: Total moment of inertia (excluding motor) at motor shaft [kg·m²]

GD_L²: Total GD² (excluding motor) at motor shaft [kgf·m²]

(2) Calculate Z (number of starting times/hour)

(a) Operating period consists of "operation time t_a [sec]" and "stop time t_b [sec]." Motor is started with speed n_r [times/cycle] in this period.

$$Z_r = \frac{3600n_r}{t_a + t_b} \quad [\text{times/hr}]$$

(b) Be careful inching [times/cycle] per each cycle (t_a + t_b). Make sure to convert inching per hour (Z_i) into number of starting per hour.

$$Z_i = \frac{3600n_i}{t_a + t_b} \quad [\text{times/hr}]$$

(c) Calculate Z [times/hr] from (a) and (b).

$$Z = Z_r + \frac{1}{2} Z_i = \frac{3600}{t_a + t_b} \cdot \left(n_r + \frac{1}{2} n_i \right) \quad [\text{times/hr}]$$

(3) Calculate C multiplied by Z.

Use the C obtained in step (1) and Z in step (2).

(4) Obtain the duty cycle %ED. Check with table above.

$$\%ED = \frac{t_a}{t_a + t_b} \times 100$$

Notes for Selecting a Traction Model

Notes for Selecting a Traction Model

The models that have "R" or "S" at the end of the frame size (for example, 507R, 5107DR, and 5127DS) are traction-drive models. They are suitable for normal applications, but consult us for confirmation for the following applications:

(1) Load and Application

Consult us for applications involving particularly severe impact load (crushers, breakers, high-speed cutting machines) or variable load (crank/cam motions).

(2) Applications Requiring High-Precision Positioning

Actual reduction ratio of traction-drive models fluctuates slightly, depending to the operation and load condition.

Actual reduction ratio = Nominal reduction ratio x (0.997 to 1.003)

Consult us for applications requiring high-precision positioning (for example, printers, labelers, automation devices, and elevators).

Be especially careful when combining the both support type (gear without motor) with a servo motor.

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM) 90W Three-Phase Motor

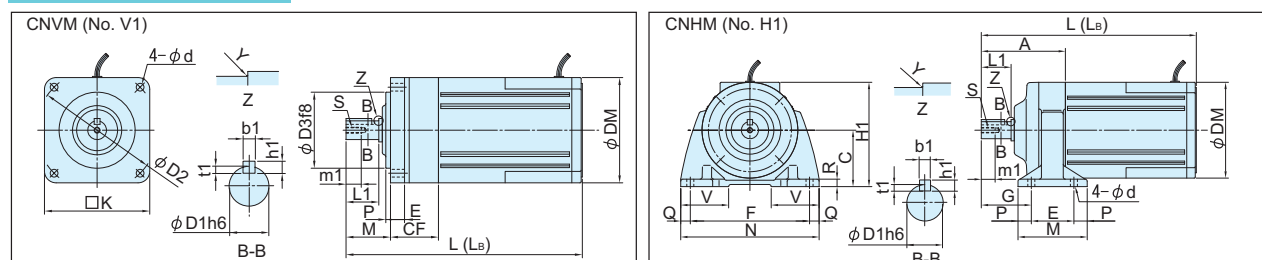
Selection Tables

Reduction Ratio	Output Speed r/min		Input Capacity Symbol	Frame Size	Reduction Ratio	Output Torque Tout				Allowable Radial Load Pro				Dimension Table No.	
	50Hz	60Hz				N·m		kg·m		N		kgf		CNVM	CNHM
	50Hz	60Hz				50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		
6	242	292	CNVM (Flange Mount) CNHM (Foot Mount)	009 - 5067 (-B) -	6	3.38	2.80	0.344	0.285	540	540	55.0	55.0	V1	H1
8	181	219		009 - 5067 (-B) -	8	4.50	3.73	0.459	0.380	687	687	70.0	70.0		
11	132	159		009 - 5067 (-B) -	11	6.19	5.13	0.631	0.523	687	687	70.0	70.0		
13	112	135		009 - 5067 (-B) -	13	7.32	6.07	0.746	0.618	687	687	70.0	70.0		
15	96.7	117		009 - 5067 (-B) -	15	8.45	7.00	0.861	0.713	883	883	90.0	90.0		
17	85.3	103		009 - 5067 (-B) -	17	9.57	7.93	0.976	0.809	883	883	90.0	90.0		
21	69.0	83.3		009 - 5067 (-B) -	21	11.8	9.80	1.21	0.999	1180	1180	120	120		
25	58.0	70.0		009 - 5067 (-B) -	25	14.1	11.7	1.44	1.19	1180	1180	120	120		
29	50.0	60.3		009 - 5067 (-B) -	29	16.3	13.5	1.66	1.38	1230	1230	125	125		
35	41.4	50.0		009 - 5067 (-B) -	35	19.7	16.3	2.01	1.66	1230	1230	125	125		
43	33.7	40.7		009 - 5067 (-B) -	43	24.2	20.1	2.47	2.05	1230	1230	125	125		
51	28.4	34.3		009 - 5067 (-B) -	51	28.7	23.8	2.93	2.43	1230	1230	125	125		

Note: 1. Output motor speed is the representative value at 1450r/min (50Hz) and 1750r/min (60Hz). Refer to page 31 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Figure in the bracket () shows the dimension for types with brake.
4. Outdoor type, dustproof type with brake, and some type for special power source or overseas specification are combined with motor, capacity 0.1kW, frame size of 506H.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body										Motor		Slow-speed Shaft Unit										Mass
		CF	d	E	L	(Lb)	M	P	D2	D3	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1		kg	
V1	CNVM009-5067(-B)-Reduction Ratio	41	6.6	12	202	261	38	4	104	65	90	-	90	28	13	M5	0.5	16	5	5	3	4	(4.5)	

No.	Model	Main Body															Motor		Slow-speed Shaft Unit										Mass
		A	C	d	E	F	G	H1	L	(L _B)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg		
H1	CNHM009-5067(-B)-Reduction Ratio	79	53	6.6	40	112	47	98	202	261	65	130	12.5	9	7	45	-	90	28	13	M5	0.5	16	5	5	3	4	(4.5)	

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM)
0.2kW Three-Phase Motor

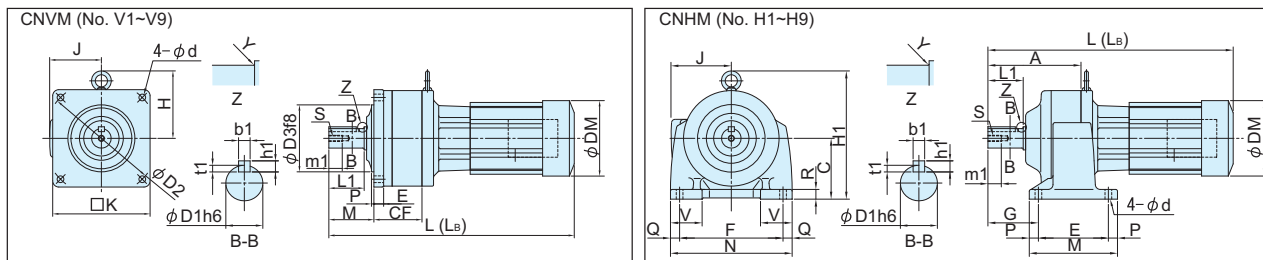
Selection Tables

Reduction Ratio	Output Speed		Input Capacity Symbol	Frame Size	Reduction Ratio	Output Torque Tout				Allowable Radial Load Pro				Dimension Table No.	
	r/min					N·m		kg·m		N		kgf		CNVM	CNHM
	50Hz	60Hz				50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		
Nomenclature details: p. 3															
3	483	583	CNVM (Flange Mount) CNHM (Foot Mount)	02 - 507R	(-B) - 3	3.75	3.11	0.383	0.317	235	235	24.0	24.0	V1	H1
5	290	350		02 - 507R	(-B) - 5	6.26	5.18	0.638	0.528	392	392	40.0	40.0		
6	242	292		02 - 506H	(-B) - 6	7.51	6.22	0.765	0.634	540	540	55.0	55.0	V2	H2
8	181	219		02 - 506H	(-B) - 8	10.0	8.29	1.02	0.846	687	687	70.0	70.0		
11	132	159		02 - 506H	(-B) - 11	13.8	11.4	1.40	1.16	687	687	70.0	70.0		
13	112	135		02 - 506H	(-B) - 13	16.3	13.5	1.66	1.37	687	687	70.0	70.0		
15	96.7	117		02 - 506H	(-B) - 15	18.8	15.6	1.91	1.59	883	883	90.0	90.0	V2	H2
17	85.3	103		02 - 506H	(-B) - 17	21.3	17.6	2.17	1.80	883	883	90.0	90.0		
21	69.0	83.3		02 - 506H	(-B) - 21	26.3	21.8	2.68	2.22	1180	1180	120	120	V3	H3
25	58.0	70.0		02 - 506H	(-B) - 25	31.3	25.9	3.19	2.64	1180	1180	120	120		
29	50.0	60.3		02 - 5077	(-B) - 29	36.3	30.1	3.70	3.07	1670	1670	170	170	V3	H3
35	41.4	50.0		02 - 5077	(-B) - 35	43.8	36.3	4.46	3.70	1670	1670	170	170		
43	33.7	40.7		02 - 5077	(-B) - 43	53.8	44.6	5.49	4.54	1670	1670	170	170	V4	H4
51	28.4	34.3		02 - 5087	(-B) - 51	63.8	52.9	6.51	5.39	2700	2700	275	275		
59	24.6	29.7		02 - 5087	(-B) - 59	73.8	61.2	7.53	6.24	2700	2700	275	275	V5	H5
71	20.4	24.6		02 - 5097	(-B) - 71	88.8	73.6	9.06	7.50	3430	3430	350	350		
87	16.7	20.1		02 - 5097	(-B) - 87	109	90.2	11.1	9.20	3430	3430	350	350		
103	13.8	16.7		02 - 5097	(-B) - 103	124	103	12.7	10.5	3430	3430	350	350		
119	12.2	14.7		02 - 5097	(-B) - 119	149	123	15.2	12.6	3430	3430	350	350	V6	H6
145	10.0	12.1		02 - 5097DR	(-B) - 145	172	142	17.5	14.5	3430	3430	350	350		
175	8.29	10.0		02 - 5097DR	(-B) - 175	207	172	21.1	17.5	3430	3430	350	350	V7	H7
215	6.74	8.14		02 - 5107DR	(-B) - 215	255	211	26.0	21.5	4660	4660	475	475		
255	5.69	6.86		02 - 5107DR	(-B) - 255	302	250	30.8	25.5	4660	4660	475	475		
295	4.92	5.93		02 - 5107DR	(-B) - 295	350	290	35.7	29.5	4660	4660	475	475		
355	4.08	4.93	02 - 5107DR	(-B) - 355	*340	*340	*34.7	*34.7	4660	4660	475	475	V8	H8	
435	3.33	4.02	02 - 5117DR	(-B) - 435	516	427	52.6	43.6	5690	5690	580	580			
559	2.59	3.13	02 - 5127DA	(-B) - 559	663	549	67.6	56.0	7260	7260	740	740	V9	H9	
649	2.23	2.70	02 - 5127DA	(-B) - 649	*762	638	*77.7	65.0	7260	7260	740	740			
731	1.98	2.39	02 - 5127DA	(-B) - 731	*711	*711	*72.5	*72.5	7260	7260	740	740			
841	1.72	2.08	02 - 5127DA	(-B) - 841	*665	*665	*67.8	*67.8	7260	7260	740	740			
1003	1.45	1.74	02 - 5127DA	(-B) - 1003	*762	*762	*77.7	*77.7	7260	7260	740	740			

Note: 1. Output motor speed is the representative value at 1450r/min (50Hz) and 1750r/min (60Hz). Refer to page 31 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Be careful for the models with asterisk, "*" They are models with torque limitation.
4. Figure in the bracket () shows the dimension for types with brake.
5. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body											Motor		Slow-speed Shaft Unit								Mass
		CF	d	E	L	(Lb)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg
V1	CNV02-507R(-B)-Reduction Ratio	28	9	13	256	288	46	4	130	75	-	110	85	124	32	16	M6	0.4	18	6	6	3.5	7 (8.5)
V2	CNV02-506H(-B)-Reduction Ratio	41	6.6	12	254	286	38	4	104	65	-	90	85	124	28	13	M5	0.5	16	5	5	3	6.5 (8)
V3	CNV02-5077(-B)-Reduction Ratio	42	9	13	266	298	46	4	130	75	-	110	85	124	32	16	M6	1	18	6	6	3.5	6.5 (8)
V4	CNV02-5087(-B)-Reduction Ratio	47	9	13	279	299	54	4	130	75	-	110	85	124	40	16	M6	1	22	6	6	3.5	7 (8.5)
V5	CNV02-5097(-B)-Reduction Ratio	63	11	14	322	354	66	4	165	95	-	140	85	124	50	19	M8	2	28	8	7	4	9.5 (11)
V6	CNV02-5097DR(-B)-Reduction Ratio	63	11	14	353	385	66	4	165	95	-	140	85	124	50	19	M8	2	28	8	7	4	10 (12)
V7	CNV02-5107DR(-B)-Reduction Ratio	79	11	16	383	415	74	4	190	110	11	160	85	124	58	22	M10	2	32	10	8	5	14 (15)
V8	CNV02-5117DR(-B)-Reduction Ratio	161	14	18	423	455	86	6	215	130	128	185	85	124	68	22	M10	3	38	10	8	5	24 (25)
V9	CNV02-5127DA(-B)-Reduction Ratio	198	14	20	484	516	93	6	235	150	138	205	85	124	75	28	M12	3	42	12	8	5	33 (34)

No.	Model	Main Body																Motor		Slow-speed Shaft Unit								Mass	
		A	C	d	E	F	G	H1	L	S _L	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b	h1	t1	kg		
H1	CNHM02-507R(-B)-Reduction Ratio	74	71	9	75	120	49	129	256	(288)	99	144	12	12	12	50	85	124	32	16	M6	0.4	18	6	6	3.5	7 (8.5)		
H2	CNHM02-506H(-B)-Reduction Ratio	79	71	6.6	40	112	47	130	254	286	65	130	12.5	9	7	45	85	124	28	13	M5	0.5	16	5	5	3	6.5 (8)		
H3	CNHM02-5077(-B)-Reduction Ratio	88	71	9	75	120	49	129	266	298	99	144	12	12	12	39	85	124	32	16	M6	1	18	6	6	3.5	7 (8.5)		
H4	CNHM02-5087(-B)-Reduction Ratio	101	80	9	75	120	57	138	279	299	99	144	12	12	13	39	85	124	40	16	M6	1	22	6	6	3.5	7.5 (8.5)		
H5	CNHM02-5097(-B)-Reduction Ratio	129	90	11	90	150	75	157	322	354	120	180	15	15	14	44	85	124	50	19	M8	2	28	8	7	4	10 (11)		
H6	CNHM02-5097DR(-B)-Reduction Ratio	129	90	11	90	150	75	157	353	385	120	180	15	15	14	44	85	124	50	19	M8	2	28	8	7	4	10 (11)		
H7	CNHM02-5107DR(-B)-Reduction Ratio	153	100	11	115	170	83	211	383	415	145	200	15	15	16	52	85	124	58	22	M10	2	32	10	8	5	15 (16)		
H8	CNHM02-5117DR(-B)-Reduction Ratio	247	120	14	135	190	92	248	423	455	175	230	20	20	18	60	85	124	68	22	M10	3	38	10	8	5	25 (26)		
H9	CNHM02-5127DA(-B)-Reduction Ratio	291	120	14	150	210	102	258	484	516	190	260	20	25	20	65	85	124	75	28	M12	3	42	12	8	5	35 (36)		

0.25kW Three-Phase Motor

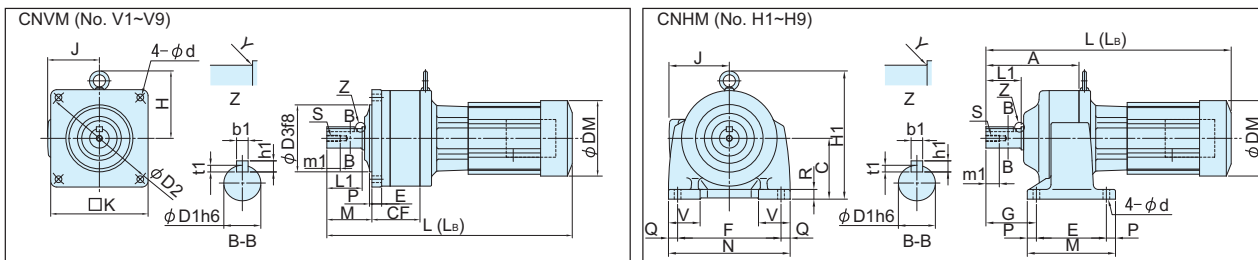
Selection Tables

Reduction Ratio	Output Speed		Input Capacity Symbol	Frame Size	Reduction Ratio	Output Torque Tout				Allowable Radial Load Pro				Dimension Table No.	
	r/min					N·m		kg·m		N		kgf		CNVM	CNHM
	50Hz	60Hz				50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		
Nomenclature details: p. 3															
3	483	583	CNVM (Flange Mount) CNHM (Foot Mount)	03 - 507R (-B) - 3	4.69	3.89	0.478	0.396	235	235	24.0	24.0	V1	H1	
5	290	350		03 - 507R (-B) - 5	7.82	6.48	0.797	0.661	392	392	40.0	40.0			
6	242	292		03 - 5077 (-B) - 6	9.39	7.78	0.957	0.793	687	687	70.0	70.0	V2	H2	
8	181	219		03 - 5077 (-B) - 8	12.5	10.4	1.28	1.06	883	883	90.0	90.0			
11	132	159		03 - 5077 (-B) - 11	17.2	14.3	1.75	1.45	1370	1370	140	140			
13	112	135		03 - 5077 (-B) - 13	20.3	16.8	2.07	1.72	1370	1370	140	140			
15	96.7	117		03 - 5077 (-B) - 15	23.5	19.4	2.39	1.98	1470	1470	150	150			
17	85.3	103		03 - 5077 (-B) - 17	26.6	22.0	2.71	2.25	1470	1470	150	150			
21	69.0	83.3		03 - 5077 (-B) - 21	32.8	27.2	3.35	2.77	1570	1570	160	160	V3	H3	
25	58.0	70.0		03 - 5077 (-B) - 25	39.1	32.4	3.99	3.30	1640	1640	167	167			
29	50.0	60.3		03 - 5077 (-B) - 29	45.4	37.6	4.62	3.83	1670	1670	170	170			
35	41.4	50.0		03 - 5087 (-B) - 35	54.7	45.4	5.58	4.62	2700	2700	275	275			
43	33.7	40.7		03 - 5087 (-B) - 43	67.3	55.7	6.86	5.68	2700	2700	275	275			
51	28.4	34.3		03 - 5087 (-B) - 51	79.8	66.1	8.13	6.74	2700	2700	275	275			
59	24.6	29.7		03 - 5097 (-B) - 59	92.3	76.5	9.41	7.79	3430	3430	350	350	V4	H4	
71	20.4	24.6		03 - 5097 (-B) - 71	111	92.0	11.3	9.38	3430	3430	350	350			
87	16.7	20.1		03 - 5097 (-B) - 87	136	113	13.9	11.5	3430	3430	350	350			
103	13.8	16.7		03 - 5097 (-B) - 103	156	129	15.9	13.1	3430	3430	350	350			
119	12.2	14.7		03 - 5107 (-B) - 119	186	154	19.0	15.7	4660	4660	475	475			
145	10.0	12.1		03 - 5097DR (-B) - 145	215	178	21.9	18.1	3430	3430	350	350			
175	8.29	10.0		03 - 5107DR (-B) - 175	259	215	26.4	21.9	4660	4660	475	475	V7	H7	
215	6.74	8.14		03 - 5107DR (-B) - 215	319	264	32.5	26.9	4660	4660	475	475			
255	5.69	6.86		03 - 5107DR (-B) - 255	*354	313	*36.0	31.9	4660	4660	475	475			
295	4.92	5.93		03 - 5107DR (-B) - 295	*363	362	*37.0	36.9	4660	4660	475	475			
355	4.08	4.93	03 - 5117DR (-B) - 355	526	436	53.6	44.4	5690	5690	580	580	V8	H8		
435	3.33	4.02	03 - 5117DR (-B) - 435	*593	534	*60.4	54.4	5690	5690	580	580				
559	2.59	3.13	03 - 5127DA (-B) - 559	*711	*711	*72.5	*72.5	7260	7260	740	740	V9	H9		
649	2.23	2.70	03 - 5127DA (-B) - 649	*762	*762	*77.7	*77.7	7260	7260	740	740				
731	1.98	2.39	03 - 5127DA (-B) - 731	*711	*711	*72.5	*72.5	7260	7260	740	740				

Note: 1. Output motor speed is the representative value at 1450r/min (50Hz) and 1750r/min (60Hz). Refer to page 31 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Be careful for the models with asterisk, "*" They are models with torque limitation.
4. Figure in the bracket () shows the dimension for types with brake.
5. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body										Motor		Slow-speed Shaft Unit								Mass	
		CF	d	E	L (Lb)	M	P	D2	D3	H	K	J	DM	L2	m1	S	O	Y	D1	b1	h1	t1	kg
V1	CNV0M3-507R-(B)-Reduction Ratio	28	9	13	256	288	46	4	130	75	-	110	85	124	32	16	M6	0.4	18	6	6	3.5	7 (8.5)
V2	CNV0M3-5077-(B)-Reduction Ratio	42	9	13	266	298	46	4	130	75	-	110	85	124	32	16	M6	1	18	6	6	3.5	6.5 (8)
V3	CNV0M3-5087-(B)-Reduction Ratio	47	9	13	279	299	54	4	130	75	-	110	85	124	40	16	M6	1	22	6	6	3.5	7 (8.5)
V4	CNV0M3-5097-(B)-Reduction Ratio	63	11	14	322	354	66	4	165	95	-	140	85	124	50	19	M8	2	28	8	7	4	10 (11)
V5	CNV0M3-5107-(B)-Reduction Ratio	79	11	16	350	382	74	4	190	110	112	160	85	124	58	22	M10	2	32	10	8	5	12 (14)
V6	CNV0M3-507DR-(B)-Reduction Ratio	63	11	14	353	385	66	4	165	95	-	140	85	124	50	19	M8	2	28	8	7	4	10 (12)
V7	CNV0M3-5107DR-(B)-Reduction Ratio	79	11	16	383	415	74	4	190	110	111	160	85	124	58	22	M10	2	32	10	8	5	14 (15)
V8	CNV0M3-5117DR-(B)-Reduction Ratio	161	14	18	423	455	86	6	215	130	128	185	85	124	68	22	M10	3	38	10	8	5	24 (25)
V9	CNV0M3-5127DA-(B)-Reduction Ratio	198	14	20	484	516	93	6	235	150	138	205	85	124	75	28	M12	3	42	12	8	5	33 (34)

No.	Model	Main Body																Motor		Slow-speed Shaft Unit								Mass kg
		A	C	d	E	F	G	H1	L	S	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b	h1	t		
H1	CHHM03-507R-(B)-Reduction Ratio	74	71	9	75	120	49	129	256	(288)	99	144	12	12	12	50	85	124	32	16	M6	0.4	18	6	6	3.5	7 (8.5)	
H2	CHHM03-5077-(B)-Reduction Ratio	88	71	9	75	120	49	129	266	298	99	144	12	12	12	39	85	124	32	16	M6	1	18	6	6	3.5	7 (8.5)	
H3	CHHM03-5087-(B)-Reduction Ratio	101	80	9	75	120	57	138	279	299	99	144	12	12	13	39	85	124	40	16	M6	1	22	6	6	3.5	7.5 (9)	
H4	CHHM03-5097-(B)-Reduction Ratio	129	90	11	90	150	75	157	322	354	120	180	15	15	14	44	85	124	50	19	M8	2	28	8	7	4	10 (12)	
H5	CHHM03-5107-(B)-Reduction Ratio	153	100	11	115	170	83	212	350	382	145	200	15	15	16	52	85	124	58	22	M10	2	32	10	8	5	14 (15)	
H6	CHHM03-5107DR-(B)-Reduction Ratio	129	90	11	90	150	75	157	353	385	120	180	15	15	14	44	85	124	50	19	M8	2	28	8	7	4	11 (12)	
H7	CHHM03-5107DR-(B)-Reduction Ratio	153	100	11	115	170	83	211	383	415	145	200	15	15	16	52	85	124	58	22	M10	2	32	10	8	5	15 (16)	
H8	CHHM03-5117DR-(B)-Reduction Ratio	247	120	14	135	190	95	248	423	455	175	230	20	20	18	60	85	124	68	22	M10	3	38	10	8	5	25 (26)	
H9	CHHM03-5127DA-(B)-Reduction Ratio	291	120	14	150	210	102	258	484	516	190	260	20	25	20	65	85	124	75	28	M12	3	42	12	8	5	35 (37)	

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM) 0.4kW Three-Phase Motor

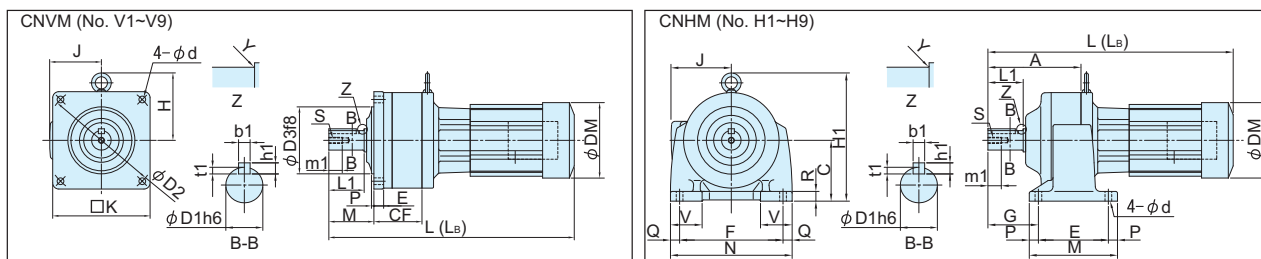
Selection Tables

Reduction Ratio	Output Speed		Input Capacity Symbol	Frame Size	Reduction Ratio	Output Torque Tout				Allowable Radial Load Pro				Dimension Table No.			
	r/min					N·m		kg·m		N		kgf		CNVM	CNHM		
	50Hz	60Hz				50Hz	60Hz	50Hz	60Hz	50Hz	60Hz						
Nomenclature details: p. 3																	
3	483	583	CNVM (Flange Mount) CNHM (Foot Mount)	05	- 507R	(-B)	- 3	7.51	6.22	0.765	0.634	235	235	24.0	24.0	V1	H1
5	290	350		05	- 507R	(-B)	- 5	12.5	10.4	1.28	1.06	392	392	40.0	40.0		
6	242	292		05	- 5077	(-B)	- 6	15.0	12.4	1.53	1.27	687	687	70.0	70.0	V2	H2
8	181	219		05	- 5077	(-B)	- 8	20.0	16.6	2.04	1.69	883	883	90.0	90.0		
11	132	159		05	- 5077	(-B)	- 11	27.5	22.8	2.81	2.33	1370	1370	140	140		
13	112	135		05	- 5077	(-B)	- 13	32.5	27.0	3.32	2.75	1370	1370	140	140		
15	96.7	117		05	- 5077	(-B)	- 15	37.5	31.1	3.83	3.17	1470	1470	150	150	V3	H3
17	85.3	103		05	- 5077	(-B)	- 17	42.5	35.3	4.34	3.59	1470	1470	150	150		
21	69.0	83.3		05	- 5087	(-B)	- 21	52.6	43.5	5.36	4.44	2250	2250	229	229		
25	58.0	70.0		05	- 5087	(-B)	- 25	62.6	51.8	6.38	5.28	2680	2680	273	273		
29	50.0	60.3		05	- 5087	(-B)	- 29	72.6	60.1	7.40	6.13	2700	2700	275	275	V4	H4
35	41.4	50.0		05	- 5087	(-B)	- 35	87.6	72.6	8.93	7.40	2700	2700	275	275		
43	33.7	40.7		05	- 5097	(-B)	- 43	108	89.2	11.0	9.09	3430	3430	350	350		
51	28.4	34.3		05	- 5097	(-B)	- 51	128	106	13.0	10.8	3430	3430	350	350	V5	H5
59	24.6	29.7		05	- 5097	(-B)	- 59	148	122	15.1	12.5	3430	3430	350	350		
71	20.4	24.6		05	- 5107	(-B)	- 71	178	147	18.1	15.0	4660	4660	475	475		
87	16.7	20.1		05	- 5107	(-B)	- 87	218	180	22.2	18.4	4660	4660	475	475	V6	H6
103	13.8	16.7		05	- 5107	(-B)	- 103	249	206	25.4	21.0	4660	4660	475	475		
119	12.2	14.7		05	- 5107	(-B)	- 119	298	247	30.4	25.2	4660	4660	475	475		
145	10.0	12.1		05	- 5107DR	(-B)	- 145	344	285	35.0	29.0	4660	4660	475	475	V7	H7
175	8.29	10.0		05	- 5117DR	(-B)	- 175	415	344	42.3	35.0	5690	5690	580	580		
215	6.74	8.14		05	- 5117DR	(-B)	- 215	510	422	52.0	43.1	5690	5690	580	580		
255	5.69	6.86		05	- 5117DR	(-B)	- 255	*588	501	*59.9	51.1	5690	5690	580	580	V8	H8
295	4.92	5.93		05	- 5127DR	(-B)	- 295	699	580	71.3	59.1	7260	7260	740	740		
355	4.08	4.93		05	- 5127DR	(-B)	- 355	*604	*604	*61.5	*61.5	7260	7260	740	740		
435	3.33	4.02		05	- 5127DR	(-B)	- 435	*774	*774	*78.9	*78.9	7260	7260	740	740	V9	H9
559	2.59	3.13		05	- 5127DA	(-B)	- 559	*711	*711	*72.5	*72.5	7260	7260	740	740		

- Note: 1. Output motor speed is the representative value at 1450r/min (50Hz) and 1750r/min (60Hz). Refer to page 31 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Be careful for the models with asterisk, "*" They are models with torque limitation.
4. Figure in the bracket () shows the dimension for types with brake.
5. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body										Motor		Slow-speed Shaft Unit										Mass	
		CF	d	E	L	(L _B)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg		
V1	CNVM05-507R(-B)-Reduction Ratio	28	9	13	276	308	46	4	130	75	-	110	85	124	32	16	M6	0.4	18	6	6	3.5	8 (9.5)		
V2	CNVM05-5077(-B)-Reduction Ratio	42	9	13	286	318	46	4	130	75	-	110	85	124	32	16	M6	1	18	6	6	3.5	8 (9)		
V3	CNVM05-5087(-B)-Reduction Ratio	47	9	13	299	331	54	4	130	75	-	110	85	124	40	16	M6	1	22	6	6	3.5	8 (9.5)		
V4	CNVM05-5097(-B)-Reduction Ratio	63	11	14	342	374	66	4	165	95	-	140	85	124	50	19	M8	2	28	8	7	4	11 (12)		
V5	CNVM05-5107(-B)-Reduction Ratio	79	11	16	370	402	74	4	190	110	112	160	85	124	58	22	M10	2	32	10	8	5	14 (15)		
V6	CNVM05-5107DR(-B)-Reduction Ratio	79	11	16	403	435	74	4	190	110	111	160	85	124	58	22	M10	2	32	10	8	5	15 (16)		
V7	CNVM05-5117DR(-B)-Reduction Ratio	161	14	18	443	475	86	6	215	130	128	185	85	124	68	22	M10	3	38	10	8	5	25 (26)		
V8	CNVM05-5127DR(-B)-Reduction Ratio	172	14	20	461	493	93	6	235	150	138	205	85	124	75	28	M12	3	42	12	8	5	34 (35)		
V9	CNVM05-5127DA(-B)-Reduction Ratio	198	14	20	504	536	93	6	235	150	138	205	85	124	75	28	M12	3	42	12	8	5	34 (35)		

No.	Model	Main Body										Motor		Slow-speed Shaft Unit										Mass			
		A	C	d	E	F	G	H1	L	(L _B)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg
H1	CHHM05-507R(-B)-Reduction Ratio	74	71	9	75	120	49	129	276	308	99	144	12	12	12	50	85	124	32	16	M6	0.4	18	6	6	3.5	8 (9.5)
H2	CHHM05-5077(-B)-Reduction Ratio	88	71	9	75	120	49	129	286	318	99	144	12	12	12	39	85	124	32	16	M6	1	18	6	6	3.5	8.5 (9.5)
H3	CHHM05-5087(-B)-Reduction Ratio	101	80	9	75	120	57	138	299	331	99	144	12	12	13	39	85	124	40	16	M6	1	22	6	6	3.5	8.5 (10)
H4	CHHM05-5097(-B)-Reduction Ratio	129	90	11	90	150	75	157	342	374	120	180	15	15	14	44	85	124	50	19	M8	2	28	8	7	4	11 (13)
H5	CHHM05-5107(-B)-Reduction Ratio	153	100	11	115	170	83	212	370	402	145	200	15	15	16	52	85	124	58	22	M10	2	32	10	8	5	15 (16)
H6	CHHM05-5107DR(-B)-Reduction Ratio	153	100	11	115	170	83	211	403	435	145	200	15	15	16	52	85	124	58	22	M10	2	32	10	8	5	16 (17)
H7	CHHM05-5117DR(-B)-Reduction Ratio	247	120	14	135	190	95	248	443	475	175	230	20	20	18	60	85	124	68	22	M10	3	38	10	8	5	26 (27)
H8	CHHM05-5127DR(-B)-Reduction Ratio	265	120	14	150	210	102	258	461	493	190	260	20	25	20	65	85	124	75	28	M12	3	42	12	8	5	34 (36)
H9	CHHM05-5127DA(-B)-Reduction Ratio	291	120	14	150	210	102	258	504	536	190	260	20	25	20	65	85	124	75	28	M12	3	42	12	8	5	36 (38)

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM) 0.55kW Three-Phase Motor

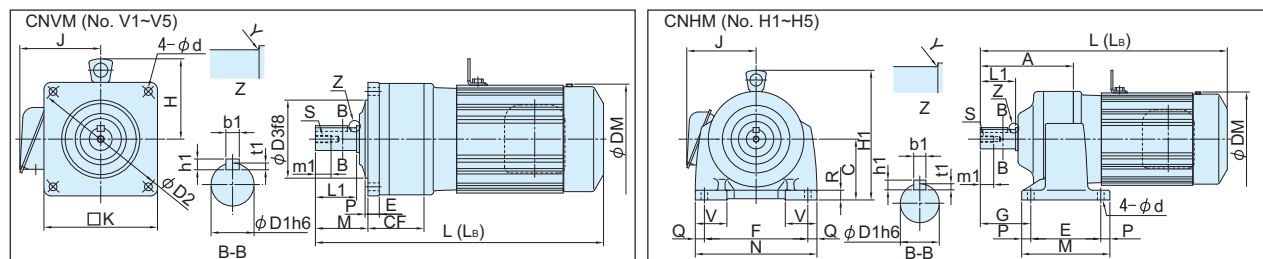
Selection Tables

Reduction Ratio	Output Speed r/min		Input Capacity Symbol	Frame Size	Reduction Ratio	Output Torque Tout				Allowable Radial Load Pro				Dimension Table No.	
						N·m		kg·m		N		kgf		CNVM	CNHM
	50Hz	60Hz				50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		
3	483	583	CNVM (Flange Mount) CNHM (Foot Mount)	08	- 508R (-B) -	3	10.3	8.55	1.05	0.872	603	603	62.0	V1	H1
5	290	350		08	- 508R (-B) -	5	17.2	14.3	1.75	1.45	1000	1000	102		
6	242	292		08	- 5087 (-B) -	6	20.6	17.1	2.10	1.74	1000	1000	102	V2	H2
8	181	219		08	- 5087 (-B) -	8	27.5	22.8	2.81	2.33	1000	1000	102		
11	132	159		08	- 5087 (-B) -	11	37.9	31.4	3.86	3.20	1470	1470	150		
13	112	135		08	- 5087 (-B) -	13	44.7	37.1	4.56	3.78	1470	1470	150		
15	96.7	117		08	- 5087 (-B) -	15	51.6	42.8	5.26	4.36	1600	1600	163		
17	85.3	103		08	- 5087 (-B) -	17	58.5	48.5	5.96	4.94	1810	1810	185		
21	69.0	83.3		08	- 5097 (-B) -	21	72.3	59.9	7.37	6.10	3430	3430	350	V3	H3
25	58.0	70.0		08	- 5097 (-B) -	25	86.0	71.3	8.77	7.27	3430	3430	350		
29	50.0	60.3		08	- 5097 (-B) -	29	99.8	82.7	10.2	8.43	3430	3430	350		
35	41.4	50.0		08	- 5097 (-B) -	35	120	99.8	12.3	10.2	3430	3430	350		
43	33.7	40.7		08	- 5097 (-B) -	43	148	123	15.1	12.5	3430	3430	350		
51	28.4	34.3		08	- 5097 (-B) -	51	176	145	17.9	14.8	3430	3430	350		
59	24.6	29.7		08	- 5107 (-B) -	59	203	168	20.7	17.1	4660	4660	475	V4	H4
71	20.4	24.6		08	- 5107 (-B) -	71	244	202	24.9	20.6	4660	4660	475		
87	16.7	20.1		08	- 5107 (-B) -	87	299	248	30.5	25.3	4660	4660	475		
105	13.8	16.7		08	- 5127DR (-B) -	105	342	284	34.9	28.9	7260	7260	740	V5	H5
125	11.6	14.0		08	- 5127DR (-B) -	125	408	338	41.5	34.4	7260	7260	740		
145	10.0	12.1		08	- 5127DR (-B) -	145	473	392	48.2	39.9	7260	7260	740		
175	8.29	10.0		08	- 5127DR (-B) -	175	571	473	58.2	48.2	7260	7260	740		
215	6.74	8.14		08	- 5127DR (-B) -	215	701	581	71.5	59.2	7260	7260	740		
255	5.69	6.86		08	- 5127DR (-B) -	255	*740	689	*75.4	70.2	7260	7260	740		
295	4.92	5.93		08	- 5127DR (-B) -	295	*762	*762	*77.7	*77.7	7260	7260	740		
355	4.08	4.93		08	- 5127DR (-B) -	355	*604	*604	*61.5	*61.5	7260	7260	740		
435	3.33	4.02		08	- 5127DR (-B) -	435	*774	*774	*78.9	*78.9	7260	7260	740		

- Note: 1. Output motor speed is the representative value at 1450r/min (50Hz) and 1750r/min (60Hz). Refer to page 31 for details.
 2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
 3. Be careful for the models with asterisk, "*" They are models with torque limitation.
 4. Figure in the bracket () shows the dimension for types with brake.
 5. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body											Motor		Slow-speed Shaft Unit										Mass kg
		CF	d	E	L	(L _b)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1			
V1	CNVM08-508R(-B)-Reduction Ratio	57	9	13	353	396	54	4	130	75	-	113	114	155	40	16	M6	0.4	22	6	6	3.5	12 (14)		
V2	CNVM08-5087(-B)-Reduction Ratio	47	9	13	350	393	54	4	130	75	-	110	114	155	40	16	M6	1	22	6	6	3.5	10 (13)		
V3	CNVM08-5097(-B)-Reduction Ratio	63	11	14	378	421	66	4	165	95	-	140	114	155	50	19	M8	2	28	8	7	4	12 (15)		
V4	CNVM08-5107(-B)-Reduction Ratio	79	11	16	406	449	74	4	190	110	113	160	114	155	58	22	M10	2	32	10	8	5	16 (18)		
V5	CNVM08-5127DR(-B)-Reduction Ratio	172	14	20	507	550	93	6	235	150	138	205	114	155	75	28	M12	3	42	12	8	5	36 (39)		

No.	Model	Main Body															Motor		Slow-speed Shaft Unit										Mass
		A	C	d	E	F	G	H1	L	(L _b)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg		
H1	CNHM08-508R(-B)-Reduction Ratio	111	80	9	75	120	57	193	353	396	99	144	12	12	13	50	114	155	40	16	M6	0.4	22	6	6	3.5	12 (14)		
H2	CNHM08-5087(-B)-Reduction Ratio	101	80	9	75	120	57	193	350	393	99	144	12	12	13	39	114	155	40	16	M6	1	22	6	6	3.5	10 (13)		
H3	CNHM08-5097(-B)-Reduction Ratio	129	90	11	90	150	75	203	378	421	120	180	15	15	14	44	114	155	50	19	M8	2	28	8	7	4	13 (16)		
H4	CNHM08-5107(-B)-Reduction Ratio	153	100	11	115	170	83	213	406	449	145	200	15	15	16	52	114	155	58	22	M10	2	32	10	8	5	17 (19)		
H5	CNHM08-5127DR(-B)-Reduction Ratio	265	120	14	150	210	102	258	507	550	190	260	20	25	20	65	114	155	75	28	M12	3	42	12	8	5	37 (39)		

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM) 0.75kW Three-Phase Motor

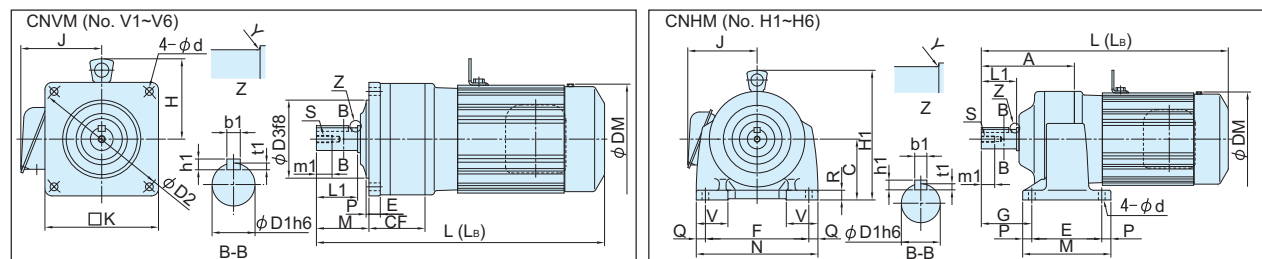
Selection Tables

Reduction Ratio	Output Speed		Input Capacity Symbol	Frame Size	Reduction Ratio	Output Torque Tout				Allowable Radial Load Pro				Dimension Table No.	
	r/min					N·m		kg·m		N		kgf		CNVM	CNHM
	50Hz	60Hz				50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		
Nomenclature details: p. 3															
3	483	583	CNVM (Flange Mount) CNHM (Foot Mount)	1	- 508R (-B) - 3	14.1	11.7	1.44	1.19	603	603	62.0	62.0	V1	H1
5	290	350		1	- 508R (-B) - 5	23.5	19.4	2.39	1.98	1000	1000	102	102		
6	242	292		1	- 5087 (-B) - 6	28.2	23.3	2.87	2.38	1000	1000	102	102	V2	H2
8	181	219		1	- 5087 (-B) - 8	37.5	31.1	3.83	3.17	1000	1000	102	102		
11	132	159		1	- 5097 (-B) - 11	51.6	42.8	5.26	4.36	2450	2450	250	250	V3	H3
13	112	135		1	- 5097 (-B) - 13	61.0	50.5	6.22	5.15	2750	2750	280	280		
15	96.7	117		1	- 5097 (-B) - 15	70.4	58.3	7.18	5.95	2850	2850	290	290		
17	85.3	103		1	- 5097 (-B) - 17	79.8	66.1	8.13	6.74	3240	3240	330	330		
21	69.0	83.3		1	- 5097 (-B) - 21	98.5	81.7	10.0	8.32	3430	3430	350	350		
25	58.0	70.0		1	- 5097 (-B) - 25	117	97.2	12.0	9.91	3430	3430	350	350		
29	50.0	60.3		1	- 5097 (-B) - 29	136	113	13.9	11.5	3430	3430	350	350	V4	H4
35	41.4	50.0		1	- 5097 (-B) - 35	164	136	16.7	13.9	3430	3430	350	350		
43	33.7	40.7		1	- 5097 (-B) - 43	202	167	20.6	17.0	3430	3430	350	350	V5	H5
51	28.4	34.3		1	- 5107 (-B) - 51	239	198	24.4	20.2	4660	4660	475	475		
59	24.6	29.7		1	- 5107 (-B) - 59	277	229	28.2	23.4	4660	4660	475	475		
71	20.4	24.6		1	- 5117 (-B) - 71	333	276	34.0	28.1	5690	5690	580	580		
87	16.7	20.1		1	- 5117 (-B) - 87	408	338	41.6	34.5	5690	5690	580	580		
105	13.8	16.7		1	- 5127DR (-B) - 105	467	387	47.6	39.4	7260	7260	740	740	V6	H6
125	11.6	14.0		1	- 5127DR (-B) - 125	556	460	56.6	46.9	7260	7260	740	740		
145	10.0	12.1		1	- 5127DR (-B) - 145	645	534	65.7	54.4	7260	7260	740	740		
175	8.29	10.0		1	- 5127DR (-B) - 175	*664	645	*67.7	65.7	7260	7260	740	740		
215	6.74	8.14		1	- 5127DR (-B) - 215	*711	*711	*72.5	*72.5	7260	7260	740	740		
255	5.69	6.86		1	- 5127DR (-B) - 255	*740	*740	*75.4	*75.4	7260	7260	740	740		

- Note: 1. Output motor speed is the representative value at 1450r/min (50Hz) and 1750r/min (60Hz). Refer to page 31 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Be careful for the models with asterisk, "*" They are models with torque limitation.
4. Figure in the bracket () shows the dimension for types with brake.
5. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body											Motor		Slow-speed Shaft Unit										Mass kg
		CF	d	E	L	(L _B)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1			
V1	CNVM1-508R(-B)-Reduction Ratio	57	9	13	353	396	54	4	130	75	-	113	114	155	40	16	M6	0.4	22	6	6	3.5	13 (15)		
V2	CNVM1-5087(-B)-Reduction Ratio	47	9	13	350	393	54	4	130	75	-	110	114	155	40	16	M6	1	22	6	6	3.5	11 (14)		
V3	CNVM1-5097(-B)-Reduction Ratio	63	11	14	378	421	66	4	165	90	-	140	114	155	50	19	M8	2	28	8	7	4	13 (16)		
V4	CNVM1-5107(-B)-Reduction Ratio	79	11	16	406	449	74	4	190	110	113	160	114	155	58	22	M10	2	32	10	8	5	17 (19)		
V5	CNVM1-5117(-B)-Reduction Ratio	88	14	18	445	488	86	6	215	130	113	185	114	155	68	22	M10	3	38	10	8	5	29 (31)		
V6	CNVM1-5127DR(-B)-Reduction Ratio	172	14	20	507	550	93	6	235	150	138	205	114	155	75	28	M12	3	42	12	8	5	37 (40)		

No.	Model	Main Body															Motor		Slow-speed Shaft Unit										Mass	
		A	C	d	E	F	G	H1	L	(Lb)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg			
H1	CNHM1-508R(-B)-Reduction Ratio	111	80	9	75	120	57	193	353	396	99	144	12	12	13	50	114	155	40	16	M6	0.4	22	6	6	3.5	13 (15)			
H2	CNHM1-5087(-B)-Reduction Ratio	101	80	9	75	120	57	193	350	393	99	144	12	12	13	39	114	155	40	16	M6	1	22	6	6	3.5	11 (14)			
H3	CNHM1-5097(-B)-Reduction Ratio	129	90	11	90	150	75	203	378	421	120	180	15	15	14	44	114	155	50	19	M8	2	28	8	7	4	14 (17)			
H4	CNHM1-5107(-B)-Reduction Ratio	153	100	11	115	170	83	213	406	449	145	200	15	15	16	52	114	155	58	22	M10	2	32	10	8	5	18 (20)			
H5	CNHM1-5117(-B)-Reduction Ratio	174	120	14	135	190	95	233	445	488	175	230	20	20	18	60	114	155	68	22	M10	3	38	10	8	5	31 (34)			
H6	CNHM1-5127DR(-B)-Reduction Ratio	265	120	14	150	210	102	258	507	550	190	260	20	25	20	65	114	155	75	28	M12	3	42	12	8	5	37 (40)			

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM) 1.1kW Three-Phase Motor

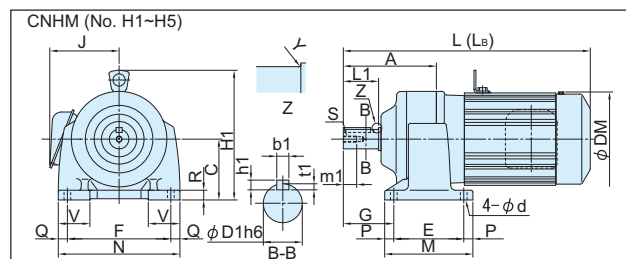
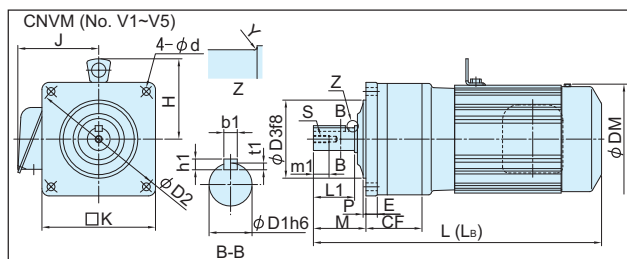
Selection Tables

Reduction Ratio	Output Speed r/min		Input Capacity Symbol	Frame Size	Reduction Ratio	Output Torque Tout				Allowable Radial Load Pro				Dimension Table No.	
	50Hz	60Hz				N·m		kg·m		N		kgf		CNVM	CNHM
	50Hz	60Hz				50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		
3	483	583		1H - 509R (-B) -	3	20.6	17.1	2.10	1.74	948	948	97.0	97.0	V1	H1
5	290	350		1H - 509R (-B) -	5	34.4	28.5	3.51	2.91	1580	1580	161	161		
6	242	292		1H - 5097 (-B) -	6	41.3	34.2	4.21	3.49	1960	1960	200	200		
8	181	219		1H - 5097 (-B) -	8	55.1	45.6	5.61	4.65	2450	2450	250	250		
11	132	159		1H - 5097 (-B) -	11	75.7	62.7	7.72	6.39	2450	2450	250	250		
13	112	135		1H - 5097 (-B) -	13	89.5	74.1	9.12	7.56	2750	2750	280	280		
15	96.7	117		1H - 5097 (-B) -	15	103	85.5	10.5	8.72	2850	2850	290	290		
17	85.3	103		1H - 5097 (-B) -	17	117	96.9	11.9	9.88	3240	3240	330	330		
21	69.0	83.3		1H - 5097 (-B) -	21	145	120	14.7	12.2	3430	3430	350	350		
25	58.0	70.0		1H - 5097 (-B) -	25	172	143	17.5	14.5	3430	3430	350	350		
29	50.0	60.3		1H - 5107 (-B) -	29	200	165	20.3	16.9	4660	4660	475	475		
35	41.4	50.0		1H - 5107 (-B) -	35	241	200	24.6	20.3	4660	4660	475	475		
43	33.7	40.7		1H - 5107 (-B) -	43	296	245	30.2	25.0	4660	4660	475	475		
51	28.4	34.3		1H - 5107 (-B) -	51	351	291	35.8	29.6	4500	4660	459	475		
59	24.6	29.7		1H - 5117 (-B) -	59	406	336	41.4	34.3	5690	5690	580	580		
71	20.4	24.6		1H - 5117 (-B) -	71	489	405	49.8	41.3	5690	5690	580	580		
87	16.7	20.1		1H - 5127 (-B) -	87	599	496	61.0	50.6	7260	7260	740	740		

Note: 1. Output motor speed is the representative value at 1450r/min (50Hz) and 1750r/min (60Hz). Refer to page 31 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Figure in the bracket () shows the dimension for types with brake.
4. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body										Motor		Slow-speed Shaft Unit										Mass
		CF	d	E	L	(L _B)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1		
V1	CNVM1H-509R(-B)-Reduction Ratio	79	11	14	415	477	66	4	165	95	120	142	119	167	50	19	M8	0.4	28	8	7	4	20 (25)	
V2	CNVM1H-5097(-B)-Reduction Ratio	63	11	14	410	472	66	4	165	95	120	140	119	167	50	19	M8	2	28	8	7	4	16 (21)	
V3	CNVM1H-5107(-B)-Reduction Ratio	79	11	16	437	499	74	4	190	110	120	160	119	167	58	22	M10	2	32	10	8	5	19 (24)	
V4	CNVM1H-5117(-B)-Reduction Ratio	88	14	18	473	535	86	6	215	130	120	185	119	167	68	22	M10	3	38	10	8	5	31 (36)	
V5	CNVM1H-5127(-B)-Reduction Ratio	93	14	20	485	547	93	6	235	150	120	205	119	167	75	28	M12	3	42	12	8	5	38 (43)	

No.	Model	Main Body															Motor		Slow-speed Shaft Unit										Mass
		A	C	d	E	F	G	H1	L	(La)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg		
H1	CNHM1H-509R(-B)-Reduction Ratio	145	90	11	90	150	75	210	415	477	120	180	15	15	14	70	119	167	50	19	M8	0.4	28	8	7	4	20 (25)		
H2	CNHM1H-5097(-B)-Reduction Ratio	129	90	11	90	150	75	210	410	472	120	180	15	15	14	44	119	167	50	19	M8	2	28	8	7	4	16 (21)		
H3	CNHM1H-5107(-B)-Reduction Ratio	153	100	11	115	170	83	220	437	499	145	200	15	15	16	52	119	167	58	22	M10	2	32	10	8	5	20 (25)		
H4	CNHM1H-5117(-B)-Reduction Ratio	174	120	14	135	190	95	240	473	535	175	230	20	20	18	60	119	167	68	22	M10	3	38	10	8	5	34 (39)		
H5	CNHM1H-5127(-B)-Reduction Ratio	186	120	14	150	210	102	240	485	547	190	260	20	25	20	65	119	167	75	28	M12	3	42	12	8	5	41 (46)		

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM) 1.5kW Three-Phase Motor

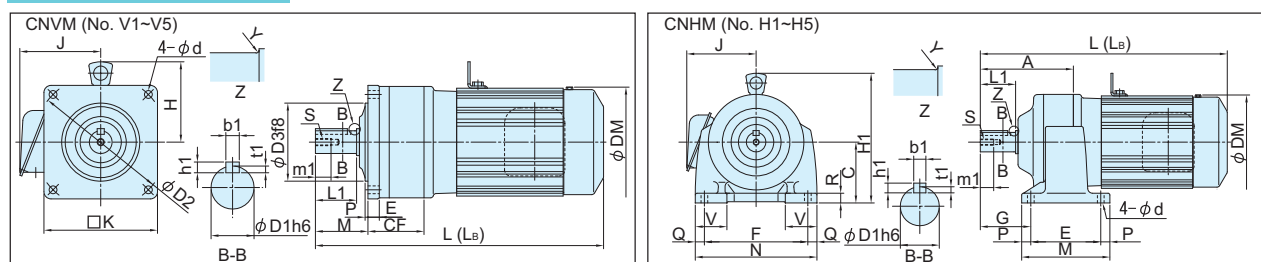
Selection Tables

Reduction Ratio	Output Speed r/min		Input Capacity Symbol	Frame Size	Reduction Ratio	Output Torque Tout				Allowable Radial Load Pro				Dimension Table No.	
	50Hz	60Hz				N·m		kg·m		N		kgf		CNVM	CNHM
	50Hz	60Hz				50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		
3	483	583	2	-	509R (-B) - 3	28.2	23.3	2.87	2.38	948	948	97.0	97.0	V1	H1
5	290	350	2	-	509R (-B) - 5	46.9	38.9	4.78	3.96	1580	1580	161	161		
6	242	292	2	-	5097 (-B) - 6	56.3	46.7	5.74	4.76	1960	1960	200	200		
8	181	219	2	-	5097 (-B) - 8	75.1	62.2	7.65	6.34	2450	2450	250	250		
11	132	159	2	-	5097 (-B) - 11	103	85.5	10.5	8.72	2450	2450	250	250		
13	112	135	2	-	5097 (-B) - 13	122	101	12.4	10.3	2750	2750	280	280		
15	96.7	117	2	-	5097 (-B) - 15	141	117	14.4	11.9	2850	2850	290	290		
17	85.3	103	2	-	5097 (-B) - 17	160	132	16.3	13.5	3240	3240	330	330		
21	69.0	83.3	2	-	5097 (-B) - 21	197	163	20.1	16.6	3430	3430	350	350		
25	58.0	70.0	2	-	5107 (-B) - 25	235	194	23.9	19.8	4660	4660	475	475		
29	50.0	60.3	2	-	5107 (-B) - 29	272	226	27.7	23.0	4660	4660	475	475		
35	41.4	50.0	2	-	5107 (-B) - 35	328	272	33.5	27.7	4590	4660	467	475		
43	33.7	40.7	2	-	5117 (-B) - 43	404	334	41.1	34.1	5690	5690	580	580		
51	28.4	34.3	2	-	5117 (-B) - 51	479	397	48.8	40.4	5690	5690	580	580		
59	24.6	29.7	2	-	5127 (-B) - 59	554	459	56.4	46.8	7260	7260	740	740		

Note: 1. Output motor speed is the representative value at 1450r/min (50Hz) and 1750r/min (60Hz). Refer to page 31 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Figure in the bracket () shows the dimension for types with brake.
4. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body												Motor		Slow-speed Shaft Unit										Mass
		CF	d	E	L	(L _B)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg			
V1	CNVM2-509R(-B)-Reduction Ratio	79	11	14	415	477	66	4	165	95	120	142	119	167	50	19	M8	0.4	28	8	7	4	21 (26)			
V2	CNVM2-5097(-B)-Reduction Ratio	63	11	14	410	472	66	4	165	95	120	140	119	167	50	19	M8	2	28	8	7	4	17 (22)			
V3	CNVM2-5107(-B)-Reduction Ratio	79	11	16	437	499	74	4	190	110	120	160	119	167	58	22	M10	2	32	10	8	5	20 (23)			
V4	CNVM2-5117(-B)-Reduction Ratio	88	14	18	473	535	86	6	215	130	120	185	119	167	68	22	M10	3	38	10	8	5	33 (37)			
V5	CNVM2-5127(-B)-Reduction Ratio	93	14	20	485	547	93	6	235	150	120	205	119	167	75	28	M12	3	42	12	8	5	40 (45)			

No.	Model	Main Body												Motor		Slow-speed Shaft Unit										Mass	
		A	C	d	E	F	G	H1	L	(L _B)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg
H1	CNHM2-509R(-B)-Reduction Ratio	145	90	11	90	150	75	210	415	477	120	180	15	15	14	70	119	167	50	19	M8	0.4	28	8	7	4	21 (26)
H2	CNHM2-5097(-B)-Reduction Ratio	129	90	11	90	150	75	210	410	472	120	180	15	15	14	44	119	167	50	19	M8	2	28	8	7	4	18 (23)
H3	CNHM2-5107(-B)-Reduction Ratio	153	100	11	115	170	83	220	437	499	145	200	15	15	16	52	119	167	58	22	M10	2	32	10	8	5	21 (26)
H4	CNHM2-5117(-B)-Reduction Ratio	174	120	14	135	190	95	240	473	535	175	230	20	20	18	60	119	167	68	22	M10	3	38	10	8	5	35 (40)
H5	CNHM2-5127(-B)-Reduction Ratio	186	120	14	150	210	102	240	485	547	190	260	20	25	20	65	119	167	75	28	M12	3	42	12	8	5	42 (47)

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM) 2.2kW Three-Phase Motor

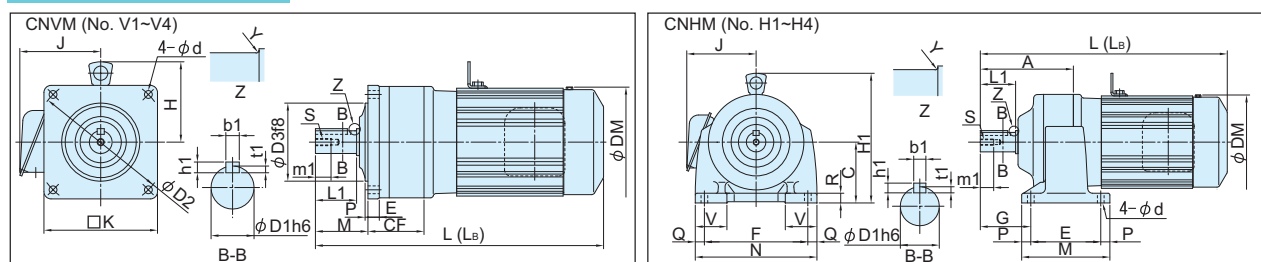
Selection Tables

Reduction Ratio	Output Speed r/min		Input Capacity Symbol	Frame Size	Reduction Ratio	Output Torque Tout				Allowable Radial Load Pro				Dimension Table No.	
	50Hz	60Hz				N·m		kg·m		N		kgf		CNVM	CNHM
	50Hz	60Hz				50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		
3	483	583	CNVM (Flange Mount) CNHM (Foot Mount)	3	- 510R (-B) - 3	41.3	34.2	4.21	3.49	1220	1220	124	124	V1	H1
5	290	350		3	- 510R (-B) - 5	68.8	57.0	7.02	5.81	2030	2030	207	207	V2	H2
8	181	219		3	- 5107 (-B) - 8	110	91.2	11.2	9.30	2970	2970	303	303		
11	132	159		3	- 5107 (-B) - 11	151	125	15.4	12.8	2970	2970	303	303		
13	112	135		3	- 5107 (-B) - 13	179	148	18.2	15.1	3510	3510	358	358		
15	96.7	117		3	- 5107 (-B) - 15	206	171	21.0	17.4	4050	4050	413	413		
17	85.3	103		3	- 5107 (-B) - 17	234	194	23.9	19.8	4590	4590	468	468		
21	69.0	83.3		3	- 5107 (-B) - 21	289	240	29.5	24.4	4660	4660	475	475		
25	58.0	70.0		3	- 5117 (-B) - 25	344	285	35.1	29.1	5690	5690	580	580	V3	H3
29	50.0	60.3		3	- 5117 (-B) - 29	399	331	40.7	33.7	5690	5690	580	580		
35	41.4	50.0		3	- 5117 (-B) - 35	482	399	49.1	40.7	5690	5690	580	580		
43	33.7	40.7		3	- 5117 (-B) - 43	592	490	60.3	50.0	5690	5690	580	580		
51	28.4	34.3		3	- 5127 (-B) - 51	702	582	71.6	59.3	7260	7260	740	740	V4	H4

Note: 1. Output motor speed is the representative value at 1450r/min (50Hz) and 1750r/min (60Hz). Refer to page 31 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Figure in the bracket () shows the dimension for types with brake.
4. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body											Motor		Slow-speed Shaft Unit										Mass
		CF	d	E	L	(L _B)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1			
V1	CNVM3-510R(-B)-Reduction Ratio	92	11	16	456	519	74	4	190	110	126	160	126	180	58	22	M10	0.4	32	10	8	5	27 (33)		
V2	CNVM3-5107(-B)-Reduction Ratio	79	11	16	456	519	74	4	190	110	126	160	126	180	58	22	M10	2	32	10	8	5	25 (31)		
V3	CNVM3-5117(-B)-Reduction Ratio	88	14	18	490	553	86	6	215	130	126	185	126	180	68	22	M10	3	38	10	8	5	36 (42)		
V4	CNVM3-5127(-B)-Reduction Ratio	93	14	20	502	565	93	6	235	150	126	205	126	180	75	28	M12	3	42	12	8	5	44 (50)		

No.	Model	Main Body															Motor		Slow-speed Shaft Unit										Mass kg
		A	C	d	E	F	G	H1	L	(L _B)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1			
H1	CNHM3-510R(-B)-Reduction Ratio	166	100	11	115	170	83	226	456	519	145	200	15	15	16	75	126	180	58	22	M10	0.4	32	10	8	5	27 (33)		
H2	CNHM3-5107(-B)-Reduction Ratio	153	100	11	115	170	83	226	456	519	145	200	15	15	16	52	126	180	58	22	M10	2	32	10	8	5	26 (32)		
H3	CNHM3-5117(-B)-Reduction Ratio	174	120	14	135	190	95	246	490	553	175	230	20	20	18	60	126	180	68	22	M10	3	38	10	8	5	39 (45)		
H4	CNHM3-5127(-B)-Reduction Ratio	186	120	14	150	210	102	246	502	565	190	260	20	25	20	65	126	180	75	28	M12	3	42	12	8	5	46 (52)		

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM) 90W Single-Phase Motor

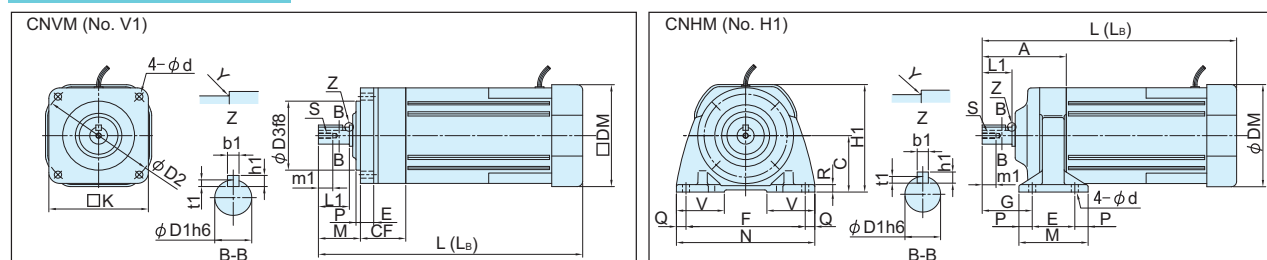
Selection Tables

Reduction Ratio	Output Speed		Input Capacity Symbol	Frame Size	Suffix	Reduction Ratio	Output Torque Tout				Allowable Radial Load Pro				Dimension Table No.		
	r/min						N·m		kgf·m		N		kgf		CNVM	CNHM	
	50Hz	60Hz					50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz			
			Nomenclature details: p. 3				50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz			
6	242	292	CNVM (Flange Mount) CNHM (Foot Mount)	009	- 5067	- CA (-B)	- 6	3.38	2.80	0.344	0.285	540	540	55.0	55.0	V1	H1
8	181	219		009	- 5067	- CA (-B)	- 8	4.50	3.73	0.459	0.380	687	687	70.0	70.0		
11	132	159		009	- 5067	- CA (-B)	- 11	6.19	5.13	0.631	0.523	687	687	70.0	70.0		
13	112	135		009	- 5067	- CA (-B)	- 13	7.32	6.07	0.746	0.618	687	687	70.0	70.0		
15	96.7	117		009	- 5067	- CA (-B)	- 15	8.45	7.00	0.861	0.713	883	883	90.0	90.0		
17	85.3	103		009	- 5067	- CA (-B)	- 17	9.57	7.93	0.976	0.809	883	883	90.0	90.0		
21	69.0	83.3		009	- 5067	- CA (-B)	- 21	11.8	9.80	1.21	0.999	1180	1180	120	120		
25	58.0	70.0		009	- 5067	- CA (-B)	- 25	14.1	11.7	1.44	1.19	1180	1180	120	120		
29	50.0	60.3		009	- 5067	- CA (-B)	- 29	16.3	13.5	1.66	1.38	1230	1230	125	125		
35	41.4	50.0		009	- 5067	- CA (-B)	- 35	19.7	16.3	2.01	1.66	1230	1230	125	125		
43	33.7	40.7		009	- 5067	- CA (-B)	- 43	24.2	20.1	2.47	2.05	1230	1230	125	125		
51	28.4	34.3		009	- 5067	- CA (-B)	- 51	28.7	23.8	2.93	2.43	1230	1230	125	125		

Note: 1. Output motor speed is the representative value at 1450r/min (50Hz) and 1750r/min (60Hz). Refer to page 32 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Figure in the bracket () shows the dimension for types with brake.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body										Motor		Slow-speed Shaft Unit										Mass
		CF	d	E	L	(L _B)	M	P	D2	D3	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg		
V1	CNVM009-5067-CA(-B)-Reduction Ratio	41	6.6	12	202	261	38	4	104	65	90	-	90	28	13	M5	0.5	16	5	5	3	4.5 (5)		

No.	Model	Main Body															Motor		Slow-speed Shaft Unit									Mass
		A	C	d	E	F	G	H1	L	(L _B)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg	
H1	CNHM009-5067-CA(-B)-Reduction Ratio	79	53	6.6	40	112	47	101	239	279	65	130	12.5	9	7	45	-	96	28	13	M5	0.5	16	5	5	3	4.5 (5)	

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM) 0.1kW Single-Phase Motor

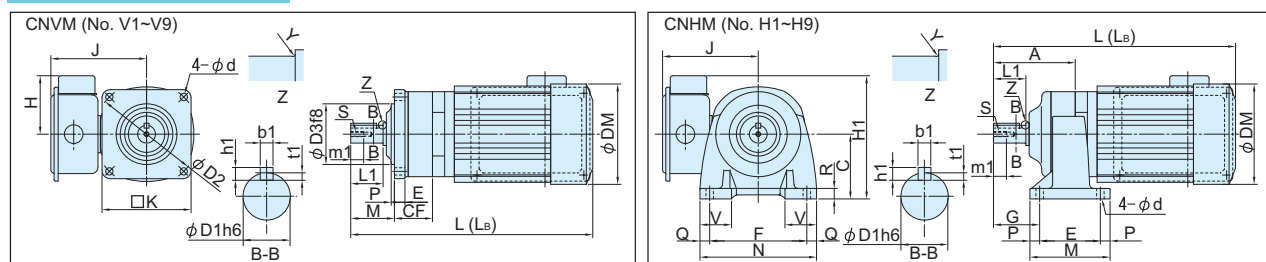
Selection Tables

Reduction Ratio	Output Speed		Input Capacity - Frame Size - Suffix - Reduction Ratio					Output Torque Tout				Allowable Radial Load Pro				Dimension Table No.							
	r/min							N·m		kgf·m		N		kgf		CNVM	CNHM						
	50Hz	60Hz	Nomenclature details: p. 3															50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
3	483	583	CNVM (Flange Mount) CNHM (Foot Mount)	01 - 507R - CB (-B) - 3	1.88	1.56	0.191	0.159	235	235	24.0	24.0	V1	H1									
5	290	350		01 - 507R - CB (-B) - 5	3.13	2.59	0.319	0.264	392	392	40.0	40.0											
6	242	292		01 - 506H - CB (-B) - 6	3.75	3.11	0.383	0.317	540	540	55.0	55.0	V2	H2									
8	181	219		01 - 506H - CB (-B) - 8	5.01	4.15	0.510	0.423	687	687	70.0	70.0											
11	132	159		01 - 506H - CB (-B) - 11	6.88	5.70	0.702	0.581	687	687	70.0	70.0											
13	112	135		01 - 506H - CB (-B) - 13	8.13	6.74	0.829	0.687	687	687	70.0	70.0											
15	96.7	117		01 - 506H - CB (-B) - 15	9.39	7.78	0.957	0.793	883	883	90.0	90.0											
17	85.3	103		01 - 506H - CB (-B) - 17	10.6	8.81	1.08	0.898	883	883	90.0	90.0											
21	69.0	83.3		01 - 506H - CB (-B) - 21	13.1	10.9	1.34	1.11	1180	1180	120	120	V3	H3									
25	58.0	70.0		01 - 506H - CB (-B) - 25	15.6	13.0	1.59	1.32	1180	1180	120	120											
29	50.0	60.3		01 - 506H - CB (-B) - 29	18.1	15.0	1.85	1.53	1230	1230	125	125											
35	41.4	50.0		01 - 506H - CB (-B) - 35	21.9	18.1	2.23	1.85	1230	1230	125	125											
43	33.7	40.7		01 - 506H - CB (-B) - 43	26.9	22.3	2.74	2.27	1230	1230	125	125											
51	28.4	34.3		01 - 506H - CB (-B) - 51	31.9	26.4	3.25	2.70	1230	1230	125	125											
59	24.6	29.7		01 - 5077 - CB (-B) - 59	36.9	30.6	3.76	3.12	1670	1670	170	170	V4	H4									
71	20.4	24.6		01 - 5077 - CB (-B) - 71	44.4	36.8	4.53	3.75	1670	1670	170	170											
87	16.7	20.1		01 - 5087 - CB (-B) - 87	54.4	45.1	5.55	4.60	2700	2700	275	275	V5	H5									
103	13.8	16.7		01 - 5097 - CB (-B) - 103	62.2	51.6	6.34	5.26	3430	3430	350	350											
119	12.2	14.7		01 - 5097 - CB (-B) - 119	74.5	61.7	7.59	6.29	3430	3430	350	350	V6	H6									
145	10.0	12.1		01 - 5097DR - CB (-B) - 145	86.0	71.2	8.76	7.26	3430	3430	350	350											
175	8.29	10.0		01 - 5097DR - CB (-B) - 175	104	86.0	10.6	8.76	3390	3430	346	350											
215	6.74	8.14		01 - 5097DR - CB (-B) - 215	127	106	13.0	10.8	3430	3430	350	350											
255	5.69	6.86		01 - 5097DR - CB (-B) - 255	151	125	15.4	12.8	3430	3430	350	350											
295	4.92	5.93		01 - 5097DR - CB (-B) - 295	*174	145	*17.8	14.8	3430	3430	350	350											
355	4.08	4.93	01 - 5097DR - CB (-B) - 355	*176	174	*18.0	17.8	3430	3430	350	350	V7	H7										
435	3.33	4.02	01 - 5107DR - CB (-B) - 435	258	214	26.3	21.8	4660	4660	475	475												
559	2.59	3.13	01 - 5107DA - CB (-B) - 559	331	275	33.8	28.0	4660	4660	475	475	V8	H8										
649	2.23	2.70	01 - 5107DA - CB (-B) - 649	*363	319	*37.0	32.5	4660	4660	475	475												
731	1.98	2.39	01 - 5107DA - CB (-B) - 731	*400	359	*40.8	36.6	4660	4660	475	475	V9	H9										
841	1.72	2.08	01 - 5127DA - CB (-B) - 841	499	413	50.8	42.1	7260	7260	740	740												
1003	1.45	1.74	01 - 5127DA - CB (-B) - 1003	595	493	60.6	50.2	7260	7260	740	740												

- Note: 1. Output motor speed is the representative value at 1450r/min (50Hz) and 1750r/min (60Hz). Refer to page 32 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Be careful for the models with asterisk, "*" They are models with torque limitation.
4. Figure in the bracket () shows the dimension for types with brake.
5. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body										Motor		Slow-speed Shaft Unit										Mass
		CF	d	E	L	(L _B)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1		
V1	CNVM01-507R-CB(-B)-Reduction Ratio	28	9	13	276	308	46	4	130	75	72	110	118	124	32	16	M6	0.4	18	6	6	3.5	7.5 (9)	
V2	CNVM01-506H-CB(-B)-Reduction Ratio	41	6.6	12	274	306	38	4	104	65	72	90	118	124	28	13	M5	0.5	16	5	5	3	7 (8.5)	
V3	CNVM01-5077-CB(-B)-Reduction Ratio	42	9	13	286	318	46	4	130	75	72	110	118	124	32	16	M6	1	18	6	6	3.5	7.5 (8.5)	
V4	CNVM01-5087-CB(-B)-Reduction Ratio	47	9	13	299	331	54	4	130	75	72	110	118	124	40	16	M6	1	22	6	6	3.5	7.5 (9)	
V5	CNVM01-5097-CB(-B)-Reduction Ratio	63	11	14	342	374	66	4	165	95	72	140	118	124	50	19	M8	2	28	8	7	4	10 (11)	
V6	CNVM01-5097DR-CB(-B)-Reduction Ratio	63	11	14	373	405	66	4	165	95	72	140	118	124	50	19	M8	2	28	8	7	4	11 (12)	
V7	CNVM01-5107DR-CB(-B)-Reduction Ratio	79	11	16	603	435	74	4	190	110	(111)	160	118	124	58	22	M10	2	32	10	8	5	14 (16)	
V8	CNVM01-5107DA-CB(-B)-Reduction Ratio	166	11	16	438	470	74	4	190	110	(120)	160	118	124	58	22	M10	2	32	10	8	5	15 (17)	
V9	CNVM01-5127DA-CB(-B)-Reduction Ratio	198	14	20	504	536	93	6	235	150	(138)	205	118	124	75	28	M12	3	42	12	8	5	34 (35)	

Note: Figures in the bracket () for dimension H and H1 shows the height to the lifting piece of the unit.

No.	Model	Main Body															Motor		Slow-speed Shaft Unit										Mass
		A	C	d	E	F	G	H1	L	(L _B)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1			
H1	CNHM01-507R-CB(-B)-Reduction Ratio	74	71	9	75	120	49	143	276	308	99	144	12	12	50	118	124	32	16	M6	0.4	18	6	6	3.5	7.5 (9)			
H2	CNHM01-506H-CB(-B)-Reduction Ratio	79	71	6.6	40	112	47	143	274	306	65	130	12.5	9	7	45	118	124	28	13	M5	0.5	16	5	5	3	7.5 (8.5)		
H3	CNHM01-5077-CB(-B)-Reduction Ratio	88	71	9	75	120	49	143	286	318	99	144	12	12	12	39	118	124	32	16	M6	1	18	6	6	3.5	7.5 (9)		
H4	CNHM01-5087-CB(-B)-Reduction Ratio	101	80	9	75	120	57	152	331	331	99	144	12	12	13	39	118	124	40	16	M6	1	22	6	6	3.5	8 (9)		
H5	CNHM01-5097-CB(-B)-Reduction Ratio	129	90	11	90	120	75	162	342	374	120	180	15	15	14	44	118	124	50	19	M8	2	28	8	7	4	11 (12)		
H6	CNHM01-5097DR-CB(-B)-Reduction Ratio	129	90	11	90	150	75	162	373	405	120	180	15	15	14	44	118	124	50	19	M8	2	28	8	7	4	12 (13)		
H7	CNHM01-5107DR-CB(-B)-Reduction Ratio	153	100	11	115	170	83	(211)	403	435	145	200	15	15	16	52	118	124	58	22	M10	2	32	10	8	5	15 (17)		
H8	CNHM01-5107DA-CB(-B)-Reduction Ratio	240	100	11	115	170	83	(220)	438	470	145	200	15	15	16	52	118	124	58	22	M10	2	32	10	8	5	16 (18)		
H9	CNHM01-5127DA-CB(-B)-Reduction Ratio	291	120	14	150	210	102	(258)	504	536	190	260	20	25	20	65	118	124	75	28	M12	3	42	12	8	5	36 (37)		

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM) 0.2kW Single-Phase Motor

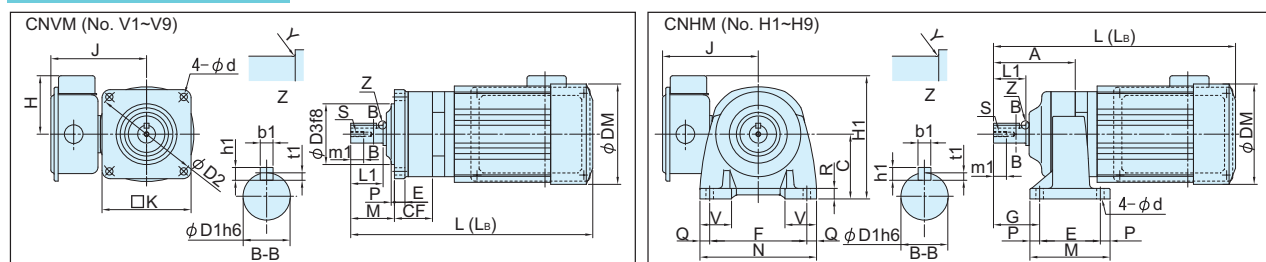
Selection Tables

Reduction Ratio	Output Speed		Input Capacity Symbol	Frame Size	Suffix	Reduction Ratio	Output Torque Tout				Allowable Radial Load Pro				Dimension Table No.	
	r/min						N·m		kgf·m		N		kgf		CNVM	CNHM
	50Hz	60Hz					50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		
Nomenclature details: p. 3							50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	V1	H1
3	483	583	02	- 507R	- CB (-B)	- 3	3.75	3.11	0.383	0.317	235	235	24.0	24.0		
5	290	350	02	- 507R	- CB (-B)	- 5	6.26	5.18	0.638	0.528	392	392	40.0	40.0	V2	H2
6	242	292	02	- 506H	- CB (-B)	- 6	7.51	6.22	0.765	0.634	540	540	55.0	55.0		
8	181	219	02	- 506H	- CB (-B)	- 8	10.0	8.29	1.02	0.846	687	687	70.0	70.0		
11	132	159	02	- 506H	- CB (-B)	- 11	13.8	11.4	1.40	1.16	687	687	70.0	70.0		
13	112	135	02	- 506H	- CB (-B)	- 13	16.3	13.5	1.66	1.37	687	687	70.0	70.0		
15	96.7	117	02	- 506H	- CB (-B)	- 15	18.8	15.6	1.91	1.59	883	883	90.0	90.0		
17	85.3	103	02	- 506H	- CB (-B)	- 17	21.3	17.6	2.17	1.80	883	883	90.0	90.0	V3	H3
21	69.0	83.3	02	- 506H	- CB (-B)	- 21	26.3	21.8	2.68	2.22	1180	1180	120	120		
25	58.0	70.0	02	- 506H	- CB (-B)	- 25	31.3	25.9	3.19	2.64	1180	1180	120	120		
29	50.0	60.3	02	- 5077	- CB (-B)	- 29	36.3	30.1	3.70	3.07	1670	1670	170	170	V4	H4
35	41.4	50.0	02	- 5077	- CB (-B)	- 35	43.8	36.3	4.46	3.70	1670	1670	170	170		
43	33.7	40.7	02	- 5077	- CB (-B)	- 43	53.8	44.6	5.49	4.54	1670	1670	170	170	V5	H5
51	28.4	34.3	02	- 5087	- CB (-B)	- 51	63.8	52.9	6.51	5.39	2700	2700	275	275		
59	24.6	29.7	02	- 5087	- CB (-B)	- 59	73.8	61.2	7.53	6.24	2700	2700	275	275		
71	20.4	24.6	02	- 5097	- CB (-B)	- 71	88.8	73.6	9.06	7.50	3430	3430	350	350	V6	H6
87	16.7	20.1	02	- 5097	- CB (-B)	- 87	109	90.2	11.1	9.20	3430	3430	350	350		
103	13.8	16.7	02	- 5097	- CB (-B)	- 103	124	103	12.7	10.5	3430	3430	350	350		
119	12.2	14.7	02	- 5097	- CB (-B)	- 119	149	123	15.2	12.6	3430	3430	350	350		
145	10.0	12.1	02	- 5097DR	- CB (-B)	- 145	172	142	17.5	14.5	3430	3430	350	350	V7	H7
175	8.29	10.0	02	- 5097DR	- CB (-B)	- 175	207	172	21.1	17.5	3430	3430	350	350		
215	6.74	8.14	02	- 5107DR	- CB (-B)	- 215	255	211	26.0	21.5	4660	4660	475	475		
255	5.69	6.86	02	- 5107DR	- CB (-B)	- 255	302	250	30.8	25.5	4660	4660	475	475	V8	H8
295	4.92	5.93	02	- 5107DR	- CB (-B)	- 295	350	290	35.7	29.5	4660	4660	475	475		
355	4.08	4.93	02	- 5107DR	- CB (-B)	- 355	*340	*340	*34.7	*34.7	4660	4660	475	475	V9	H9
435	3.33	4.02	02	- 5117DR	- CB (-B)	- 435	516	427	52.6	43.6	5690	5690	580	580		
559	2.59	3.13	02	- 5127DA	- CB (-B)	- 559	663	549	67.6	56.0	7260	7260	740	740		
649	2.23	2.70	02	- 5127DA	- CB (-B)	- 649	*762	638	*77.7	65.0	7260	7260	740	740	V9	H9
731	1.98	2.39	02	- 5127DA	- CB (-B)	- 731	*711	*711	*72.5	*72.5	7260	7260	740	740		
841	1.72	2.08	02	- 5127DA	- CB (-B)	- 841	*665	*665	*67.8	*67.8	7260	7260	740	740		
1003	1.45	1.74	02	- 5127DA	- CB (-B)	- 1003	*762	*762	*77.7	*77.7	7260	7260	740	740		

- Note: 1. Output motor speed is the representative value at 1450r/min (50Hz) and 1750r/min (60Hz). Refer to page 32 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Be careful for the models with asterisk, "*" They are models with torque limitation.
4. Figure in the bracket () shows the dimension for types with brake.
5. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body										Motor		Slow-speed Shaft Unit										Mass	Note: Figures in the bracket () for dimension H and H1 shows the height to the lifting piece of the unit.
		CF	d	E	L	(L _B)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg		
V1	CNVM02-507R-CB(-B)-Reduction Ratio	28	9	13	176	308	46	4	130	75	72	110	118	124	32	16	M6	0.4	18	6	6	3.5	8.5 (10)		
V2	CNVM02-506H-CB(-B)-Reduction Ratio	41	6.6	12	274	306	38	4	104	65	72	90	118	124	28	13	M5	0.5	16	5	5	3	8 (9.5)		
V3	CNVM02-5077-CB(-B)-Reduction Ratio	42	9	13	286	318	46	4	130	75	72	110	118	124	32	16	M6	1	18	6	6	3.5	8.5 (9.5)		
V4	CNVM02-5087-CB(-B)-Reduction Ratio	47	9	13	299	331	54	4	130	75	72	110	118	124	40	16	M6	1	22	6	6	3.5	8.5 (10)		
V5	CNVM02-5097-CB(-B)-Reduction Ratio	63	11	14	342	374	66	4	165	95	72	140	118	124	50	19	M8	2	28	8	7	4	11 (12)		
V6	CNVM02-5097DR-CB(-B)-Reduction Ratio	63	11	14	373	405	66	4	165	95	72	140	118	124	50	19	M8	2	28	8	7	4	12 (13)		
V7	CNVM02-5107DR-CB(-B)-Reduction Ratio	79	11	16	403	435	74	4	190	110	(111)	160	118	124	58	22	M10	2	32	10	8	5	15 (17)		
V8	CNVM02-5117DR-CB(-B)-Reduction Ratio	161	14	18	443	475	86	6	215	130	(128)	185	118	124	68	22	M10	3	38	10	8	5	26 (27)		
V9	CNVM02-5127DA-CB(-B)-Reduction Ratio	198	14	20	504	536	93	6	235	150	(138)	205	118	124	75	28	M12	3	42	12	8	5	35 (36)		

No.	Model	Main Body										Motor		Slow-speed Shaft Unit										Mass			
		A	C	d	E	F	G	H1	L	(L _B)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg
H1	CNHM02-507R-CB(-B)-Reduction Ratio	74	71	9	75	120	49	143	176	308	99	144	12	12	12	50	118	124	32	16	M6	0.4	18	6	6	3.5	8.5 (10)
H2	CNHM02-506H-CB(-B)-Reduction Ratio	79	71	6.6	40	112	47	143	274	306	65	130	12.5	9	7	45	118	124	28	13	M5	0.5	16	5	5	3	8.5 (9.5)
H3	CNHM02-5077-CB(-B)-Reduction Ratio	88	71	9	75	120	49	143	286	318	99	144	12	12	12	39	118	124	32	16	M6	1	18	6	6	3.5	9 (10)
H4	CNHM02-5087-CB(-B)-Reduction Ratio	101	80	9	75	120	57	152	299	331	99	144	12	12	13	39	118	124	40	16	M6	1	22	6	6	3.5	9 (10)
H5	CNHM02-5097-CB(-B)-Reduction Ratio	129	90	11	90	120	75	162	342	374	120	180	15	15	14	44	118	124	50	19	M8	2	28	8	7	4	12 (13)
H6	CNHM02-5097DR-CB(-B)-Reduction Ratio	129	90	11	90	150	75	162	373	405	120	180	15	15	14	44	118	124	50	19	M8	2	28	8	7	4	13 (14)
H7	CNHM02-5107DR-CB(-B)-Reduction Ratio	153	100	11	115	170	83	(211)	403	435	145	200	15	15	16	52	118	124	58	22	M10	2	32	10	8	5	16 (18)
H8	CNHM02-5117DR-CB(-B)-Reduction Ratio	247	120	14	135	190	95	(248)	443	475	175	230	20	20	18	60	118	124	68	22	M10	3	38	10	8	5	27 (28)
H9	CNHM02-5127DA-CB(-B)-Reduction Ratio	291	120	14	150	210	102	(258)	504	536	190	260	20	25	20	65	118	124	75	28	M12	3	42	12	8	5	37 (38)

Note: Figures in the bracket () for dimension H and H1 shows the height to the lifting piece of the unit.

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM) 0.4kW Single-Phase Motor

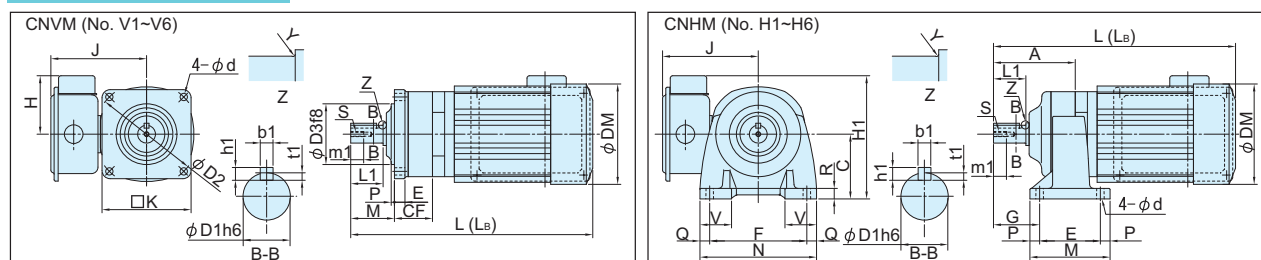
Selection Tables

Reduction Ratio	Output Speed		Input Capacity Symbol	Frame Size	Suffix	Reduction Ratio	Output Torque Tout				Allowable Radial Load Pro				Dimension Table No.	
	r/min						N·m		kgf·m		N		kgf		CNVM	CNHM
	50Hz	60Hz					50Hz	60Hz	50Hz	60Hz	50Hz	60Hz				
Nomenclature details: p. 3							50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	V1	H1
3	483	583	05 - 508R - CB (-B) - 3	7.51	6.22	0.765	0.634	603	603	62.0	62.0					
5	290	350	05 - 508R - CB (-B) - 5	12.5	10.4	1.28	1.06	1000	1000	102	102	V2	H2			
6	242	292	05 - 5087 - CB (-B) - 6	15.0	12.4	1.53	1.27	1000	1000	102	102					
8	181	219	05 - 5087 - CB (-B) - 8	20.0	16.6	2.04	1.69	1000	1000	102	102					
11	132	159	05 - 5087 - CB (-B) - 11	27.5	22.8	2.81	2.33	1470	1470	150	150					
13	112	135	05 - 5087 - CB (-B) - 13	32.5	27.0	3.32	2.75	1470	1470	150	150					
15	96.7	117	05 - 5087 - CB (-B) - 15	37.5	31.1	3.83	3.17	1600	1600	163	163					
17	85.3	103	05 - 5087 - CB (-B) - 17	42.5	35.3	4.34	3.59	1810	1810	185	185	V3	H3			
21	69.0	83.3	05 - 5087 - CB (-B) - 21	52.6	43.5	5.36	4.44	2250	2250	229	229					
25	58.0	70.0	05 - 5087 - CB (-B) - 25	62.6	51.8	6.38	5.28	2680	2680	273	273					
29	50.0	60.3	05 - 5087 - CB (-B) - 29	72.6	60.1	7.40	6.13	2700	2700	275	275					
35	41.4	50.0	05 - 5087 - CB (-B) - 35	87.6	72.6	8.93	7.40	2700	2700	275	275					
43	33.7	40.7	05 - 5097 - CB (-B) - 43	108	89.2	11.0	9.09	3430	3430	350	350					
51	28.4	34.3	05 - 5097 - CB (-B) - 51	128	106	13.0	10.8	3430	3430	350	350	V4	H4			
59	24.6	29.7	05 - 5097 - CB (-B) - 59	148	122	15.1	12.5	3430	3430	350	350					
71	20.4	24.6	05 - 5107 - CB (-B) - 71	178	147	18.1	15.0	4660	4660	475	475					
87	16.7	20.1	05 - 5107 - CB (-B) - 87	218	180	22.2	18.4	4660	4660	475	475					
103	13.8	16.7	05 - 5107 - CB (-B) - 103	249	206	25.4	21.0	4660	4660	475	475					
119	12.2	14.7	05 - 5107 - CB (-B) - 119	298	247	30.4	25.2	4660	4660	475	475					
145	10.0	12.1	05 - 5127DR - CB (-B) - 145	344	285	35.0	29.0	7260	7260	740	740	V5	H5			
175	8.29	10.0	05 - 5127DR - CB (-B) - 175	415	344	42.3	35.0	7260	7260	740	740					
215	6.74	8.14	05 - 5127DR - CB (-B) - 215	510	422	52.0	43.1	7260	7260	740	740					
255	5.69	6.86	05 - 5127DR - CB (-B) - 255	605	501	61.6	51.1	7260	7260	740	740					
295	4.92	5.93	05 - 5127DR - CB (-B) - 295	699	580	71.3	59.1	7260	7260	740	740					
355	4.08	4.93	05 - 5127DR - CB (-B) - 355	*604	*604	*61.5	*61.5	7260	7260	740	740					
435	3.33	4.02	05 - 5127DR - CB (-B) - 435	*774	*774	*78.9	*78.9	7260	7260	740	740	V6	H6			
559	2.59	3.13	05 - 5127DA - CB (-B) - 559	*711	*711	*72.5	*72.5	7260	7260	740	740					
649	2.23	2.70	05 - 5127DA - CB (-B) - 649	*762	*762	*77.7	*77.7	7260	7260	740	740					
731	1.98	2.39	05 - 5127DA - CB (-B) - 731	*711	*711	*72.5	*72.5	7260	7260	740	740					

Note: 1. Output motor speed is the representative value at 1450r/min (50Hz) and 1750r/min (60Hz). Refer to page 32 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Be careful for the models with asterisk, "*" They are models with torque limitation.
4. Figure in the bracket () shows the dimension for types with brake.
5. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body											Motor		Slow-speed Shaft Unit										Mass
		CF	d	E	L	(L _b)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg		
V1	CNVM05-508R-CB(-B)-Reduction Ratio	57	9	13	353	396	54	4	130	75	113	113	128	155	40	16	M6	0.4	22	6	6	3.5	13 (16)		
V2	CNVM05-5087-CB(-B)-Reduction Ratio	47	9	13	350	393	54	4	130	75	113	110	128	155	40	16	M6	1	22	6	6	3.5	12 (14)		
V3	CNVM05-5097-CB(-B)-Reduction Ratio	63	11	14	378	421	66	4	165	95	113	140	128	155	50	19	M8	2	28	8	7	4	14 (17)		
V4	CNVM05-5107-CB(-B)-Reduction Ratio	79	11	16	406	449	74	4	190	110	113	160	128	155	58	22	M10	2	32	10	8	5	17 (20)		
V5	CNVM05-5127DR-CB(-B)-Reduction Ratio	172	14	20	507	550	93	6	235	150	138	205	128	155	75	28	M12	3	42	12	8	5	38 (41)		
V6	CNVM05-5127DA-CB(-B)-Reduction Ratio	198	14	20	540	583	93	6	235	150	138	205	128	155	75	28	M12	3	42	12	8	5	38 (40)		

No.	Model	Main Body															Motor		Slow-speed Shaft Unit								Mass	
		A	C	d	E	F	G	H1	L	(L _b)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg	
H1	CNHM05-508R-CB(-B)-Reduction Ratio	111	80	9	75	120	57	193	353	396	99	144	12	12	13	50	128	155	40	16	M6	0.4	22	6	6	3.5	13 (16)	
H2	CNHM05-5087-CB(-B)-Reduction Ratio	101	80	9	75	120	57	193	350	393	99	144	12	12	13	39	128	155	40	16	M6	1	22	6	6	3.5	12 (15)	
H3	CNHM05-5097-CB(-B)-Reduction Ratio	129	90	11	90	150	75	203	378	421	120	180	15	15	14	44	128	155	50	19	M8	2	28	8	7	4	15 (18)	
H4	CNHM05-5107-CB(-B)-Reduction Ratio	153	100	11	115	170	83	213	406	449	145	200	15	15	16	52	128	155	58	22	M10	2	32	10	8	5	18 (21)	
H5	CNHM05-5127DR-CB(-B)-Reduction Ratio	265	120	14	150	210	102	258	507	550	190	260	20	25	20	65	128	155	75	28	M12	3	42	12	8	5	38 (41)	
H6	CNHM05-5127DA-CB(-B)-Reduction Ratio	291	120	14	150	210	102	258	540	583	190	260	20	25	20	65	128	155	75	28	M12	3	42	12	8	5	40 (43)	

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM) 0.1kW Three-Phase Motor for Inverter

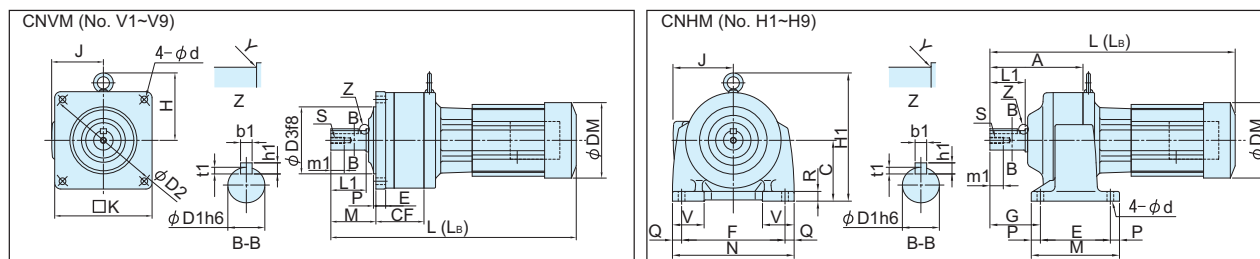
Selection Tables

Reduction Ratio	Output Speed r/min			Max. Allowable Speed (120Hz)	Input Capacity - Symbol	Frame Size	Suffix	Reduction Ratio	Output Torque Tout		Allowable Radial Load Pro		Dimension Table No.	
	6Hz	60Hz	(120Hz)						N·m	kgf·m	N	kgf	CNVM	CNHM
3	58.3	583	1167	CNVM (Flange Mount) CNHM (Foot Mount)	01	- 507R	- AV (-B) -	3	1.56	0.159	235	24.0	V1	H1
5	35.0	350	700		01	- 507R	- AV (-B) -	5	2.59	0.264	392	40.0		
6	29.2	292	584		01	- 506H	- AV (-B) -	6	3.11	0.317	540	55.0		
8	21.9	219	438		01	- 506H	- AV (-B) -	8	4.15	0.423	687	70.0	V2	H2
11	15.9	159	318		01	- 506H	- AV (-B) -	11	5.70	0.581	687	70.0		
13	13.5	135	270		01	- 506H	- AV (-B) -	13	6.74	0.687	687	70.0		
15	11.7	117	234		01	- 506H	- AV (-B) -	15	7.78	0.793	883	90.0		
17	10.3	103	206		01	- 506H	- AV (-B) -	17	8.81	0.898	883	90.0		
21	8.33	83.3	167		01	- 506H	- AV (-B) -	21	10.9	1.11	1180	120	V3	H3
25	7.00	70.0	140		01	- 506H	- AV (-B) -	25	13.0	1.32	1180	120		
29	6.03	60.3	121		01	- 506H	- AV (-B) -	29	15.0	1.53	1230	125		
35	5.00	50.0	100		01	- 506H	- AV (-B) -	35	18.1	1.85	1230	125	V4	H4
43	4.07	40.7	81.4		01	- 506H	- AV (-B) -	43	22.3	2.27	1230	125		
51	3.43	34.3	68.6		01	- 506H	- AV (-B) -	51	26.4	2.70	1230	125		
59	2.97	29.7	59.4		01	- 5077	- AV (-B) -	59	30.6	3.12	1670	170	V5	H5
71	2.46	24.6	49.2		01	- 5077	- AV (-B) -	71	36.8	3.75	1670	170		
87	2.01	20.1	40.2		01	- 5087	- AV (-B) -	87	45.1	4.60	2700	275		
103	1.70	17.0	34.0		01	- 5097	- AV (-B) -	103	51.6	5.26	3430	350	V6	H6
119	1.47	14.7	29.4		01	- 5097	- AV (-B) -	119	61.7	6.29	3430	350		
145	1.21	12.1	24.2		01	- 5097DR	- AV (-B) -	145	71.2	7.26	3430	350		
175	1.00	10.0	20.0		01	- 5097DR	- AV (-B) -	175	86.0	8.76	3430	350	V7	H7
215	0.814	8.14	16.3		01	- 5097DR	- AV (-B) -	215	106	10.8	3430	350		
255	0.686	6.86	13.7		01	- 5097DR	- AV (-B) -	255	125	12.8	3430	350		
295	0.593	5.93	11.9		01	- 5097DR	- AV (-B) -	295	145	14.8	3430	350	V8	H8
355	0.493	4.93	9.86		01	- 5097DR	- AV (-B) -	355	174	17.8	3430	350		
435	0.402	4.02	8.04		01	- 5107DR	- AV (-B) -	435	214	21.8	4660	475		
559	0.313	3.13	6.26		01	- 5107DA	- AV (-B) -	559	275	28.0	4660	475	V9	H9
649	0.270	2.70	5.40		01	- 5107DA	- AV (-B) -	649	319	32.5	4660	475		
731	0.239	2.39	4.78		01	- 5107DA	- AV (-B) -	731	359	36.6	4660	475		
841	0.208	2.08	4.16		01	- 5127DA	- AV (-B) -	841	413	42.1	7260	740		
1003	0.174	1.74	3.48		01	- 5127DA	- AV (-B) -	1003	493	50.2	7260	740		

- Note: 1. Output motor speed is the representative value at 1750r/min (60Hz) and 175r/min (6Hz). Refer to page 32 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Constant torque operation (continuous operation) is possible when the unit is used with inverter motor in the frequency range 6Hz~60Hz. Operation with frequency range over base frequency (60Hz) will be constant output.
4. The unit will show reduced torque characteristics when the general inverter is used for operation with inverter.
5. Constant torque operation is possible using general motor when Sumitomo inverter (HF-320 or HF-320α) is used for sensorless operation. Refer to the specific catalog for details.
6. Consult us when using the unit with frequency over 60Hz.
7. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body										Motor		Slow-speed Shaft Unit										Mass	
		CF	d	E	L	(L _a)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg		
V1	CNVM01-507R-AV(-B)-Reduction Ratio	28	9	13	256	288	46	4	130	75	-	110	85	124	32	16	M6	0.4	18	6	6	3.5	7 (8.5)		
V2	CNVM01-506H-AV(-B)-Reduction Ratio	41	6.6	12	254	286	38	4	104	65	-	90	85	124	28	13	M5	0.5	16	5	5	3	6.5 (8)		
V3	CNVM01-5077-AV(-B)-Reduction Ratio	42	9	13	266	298	46	4	130	75	-	110	85	124	32	16	M6	1	18	6	6	3.5	6.5 (8)		
V4	CNVM01-5087-AV(-B)-Reduction Ratio	47	9	13	279	299	54	4	130	75	-	110	85	124	40	16	M6	1	22	6	6	3.5	7 (8.5)		
V5	CNVM01-5097-AV(-B)-Reduction Ratio	63	11	14	322	354	66	4	165	95	-	140	85	124	50	19	M8	2	28	8	7	4	10 (11)		
V6	CNVM01-5097DR-AV(-B)-Reduction Ratio	63	11	14	353	385	66	4	165	95	-	140	85	124	50	19	M8	2	28	8	7	4	10 (12)		
V7	CNVM01-5107DR-AV(-B)-Reduction Ratio	79	11	16	383	415	74	4	190	110	111	160	85	124	58	22	M10	2	32	10	8	5	14 (15)		
V8	CNVM01-5107DA-AV(-B)-Reduction Ratio	166	11	16	418	450	74	4	190	110	128	160	85	124	58	22	M10	2	32	10	8	5	14 (16)		
V9	CNVM01-5127DA-AV(-B)-Reduction Ratio	198	14	20	484	516	93	6	235	150	138	205	85	124	75	28	M12	3	42	12	8	5	33 (34)		

No.	Model	Main Body										Motor		Slow-speed Shaft Unit										Mass			
		A	C	d	E	F	G	H1	L	(L _a)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg
H1	CNHM01-507R-AV(-B)-Reduction Ratio	74	71	9	75	120	49	129	256	288	99	144	12	12	12	50	85	124	32	16	M6	0.4	18	6	6	3.5	7 (8.5)
H2	CNHM01-506H-AV(-B)-Reduction Ratio	79	71	6.6	40	112	47	130	254	286	65	130	12.5	9	7	45	85	124	28	13	M5	0.5	16	5	5	3	6.5 (8)
H3	CNHM01-5077-AV(-B)-Reduction Ratio	88	71	9	75	120	49	129	266	298	99	144	12	12	12	39	85	124	32	16	M6	1	18	6	6	3.5	7 (8.5)
H4	CNHM01-5087-AV(-B)-Reduction Ratio	101	80	9	75	120	57	138	279	299	99	144	12	12	13	39	85	124	40	16	M6	1	22	6	6	3.5	7.5 (9)
H5	CNHM01-5097-AV(-B)-Reduction Ratio	129	90	11	90	150	75	158	322	354	120	180	15	15	14	44	85	124	50	19	M8	2	28	8	7	4	10 (12)
H6	CNHM01-5097DR-AV(-B)-Reduction Ratio	129	90	11	90	150	75	157	353	385	120	180	15	15	14	44	85	124	50	19	M8	2	28	8	7	4	11 (12)
H7	CNHM01-5107DR-AV(-B)-Reduction Ratio	153	100	11	115	170	83	211	383	415	145	200	15	15	16	52	85	124	58	22	M10	2	32	10	8	5	15 (16)
H8	CNHM01-5107DA-AV(-B)-Reduction Ratio	247	120	11	135	190	95	248	423	455	175	230	20	20	18	60	85	124	58	22	M10	2	32	10	8	5	15 (17)
H9	CNHM01-5127DA-AV(-B)-Reduction Ratio	291	120	14	150	210	102	258	484	516	190	260	20	25	20	65	85	124	75	28	M12	3	42	12	8	5	35 (37)

0.2kW Three-Phase Motor for Inverter

Selection Tables

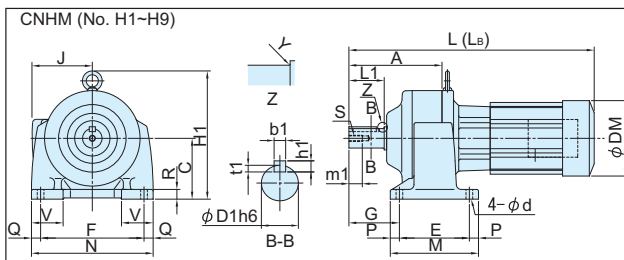
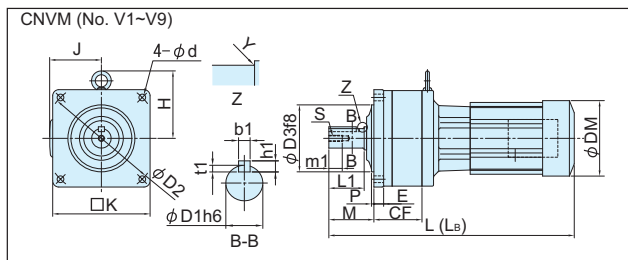
Reduction Ratio	Output Speed			Input Capacity - Symbol	Frame Size	Suffix	Reduction Ratio	Output Torque Tout		Allowable Radial Load Pro		Dimension Table No.		
	r/min		Max. Allowable Speed					N·m	kgf·m	N	kgf	CNVM	CNHM	
	6Hz	60Hz												(120Hz)
Nomenclature details: p. 3														
3	58.3	583	1167	CNVM (Flange Mount) CNHM (Foot Mount)	02	- 507R	- AV (-B)	- 3	3.11	0.317	235	24.0	V1	H1
5	35.0	350	700		02	- 507R	- AV (-B)	- 5	5.18	0.528	392	40.0		
6	29.2	292	584		02	- 506H	- AV (-B)	- 6	6.22	0.634	540	55.0	V2	H2
8	21.9	219	438		02	- 506H	- AV (-B)	- 8	8.29	0.846	687	70.0		
11	15.9	159	318		02	- 506H	- AV (-B)	- 11	11.4	1.16	687	70.0		
13	13.5	135	270		02	- 506H	- AV (-B)	- 13	13.5	1.37	687	70.0		
15	11.7	117	234		02	- 506H	- AV (-B)	- 15	15.6	1.59	883	90.0		
17	10.3	103	206		02	- 506H	- AV (-B)	- 17	17.6	1.80	883	90.0		
21	8.33	83.3	167		02	- 506H	- AV (-B)	- 21	21.8	2.22	1180	120	V3	H3
25	7.00	70.0	140		02	- 506H	- AV (-B)	- 25	25.9	2.64	1180	120		
29	6.03	60.3	121		02	- 5077	- AV (-B)	- 29	30.1	3.07	1670	170		
35	5.00	50.0	100		02	- 5077	- AV (-B)	- 35	36.3	3.70	1670	170		
43	4.07	40.7	81.4		02	- 5077	- AV (-B)	- 43	44.6	4.54	1670	170		
51	3.43	34.3	68.6		02	- 5087	- AV (-B)	- 51	52.9	5.39	2700	275		
59	2.97	29.7	59.4		02	- 5087	- AV (-B)	- 59	61.2	6.24	2700	275		
71	2.46	24.6	49.2		02	- 5097	- AV (-B)	- 71	73.6	7.50	3430	350	V5	H5
87	2.01	20.1	40.2		02	- 5097	- AV (-B)	- 87	90.2	9.20	3430	350		
103	1.70	17.0	34.0		02	- 5097	- AV (-B)	- 103	103	10.5	3430	350		
119	1.47	14.7	29.4		02	- 5097	- AV (-B)	- 119	123	12.6	3430	350		
145	1.21	12.1	24.2		02	- 5097DR	- AV (-B)	- 145	142	14.5	3430	350	V6	H6
175	1.00	10.0	20.0		02	- 5097DR	- AV (-B)	- 175	172	17.5	3430	350		
215	0.814	8.14	16.3		02	- 5107DR	- AV (-B)	- 215	211	21.5	4660	475	V7	H7
255	0.686	6.86	13.7		02	- 5107DR	- AV (-B)	- 255	250	25.5	4660	475		
295	0.593	5.93	11.9		02	- 5107DR	- AV (-B)	- 295	290	29.5	4660	475		
355	0.493	4.93	9.86	02	- 5107DR	- AV (-B)	- 355	*340	*34.7	4660	475			
435	0.402	4.02	8.04	02	- 5117DR	- AV (-B)	- 435	427	43.6	5690	580	V8	H8	
559	0.313	3.13	6.26	02	- 5127DA	- AV (-B)	- 559	549	56.0	7260	740	V9	H9	
649	0.270	2.70	5.40	02	- 5127DA	- AV (-B)	- 649	638	65.0	7260	740			
731	0.239	2.39	4.78	02	- 5127DA	- AV (-B)	- 731	*711	*72.5	7260	740			
841	0.208	2.08	4.16	02	- 5127DA	- AV (-B)	- 841	*665	*67.8	7260	740			
1003	0.174	1.74	3.48	02	- 5127DA	- AV (-B)	- 1003	*762	*77.7	7260	740			

Note: 1. Output motor speed is the representative value at 1750r/min (60Hz) and 175r/min (6Hz). Refer to page 32 for details.

2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Be careful for the models with asterisk, "*" They are models with torque limitation.
4. Constant torque operation (continuous operation) is possible when the unit is used with inverter motor in the frequency range 6Hz~60Hz. Operation with frequency range over base frequency (60Hz) will be constant output.
5. The unit will show reduced torque characteristics when the general inverter is used for operation with inverter.
6. Constant torque operation is possible using general motor when Sumitomo inverter (HF-320 or HF-320x) is used for sensorless operation. Refer to the specific catalog for details.
7. Consult us when using the unit with frequency over 60Hz.
8. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body											Motor		Slow-speed Shaft Unit										Mass
		CF	d	E	L	(L _B)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg		
V1	CNV02-507R-AV(-B)-Reduction Ratio	28	9	13	276	308	46	4	130	75	-	110	85	124	32	18	M6	0.4	18	6	6	3.5	8 (9.5)		
V2	CNV02-506H-AV(-B)-Reduction Ratio	41	6.6	12	274	306	38	4	104	65	-	90	85	124	28	13	M5	0.5	16	5	5	3	7.5 (9)		
V3	CNV02-5077-AV(-B)-Reduction Ratio	42	9	13	286	318	46	4	130	75	-	110	85	124	32	16	M6	1	18	6	6	3.5	8 (9.5)		
V4	CNV02-5087-AV(-B)-Reduction Ratio	47	9	13	299	331	54	4	130	75	-	110	85	124	40	16	M6	1	22	6	6	3.5	8 (9.5)		
V5	CNV02-5097-AV(-B)-Reduction Ratio	63	11	14	342	374	66	4	165	95	-	140	85	124	50	19	M8	2	28	8	7	4	11 (12)		
V6	CNV02-5097DR-AV(-B)-Reduction Ratio	63	11	14	373	405	66	4	165	95	-	140	85	124	50	19	M8	2	28	8	7	4	12 (13)		
V7	CNV02-5107DR-AV(-B)-Reduction Ratio	79	11	16	403	435	74	4	190	110	111	160	85	124	58	22	M10	2	32	10	8	5	15 (16)		
V8	CNV02-5117DR-AV(-B)-Reduction Ratio	161	14	18	443	475	86	6	215	130	128	185	85	124	68	22	M10	3	38	10	8	5	26 (27)		
V9	CNV02-5127DA-AV(-B)-Reduction Ratio	198	14	20	504	536	93	6	235	150	138	205	85	124	75	28	M12	3	42	12	8	5	34 (35)		

No.	Model	Main Body															Motor		Slow-speed Shaft Unit								Mass kg
		A	C	d	E	F	G	H1	L	(L _B)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1	
H1	CNHM02-507R-AV(-B)-Reduction Ratio	74	71	9	75	120	49	129	276	308	99	144	12	12	12	50	85	124	32	16	M6	0.4	18	6	6	3.5	8 (9.5)
H2	CNHM02-506H-AV(-B)-Reduction Ratio	79	71	6.6	40	112	47	130	274	306	65	130	12.5	9	7	45	85	124	28	13	M5	0.5	16	5	5	3	8 (9)
H3	CNHM02-5077-AV(-B)-Reduction Ratio	88	71	9	75	120	49	129	286	318	99	144	12	12	12	39	85	124	32	16	M6	1	18	6	6	3.5	8 (9.5)
H4	CNHM02-5087-AV(-B)-Reduction Ratio	101	80	9	75	120	57	138	299	331	99	144	12	12	13	39	85	124	40	16	M6	1	22	6	6	3.5	8.5 (10)
H5	CNHM02-5097-AV(-B)-Reduction Ratio	129	90	11	90	150	75	157	342	374	120	180	15	15	14	44	85	124	50	19	M8	2	28	8	7	4	11 (13)
H6	CNHM02-5097DR-AV(-B)-Reduction Ratio	129	90	11	90	150	75	157	373	405	120	180	15	15	14	44	85	124	50	19	M8	2	28	8	7	4	12 (13)
H7	CNHM02-5107DR-AV(-B)-Reduction Ratio	153	100	11	115	170	83	211	403	435	145	200	15	15	16	52	85	124	58	22	M10	2	32	10	8	5	16 (17)
H8	CNHM02-5117DR-AV(-B)-Reduction Ratio	247	120	14	135	190	95	248	443	475	175	230	20	20	18	60	85	124	68	22	M10	3	38	10	8	5	26 (29)
H9	CNHM02-5127DA-AV(-B)-Reduction Ratio	291	120	14	150	201	102	258	504	536	190	260	20	25	20	65	85	124	75	28	M12	3	42	12	8	5	36 (39)

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM)
0.4kW Three-Phase Motor for Inverter

Selection Tables

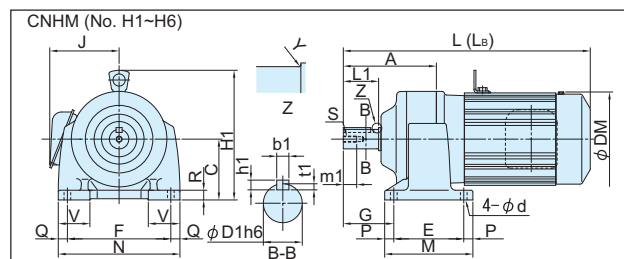
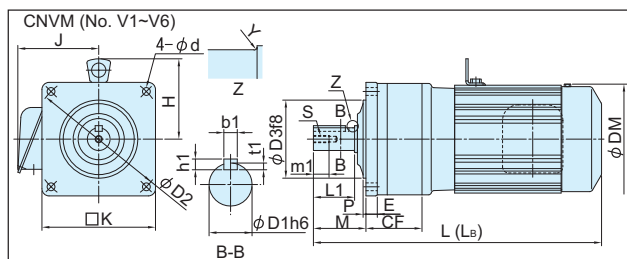
Reduction Ratio	Output Speed			Input Capacity Symbol	Frame Size	Suffix	Reduction Ratio	Output Torque Tout		Allowable Radial Load Pro		Dimension Table No.		
	r/min		Max. Allowable Speed					N·m	kgf·m	N	kgf	CNVM	CNHM	
	6Hz	60Hz												(120Hz)
3	58.3	583	1167	CNVM (Flange Mount) CNHM (Foot Mount)	05	- 508R	- AV (-B)	- 3	6.22	0.634	603	62.0	V1	H1
5	35.0	350	700		05	- 508R	- AV (-B)	- 5	10.4	1.06	1000	102		
6	29.2	292	584		05	- 5087	- AV (-B)	- 6	12.4	1.27	1000	102	V2	H2
8	21.9	219	438		05	- 5087	- AV (-B)	- 8	16.6	1.69	1000	102		
11	15.9	159	318		05	- 5087	- AV (-B)	- 11	22.8	2.33	1470	150		
13	13.5	135	270		05	- 5087	- AV (-B)	- 13	27.0	2.75	1470	150		
15	11.7	117	234		05	- 5087	- AV (-B)	- 15	31.1	3.17	1600	163		
17	10.3	103	206		05	- 5087	- AV (-B)	- 17	35.3	3.59	1810	185		
21	8.33	83.3	167		05	- 5087	- AV (-B)	- 21	43.5	4.44	2250	229	V3	H3
25	7.00	70.0	140		05	- 5087	- AV (-B)	- 25	51.8	5.28	2680	273		
29	6.03	60.3	121		05	- 5087	- AV (-B)	- 29	60.1	6.13	2700	275		
35	5.00	50.0	100		05	- 5087	- AV (-B)	- 35	72.6	7.40	2700	275		
43	4.07	40.7	81.4		05	- 5097	- AV (-B)	- 43	89.2	9.09	3430	350		
51	3.43	34.3	68.6		05	- 5097	- AV (-B)	- 51	106	10.8	3430	350		
59	2.97	29.7	59.4		05	- 5097	- AV (-B)	- 59	122	12.5	3430	350	V4	H4
71	2.46	24.6	49.2		05	- 5097	- AV (-B)	- 71	147	15.0	3430	350		
87	2.01	20.1	40.2		05	- 5107	- AV (-B)	- 87	180	18.4	4660	475	V5	H5
103	1.67	16.7	33.4		05	- 5107	- AV (-B)	- 103	206	21.0	4660	475		
119	1.47	14.7	29.4		05	- 5107	- AV (-B)	- 119	247	25.2	4660	475		
145	1.21	12.1	24.2		05	- 5127DR	- AV (-B)	- 145	285	29.0	7260	740	V6	H6
175	1.00	10.0	20.0		05	- 5127DR	- AV (-B)	- 175	344	35.0	7260	740		
215	0.81	8.1	16.3		05	- 5127DR	- AV (-B)	- 215	422	43.1	7260	740		
255	0.686	6.86	13.7		05	- 5127DR	- AV (-B)	- 255	501	51.1	7260	740		
295	0.593	5.93	11.9		05	- 5127DR	- AV (-B)	- 295	580	59.1	7260	740	V5	H5
355	0.493	4.93	9.86	05	- 5127DR	- AV (-B)	- 355	*604	*61.5	7260	740			
435	0.402	4.02	8.04	05	- 5127DR	- AV (-B)	- 435	*774	*78.9	7260	740	V6	H6	
559	0.313	3.13	6.26	05	- 5127DA	- AV (-B)	- 559	*711	*72.5	7260	740			
649	0.270	2.70	5.40	05	- 5127DA	- AV (-B)	- 649	*762	*77.7	7260	740			
731	0.239	2.39	4.78	05	- 5127DA	- AV (-B)	- 731	*711	*72.5	7260	740			

Note:

1. Output motor speed is the representative value at 1750r/min (60Hz) and 175r/min (6Hz). Refer to page 32 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Be careful for the models with asterisk, "*" They are models with torque limitation.
4. Constant torque operation (continuous operation) is possible when the unit is used with inverter motor in the frequency range 6Hz~60Hz. Operation with frequency range over base frequency (60Hz) will be constant output.
5. The unit will show reduced torque characteristics when the general inverter is used for operation with inverter.
6. Constant torque operation is possible using general motor when Sumitomo inverter (HF-320 or HF-320α) is used for sensorless operation. Refer to the specific catalog for details.
7. Consult us when using the unit with frequency over 60Hz.
8. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body										Motor		Slow-speed Shaft Unit										Mass (kg)
		CF	d	E	L	(L _B)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D2	b1	h1	t1		
V1	CNV05-508R-AV-(B)-Reduction Ratio	57	9	13	353	396	54	4	130	75	-	113	114	155	40	16	M6	0.4	22	6	6	3.5	13	(16)
V2	CNV05-5087-AV-(B)-Reduction Ratio	47	9	13	350	393	54	4	130	75	-	110	114	155	40	16	M6	1	22	6	6	3.5	11	(14)
V3	CNV05-5097-AV-(B)-Reduction Ratio	63	11	14	378	421	66	4	165	95	-	140	114	155	50	19	M8	2	28	8	7	4	13	(16)
V4	CNV05-5107-AV-(B)-Reduction Ratio	79	11	16	406	449	74	4	190	110	113	160	114	155	58	22	M10	2	32	10	8	5	17	(19)
V5	CNV05-5127DR-AV-(B)-Reduction Ratio	178	14	20	507	550	93	6	235	150	138	205	114	155	75	28	M12	3	42	12	8	5	37	(40)
V6	CNV05-5127DA-AV-(B)-Reduction Ratio	192	14	20	540	583	93	6	235	150	138	205	114	155	75	28	M12	3	42	12	8	5	37	(39)

No.	Model	Main Body																Motor		Slow-speed Shaft Unit								Mass
		A	C	d	E	F	G	H1	L	(L _a)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1		
H1	CNHM05-508R-AV-(B)-Reduction Ratio	111	80	9	75	120	57	193	353	396	99	144	12	12	13	50	114	155	40	16	M6	0.4	22	6	6	3.5	13 (16)	
H2	CNHM05-5087-AV-(B)-Reduction Ratio	101	80	9	75	120	57	193	350	393	99	144	12	12	13	39	114	155	40	16	M6	1	22	6	6	3.5	11 (14)	
H3	CNHM05-5097-AV-(B)-Reduction Ratio	129	90	11	90	150	75	203	378	421	120	180	15	15	14	44	114	155	50	19	M8	2	28	8	7	4	14 (17)	
H4	CNHM05-5107-AV-(B)-Reduction Ratio	153	100	11	115	170	83	213	406	449	145	200	15	15	16	52	114	155	58	22	M10	2	32	10	8	5	18 (20)	
H5	CNHM05-5127DR-AV-(B)-Reduction Ratio	265	120	14	150	210	102	258	507	550	190	260	20	25	20	65	114	155	75	28	M12	3	42	12	8	5	37 (40)	
H6	CNHM05-5127DA-AV-(B)-Reduction Ratio	291	120	14	150	210	102	258	540	583	190	260	20	25	20	65	114	155	75	28	M12	3	42	12	8	5	39 (42)	

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM) 0.75kW Three-Phase Motor for Inverter

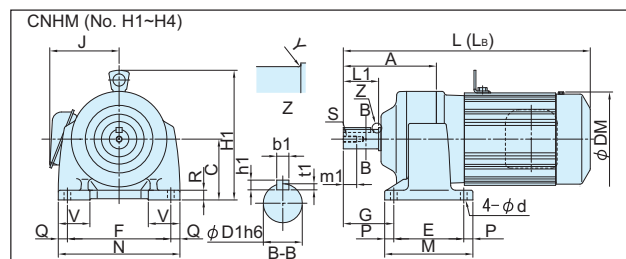
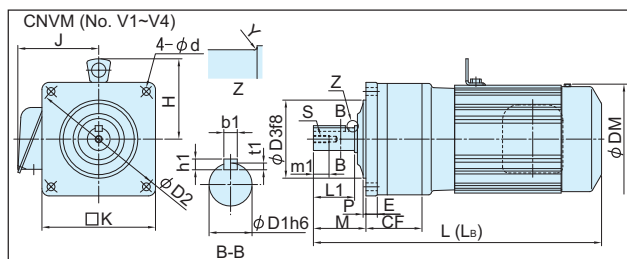
Selection Tables

Reduction Ratio	Output Speed r/min		Max. Allowable Speed (120Hz)	Input Capacity Symbol	Frame Size	Suffix	Reduction Ratio	Output Torque Tout		Allowable Radial Load Pro		Dimension Table No.	
	6Hz	60Hz						N·m	kgf·m	N	kgf	CNVM	CNHM
	60Hz	60Hz						60Hz	60Hz	60Hz	60Hz		
3	58.3	583	1167 (60Hz)	CNVM (Flange Mount) CNHM (Foot Mount)	1 - 509R - AV (-B) -	3	5	11.7	1.19	948	97.0	V1	H1
5	35.0	350	700 (60 Hz)					19.4	1.98	1580	161		
6	29.2	292	584					23.3	2.38	1960	200	V2	H2
8	21.9	219	438					31.1	3.17	2450	250		
11	15.9	159	318					42.8	4.36	2450	250		
13	13.5	135	270					50.5	5.15	2750	280		
15	11.7	117	234					58.3	5.95	2850	290		
17	10.3	103	206					66.1	6.74	3240	330		
21	8.33	83.3	167					81.7	8.32	3430	350	V3	H3
25	7.00	70.0	140					97.2	9.91	3430	350		
29	6.03	60.3	121					113	11.5	3430	350		
35	5.00	50.0	100					136	13.9	3430	350		
43	4.07	40.7	81.4					167	17.0	3430	350		
51	3.43	34.3	68.6					198	20.2	4660	475	V4	H4
59	2.97	29.7	59.4					229	23.4	4660	475		
71	2.46	24.6	49.2					276	28.1	4660	475		
87	2.01	20.1	40.2					338	34.5	4660	475		
105	1.67	16.7	33.4					387	39.4	7260	740		
125	1.40	14.0	29.4					460	46.9	7260	740		
145	1.21	12.1	24.2					534	54.4	7260	740		
175	1.00	10.0	20.0					645	65.7	7260	740		
215	0.814	8.14	16.3					*711	*72.5	7260	740		
255	0.686	6.86	13.7					*740	*75.4	7260	740		
295	0.593	5.93	11.9					*762	*77.7	7260	740		

- Note: 1. Output motor speed is the representative value at 1750r/min (60Hz) and 175r/min (6Hz). Refer to page 32 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Be careful for the models with asterisk, "*" They are models with torque limitation.
4. Constant torque operation (continuous operation) is possible when the unit is used with inverter motor in the frequency range 6Hz~60Hz.
Operation with frequency range over base frequency (60Hz) will be constant output.
5. The unit will show reduced torque characteristics when the general inverter is used for operation with inverter.
6. Constant torque operation is possible using general motor when Sumitomo inverter (HF-320 or HF-320α) is used for sensorless operation. Refer to the specific catalog for details.
7. Consult us when using the unit with frequency over 60Hz.
8. Models with "R" and "S" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body										Motor		Slow-speed Shaft Unit										Mass kg
		CF	d	E	L	(L _B)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1		
V1	CNVM1-509R-AV(-B)-Reduction Ratio	79	11	14	415	477	66	4	165	95	120	142	119	167	50	19	M8	0.4	28	8	7	4	21 (26)	
V2	CNVM1-5097-AV(-B)-Reduction Ratio	63	11	14	410	472	66	4	165	95	120	140	119	167	50	19	M8	2	28	8	7	4	17 (22)	
V3	CNVM1-5107-AV(-B)-Reduction Ratio	79	11	16	437	499	74	4	190	110	120	160	119	167	58	22	M10	2	32	10	8	5	21 (26)	
V4	CNVM1-5127DS-AV(-B)-Reduction Ratio	185	14	20	548	610	93	6	235	150	138	205	119	167	75	28	M12	3	42	12	8	5	42 (47)	

No.	Model	Main Body															Motor		Slow-speed Shaft Unit								Mass
		A	C	d	E	F	G	H1	L	(L _B)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg
H1	CNHM1-509R-AV(-B)-Reduction Ratio	145	90	11	90	150	75	210	415	477	120	180	15	15	14	70	119	167	50	19	M8	0.4	28	8	7	4	21 (26)
H2	CNHM1-5097-AV(-B)-Reduction Ratio	129	90	11	90	150	75	210	410	472	120	180	15	15	14	44	119	167	50	19	M8	2	28	8	7	4	18 (23)
H3	CNHM1-5107-AV(-B)-Reduction Ratio	153	100	11	115	170	83	220	437	499	145	200	15	15	16	52	119	167	58	22	M10	2	32	10	8	5	21 (27)
H4	CNHM1-5127DS-AV(-B)-Reduction Ratio	278	120	14	150	210	102	258	548	610	190	260	20	25	20	65	119	167	75	28	M12	3	42	12	8	5	43 (48)

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM) 1.5kW Three-Phase Motor for Inverter

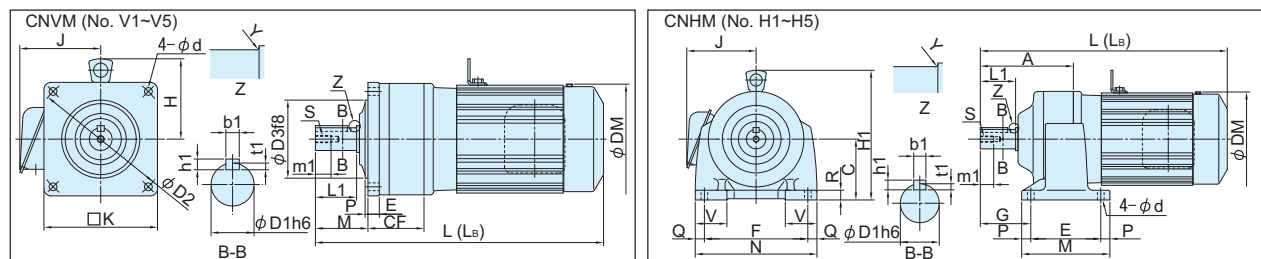
Selection Tables

Reduction Ratio	Output Speed r/min			Input Capacity Symbol	Frame Size	Suffix	Reduction Ratio	Output Torque Tout		Allowable Radial Load Pro		Dimension Table No.	
	6Hz	60Hz	Max. Allowable Speed (120Hz)					N·m	kgf·m	N	kgf	CNVM	CNHM
3	58.3	583	1167 (60Hz)	CNVM (Flange Mount) CNHM (Foot Mount)	2	- 509R	- AV (-B) - 3	23.3	2.38	948	97.0	V1	H1
5	35.0	350	700 (60Hz)		2	- 509R	- AV (-B) - 5	38.9	3.96	1580	161		
6	29.2	292	584		2	- 5097	- AV (-B) - 6	46.7	4.76	1960	200	V2	H2
8	21.9	219	438		2	- 5097	- AV (-B) - 8	62.2	6.34	2450	250		
11	15.9	159	318		2	- 5097	- AV (-B) - 11	85.5	8.72	2450	250		
13	13.5	135	270		2	- 5097	- AV (-B) - 13	101	10.3	2750	280		
15	11.7	117	234		2	- 5097	- AV (-B) - 15	117	11.9	2850	290	V3	H3
17	10.3	103	206		2	- 5097	- AV (-B) - 17	132	13.5	3240	330		
21	8.33	83.3	167		2	- 5097	- AV (-B) - 21	163	16.6	3430	350		
25	7.00	70.0	140		2	- 5107	- AV (-B) - 25	194	19.8	4660	475		
29	6.03	60.3	121		2	- 5107	- AV (-B) - 29	226	23.0	4660	475	V4	H4
35	5.00	50.0	100		2	- 5107	- AV (-B) - 35	272	27.7	4660	475		
43	4.07	40.7	81.4		2	- 5107	- AV (-B) - 43	334	34.1	4660	475		
51	3.43	34.3	68.6		2	- 5117	- AV (-B) - 51	397	40.4	5690	580	V5	H5
59	2.97	29.7	59.4		2	- 5117	- AV (-B) - 59	459	46.8	5690	580		
71	2.46	24.6	49.2		2	- 5127	- AV (-B) - 71	552	56.3	7260	740	V5	H5
87	2.01	20.1	40.2		2	- 5127	- AV (-B) - 87	677	69.0	7260	740		

- Note: 1. Output motor speed is the representative value at 1750r/min (60Hz) and 175r/min (6Hz). Refer to page 32 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Constant torque operation (continuous operation) is possible when the unit is used with inverter motor in the frequency range 6Hz~60Hz. Operation with frequency range over base frequency (60Hz) will be constant output.
4. The unit will show reduced torque characteristics when the general inverter is used for operation with inverter.
5. Constant torque operation is possible using general motor when Sumitomo inverter (HF-320 or HF-320α) is used for sensorless operation. Refer to the specific catalog for details.
6. Consult us when using the unit with frequency over 60Hz.
7. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body											Motor		Slow-speed Shaft Unit								Mass kg
		CF	d	E	L	(L _B)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1	
V1	CNVM2-509R-AV(-B)-Reduction Ratio	79	11	14	435	498	66	4	165	95	126	142	126	180	50	19	M8	0.4	28	8	7	4	25 (32)
V2	CNVM2-5097-AV(-B)-Reduction Ratio	63	11	14	430	493	66	4	165	95	126	140	126	180	50	19	M8	2	28	8	7	4	23 (30)
V3	CNVM2-5107-AV(-B)-Reduction Ratio	79	11	16	456	519	74	4	190	110	126	160	126	180	58	22	M10	2	32	10	8	5	25 (31)
V4	CNVM2-5117-AV(-B)-Reduction Ratio	88	14	18	490	553	86	6	215	130	126	185	126	180	68	22	M10	3	38	10	8	5	36 (42)
V5	CNVM2-5127-AV(-B)-Reduction Ratio	93	14	20	502	565	93	6	235	150	126	205	126	180	75	28	M12	3	42	12	8	5	44 (50)

No.	Model	Main Body															Motor		Slow-speed Shaft Unit										Mass
		A	C	d	E	F	G	H1	L	(L _B)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg		
H1	CNHM2-509R-AV(-B)-Reduction Ratio	145	90	11	90	150	75	216	435	498	120	180	15	15	14	70	126	180	50	19	M8	0.4	28	8	7	4	25 (32)		
H2	CNHM2-5097-AV(-B)-Reduction Ratio	129	90	11	90	150	75	216	430	493	120	180	150	15	14	44	126	180	50	19	M8	2	28	8	7	4	24 (31)		
H3	CNHM2-5107-AV(-B)-Reduction Ratio	153	100	11	115	170	83	226	456	519	145	200	15	15	16	52	126	180	58	22	M10	2	32	10	8	5	26 (32)		
H4	CNHM2-5117-AV(-B)-Reduction Ratio	174	120	14	135	190	95	246	490	553	175	230	20	20	18	60	126	180	68	22	M10	3	38	10	8	5	39 (48)		
H5	CNHM2-5127-AV(-B)-Reduction Ratio	186	120	14	150	210	102	246	502	565	190	260	20	25	20	65	126	180	75	28	M12	3	42	12	8	5	46 (52)		

Gearmotors, Flange Mount Type (CNVM), Foot Mount Type (CNHM)

2.2kW Three-Phase Motor for Inverter

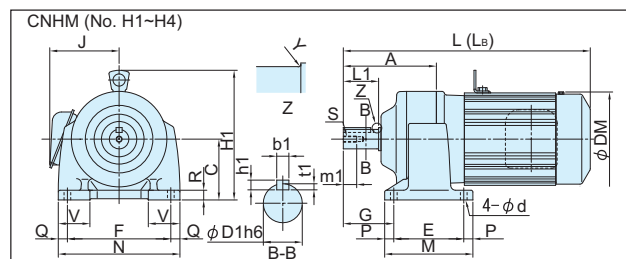
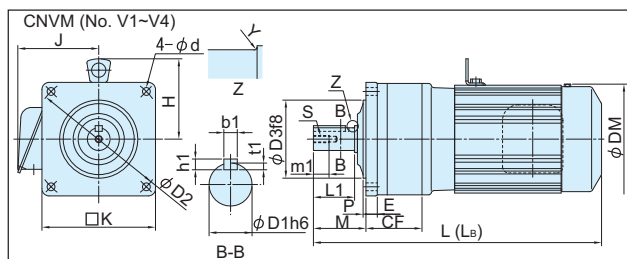
Selection Tables

Reduction Ratio	Output Speed r/min			Input Capacity - Symbol	Frame Size	Suffix	Reduction Ratio	Output Torque Tout		Allowable Radial Load Pro		Dimension Table No.	
	6Hz	60Hz	Max. Allowable Speed (120Hz)					N·m	kgf·m	N	kgf	CNVM	CNHM
	60Hz	60Hz	(120Hz)					60Hz	60Hz	60Hz	60Hz		
3	58.3	583	1167	CNVM (Flange Mount) CNHM (Foot Mount)	3	- 510R	- AV (-B) - 3	34.2	3.49	1220	124	V1	H1
5	35.0	350	700		3	- 510R	- AV (-B) - 5	57.0	5.81	2030	207		
8	21.9	219	438		3	- 5107	- AV (-B) - 8	91.2	9.30	2970	303		
11	15.9	159	318		3	- 5107	- AV (-B) - 11	125	12.8	2970	303		
13	13.5	135	270		3	- 5107	- AV (-B) - 13	148	15.1	3510	358	V2	H2
15	11.7	117	234		3	- 5107	- AV (-B) - 15	171	17.4	4050	413		
17	10.3	103	206		3	- 5107	- AV (-B) - 17	194	19.8	4590	468		
21	8.33	83.3	167		3	- 5107	- AV (-B) - 21	240	24.4	4660	475		
25	7.00	70.0	140		3	- 5117	- AV (-B) - 25	285	29.1	5690	580	V3	H3
29	6.03	60.3	121		3	- 5117	- AV (-B) - 29	331	33.7	5690	580		
35	5.00	50.0	100		3	- 5117	- AV (-B) - 35	399	40.7	5690	580		
43	4.07	40.7	81.4		3	- 5117	- AV (-B) - 43	490	50.0	5690	580		
51	3.43	34.3	68.6		3	- 5127	- AV (-B) - 51	582	59.3	7260	740	V4	H4
59	2.97	29.7	59.4		3	- 5127	- AV (-B) - 59	673	68.6	7260	740		

- Note: 1. Output motor speed is the representative value at 1750r/min (60Hz) and 175r/min (6Hz). Refer to page 32 for details.
2. Radial load at slow speed shaft is the value at the middle of the slow speed shaft.
3. Constant torque operation (continuous operation) is possible when the unit is used with inverter motor in the frequency range 6Hz~60Hz. Operation with frequency range over base frequency (60Hz) will be constant output.
4. The unit will show reduced torque characteristics when the general inverter is used for operation with inverter.
5. Constant torque operation is possible using general motor when Sumitomo inverter (HF-320 or HF-320α) is used for sensorless operation. Refer to the specific catalog for details.
6. Consult us when using the unit with frequency over 60Hz.
7. Models with "R" at the end of the nomenclature are the traction drive type. Make sure to read page 8 for cautions on traction drive types.

Dimension Tables

Figure in the bracket () shows the dimension for types with brake.



No.	Model	Main Body											Motor		Slow-speed Shaft Unit										Mass
		CF	d	E	L	(L _B)	M	P	D2	D3	H	K	J	DM	L1	m1	S	Y	D1	b1	h1	t1			
V1	CNVM3-510R-AV(-B)-Reduction Ratio	92	11	16	515	587	74	4	190	110	146	160	147	222	58	22	M10	0.4	32	10	8	5	38 (48)		
V2	CNVM3-5107-AV(-B)-Reduction Ratio	79	11	16	515	587	74	4	190	110	146	160	147	222	58	22	M10	2	32	10	8	5	37 (47)		
V3	CNVM3-5117-AV(-B)-Reduction Ratio	88	14	18	516	588	86	6	215	130	146	185	147	222	68	22	M10	3	38	10	8	5	45 (55)		
V4	CNVM3-5127-AV(-B)-Reduction Ratio	93	14	20	528	600	93	6	235	150	146	205	147	222	75	28	M12	3	42	12	8	5	54 (63)		

No.	Model	Main Body															Motor		Slow-speed Shaft Unit										Mass
		A	C	d	E	F	G	H1	L	(L _B)	M	N	P	Q	R	V	J	DM	L1	m1	S	Y	D1	b1	h1	t1	kg		
H1	CNHM3-510R-AV-(B)-Reduction Ratio	166	100	11	115	170	83	246	515	587	145	200	15	15	16	75	147	222	58	22	M10	0.4	32	10	8	5	38 (48)		
H2	CNHM3-5107-AV-(B)-Reduction Ratio	153	100	11	115	170	83	246	515	587	145	200	15	15	16	52	147	222	58	22	M10	2	32	10	8	5	38 (48)		
H3	CNHM3-5117-AV-(B)-Reduction Ratio	174	120	14	135	190	95	266	516	588	175	230	20	20	18	60	147	222	68	22	M10	3	38	10	8	5	48 (57)		
H4	CNHM3-5127-AV-(B)-Reduction Ratio	186	120	14	150	210	102	266	528	600	190	260	20	25	20	65	147	222	75	28	M12	3	42	12	8	5	56 (65)		

Gearmotor's Moment of Inertia $J \cdot GD^2$ (Motor Shaft Equivalent)

Unit: J (Moment of Inertia)
[10⁻⁴kg·m²] GD²
[10⁻⁴kgf·m²]

Motor Type		90W		0.1kW (F-56L) ^{Note 1}		0.1kW (F-63S) ^{Note 1}		0.2kW	
		J	GD ²	J	GD ²	J	GD ²	J	GD ²
Three-Phase Motor Indoor Type	Without Brake	1.32	5.29	1.52	6.07	3.48	13.9	5.28	21.1
	With Brake	1.40	5.59	1.52	6.08	3.73	14.9	5.78	23.1
Single-Phase Motor Indoor Type	Without Brake	1.97	7.89	-	-	5.23	20.9	6.78	27.1
	With Brake	2.05	8.19	-	-	5.73	22.9	7.03	28.1
Motor for Inverter Indoor Type	Without Brake	-	-	-	-	5.23	20.9	6.78	27.1
	With Brake	-	-	-	-	5.73	22.9	7.03	28.1

Motor Type		0.25kW		0.4kW		0.55kW		0.75kW	
		J	GD ²	J	GD ²	J	GD ²	J	GD ²
Three-Phase Motor Indoor Type	Without Brake	5.44	21.8	6.95	27.8	10.8	43.2	13.1	52.3
	With Brake	5.94	23.8	7.20	28.8	11.8	47.2	14.1	56.3
Single-Phase Motor Indoor Type	Without Brake	-	-	12.7	50.7	-	-	-	-
	With Brake	-	-	13.7	54.7	-	-	-	-
Motor for Inverter Indoor Type	Without Brake	-	-	12.7	50.7	-	-	24.1	96.3
	With Brake	-	-	13.7	54.7	-	-	26.3	105

Motor Type		1.1kW		1.5kW		2.2kW	
		J	GD ²	J	GD ²	J	GD ²
Three-Phase Motor Indoor Type	Without Brake	21.3	85.3	24.1	96.3	37.1	149
	With Brake	23.6	94.3	26.3	105	41.1	165
Single-Phase Motor Indoor Type	Without Brake	-	-	-	-	-	-
	With Brake	-	-	-	-	-	-
Motor for Inverter Indoor Type	Without Brake	-	-	36.1	144	88.6	355
	With Brake	-	-	40.1	160	99.6	399

Note 1: Indoor type Without brake

0.1kW reducer 1/6-1/51: motor frame size F-56L

0.1kW reducer 1/3, 1/5, 1/59-1/1003: motor frame size F-63S

Indoor type With brake

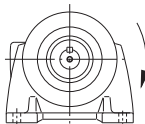
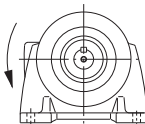
0.1kW reducer 1/6-1/51: motor frame size F-56L

0.1kW reducer 1/3, 1/5, 1/59-1/1003: motor frame size F-63S

Slow Speed Shaft Direction

1. Gearmotor

Slow speed shaft direction when wired as shown on page 35.

When the wires are connected as shown on page 35, the motor shaft turns in the right direction, viewed from the non-loading side. At that time, the slow speed shaft rotary direction is as shown by the arrow in the figures.		
Frame Size	5067, 506H, 5077, 5087, 5097, 5107, 5117, 5127, 5097DR, 5107DR, 5117DR, 5127DR, 5127DS	507R, 508R, 509R, 510R, 5107DA, 5127DA
Rotational Direction of Slow Speed Shaft (Viewed from the load side)		

- Switch wire R and T when for reverse rotation of a standard three-phase motor.
- Change over the switch SW (as in page 35) to reverse the rotation of a 90W single-phase motor.
- Stop the motor and switch wire X and Y for reverse the rotation of a 0.1 - 0.4kW single-phase motor.

2. Reducer

Frame Size	5067, 506H, 5077, 5087, 5097, 5107, 5117, 5127, 5097DR, 5107DR, 5117DR, 5127DR, 5127DS	507R, 508R, 509R, 510R, 5107DA, 5127DA
Rotational Direction of Slow Speed Shaft	Reverse direction from the input shaft.	Same direction as the input shaft

*Consult us for details on the selection and dimensions of a reducer.

Actual Reduction Ratio

Reduction ratio shown for each model (nominal reduction ratio) basically represents the actual reduction ratio. However, some conditions differ according to the frame size. Refer to the table below.

Frame Size	5067 5107	506H 5117	5077 5127	5087 5107DA	5097 5127DA
Actual Reduction Ratio	All values should be integral, and the reduction ratio (nominal reduction ratio) shown for each model represents the actual reduction ratio.				

Frame Size	507R 5107DR	508R 5117DR	509R 5127DR	510R 5127DS	5097DR
Actual Reduction Ratio	The traction drive has been used in the decelerating unit and the actual reduction ratio varies slightly, depending on the driving load condition. Actual Reduction Gear Ratio = Nominal Reduction Gear Ratio x (0.997 to 1.003)				

Lubrication

Standard Lubrication

- Long-life grease packed in the gear section does not require top-up for an extended period of time. However, you can extend the life of the unit by changing grease after every 20,000 hours of operation or every 3 to 5 years.
- Request the overhaul with our service office, as overhauling a gearmotor requires experienced service personnel.

Note: Regarding oil seal

Oil seal has limited lifetime. Sealing effect may lower by natural degradation or abrasion by prolonged use. Seal life may vary depending on operation condition and ambient condition of the reducer. Oil seal change every 1~3 years is recommended for normal operation (uniform load, 10 hours/day, at normal temperature).

Technical Data

Characteristics for Global Motor

1. Three-Phase Motor (Without Brake/With Brake, Indoor)

1) 200V Class

Poles		4P														
Power		200V-50Hz					200V-60Hz					220V-60Hz				
Output [kW]	Motor Frame Size	Rated Current [A]	Max. Torque [%]	Starting Torque [%]	Starting Current [A]	Speed [r/min]	Rated Current [A]	Max. Torque [%]	Starting Torque [%]	Starting Current [A]	Speed [r/min]	Rated Current [A]	Max. Torque [%]	Starting Torque [%]	Starting Current [A]	Speed [r/min]
0.09	F-56L	0.65	264	254	2.1	1370	0.56	230	204	1.9	1640	0.57	289	271	2.1	1680
0.1	F-56L ^{Note 1}	0.69	235	226	2.1	1350	0.60	205	182	1.9	1620	0.60	257	242	2.1	1660
0.1	F-63S ^{Note 1}	0.69	265	281	2.7	1420	0.60	236	245	2.5	1700	0.62	285	297	2.8	1720
0.2	F-63M	1.24	232	233	4.6	1410	1.09	210	207	4.2	1700	1.09	254	250	4.8	1720
0.25	F-63M	1.40	205	225	5.2	1380	1.28	177	189	4.6	1660	1.24	228	251	5.2	1690
0.4	F-71M	2.35	237	237	9.1	1410	2.05	210	210	8.3	1700	2.02	257	257	9.4	1730
0.55	F-80S	2.82	219	227	11.2	1410	2.58	190	189	10.5	1680	2.47	237	240	11.7	1710
0.75	F-80M	3.88	234	215	16.0	1420	3.43	211	190	15.1	1720	3.35	253	242	16.8	1740
1.1	F-90S	5.33	246	225	26.5	1420	4.86	210	194	24.4	1690	4.65	263	246	27.2	1720
1.5	F-90L	6.97	233	224	34.1	1430	6.29	205	192	31.2	1710	6.00	250	243	34.9	1730
2.2	F-100L	9.74	268	255	52.0	1430	8.90	229	204	46.6	1700	8.38	282	260	52.0	1720

Note 1: For ALTAX NEO 0.1kW, the motor frame size changes for the following types.

[kW]	Motor Frame Size	Reduction Ratio Range		
		Indoor Type	Outdoor Type • Light Dust-proof Type	
		Without Brake/With Brake	Without Brake	With Brake
0.1	F-56L	1/6 - 1/51	1/6 - 1/51	-
0.1	F-63S	1/3, 1/5, 1/59 - 1/1003	1/3, 1/5, 1/59 - 1/1003	1/3 - 1/1003

*Consult us for confirmed values. Values above are subject to change without notice.

2) 400V Class

Poles		4P														
Power		400V-50Hz					400V-60Hz					440V-60Hz				
Output [kW]	Motor Frame Size	Rated Current [A]	Max. Torque [%]	Starting Torque [%]	Starting Current [A]	Speed [r/min]	Rated Current [A]	Max. Torque [%]	Starting Torque [%]	Starting Current [A]	Speed [r/min]	Rated Current [A]	Max. Torque [%]	Starting Torque [%]	Starting Current [A]	Speed [r/min]
0.09	F-56L	0.33	253	232	1.0	1370	0.28	220	232	0.9	1640	0.29	276	247	1.0	1670
0.1	F-56L ^{Note 2}	0.35	225	206	1.0	1340	0.30	196	206	0.9	1610	0.30	246	220	1.0	1650
0.1	F-63S ^{Note 2}	0.36	255	261	1.3	1420	0.31	219	224	1.2	1700	0.32	277	289	1.4	1720
0.2	F-63M	0.62	233	236	2.3	1410	0.55	202	202	2.1	1700	0.55	257	266	2.4	1720
0.25	F-63M	0.70	205	225	2.6	1380	0.64	177	189	2.3	1660	0.62	228	251	2.6	1690
0.4	F-71M	1.23	229	229	4.5	1420	1.04	197	201	4.1	1700	1.04	249	262	4.6	1740
0.55	F-80S	1.41	219	227	5.6	1410	1.29	190	189	5.3	1680	1.24	237	240	5.9	1710
0.75	F-80M	1.94	234	215	8.0	1420	1.72	211	190	7.6	1720	1.68	253	242	8.4	1740
1.1	F-90S	2.67	246	225	13.3	1420	2.43	210	194	12.2	1690	2.33	263	246	13.6	1720
1.5	F-90L	3.49	233	224	17.1	1430	3.15	205	192	15.6	1710	3.00	250	243	17.5	1730
2.2	F-100L	4.87	268	255	26.0	1430	4.45	229	204	23.3	1700	4.19	282	260	26.0	1720

Note 2: For ALTAX NEO 0.1kW, the motor frame size changes for the following types.

[kW]	Motor Frame Size	Reduction Ratio Range		
		Indoor Type	Outdoor Type • Light Dust-proof Type	
		Without Brake/With Brake	Without Brake	With Brake
0.1	F-56L	1/6 - 1/51	1/6 - 1/51	-
0.1	F-63S	1/3, 1/5, 1/59 - 1/1003	1/3, 1/5, 1/59 - 1/1003	1/3 - 1/1003

*Consult us for confirmed values. Values above are subject to change without notice.

2. Single-Phase Motor (Without Brake/With Brake, Indoor)

1) 100V Class

Poles		4P									
Power		100V-50Hz					100V-60Hz				
Output [kW]	Motor Frame Size	Rated Current [A]	Max. Torque [%]	Starting Torque [%]	Starting Current [A]	Speed [r/min]	Rated Current [A]	Max. Torque [%]	Starting Torque [%]	Starting Current [A]	Speed [r/min]
0.09	FS-56L	1.6	154	72	3.5	1350	1.6	168	88	3.2	1650
0.1	FS-63M	2.8	240	223	10.4	1450	2.2	233	242	10.0	1740
0.2	FS-71M	4.1	217	224	17.5	1440	3.3	213	196	16.8	1730
0.4	FS-80M	6.8	210	224	31.8	1440	5.8	210	232	32.5	1740

2) 200V Class

Poles		4P									
Power		200V-50Hz					200V-60Hz				
Output [kW]	Motor Frame Size	Rated Current [A]	Max. Torque [%]	Starting Torque [%]	Starting Current [A]	Speed [r/min]	Rated Current [A]	Max. Torque [%]	Starting Torque [%]	Starting Current [A]	Speed [r/min]
0.09	FS-56L	0.78	152	75	1.7	1340	0.79	172	99	1.5	1640
0.1	FS-63M	1.4	236	208	5.4	1450	1.1	231	194	5.0	1740
0.2	FS-71M	2.1	217	200	8.7	1440	1.7	210	180	8.2	1730
0.4	FS-80M	3.4	221	210	16.2	1440	2.9	213	206	16.4	1740

3. Gearmotor for Inverter (Without Brake/With Brake, Indoor)

1) 200V, 400V Class

Poles		4P															
Voltage		200 Class								400 Class							
Power		200V-60Hz				220V-60Hz				400V-60Hz				440V-60Hz			
Output [kW]	Motor Frame Size	Frequency [Hz]	Voltage [V]	Rated Current [A]	Speed [r/min]	Frequency [Hz]	Voltage [V]	Rated Current [A]	Speed [r/min]	Frequency [Hz]	Voltage [V]	Rated Current [A]	Speed [r/min]	Frequency [Hz]	Voltage [V]	Rated Current [A]	Speed [r/min]
0.1	FA-63S	60	200	0.83	1750	60	220	0.91	1760	60	400	0.42	1750	60	440	0.46	1760
		6	34	0.75	120	6	34	0.75	120	6	68	0.37	125	6	68	0.38	125
0.2	FA-63M	60	200	1.5	1750	60	220	1.6	1760	60	400	0.74	1755	60	440	0.84	1765
		6	34	1.5	130	6	34	1.5	130	6	68	0.75	130	6	68	0.75	130
0.4	FA-71M	60	200	2.3	1735	60	220	2.4	1745	60	400	1.2	1735	60	440	1.2	1745
		6	35	2.2	115	6	35	2.2	115	6	70	1.1	115	6	70	1.1	115
0.75	FA-80M	60	200	3.9	1740	60	220	4.0	1755	60	400	1.9	1740	60	440	2.0	1755
		6	31	3.9	120	6	31	3.9	120	6	62	1.9	120	6	62	1.9	120
1.5	FA-90L	60	200	6.6	1720	60	220	6.4	1735	60	400	3.3	1720	60	440	3.2	1735
		6	33	6.5	105	6	33	6.5	105	6	66	3.2	105	6	66	3.2	105
2.2	FA-100L	60	200	9.3	1745	60	220	9.1	1755	60	400	4.7	1745	60	440	4.5	1755
		6	31	9.4	140	6	31	9.3	140	6	62	4.7	140	6	62	4.7	140

*Consult us for confirmed values. Values above are subject to change without notice.

Technical Data

Characteristics of Brakes

1. Three-Phase Motor, Characteristics of the Electromagnetic Brake

Brake Type	Motor Capacity	Standard Torque [N·m]	Moment of Inertia [x 10 ⁻⁴ kgm ²]	Total Braking Energy [x 10 ⁷ J]	Motion Delay Time [s]		Brake Current [A]				
					Standard Braking Action	Fast Braking Action	200V 50/60Hz	220V 60Hz	380V 50Hz	400V 50/60Hz	440V 60Hz
RB-01A	90W 0.1kW	0.8	1.5	1.0	0.08 - 0.1	0.03 - 0.04	0.05	0.05	-	0.02	0.03
FB-01A1	90W 0.1kW	1.0	3.5	12	0.15 - 0.2	0.015 - 0.02	0.07	0.08	0.03	0.04	0.04
FB-02A1	0.2kW 0.25kW	2.0	5.5	12	0.15 - 0.2	0.015 - 0.02	0.1	0.1	0.05	0.05	0.06
FB-05A1	0.25kW 0.4kW	4.0	6.8	12	0.1 - 0.15	0.01 - 0.015	0.1	0.1	0.05	0.05	0.06
FB-1B	0.55kW 0.75kW	7.5	13	33	0.2 - 0.3	0.01 - 0.02	0.1	0.1	0.1	0.1	0.1
FB-2B	1.1kW 1.5kW	15	24	38	0.2 - 0.3	0.01 - 0.02	0.3	0.3	0.1	0.1	0.2
FB-3B	2.2kW	22	38	45	0.3 - 0.4	0.01 - 0.02	0.3	0.3	0.1	0.1	0.2

2. Single-Phase Motor, Characteristics of the Electromagnetic Brake

Brake Type	Motor Capacity	Standard Torque [N·m]	Moment of Inertia [x 10 ⁻⁴ kgm ²]	Total Braking Energy [x 10 ⁷ J]	Motion Delay Time [s]		Brake Current [A]	
					Standard Braking Action	Fast Braking Action	100V 50/60Hz	200V 60Hz
RB-01A	90W	0.8	1.5	1.0	0.08 - 0.1	0.03 - 0.04	0.08	0.05
FB-01A1	0.1kW	1.0	5.5	12	0.15 - 0.2	0.015 - 0.02	0.1	0.1
FB-02A1	0.2kW	2.0	6.8	12	0.15 - 0.2	0.015 - 0.02	0.1	0.1
FB-1B	0.4kW	4.0	13	33	0.3 - 0.4	0.01 - 0.02	0.2	0.2

3. Three-Phase Motor for Inverter, Characteristics of the Electromagnetic Brake

Brake Type	Motor Capacity	Standard Torque [N·m]	Moment of Inertia [x 10 ⁻⁴ kgm ²]	Total Braking Energy [x 10 ⁷ J]	Motion Delay Time [s]		Brake Current [A]			
					Standard Braking Action	Fast Braking Action	200V 50/60Hz	220V 60Hz	400V 50/60Hz	440V 60Hz
FB-02A1	0.1kW	2.0	5.5	12	0.08 - 0.12	0.015 - 0.02	0.1	0.1	0.05	0.06
FB-05A1	0.2kW	4.0	6.8	12	0.03 - 0.07	0.01 - 0.015	0.1	0.1	0.05	0.06
FB-1B	0.4kW	7.5	13	33	0.1 - 0.15	0.01 - 0.02	0.1	0.1	0.1	0.1
FB-2B	0.75kW	15	24	38	0.1 - 0.15	0.01 - 0.02	0.3	0.3	0.1	0.2
FB-3B	1.5kW	22	38	45	0.15 - 0.2	0.01 - 0.02	0.3	0.3	0.1	0.2
FB-5B	2.2kW	37	96	235	0.2 - 0.25	0.01 - 0.02	0.5	0.6	0.3	0.3

- The figure is continuous rating for brake.
- Avoid conducting power to the brake continuously while the motor at stop.
- Brake lining does not contain asbestos.
- The brakes have a mechanical service life of 2 million brakings under general usage conditions.
- The rectifier is built into the brake section for 90W or 0.1kW RB brakes, and in the terminal box for FB brakes of 0.1kW or above.
- Use a quick braking circuit for use in hoisting machines or for higher braking precision.
- FB brakes needs DC power supply, and the spring braking system (non-electromagnetic braking system) is adopted.
- The "standard torque" above represents dynamic friction torque.

4. Rectifier's Output Voltage for Brakes with Three-Phase Motor and Three-Phase Motor for Inverter

Rectifier's output voltage for Three-phase brake

Input Voltage	Output Voltage
AC200V	DC90V
AC220V	DC99V
AC400V	DC180V
AC440V	DC198V

Why Quick Braking Circuit Shortens Braking Time

Refer to the Standard Circuit and Quick Braking Circuit for differences between standard braking circuit and fast braking circuit.

Refer to the Current Curve of Standard Braking and Current Curve of Quick Braking for current curves of standard braking and fast braking.

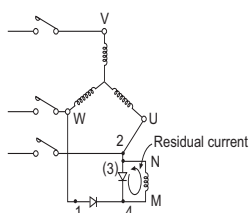


Fig. 1 Standard Circuit

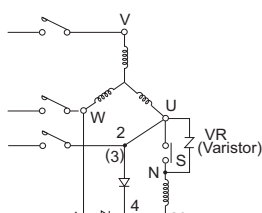


Fig. 2 Quick Braking Circuit

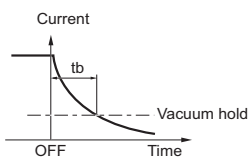


Fig. 3 Current Curve of Standard Braking Circuit

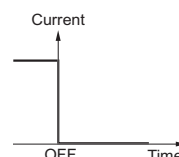
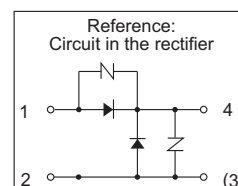


Fig. 4 Current Curve of Quick Braking Circuit



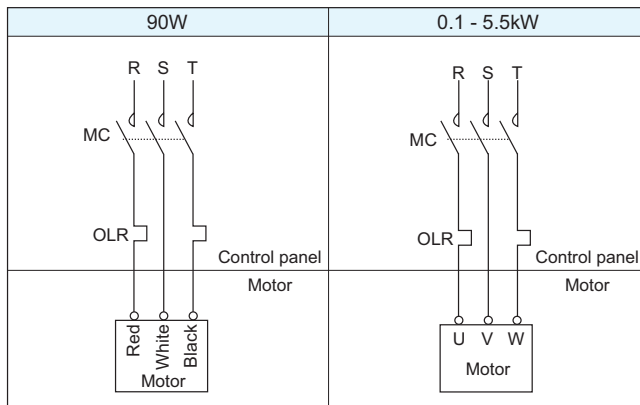
In the standard circuit shown in Fig. 1 Standard Circuit, some current remains after the power is turned off. This is due to the energy charged in the inductance L of the brake coil. The current curve is shown in Fig. 3 Current Curve of Standard Braking.

When it is connected to the fast braking circuit as shown in Fig. 2 Quick Braking Circuit and S is released at the same time, no current remains as there is no closed circuit with the brake coil. (Refer to Fig. 4)

Therefore, it shortens the braking time by t_b as shown in Fig. 3.

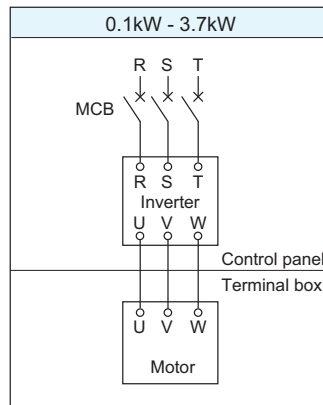
Fast braking circuit is to release all current by ON/OFF of brake coil at the same time with power ON/OFF. (Always use VR varistor to protect the rectifier and connection S .)

1. Connection for a Three-Phase Motor (without Brake)



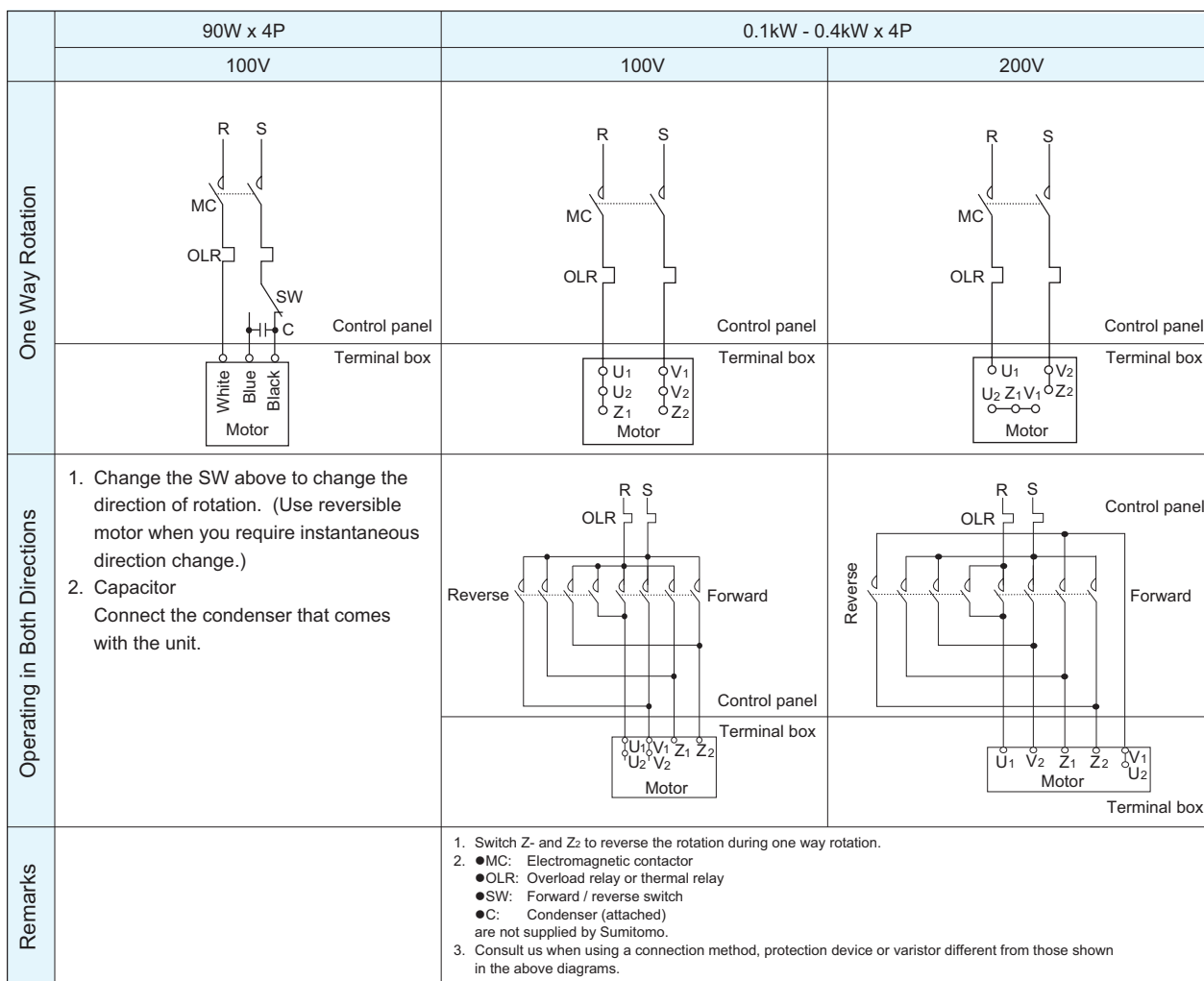
Note: MC: Electromagnetic contactor
OLR: Overload relay or thermal relay } are not supplied by Sumitomo.

2. Connection for a Three-Phase Motor for Inverter (without Brake)



Note: MCB (wiring breaker) is not supplied by Sumitomo.

3. Connection for a Single-Phase Motor (without Brake)



*Refer to the relevant instruction manual for wiring for gearmotors with brake.

Technical Data

Standard Paint Properties and Color

1. Standard Paint Properties

ALTAX NEO

Model	Treatment	Paint Type		Additional Leadtime [Days]	Paint Specifications			Applied Paint	Weather Resistance	Submersible	Oil-proof	Acid Resistance	Alkaline Resistance	Heat Resistance [°C]	Application
		Classification	Paint Type (Top-coat)		Type	Layers (Thickness [μ])	Quality								
90W - 2.2kW Indoor / outdoor three-phase / single-phase motor Motor for inverter	Cast Iron: Near Whiteblast cleaning	Standard	-	0	Under coat	1 (20 - 40)	Modified alkyd resin	Unigrand PTC Primer						100	Standard under coat
	Steel plate: Power tool cleaning		Acrylic urethane	0	Finish coat	1 (15 - 30)	Acrylic urethane resin	Liac 4000 PTC	◎	△	△	◇	◇	100	Standard finish coat

◎○◇: Appropriate

△: Caution
necessary for
selection

×: Inappropriate

2. Standard Paint Color

ALTAX NEO

Model	Paint Color
90W - 2.2kW Indoor / outdoor Three-phase / single-phase motor Motor for inverter	Munsell 5Y 8/1 or equivalent (approximate)

Warranty Standards and Safety Precautions

Warranty Standard

Warranty Period	The warranty period for the Products shall be 18 months after the commencement of delivery or 18 months after the shipment of the Products from the seller's works or 12 months from the Products coming into operation, whichever comes first.
Warranty Condition	In the event that any problem or damage to the Product arises during the "Warranty Period" from defects in the Product whenever the Product is properly installed and combined with the Buyer's equipment or machines, maintained as specified in the maintenance manual, and properly operated under the conditions described in the catalog or as otherwise agreed upon in writing between the Seller and the Buyer or its customers; the Seller will provide, at its sole discretion, appropriate repair or replacement of the Product without charge at a designated facility, except as stipulated in the "Warranty Exclusions" as described below. However, if the Product is installed or integrated into the Buyer's equipment or machines, the Seller shall not reimburse the cost of: removal or re-installation of the Product or other incidental costs related thereto, any lost opportunity, any profit loss or other incidental or consequential losses or damages incurred by the Buyer or its customers.
Warranty Exclusions	Notwithstanding the above warranty, the warranty as set forth herein shall not apply to any problem or damage to the Product that is caused by: 1. Installation, connection, combination or integration of the Product in or to the other equipment or machine that is rendered by any person or entity other than the Seller; 2. Insufficient maintenance or improper operation by the Buyer or its customers, such that the Product is not maintained in accordance with the maintenance manual provided or designated by the Seller; 3. Improper use or operation of the Product by the Buyer or its customers that is not informed to the Seller, including, without limitation, the Buyer's or its customers, operation of the Product not in conformity with the specifications, or use of lubricating oil in the Product that is not recommended by the Seller; 4. Any problem or damage on any equipment or machine to which the Product is installed, connected or combined or on any specifications particular to the Buyer or its customers; 5. Any changes, modifications, improvements or alterations to the Product or those functions that are rendered on the Product by any person or entity other than the Seller; 6. Any parts in the Product that are supplied or designated by the Buyer or its customers; 7. Earthquake, fire, flood, sea-breeze, gas, thunder, acts of God or any other reasons beyond the control of the Seller; 8. Normal wear and tear, or deterioration of the Product's parts, such as bearings, oil-seals; 9. Any other troubles, problems or damage to the Product that are not attributable to the Seller.

For Users of the Gearmotor:

SAFETY PRECAUTIONS

- Observe safety rules for installation site and equipment strictly (Industrial Safety and Health Law, Technical Standard for Electric Facilities, Extension Rules, Plant Explosion guidelines, Building Standards Law, etc.)
- Read the maintenance manual carefully before use. Request one from the distributor you purchased from or our sales department if it is not handy. The maintenance manual must reach the actual user.
- Select an appropriate product to match the operating environment and application.
- Install protective equipment on the machine side when the machine is used for passenger transportation and elevators, escalators, and dumb waiters.
- Use a flameproof type motor for use in explosive environment. Select a flameproof type motor with appropriate specifications sufficient for hazardous locations.
- When the 400V class standard motor is driven with the inverter, the high carrier frequency shape (ex. IGBT: Insulated Gate Bipolar Transistor) inverter with higher input voltage (400V or more) or insulation pressure for the motor in the case of long distance wiring, should be considered. In such case, consult us. (The motor for inverter is designed to be of insulation reinforced type).
- Install an oil pan or other devices to prevent oil or grease leakage, just in case of failure or termination of service life, for oil-sensitive applications such as food processing and clean rooms.

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