

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

| Mounting style | |
|----------------|---|
| Foot | H |
| V flange | V |
| Flange | F |

| Type of Input | |
|---------------|----|
| Gearmotor | M |
| With adaptor | JM |

| Special Specifications | |
|------------------------|-------|
| Standard specification | blank |
| Special specification | S |

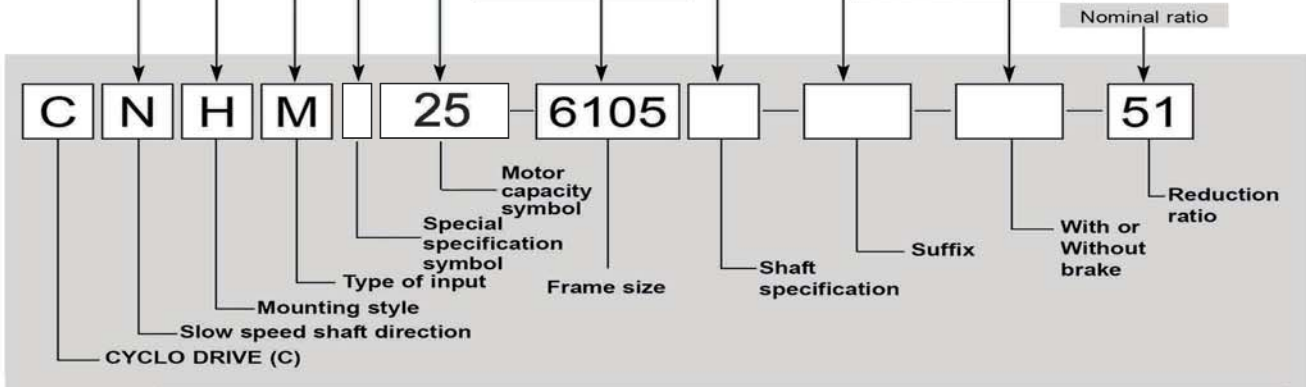
| | | Motor Capacity Symbol | | | | | | |
|----|-----------------|-----------------------|-----------|------------|-----------|------------|-----------|--|
| 4P | Capacity symbol | 01 | 02 | 03 | 05 | 08 | 1 | |
| | kW (HP) | 0.1 (1/8) | 0.2 (1/4) | 0.25 (1/3) | 0.4 (1/2) | 0.55 (3/4) | 0.75 (1) | |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

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

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

| With or Without Brake | |
|-----------------------|---|
| Without brake | - |
| With brake | B |

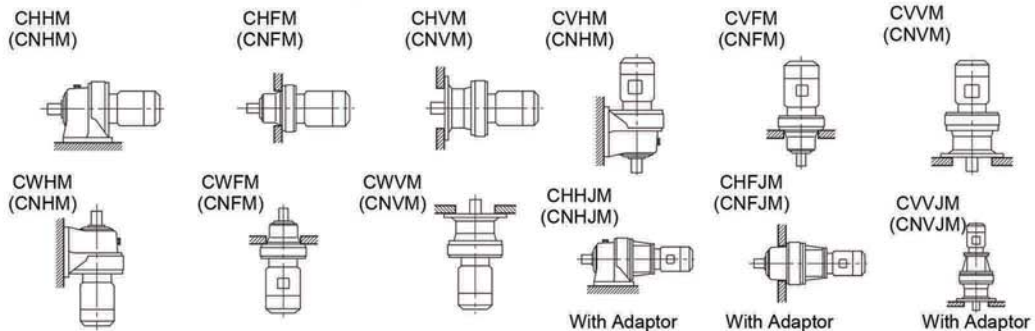
Frame size
(Refer to Selection
Tables starting from
page B-13.)



Product and Nomenclature Symbol Examples (Gearmotor)

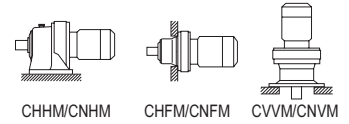
Standard and various application products of CYCLO GEARMOTOR are classified by their nomenclature symbol as below. Refer to specific catalogs or consult us for details on our application products.

CYCLO® GEARMOTORS



Selection Tables Gearmotors #CNHM25, #CHHM25, #CNVM25, #CVVM25

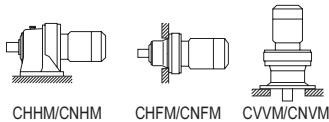
| | | | | | | |
|---------|----------------|-------|------|-----|------|------|
| 18.5 kW | Hz | | 50Hz | | 60Hz | |
| | P | | 4 | 6 | 4 | 6 |
| | n ₁ | r/min | 1450 | 980 | 1750 | 1165 |



| 50Hz | | | | | | 60Hz | | | | | | Nomenclature | | | Page of Dimension Sheet | | |
|---|---------------------------------------|------|--|-------------|-------------|---|---------------------------------------|------|--|-------------|-------------|-----------------------|-------------|-----------------|-------------------------|--------------|--------------|
| Output Speed n ₂ r/min | Output Torque Tout N·m kgf·m | | Allowable Radial Load Pro N kgf | | SF | Output Speed n ₂ r/min | Output Torque Tout N·m kgf·m | | Allowable Radial Load Pro N kgf | | SF | Input Capacity Symbol | Frame Size | Reduction Ratio | CNHM CHHM | CNFM CHFM | CNVM CVVM |
| 242 | 695 | 70.8 | 10200 | 1030 | 1.10 | 292 | 575 | 58.7 | 9590 | 978 | 1.10 | 25 - | 6160 | - 6 | B-103 | B-119 | B-138 |
| | | | 10200 | 1030 | 1.30 | | | | 9590 | 978 | 1.30 | 25 - | 6165 | - 6 | B-103 | B-119 | B-138 |
| | | | 11500 | 1180 | 1.49 | | | | 10900 | 1110 | 1.49 | 25 - | 6170 | - 6 | B-103 | B-119 | B-138 |
| | | | 11500 | 1180 | 1.63 | | | | 10900 | 1110 | 1.63 | 25 - | 6175 | - 6 | B-103 | B-119 | B-138 |
| 181 | 926 | 94.4 | 11300 | 1150 | 1.06 | 219 | 767 | 78.2 | 10700 | 1090 | 1.06 | 25 - | 6160 | - 8 | B-103 | B-119 | B-138 |
| | | | 11300 | 1150 | 1.30 | | | | 10700 | 1090 | 1.30 | 25 - | 6165 | - 8 | B-103 | B-119 | B-138 |
| | | | 12700 | 1300 | 1.49 | | | | 12000 | 1220 | 1.49 | 25 - | 6170 | - 8 | B-103 | B-119 | B-138 |
| | | | 12700 | 1300 | 1.63 | | | | 12000 | 1220 | 1.63 | 25 - | 6175 | - 8 | B-103 | B-119 | B-138 |
| 132 | 1270 | 130 | 12700 | 1300 | 1.06 | 159 | 1060 | 108 | 12100 | 1230 | 1.06 | 25 - | 6160 | - 11 | B-103 | B-119 | B-138 |
| | | | 12700 | 1300 | 1.30 | | | | 12100 | 1230 | 1.30 | 25 - | 6165 | - 11 | B-103 | B-119 | B-138 |
| | | | 14600 | 1490 | 1.49 | | | | 13800 | 1410 | 1.49 | 25 - | 6170 | - 11 | B-103 | B-119 | B-138 |
| | | | 14600 | 1490 | 1.63 | | | | 13800 | 1410 | 1.63 | 25 - | 6175 | - 11 | B-103 | B-119 | B-138 |
| | | | 19500 | 1990 | 1.90 | | | | 18400 | 1880 | 1.90 | 25 - | 6180 | - 11 | B-104 | B-120 | B-139 |
| | | | 19500 | 1990 | 2.11 | | | | 18400 | 1880 | 2.11 | 25 - | 6185 | - 11 | B-104 | B-120 | B-139 |
| | | | 27400 | 2790 | 2.22 | | | | 25800 | 2630 | 2.22 | 25 - | 6190 | - 11 | B-104 | B-120 | B-139 |
| 27400 | 2790 | 2.60 | 25800 | 2630 | 2.60 | 25 - | 6195 | - 11 | B-104 | B-120 | B-139 | | | | | | |
| 112 | 1500 | 153 | 13300 | 1350 | 1.06 | 135 | 1250 | 127 | 12600 | 1280 | 1.06 | 25 - | 6160 | - 13 | B-103 | B-119 | B-138 |
| | | | 13300 | 1350 | 1.22 | | | | 12600 | 1280 | 1.22 | 25 - | 6165 | - 13 | B-103 | B-119 | B-138 |
| | | | 15200 | 1550 | 1.48 | | | | 14300 | 1460 | 1.48 | 25 - | 6170 | - 13 | B-103 | B-119 | B-138 |
| | | | 15200 | 1550 | 1.63 | | | | 14300 | 1460 | 1.63 | 25 - | 6175 | - 13 | B-103 | B-119 | B-138 |
| | | | 20300 | 2070 | 1.90 | | | | 19100 | 1950 | 1.90 | 25 - | 6180 | - 13 | B-104 | B-120 | B-139 |
| | | | 20300 | 2070 | 2.11 | | | | 19100 | 1950 | 2.11 | 25 - | 6185 | - 13 | B-104 | B-120 | B-139 |
| | | | 28500 | 2900 | 2.22 | | | | 26800 | 2730 | 2.22 | 25 - | 6190 | - 13 | B-104 | B-120 | B-139 |
| 28500 | 2900 | 2.60 | 26800 | 2730 | 2.60 | 25 - | 6195 | - 13 | B-104 | B-120 | B-139 | | | | | | |
| 96.7 | 1740 | 177 | 14000 | 1430 | 1.01 | 117 | 1440 | 147 | 13300 | 1350 | 1.01 | 25 - | 6160 | - 15 | B-103 | B-119 | B-138 |
| | | | 14000 | 1430 | 1.21 | | | | 13300 | 1350 | 1.22 | 25 - | 6165 | - 15 | B-103 | B-119 | B-138 |
| | | | 15800 | 1620 | 1.38 | | | | 15000 | 1530 | 1.38 | 25 - | 6170 | - 15 | B-103 | B-119 | B-138 |
| | | | 15800 | 1620 | 1.63 | | | | 15000 | 1530 | 1.63 | 25 - | 6175 | - 15 | B-103 | B-119 | B-138 |
| | | | 21400 | 2180 | 1.75 | | | | 20200 | 2060 | 1.75 | 25 - | 6180 | - 15 | B-104 | B-120 | B-139 |
| | | | 21400 | 2180 | 2.11 | | | | 20200 | 2060 | 2.11 | 25 - | 6185 | - 15 | B-104 | B-120 | B-139 |
| | | | 29900 | 3050 | 2.22 | | | | 28100 | 2870 | 2.22 | 25 - | 6190 | - 15 | B-104 | B-120 | B-139 |
| 29900 | 3050 | 2.60 | 28100 | 2870 | 2.60 | 25 - | 6195 | - 15 | B-104 | B-120 | B-139 | | | | | | |
| 85.3 | 1970 | 201 | 14400 | 1460 | 1.02 | 103 | 1630 | 166 | 13600 | 1390 | 1.02 | 25 - | 6165 | - 17 | B-103 | B-119 | B-138 |
| | | | 14400 | 1460 | 1.06 | | | | 13600 | 1390 | 1.06 | 25 - | 6170 | - 17 | B-103 | B-119 | B-138 |
| | | | 16500 | 1680 | 1.30 | | | | 15600 | 1590 | 1.30 | 25 - | 6175 | - 17 | B-103 | B-119 | B-138 |
| | | | 16500 | 1680 | 1.65 | | | | 15600 | 1590 | 1.65 | 25 - | 6180 | - 17 | B-104 | B-120 | B-139 |
| | | | 22600 | 2300 | 2.06 | | | | 21300 | 2170 | 2.11 | 25 - | 6185 | - 17 | B-104 | B-120 | B-139 |
| | | | 22600 | 2300 | 2.22 | | | | 21300 | 2170 | 2.22 | 25 - | 6190 | - 17 | B-104 | B-120 | B-139 |
| | | | 31500 | 3210 | 2.60 | | | | 29700 | 3020 | 2.60 | 25 - | 6195 | - 17 | B-104 | B-120 | B-139 |
| 31500 | 3210 | 2.60 | 29700 | 3020 | 2.60 | 25 - | 6195 | - 17 | B-104 | B-120 | B-139 | | | | | | |
| 69.0 | 2430 | 248 | 15300 | 1550 | 0.86 | 83.3 | 2010 | 205 | 14500 | 1480 | 0.87 | 25 - | 6165 | - 21 | B-103 | B-119 | B-138 |
| | | | 17700 | 1800 | 1.01 | | | | 16800 | 1710 | 1.05 | 25 - | 6170 | - 21 | B-103 | B-119 | B-138 |
| | | | 17700 | 1800 | 1.28 | | | | 16800 | 1710 | 1.30 | 25 - | 6175 | - 21 | B-103 | B-119 | B-138 |
| | | | 24200 | 2470 | 1.62 | | | | 22800 | 2330 | 1.62 | 25 - | 6180 | - 21 | B-104 | B-120 | B-139 |
| | | | 24200 | 2470 | 2.06 | | | | 22800 | 2330 | 2.11 | 25 - | 6185 | - 21 | B-104 | B-120 | B-139 |
| | | | 33900 | 3450 | 2.22 | | | | 31900 | 3250 | 2.22 | 25 - | 6190 | - 21 | B-104 | B-120 | B-139 |
| | | | 33900 | 3450 | 2.60 | | | | 31900 | 3250 | 2.60 | 25 - | 6195 | - 21 | B-104 | B-120 | B-139 |
| 58.0 | 2890 | 295 | 18200 | 1860 | 1.05 | 70.0 | 2400 | 244 | 17300 | 1760 | 1.05 | 25 - | 6175 | - 25 | B-103 | B-119 | B-138 |
| | | | 25100 | 2560 | 1.30 | | | | 23700 | 2410 | 1.30 | 25 - | 6180 | - 25 | B-104 | B-120 | B-139 |
| | | | 25100 | 2560 | 1.63 | | | | 23700 | 2410 | 1.63 | 25 - | 6185 | - 25 | B-104 | B-120 | B-139 |
| | | | 35400 | 3610 | 1.90 | | | | 33300 | 3400 | 1.90 | 25 - | 6190 | - 25 | B-104 | B-120 | B-139 |
| | | | 35400 | 3610 | 2.19 | | | | 33300 | 3400 | 2.19 | 25 - | 6195 | - 25 | B-104 | B-120 | B-139 |

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

Selection Tables Gearmotors #CNHM25, #CHHM25, #CNVM25, #CVVM25



| | | | | | | |
|----------------|----------------|-------|------|-----|------|------|
| 18.5 kW | Hz | | 50Hz | | 60Hz | |
| | P | | 4 | 6 | 4 | 6 |
| | n ₁ | r/min | 1450 | 980 | 1750 | 1165 |

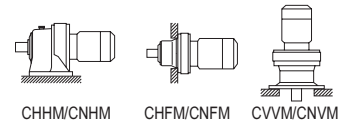
| 50Hz | | | | | 60Hz | | | | | Nomenclature | | | Page of Dimension Sheet | | | | |
|---|---------------------------------------|------|--|--------------|-------------|---|---------------------------------------|------|--|--------------|-------------|--------------------------|-------------------------|-----------------|--------------|--------------|--------------|
| Output Speed n ₂ r/min | Output Torque Tout N·m kgf·m | | Allowable Radial Load Pro N kgf | | SF | Output Speed n ₂ r/min | Output Torque Tout N·m kgf·m | | Allowable Radial Load Pro N kgf | | SF | Input Capacity Symbol | Frame Size | Reduction Ratio | CNHM CHHM | CNFM CHFM | CNVM CVVM |
| 50.0 | 3360 | 342 | 19000 | 1940 | 0.94 | 60.3 | 2780 | 284 | 18100 | 1840 | 1.02 | 25 - | 6175 | - 29 | B-103 | B-119 | B-138 |
| | | | 26100 | 2660 | 1.05 | | | | 24700 | 2520 | 1.05 | 25 - | 6180 | - 29 | B-104 | B-120 | B-139 |
| | | | 26100 | 2660 | 1.30 | | | | 24700 | 2520 | 1.30 | 25 - | 6185 | - 29 | B-104 | B-120 | B-139 |
| | | | 37200 | 3790 | 1.66 | | | | 35000 | 3570 | 1.66 | 25 - | 6190 | - 29 | B-104 | B-120 | B-139 |
| | | | 37200 | 3790 | 2.04 | | | | 35000 | 3570 | 2.04 | 25 - | 6195 | - 29 | B-104 | B-120 | B-139 |
| | | | 68700 | 7000 | 2.47 | | | | 65000 | 6630 | 2.47 | 25 - | 6205 | - 29 | B-105 | B-121 | B-140 |
| 41.4 | 4050 | 413 | 27800 | 2830 | 1.00 | 50.0 | 3360 | 342 | 26300 | 2680 | 1.02 | 25 - | 6180 | - 35 | B-104 | B-120 | B-139 |
| | | | 27800 | 2830 | 1.22 | | | | 26300 | 2680 | 1.22 | 25 - | 6185 | - 35 | B-104 | B-120 | B-139 |
| | | | 39200 | 3990 | 1.31 | | | | 36900 | 3760 | 1.31 | 25 - | 6190 | - 35 | B-104 | B-120 | B-139 |
| | | | 39200 | 3990 | 1.63 | | | | 36900 | 3760 | 1.63 | 25 - | 6195 | - 35 | B-104 | B-120 | B-139 |
| 33.7 | 4980 | 507 | 29500 | 3010 | 1.01 | 40.7 | 4120 | 420 | 28000 | 2850 | 1.02 | 25 - | 6185 | - 43 | B-104 | B-120 | B-139 |
| | | | 42000 | 4290 | 1.13 | | | | 39600 | 4040 | 1.13 | 25 - | 6190 | - 43 | B-104 | B-120 | B-139 |
| | | | 42000 | 4290 | 1.46 | | | | 39600 | 4040 | 1.63 | 25 - | 6195 | - 43 | B-104 | B-120 | B-139 |
| | | | 77300 | 7880 | 1.72 | | | | 73200 | 7460 | 1.72 | 25 - | 6205 | - 43 | B-105 | B-121 | B-140 |
| | | | 78900 | 8050 | 2.44 | | | | 74700 | 7620 | 2.44 | 25 - | 6215 | - 43 | B-105 | B-121 | B-140 |
| | | | 30400 | 3100 | 0.82 | | | | 28900 | 2940 | 0.82 | 25 - | 6185 | - 51 | B-104 | B-120 | B-139 |
| 28.4 | 5900 | 602 | 43700 | 4460 | 0.98 | 34.3 | 4890 | 499 | 41300 | 4210 | 0.98 | 25 - | 6190 | - 51 | B-104 | B-120 | B-139 |
| | | | 43700 | 4460 | 1.13 | | | | 41300 | 4210 | 1.13 | 25 - | 6195 | - 51 | B-104 | B-120 | B-139 |
| | | | 45700 | 4660 | 1.02 | | | | 43100 | 4400 | 1.02 | 25 - | 6195 | - 59 | B-104 | B-120 | B-139 |
| 24.6 | 6830 | 696 | 83900 | 8550 | 1.22 | 29.7 | 5660 | 577 | 79400 | 8100 | 1.22 | 25 - | 6205 | - 59 | B-105 | B-121 | B-140 |
| | | | 85600 | 8730 | 1.83 | | | | 81100 | 8270 | 2.04 | 25 - | 6215 | - 59 | B-105 | B-121 | B-140 |
| | | | 90800 | 9250 | 2.12 | | | | 86000 | 8760 | 2.44 | 25 - | 6225 | - 59 | B-106 | B-122 | B-141 |
| | | | 47400 | 4830 | 1.08 | | | | 45000 | 4580 | 1.24 | 256 - | 6195 | - 43 | B-104 | B-120 | B-139 |
| 22.8 | 7360 | 751 | 88400 | 9010 | 1.72 | 27.1 | 6190 | 631 | 84100 | 8570 | 2.04 | 256 - | 6215 | - 43 | B-105 | B-121 | B-140 |
| | | | 93700 | 9550 | 2.17 | | | | 89100 | 9090 | 2.58 | 256 - | 6225 | - 43 | B-106 | B-122 | B-141 |
| | | | 48100 | 4910 | 0.84 | | | | 45500 | 4640 | 0.84 | 25 - | 6195 | - 71 | B-104 | B-120 | B-139 |
| 20.4 | 8220 | 838 | 95600 | 9740 | 1.06 | 24.6 | 6810 | 694 | 90600 | 9240 | 1.16 | 25 - | 6215 | - 87 | B-105 | B-121 | B-140 |
| | | | 101000 | 10300 | 1.44 | | | | 96100 | 9790 | 1.44 | 25 - | 6225 | - 87 | B-106 | B-122 | B-141 |
| 16.7 | 10100 | 1030 | 95700 | 9760 | 1.25 | 20.1 | 8340 | 851 | 91100 | 9290 | 1.49 | 256 - | 6215 | - 59 | B-105 | B-121 | B-140 |
| | | | 102000 | 10300 | 1.57 | | | | 96700 | 9850 | 1.80 | 256 - | 6225 | - 59 | B-106 | B-122 | B-141 |
| | | | 127000 | 12900 | 1.87 | | | | 120000 | 12300 | 2.04 | 256 - | 6235 | - 59 | B-106 | B-122 | B-142 |
| | | | 104000 | 10600 | 0.86 | | | | 101000 | 10300 | 1.03 | 25 - | 6215DB | - 121 | B-113 | B-130 | B-149 |
| 12.0 | 13300 | 1350 | 113000 | 11500 | 1.01 | 14.5 | 11000 | 1120 | 107000 | 10900 | 1.22 | 25 - | 6225DB | - 121 | B-113 | B-130 | B-149 |
| | | | 142000 | 14500 | 1.37 | | | | 134000 | 13700 | 1.37 | 25 - | 6235DA | - 121 | B-114 | B-131 | B-150 |
| | | | 142000 | 14500 | 1.41 | | | | 134000 | 13700 | 1.70 | 25 - | 6235DB | - 121 | B-114 | B-131 | B-150 |
| | | | 158000 | 16100 | 1.55 | | | | 150000 | 15300 | 1.87 | 25 - | 6245DB | - 121 | B-114 | B-131 | B-150 |
| | | | 194000 | 19800 | 1.72 | | | | 184000 | 18700 | 1.72 | 25 - | 6255DA | - 121 | B-115 | B-132 | B-151 |
| | | | 194000 | 19800 | 2.07 | | | | 184000 | 18700 | 2.50 | 25 - | 6255DB | - 121 | B-115 | B-132 | B-151 |
| | | | 237000 | 24200 | 2.36 | | | | 224000 | 22900 | 2.74 | 25 - | 6265DA | - 121 | B-115 | B-132 | B-151 |
| | | | 113000 | 11500 | 1.01 | | | | 108000 | 11000 | 1.20 | 256 - | 6225 | - 87 | B-106 | B-122 | B-141 |
| | | | 142000 | 14400 | 1.15 | | | | 135000 | 13700 | 1.30 | 256 - | 6235 | - 87 | B-106 | B-122 | B-142 |
| | | | 159000 | 16200 | 1.52 | | | | 151000 | 15400 | 1.74 | 256 - | 6245 | - 87 | B-107 | B-123 | B-142 |
| 195000 | 19900 | 2.08 | 186000 | 18900 | 2.32 | 256 - | 6255 | - 87 | B-107 | B-123 | B-142 | | | | | | |
| 8.79 | 18100 | 1840 | 14500 | 1480 | *1 | 10.6 | 15000 | 1530 | 14500 | 1480 | *1 | 25 - | 6225DB | - 165 | B-113 | B-130 | B-149 |
| | | | 121000 | 12400 | 0.80 | | | | 115000 | 11800 | 0.97 | 25 - | 6225DB | - 165 | B-113 | B-130 | B-149 |
| | | | 151000 | 15400 | 1.08 | | | | 144000 | 14600 | 1.31 | 25 - | 6235DA | - 165 | B-114 | B-131 | B-150 |
| | | | 170000 | 17300 | 1.37 | | | | 161000 | 16400 | 1.37 | 25 - | 6245DA | - 165 | B-114 | B-131 | B-150 |
| | | | 170000 | 17300 | 1.45 | | | | 161000 | 16400 | 1.75 | 25 - | 6245DB | - 165 | B-114 | B-131 | B-150 |
| | | | 208000 | 21200 | 1.72 | | | | 197000 | 20100 | 1.72 | 25 - | 6255DA | - 165 | B-115 | B-132 | B-151 |
| | | | 208000 | 21200 | 1.72 | | | | 197000 | 20100 | 2.08 | 25 - | 6255DB | - 165 | B-115 | B-132 | B-151 |
| | | | 254000 | 25900 | 2.42 | | | | 240000 | 24500 | 2.74 | 25 - | 6265DA | - 165 | B-115 | B-132 | B-151 |

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

Selection Tables Gearmotors #CNHM25, #CHHM25, #CNVM25, #CVVM25

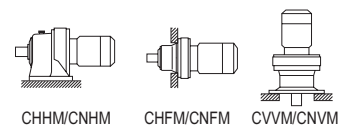
Selection Tables
18.5 kW, 22 kW

| | | | | | | |
|---------|----------------|-------|------|-----|------|------|
| 18.5 kW | Hz | | 50Hz | | 60Hz | |
| | P | | 4 | 6 | 4 | 6 |
| | n ₁ | r/min | 1450 | 980 | 1750 | 1165 |



| 50Hz | | | | | | 60Hz | | | | | | Nomenclature | | | Page of Dimension Sheet | | | | | | | | | | |
|--------------------------------|-----------------------|--------|------------------------------|--------------|-------------|--------------------------------|-----------------------|--------|------------------------------|--------------|-------------|--------------------------|------------|-----------------|-------------------------|---------------|--------------|--------------|--------------|--------------|--------|-------|-------|-------|-------|
| Output Speed n ₂ | Output Torque Tout | | Allowable Radial Load Pro | | SF | Output Speed n ₂ | Output Torque Tout | | Allowable Radial Load Pro | | SF | Input Capacity Symbol | Frame Size | Reduction Ratio | CNHM | CNFM | CNVM | | | | | | | | |
| r/min | N·m | kgf·m | N | kgf | | r/min | N·m | kgf·m | N | kgf | | | | | CHHM | CHFM | CVVM | | | | | | | | |
| 7.44 | 21400 | 2180 | 159000 | 16200 | 0.92 | 8.97 | 17700 | 1810 | 151000 | 15400 | 1.11 | 25 - | 6235DA | - 195 | B-114 | B-131 | B-150 | | | | | | | | |
| | | | 178000 | 18100 | 1.23 | | | | 169000 | 17200 | 1.29 | | | | 25 - | 6245DA | - 195 | B-114 | B-131 | B-150 | | | | | |
| | | | 178000 | 18100 | 1.23 | | | | 169000 | 17200 | 1.48 | | | | 25 - | 6245DB | - 195 | B-114 | B-131 | B-150 | | | | | |
| | | | 218000 | 22200 | 1.46 | | | | 207000 | 21100 | 1.72 | | | | 25 - | 6255DA | - 195 | B-115 | B-132 | B-151 | | | | | |
| | | | 218000 | 22200 | 1.46 | | | | 207000 | 21100 | 1.76 | | | | 25 - | 6255DB | - 195 | B-115 | B-132 | B-151 | | | | | |
| 6.28 | 25300 | 2580 | 189000 | 19300 | *1 | 7.58 | 21000 | 2140 | 188000 | 19200 | 1.04 | 25 - | 6245DA | - 231 | B-114 | B-131 | B-150 | | | | | | | | |
| | | | 189000 | 19300 | 1.02 | | | | 180000 | 18300 | 1.23 | | | | 25 - | 6245DA | - 231 | B-114 | B-131 | B-150 | | | | | |
| | | | 232000 | 23600 | 1.22 | | | | 219000 | 22400 | 1.48 | | | | 25 - | 6255DA | - 231 | B-115 | B-132 | B-151 | | | | | |
| | | | 276000 | 28100 | 1.82 | | | | 269000 | 27400 | 2.19 | | | | 25 - | 6265DA | - 231 | B-115 | B-132 | B-151 | | | | | |
| | | | 198000 | 20200 | 0.86 | | | | 188000 | 19200 | 1.04 | | | | 25 - | 6245DA | - 273 | B-114 | B-131 | B-150 | | | | | |
| 5.31 | 29900 | 3050 | 243000 | 24800 | 1.04 | 6.41 | 24800 | 2530 | 230000 | 23500 | 1.25 | 25 - | 6255DA | - 273 | B-115 | B-132 | B-151 | | | | | | | | |
| | | | 276000 | 28100 | 1.54 | | | | 276000 | 28100 | 1.85 | | | | 25 - | 6265DA | - 273 | B-115 | B-132 | B-151 | | | | | |
| | | | 258000 | 26300 | *1 | | | | 258000 | 26300 | *1 | | | | 25 - | 6245DA | - 319 | B-114 | B-131 | B-150 | | | | | |
| | | | 255000 | 26000 | 0.93 | | | | 242000 | 24600 | 1.12 | | | | 25 - | 6255DA | - 319 | B-115 | B-132 | B-151 | | | | | |
| | | | 276000 | 28100 | 1.31 | | | | 276000 | 28100 | 1.59 | | | | 25 - | 6265DA | - 319 | B-115 | B-132 | B-151 | | | | | |
| 4.55 | 35000 | 3570 | 248000 | 25300 | 1.95 | 5.49 | 29000 | 2950 | 248000 | 25300 | 2.35 | 25 - | 6275DA | - 319 | B-115 | - | B-151 | | | | | | | | |
| | | | 325000 | 33100 | *1 | | | | 325000 | 33100 | *1 | | | | 25 - | 6255DA | - 377 | B-115 | B-132 | B-151 | | | | | |
| | | | 276000 | 28100 | 1.11 | | | | 276000 | 28100 | 1.34 | | | | 25 - | 6265DA | - 377 | B-115 | B-132 | B-151 | | | | | |
| | | | 248000 | 25300 | 1.65 | | | | 248000 | 25300 | 1.99 | | | | 25 - | 6275DA | - 377 | B-115 | - | B-151 | | | | | |
| | | | 276000 | 28100 | 0.89 | | | | 276000 | 28100 | 1.07 | | | | 25 - | 6265DA | - 473 | B-115 | B-132 | B-151 | | | | | |
| 3.85 | 41300 | 4210 | 248000 | 25300 | 1.31 | 3.70 | 43000 | 4380 | 248000 | 25300 | 1.59 | 25 - | 6275DA | - 473 | B-115 | - | B-151 | | | | | | | | |
| | | | 276000 | 28100 | 0.89 | | | | 276000 | 28100 | 1.07 | | | | 25 - | 6265DA | - 473 | B-115 | B-132 | B-151 | | | | | |
| | | | 248000 | 25300 | 1.31 | | | | 248000 | 25300 | 1.59 | | | | 25 - | 6275DA | - 473 | B-115 | - | B-151 | | | | | |
| | | | 46000 | 4690 | 276000 | | | | 28100 | *1 | 3.13 | | | | 50800 | 5180 | 248000 | 25300 | 1.34 | 25 - | 6275DA | - 559 | B-115 | B-132 | B-151 |
| | | | 61300 | 6250 | 248000 | | | | 25300 | 1.11 | | | | | | | 50800 | 5180 | 248000 | | | | 25300 | 1.34 | 25 - |
| 71200 | 7250 | 248000 | 25300 | 0.96 | 2.70 | 59000 | 6010 | 248000 | 25300 | 1.16 | | 25 - | 6275DA | - 649 | | | B-115 | - | B-151 | | | | | | |
| 80200 | 8170 | 248000 | 25300 | 0.85 | 2.39 | 66400 | 6770 | 248000 | 25300 | 1.03 | | 25 - | 6275DA | - 731 | | | B-115 | - | B-151 | | | | | | |
| 68200 | 6950 | 248000 | 25300 | *1 | 2.08 | 68200 | 6950 | 248000 | 25300 | *1 | | 25 - | 6275DA | - 841 | | | B-115 | - | B-151 | | | | | | |

| | | | | | | |
|-------|----------------|-------|------|-----|------|------|
| 22 kW | Hz | | 50Hz | | 60Hz | |
| | P | | 4 | 6 | 4 | 6 |
| | n ₁ | r/min | 1450 | 980 | 1750 | 1165 |



| 50Hz | | | | | | 60Hz | | | | | | Nomenclature | | | Page of Dimension Sheet | | | | | |
|--------------------------------|-----------------------|-------|-------------------------------|-------------|-------------|--------------------------------|-----------------------|-------|-------------------------------|-------------|-------------|--------------------------|------------|-----------------|-------------------------|--------------|--------------|-------|-------|-------|
| Output Speed n ₂ | Output Torque Tout | | Alloeeable Radial Load Pro | | SF | Output Speed n ₂ | Output Torque Tout | | Alloeeable Radial Load Pro | | SF | Input Capacity Symbol | Frame Size | Reduction Ratio | CNHM | CNFM | CNVM | | | |
| r/min | N·m | kgf·m | N | kgf | | r/min | N·m | kgf·m | N | kgf | | | | | CHHM | CHFM | CVVM | | | |
| 242 | 826 | 84.2 | 10100 | 1020 | 1.10 | 292 | 684 | 69.8 | 9510 | 969 | 1.10 | 30 - | 6165 | - 6 | B-103 | B-119 | B-138 | | | |
| | | | 11500 | 1170 | 1.25 | | | | 10800 | 1100 | 1.25 | | | | 30 - | 6170 | - 6 | B-103 | B-119 | B-138 |
| | | | 11500 | 1170 | 1.37 | | | | 10800 | 1100 | 1.37 | | | | 30 - | 6175 | - 6 | B-103 | B-119 | B-138 |
| 181 | 1100 | 112 | 11200 | 1140 | 1.10 | 219 | 912 | 93.0 | 10600 | 1080 | 1.10 | 30 - | 6165 | - 8 | B-103 | B-119 | B-138 | | | |
| | | | 12600 | 1290 | 1.25 | | | | 11900 | 1220 | 1.25 | | | | 30 - | 6170 | - 8 | B-103 | B-119 | B-138 |
| | | | 12600 | 1290 | 1.37 | | | | 11900 | 1220 | 1.37 | | | | 30 - | 6175 | - 8 | B-103 | B-119 | B-138 |

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