

## Nomenclature

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

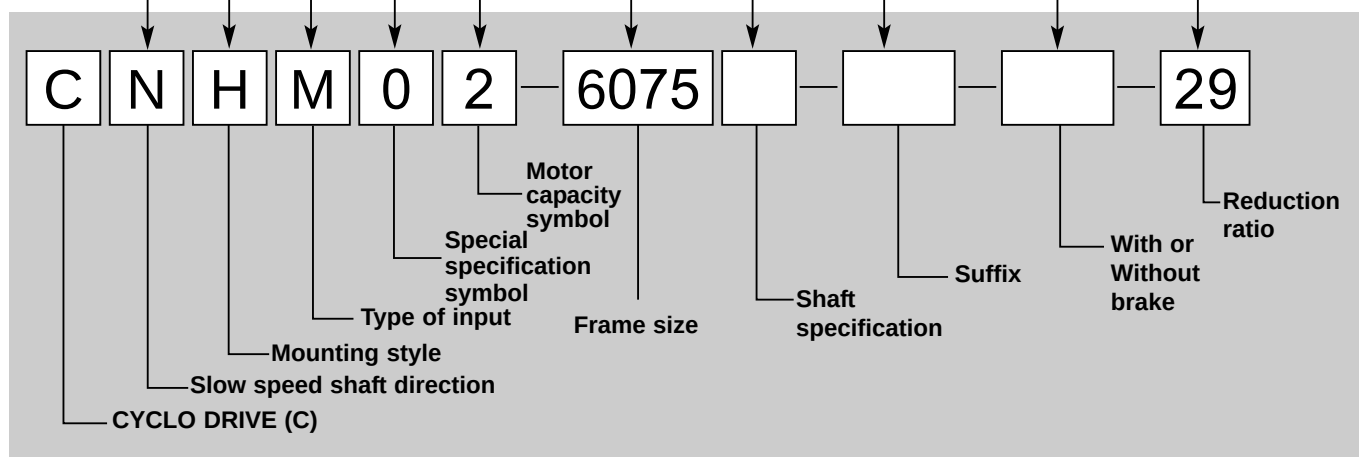
| Shaft specification   |   |
|-----------------------|---|
| Metric JIS (Standard) | - |
| Inch size             | Y |
| Metric DIN            | G |

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

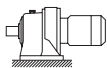
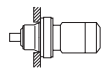
| With or Without Brake |   |
|-----------------------|---|
| Without brake         | - |
| With brake            | B |

Frame size  
(Refer to Selection  
Tables starting from  
6060)

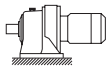
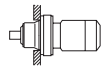
Nominal ratio



## Selection Tables Gearmotors

| 0.1 kW |  | n <sub>1</sub> : Motor Speed |       |      |     |  |      |  |  |  |  |           |  |
|--------|--|------------------------------|-------|------|-----|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|-----------|--|
|        |  | Hz                           |       | 50Hz |     | 60Hz                                                                                |      | CHHM/CNHM                                                                           |  | CHFM/CNFM                                                                           |  | CNVM/CVVM |  |
|        |  | P                            |       | 4    | 6   | 4                                                                                   | 6    |                                                                                     |  |                                                                                     |  |           |  |
|        |  | n <sub>1</sub>               | r/min | 1450 | 980 | 1750                                                                                | 1165 |                                                                                     |  |                                                                                     |  |           |  |

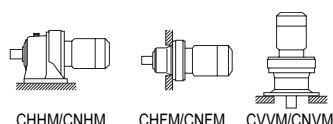
| 50Hz                           |                       |                              |      |      |    | 60Hz                           |                       |                              |      |      |    | Nomenclature             |            |                 | Page of Dimension Sheet |       |       |
|--------------------------------|-----------------------|------------------------------|------|------|----|--------------------------------|-----------------------|------------------------------|------|------|----|--------------------------|------------|-----------------|-------------------------|-------|-------|
| Output Speed<br>n <sub>2</sub> | Output Torque<br>Tout | Allowable Radial Load<br>Pro |      | SF   |    | Output Speed<br>n <sub>2</sub> | Output Torque<br>Tout | Allowable Radial Load<br>Pro |      | SF   |    | Input Capacity<br>Symbol | Frame Size | Reduction Ratio | CNHM                    | CNFM  | CNVVM |
| r/min                          | N·m                   | kgf·m                        | N    | kgf  |    | r/min                          | N·m                   | kgf·m                        | N    | kgf  |    |                          |            |                 | CHHM                    | CHFM  | CVVM  |
| 0.476                          | 150                   | 15.3                         | 3310 | 338  | *1 | 0.575                          | 150                   | 15.3                         | 3310 | 338  | *1 | 01 - 6090DA              | - 3045     |                 | B-108                   | B-124 | B-143 |
|                                | 192                   | 19.6                         | 3240 | 330  | *1 |                                | 192                   | 19.6                         | 3240 | 330  | *1 | 01 - 6095DA              | - 3045     |                 | B-108                   | B-124 | B-143 |
|                                | 250                   | 25.5                         | 5400 | 550  | *1 |                                | 250                   | 25.5                         | 5400 | 550  | *1 | 01 - 6100DA              | - 3045     |                 | B-108                   | B-124 | B-143 |
|                                | 300                   | 30.6                         | 4780 | 488  | *1 |                                | 300                   | 30.6                         | 4780 | 488  | *1 | 01 - 6105DA              | - 3045     |                 | B-108                   | B-124 | B-143 |
|                                | 525                   | 53.5                         | 9780 | 997  | *1 |                                | 525                   | 53.5                         | 9780 | 997  | *1 | 01 - 6120DA              | - 3045     |                 | B-108                   | B-124 | B-143 |
|                                | 630                   | 64.2                         | 9560 | 974  | *1 |                                | 630                   | 64.2                         | 9560 | 974  | *1 | 01 - 6125DA              | - 3045     |                 | B-108                   | B-124 | B-143 |
| 0.417                          | 146                   | 14.9                         | 3300 | 336  | *1 | 0.503                          | 146                   | 14.9                         | 3300 | 336  | *1 | 01 - 6090DA              | - 3481     |                 | B-108                   | B-124 | B-143 |
|                                | 250                   | 25.5                         | 5400 | 550  | *1 |                                | 250                   | 25.5                         | 5400 | 550  | *1 | 01 - 6100DA              | - 3481     |                 | B-108                   | B-124 | B-143 |
|                                | 296                   | 30.2                         | 5090 | 519  | *1 |                                | 296                   | 30.2                         | 5090 | 519  | *1 | 01 - 6105DA              | - 3481     |                 | B-108                   | B-124 | B-143 |
|                                | 525                   | 53.5                         | 9810 | 1000 | *1 |                                | 525                   | 53.5                         | 9810 | 1000 | *1 | 01 - 6120DA              | - 3481     |                 | B-108                   | B-124 | B-143 |
|                                | 630                   | 64.2                         | 9810 | 1000 | *1 |                                | 630                   | 64.2                         | 9810 | 1000 | *1 | 01 - 6125DA              | - 3481     |                 | B-108                   | B-124 | B-143 |
|                                |                       |                              |      |      |    |                                |                       |                              |      |      |    |                          |            |                 |                         |       |       |
| 0.327                          | 150                   | 15.3                         | 3310 | 338  | *1 | 0.394                          | 150                   | 15.3                         | 3310 | 338  | *1 | 01 - 6090DA              | - 4437     |                 | B-108                   | B-124 | B-143 |
|                                | 192                   | 19.6                         | 3240 | 330  | *1 |                                | 192                   | 19.6                         | 3240 | 330  | *1 | 01 - 6095DA              | - 4437     |                 | B-108                   | B-124 | B-143 |
|                                | 250                   | 25.5                         | 5400 | 550  | *1 |                                | 250                   | 25.5                         | 5400 | 550  | *1 | 01 - 6100DA              | - 4437     |                 | B-108                   | B-124 | B-143 |
|                                | 300                   | 30.6                         | 4780 | 488  | *1 |                                | 300                   | 30.6                         | 4780 | 488  | *1 | 01 - 6105DA              | - 4437     |                 | B-108                   | B-124 | B-143 |
|                                | 525                   | 53.5                         | 9780 | 997  | *1 |                                | 525                   | 53.5                         | 9780 | 997  | *1 | 01 - 6120DA              | - 4437     |                 | B-108                   | B-124 | B-143 |
|                                | 630                   | 64.2                         | 9560 | 974  | *1 |                                | 630                   | 64.2                         | 9560 | 974  | *1 | 01 - 6125DA              | - 4437     |                 | B-108                   | B-124 | B-143 |
| 0.282                          | 150                   | 15.3                         | 3310 | 338  | *1 | 0.341                          | 150                   | 15.3                         | 3310 | 338  | *1 | 01 - 6090DA              | - 5133     |                 | B-108                   | B-124 | B-143 |
|                                | 192                   | 19.6                         | 3240 | 330  | *1 |                                | 192                   | 19.6                         | 3240 | 330  | *1 | 01 - 6095DA              | - 5133     |                 | B-108                   | B-124 | B-143 |
|                                | 250                   | 25.5                         | 5400 | 550  | *1 |                                | 250                   | 25.5                         | 5400 | 550  | *1 | 01 - 6100DA              | - 5133     |                 | B-108                   | B-124 | B-143 |
|                                | 300                   | 30.6                         | 4780 | 488  | *1 |                                | 300                   | 30.6                         | 4780 | 488  | *1 | 01 - 6105DA              | - 5133     |                 | B-108                   | B-124 | B-143 |
|                                | 525                   | 53.5                         | 9780 | 997  | *1 |                                | 525                   | 53.5                         | 9780 | 997  | *1 | 01 - 6120DA              | - 5133     |                 | B-108                   | B-124 | B-143 |
|                                | 630                   | 64.2                         | 9560 | 974  | *1 |                                | 630                   | 64.2                         | 9560 | 974  | *1 | 01 - 6125DA              | - 5133     |                 | B-108                   | B-124 | B-143 |
| 0.235                          | 525                   | 53.5                         | 9780 | 997  | *1 | 0.283                          | 525                   | 53.5                         | 9780 | 997  | *1 | 01 - 6120DB              | - 6177     |                 | B-108                   | B-124 | B-143 |
|                                | 630                   | 64.2                         | 9560 | 974  | *1 |                                | 630                   | 64.2                         | 9560 | 974  | *1 | 01 - 6125DB              | - 6177     |                 | B-108                   | B-124 | B-143 |
| 0.192                          | 525                   | 53.5                         | 9780 | 997  | *1 | 0.231                          | 525                   | 53.5                         | 9780 | 997  | *1 | 01 - 6120DB              | - 7569     |                 | B-108                   | B-124 | B-143 |
|                                | 630                   | 64.2                         | 9560 | 974  | *1 |                                | 630                   | 64.2                         | 9560 | 974  | *1 | 01 - 6125DB              | - 7569     |                 | B-108                   | B-124 | B-143 |

| 0.2 kW         |  |       |  |      | n <sub>1</sub> : Motor Speed |      |      |   |  |  |  |  |  |  |      |   |
|----------------|--|-------|--|------|------------------------------|------|------|---|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|------|---|
|                |  |       |  |      | Hz                           |      | 50Hz |   |                                                                                       |  |                                                                                       |  |                                                                                       |  | 60Hz |   |
|                |  |       |  |      | P                            |      | 4    | 6 |                                                                                       |  |                                                                                       |  |                                                                                       |  | 4    | 6 |
| n <sub>1</sub> |  | r/min |  | 1450 | 980                          | 1750 | 1165 |   |                                                                                       |  |                                                                                       |  |                                                                                       |  |      |   |

| 50Hz                           |                       |                             |      |      | 60Hz                           |                       |                             |       |      | Nomenclature             |            |                 | Page of Dimension Sheet |       |       |       |
|--------------------------------|-----------------------|-----------------------------|------|------|--------------------------------|-----------------------|-----------------------------|-------|------|--------------------------|------------|-----------------|-------------------------|-------|-------|-------|
| Output Speed<br>n <sub>2</sub> | Output Torque<br>Tout | Alloable Radial Load<br>Pro |      | SF   | Output Speed<br>n <sub>2</sub> | Output Torque<br>Tout | Alloable Radial Load<br>Pro |       | SF   | Input Capacity<br>Symbol | Frame Size | Reduction Ratio | CNHM                    | CNFM  | CNVVM |       |
| r/min                          | N·m                   | kgf·m                       | N    | kgf  | r/min                          | N·m                   | kgf·m                       | N     | kgf  |                          |            |                 | CHHM                    | CHFM  | CVVM  |       |
| 242                            | 7.51                  | 0.765                       | 798  | 81.4 | 1.00                           | 292                   | 6.22                        | 0.634 | 751  | 76.6                     | 1.00       | 02 - 6060       | - 6                     | B-100 | B-116 | B-135 |
|                                |                       |                             | 798  | 81.4 | 1.43                           |                       |                             |       | 751  | 76.6                     | 1.43       | 02 - 6065       | - 6                     | B-100 | B-116 | B-135 |
|                                |                       |                             | 1390 | 142  | 1.74                           |                       |                             |       | 1310 | 134                      | 1.74       | 02 - 6070       | - 6                     | B-100 | B-116 | B-135 |
|                                |                       |                             | 1390 | 142  | 2.04                           |                       |                             |       | 1310 | 134                      | 2.04       | 02 - 6075       | - 6                     | B-100 | B-116 | B-135 |
|                                |                       |                             | 1930 | 197  | 2.96                           |                       |                             |       | 1820 | 185                      | 2.96       | 02 - 6080       | - 6                     | B-100 | B-116 | B-135 |
| 181                            | 10.0                  | 1.02                        | 912  | 93.0 | 1.00                           | 219                   | 8.29                        | 0.846 | 859  | 87.5                     | 1.00       | 02 - 6060       | - 8                     | B-100 | B-116 | B-135 |
|                                |                       |                             | 912  | 93   | 1.43                           |                       |                             |       | 859  | 88                       | 1.43       | 02 - 6065       | - 8                     | B-100 | B-116 | B-135 |
|                                |                       |                             | 1540 | 157  | 1.74                           |                       |                             |       | 1450 | 148                      | 1.74       | 02 - 6070       | - 8                     | B-100 | B-116 | B-135 |
|                                |                       |                             | 1540 | 157  | 2.04                           |                       |                             |       | 1450 | 148                      | 2.04       | 02 - 6075       | - 8                     | B-100 | B-116 | B-135 |
|                                |                       |                             | 2100 | 214  | 2.96                           |                       |                             |       | 1970 | 201                      | 2.96       | 02 - 6080       | - 8                     | B-100 | B-116 | B-135 |

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

## Selection Tables Gearmotors

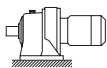
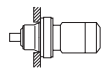


| 0.2 kW |  | n <sub>1</sub> : Motor Speed |       |      |      |
|--------|--|------------------------------|-------|------|------|
|        |  | Hz                           |       | 50Hz |      |
|        |  | P                            |       | 4    | 6    |
|        |  | n <sub>1</sub>               | r/min | 1450 | 980  |
|        |  |                              |       | 1750 | 1165 |

| 50Hz                           |                                   |                              |      |     | 60Hz                           |                                   |                              |      |     | Nomenclature             |            |                 | Page of Dimension Sheet |       |       |
|--------------------------------|-----------------------------------|------------------------------|------|-----|--------------------------------|-----------------------------------|------------------------------|------|-----|--------------------------|------------|-----------------|-------------------------|-------|-------|
| Output Speed<br>n <sub>2</sub> | Output Torque<br>T <sub>out</sub> | Allowable Radial Load<br>Pro | SF   |     | Output Speed<br>n <sub>2</sub> | Output Torque<br>T <sub>out</sub> | Allowable Radial Load<br>Pro | SF   |     | Input Capacity<br>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  |
| 132                            | 13.8                              | 1.40                         | 1180 | 120 | 159                            | 11.4                              | 1.16                         | 1170 | 119 | 02 -                     | 6060       | - 11            | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1180 | 120 |                                |                                   |                              | 1170 | 119 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1730 | 176 |                                |                                   |                              | 1630 | 166 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1730 | 176 |                                |                                   |                              | 1630 | 166 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 2320 | 236 |                                |                                   |                              | 2180 | 222 |                          |            |                 | B-100                   | B-116 | B-135 |
| 112                            | 16.3                              | 1.66                         | 1180 | 120 | 135                            | 13.5                              | 1.37                         | 1180 | 120 | 02 -                     | 6060       | - 13            | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1180 | 120 |                                |                                   |                              | 1180 | 120 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1720 | 175 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1720 | 175 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 2500 | 254 |                                |                                   |                              | 2350 | 239 |                          |            |                 | B-100                   | B-116 | B-135 |
| 96.7                           | 18.8                              | 1.91                         | 1180 | 120 | 117                            | 15.6                              | 1.59                         | 1180 | 120 | 02 -                     | 6060       | - 15            | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1180 | 120 |                                |                                   |                              | 1180 | 120 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1730 | 176 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1730 | 176 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 2560 | 261 |                                |                                   |                              | 2420 | 247 |                          |            |                 | B-100                   | B-116 | B-135 |
| 85.3                           | 21.3                              | 2.17                         | 1180 | 120 | 103                            | 17.6                              | 1.80                         | 1180 | 120 | 02 -                     | 6060       | - 17            | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1180 | 120 |                                |                                   |                              | 1180 | 120 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 2560 | 261 |                                |                                   |                              | 2540 | 259 |                          |            |                 | B-100                   | B-116 | B-135 |
| 69.0                           | 26.3                              | 2.68                         | 1180 | 120 | 83.3                           | 21.8                              | 2.22                         | 1180 | 120 | 02 -                     | 6065       | - 21            | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1180 | 120 |                                |                                   |                              | 1180 | 120 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 2560 | 261 |                                |                                   |                              | 2480 | 253 |                          |            |                 | B-100                   | B-116 | B-135 |
| 58.0                           | 31.3                              | 3.19                         | 1180 | 120 | 70.0                           | 25.9                              | 2.64                         | 1180 | 120 | 02 -                     | 6065       | - 25            | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1180 | 120 |                                |                                   |                              | 1180 | 120 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 2560 | 261 |                                |                                   |                              | 2550 | 260 |                          |            |                 | B-100                   | B-116 | B-135 |
| 50.0                           | 36.3                              | 3.70                         | 1180 | 120 | 60.3                           | 30.1                              | 3.07                         | 1180 | 120 | 02 -                     | 6065       | - 29            | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1180 | 120 |                                |                                   |                              | 1180 | 120 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 2560 | 261 |                                |                                   |                              | 2560 | 261 |                          |            |                 | B-100                   | B-116 | B-135 |
| 41.4                           | 43.8                              | 4.46                         | 1180 | 120 | 50.0                           | 36.3                              | 3.70                         | 1180 | 120 | 02 -                     | 6070       | - 35            | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1180 | 120 |                                |                                   |                              | 1180 | 120 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 2560 | 261 |                                |                                   |                              | 2560 | 261 |                          |            |                 | B-100                   | B-116 | B-135 |
| 33.7                           | 53.8                              | 5.49                         | 1180 | 120 | 40.7                           | 44.6                              | 4.54                         | 1180 | 120 | 02 -                     | 6070       | - 43            | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1180 | 120 |                                |                                   |                              | 1180 | 120 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 2560 | 261 |                                |                                   |                              | 2560 | 261 |                          |            |                 | B-100                   | B-116 | B-135 |
| 28.4                           | 63.8                              | 6.51                         | 1180 | 120 | 34.3                           | 52.9                              | 5.39                         | 1180 | 120 | 02 -                     | 6085       | - 51            | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1180 | 120 |                                |                                   |                              | 1180 | 120 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 2560 | 261 |                                |                                   |                              | 2560 | 261 |                          |            |                 | B-100                   | B-116 | B-135 |
| 24.6                           | 73.8                              | 7.53                         | 1180 | 120 | 29.7                           | 61.2                              | 6.24                         | 1180 | 120 | 02 -                     | 6090       | - 59            | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1180 | 120 |                                |                                   |                              | 1180 | 120 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 2560 | 261 |                                |                                   |                              | 2560 | 261 |                          |            |                 | B-100                   | B-116 | B-135 |
| 20.4                           | 88.8                              | 9.06                         | 1180 | 120 | 24.6                           | 73.6                              | 7.50                         | 1180 | 120 | 02 -                     | 6100       | - 71            | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1180 | 120 |                                |                                   |                              | 1180 | 120 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 1770 | 180 |                                |                                   |                              | 1770 | 180 |                          |            |                 | B-100                   | B-116 | B-135 |
|                                |                                   |                              | 2560 | 261 |                                |                                   |                              | 2560 | 261 |                          |            |                 | B-100                   | B-116 | B-135 |

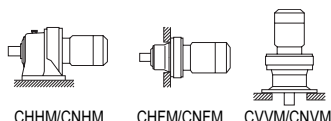
- "\*2" indicate models manufactured with reducer and motor separately mounted on a common baseplate (horizontal shaft direction) or on an adaptor (vertical shaft direction). Consult us for details, including dimensions.
- Allowable radial load (Pro) is the value at the midpoint of the slow speed shaft.
- "\*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

| 0.2 kW                         |                       | n <sub>1</sub> : Motor Speed |       |      |      |                                |                       |                              |       |  |      |  |            |  |       |        |                         |       |        |       |       |       |        |       |       |       |       |
|--------------------------------|-----------------------|------------------------------|-------|------|------|--------------------------------|-----------------------|------------------------------|-------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------|-------|--------|-------------------------|-------|--------|-------|-------|-------|--------|-------|-------|-------|-------|
|                                |                       | Hz                           |       | 50Hz |      | 60Hz                           |                       |                              |       |                                                                                     |      |                                                                                     |            |                                                                                     |       |        |                         |       |        |       |       |       |        |       |       |       |       |
|                                |                       | P                            |       | 4    | 6    | 4                              | 6                     |                              |       |                                                                                     |      |                                                                                     |            |                                                                                     |       |        |                         |       |        |       |       |       |        |       |       |       |       |
|                                |                       | n <sub>1</sub>               | r/min | 1450 | 980  | 1750                           | 1165                  |                              |       |                                                                                     |      |                                                                                     |            |                                                                                     |       |        |                         |       |        |       |       |       |        |       |       |       |       |
| 50Hz                           |                       |                              |       |      |      | 60Hz                           |                       |                              |       |                                                                                     |      |                                                                                     |            | Nomenclature                                                                        |       |        | Page of Dimension Sheet |       |        |       |       |       |        |       |       |       |       |
| Output Speed<br>n <sub>2</sub> | Output Torque<br>Tout | Allowable Radial Load<br>Pro |       | SF   |      | Output Speed<br>n <sub>2</sub> | Output Torque<br>Tout | Allowable Radial Load<br>Pro |       | SF                                                                                  |      | Input Capacity<br>Symbol                                                            | Frame Size | Reduction Ratio                                                                     | CNHM  | CNFM   | CNVVM                   |       |        |       |       |       |        |       |       |       |       |
| r/min                          | N·m                   | kgf·m                        | N     | kgf  |      | r/min                          | N·m                   | kgf·m                        | N     | kgf                                                                                 |      |                                                                                     |            |                                                                                     | CHHM  | CHFM   | CVVM                    |       |        |       |       |       |        |       |       |       |       |
| 16.7                           | 109                   | 11.1                         | 3340  | 340  | 1.06 | 20.1                           | 90.2                  | 9.20                         | 3340  | 340                                                                                 | 1.51 | 02 -                                                                                | 6090       | - 87                                                                                | B-100 | B-116  | B-135                   |       |        |       |       |       |        |       |       |       |       |
|                                |                       |                              | 3340  | 340  | 1.32 |                                |                       |                              | 3340  | 340                                                                                 | 1.51 |                                                                                     |            |                                                                                     | B-100 | B-116  | B-135                   |       |        |       |       |       |        |       |       |       |       |
|                                |                       |                              | 5400  | 550  | 2.17 |                                |                       |                              | 5400  | 550                                                                                 | 2.17 |                                                                                     |            |                                                                                     | B-101 | B-117  | B-136                   |       |        |       |       |       |        |       |       |       |       |
|                                |                       |                              | 5400  | 550  | 2.52 |                                |                       |                              | 5400  | 550                                                                                 | 2.83 |                                                                                     |            |                                                                                     | B-101 | B-117  | B-136                   |       |        |       |       |       |        |       |       |       |       |
| 13.9                           | 123                   | 12.6                         | 60.0  | 6.12 | *1   | 16.8                           | 102                   | 10.4                         | 60.0  | 6.12                                                                                | *1   | 02 -                                                                                | 6075DA     | - 104                                                                               | B-108 | B-124  | B-143                   |       |        |       |       |       |        |       |       |       |       |
|                                |                       |                              | 3340  | 340  | 1.22 |                                |                       |                              | 3340  | 340                                                                                 | 1.47 |                                                                                     |            |                                                                                     | 02 -  | 6090DA | - 104                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
|                                |                       |                              | 3340  | 340  | 1.47 |                                |                       |                              | 3340  | 340                                                                                 | 1.77 |                                                                                     |            |                                                                                     | 02 -  | 6095DA | - 104                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
|                                |                       |                              | 5400  | 550  | 2.03 |                                |                       |                              | 5400  | 550                                                                                 | 2.15 |                                                                                     |            |                                                                                     | 02 -  | 6100DA | - 104                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
| 12.2                           | 149.0                 | 15.2                         | 5400  | 550  | 1.05 | 14.7                           | 123                   | 12.6                         | 5400  | 550                                                                                 | 1.05 | 02 -                                                                                | 6100       | - 119                                                                               | B-101 | B-117  | B-136                   |       |        |       |       |       |        |       |       |       |       |
|                                |                       |                              | 5400  | 550  | 1.43 |                                |                       |                              | 5400  | 550                                                                                 | 1.43 |                                                                                     |            |                                                                                     | 02 -  | 6105   | - 119                   | B-101 | B-117  | B-136 |       |       |        |       |       |       |       |
|                                |                       |                              | 3340  | 340  | 1.05 |                                |                       |                              | 3340  | 340                                                                                 | 1.26 |                                                                                     |            |                                                                                     | 02 -  | 6090DA | - 121                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
|                                |                       |                              | 3340  | 340  | 1.12 |                                |                       |                              | 3340  | 340                                                                                 | 1.35 |                                                                                     |            |                                                                                     | 02 -  | 6095DA | - 121                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
| 12.0                           | 143                   | 14.6                         | 5400  | 550  | 1.74 | 14.5                           | 119                   | 12.1                         | 5400  | 550                                                                                 | 2.10 | 02 -                                                                                | 6100DA     | - 121                                                                               | B-108 | B-124  | B-143                   |       |        |       |       |       |        |       |       |       |       |
|                                |                       |                              | 5400  | 550  | 2.14 |                                |                       |                              | 5400  | 550                                                                                 | 2.15 |                                                                                     |            |                                                                                     | 02 -  | 6105DA | - 121                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
|                                |                       |                              | 9810  | 1000 | 2.15 |                                |                       |                              | 9810  | 1000                                                                                | 2.15 |                                                                                     |            |                                                                                     | 02 -  | 6120DA | - 121                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
|                                |                       |                              | 3340  | 340  | 1.08 |                                |                       |                              | 3340  | 340                                                                                 | 1.30 |                                                                                     |            |                                                                                     | 02 -  | 6095DA | - 143                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
| 10.1                           | 170                   | 17.3                         | 5400  | 550  | 1.47 | 12.2                           | 140                   | 14.3                         | 5400  | 550                                                                                 | 1.78 | 02 -                                                                                | 6100DA     | - 143                                                                               | B-108 | B-124  | B-143                   |       |        |       |       |       |        |       |       |       |       |
|                                |                       |                              | 5400  | 550  | 1.77 |                                |                       |                              | 5400  | 550                                                                                 | 2.14 |                                                                                     |            |                                                                                     | 02 -  | 6105DA | - 143                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
|                                |                       |                              | 9810  | 1000 | 2.15 |                                |                       |                              | 9810  | 1000                                                                                | 2.15 |                                                                                     |            |                                                                                     | 02 -  | 6120DA | - 143                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
|                                |                       |                              | 150   | 15.3 | 3340 |                                |                       |                              | 340   | *1                                                                                  | 10.6 |                                                                                     |            |                                                                                     | 162   | 16.5   | 150                     | 15.3  | 3340   | 340   | *1    | 02 -  | 6090DA | - 165 | B-108 | B-124 | B-143 |
| 3340                           | 340                   | 1.02                         | 3340  | 340  | 1.23 | 02 -                           | 6095DA                | - 165                        | B-108 | B-124                                                                               |      | B-143                                                                               |            |                                                                                     |       |        |                         |       |        |       |       |       |        |       |       |       |       |
| 5400                           | 550                   | 1.28                         | 5400  | 550  | 1.54 | 02 -                           | 6100DA                | - 165                        | B-108 | B-124                                                                               |      | B-143                                                                               |            |                                                                                     |       |        |                         |       |        |       |       |       |        |       |       |       |       |
| 5400                           | 550                   | 1.53                         | 5400  | 550  | 1.85 | 02 -                           | 6105DA                | - 165                        | B-108 | B-124                                                                               |      | B-143                                                                               |            |                                                                                     |       |        |                         |       |        |       |       |       |        |       |       |       |       |
| 8.79                           | 196                   | 19.9                         | 9810  | 1000 | 2.15 | 10.6                           | 162                   | 16.5                         | 9810  | 1000                                                                                | 2.15 | 02 -                                                                                | 6120DA     | - 165                                                                               | B-108 | B-124  | B-143                   |       |        |       |       |       |        |       |       |       |       |
|                                |                       |                              | 9810  | 1000 | 2.68 |                                |                       |                              | 9810  | 1000                                                                                | 3.24 |                                                                                     |            |                                                                                     | 02 -  | 6120DB | - 165                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
|                                |                       |                              | 150   | 15.3 | 3340 |                                |                       |                              | 340   | *1                                                                                  | 8.97 |                                                                                     |            |                                                                                     | 192   | 19.5   | 150                     | 15.3  | 3340   | 340   | *1    | 02 -  | 6090DA | - 195 | B-108 | B-124 | B-143 |
|                                |                       |                              | 3340  | 340  | 0.87 |                                |                       |                              | 3340  | 340                                                                                 |      |                                                                                     |            |                                                                                     |       |        | 1.04                    | 02 -  | 6095DA | - 195 | B-108 | B-124 | B-143  |       |       |       |       |
| 5400                           | 550                   | 1.08                         | 5400  | 550  | 1.31 | 02 -                           | 6100DA                | - 195                        | B-108 | B-124                                                                               |      | B-143                                                                               |            |                                                                                     |       |        |                         |       |        |       |       |       |        |       |       |       |       |
| 5400                           | 550                   | 1.30                         | 5400  | 550  | 1.57 | 02 -                           | 6105DA                | - 195                        | B-108 | B-124                                                                               |      | B-143                                                                               |            |                                                                                     |       |        |                         |       |        |       |       |       |        |       |       |       |       |
| 7.44                           | 231                   | 23.6                         | 9810  | 1000 | 2.15 | 8.97                           | 192                   | 19.5                         | 9810  | 1000                                                                                | 2.15 | 02 -                                                                                | 6120DA     | - 195                                                                               | B-108 | B-124  | B-143                   |       |        |       |       |       |        |       |       |       |       |
|                                |                       |                              | 9810  | 1000 | 2.27 |                                |                       |                              | 9810  | 1000                                                                                | 2.74 |                                                                                     |            |                                                                                     | 02 -  | 6120DB | - 195                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
|                                |                       |                              | 9810  | 1000 | 2.73 |                                |                       |                              | 9810  | 1000                                                                                | 3.29 |                                                                                     |            |                                                                                     | 02 -  | 6125DB | - 195                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
|                                |                       |                              | 150   | 15.3 | 3340 |                                |                       |                              | 340   | *1                                                                                  | 7.58 |                                                                                     |            |                                                                                     | 227   | 23.1   | 150                     | 15.3  | 3340   | 340   | *1    | 02 -  | 6090DA | - 231 | B-108 | B-124 | B-143 |
| 200                            | 20.4                  | 3340                         | 340   | *1   | 200  | 20.4                           | 3340                  | 340                          | *1    | 02 -                                                                                |      | 6095DA                                                                              | - 231      | B-108                                                                               |       |        | B-124                   | B-143 |        |       |       |       |        |       |       |       |       |
| 5400                           | 550                   | 1.10                         | 5400  | 550  | 1.32 | 02 -                           | 6105DA                | - 231                        | B-108 | B-124                                                                               |      | B-143                                                                               |            |                                                                                     |       |        |                         |       |        |       |       |       |        |       |       |       |       |
| 9810                           | 1000                  | 1.91                         | 9810  | 1000 | 2.15 | 02 -                           | 6120DA                | - 231                        | B-108 | B-124                                                                               |      | B-143                                                                               |            |                                                                                     |       |        |                         |       |        |       |       |       |        |       |       |       |       |
| 6.28                           | 274                   | 27.9                         | 9810  | 1000 | 1.91 | 7.58                           | 227                   | 23.1                         | 9810  | 1000                                                                                | 2.30 | 02 -                                                                                | 6120DB     | - 231                                                                               | B-108 | B-124  | B-143                   |       |        |       |       |       |        |       |       |       |       |
|                                |                       |                              | 9810  | 1000 | 2.15 |                                |                       |                              | 9810  | 1000                                                                                | 2.15 |                                                                                     |            |                                                                                     | 02 -  | 6125DA | - 231                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
|                                |                       |                              | 9810  | 1000 | 2.30 |                                |                       |                              | 9810  | 1000                                                                                | 2.78 |                                                                                     |            |                                                                                     | 02 -  | 6125DB | - 231                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
|                                |                       |                              | 14700 | 1500 | 2.85 |                                |                       |                              | 14700 | 1500                                                                                | 3.44 |                                                                                     |            |                                                                                     | 02 -  | 6130DB | - 231                   | B-109 | B-125  | B-143 |       |       |        |       |       |       |       |
| 5.31                           | 324                   | 33.0                         | 150   | 15.3 | 3340 | 340                            | *1                    | 6.41                         | 268   | 27.3                                                                                | 150  | 15.3                                                                                | 3340       | 340                                                                                 | *1    | 02 -   | 6090DA                  | - 273 | B-108  | B-124 | B-143 |       |        |       |       |       |       |
|                                |                       |                              | 200   | 20.4 | 3340 | 340                            | *1                    |                              |       |                                                                                     | 200  | 20.4                                                                                | 3340       | 340                                                                                 | *1    | 02 -   | 6095DA                  | - 273 | B-108  | B-124 | B-143 |       |        |       |       |       |       |
|                                |                       |                              | 250   | 25.5 | 5400 | 550                            | *1                    |                              |       |                                                                                     | 250  | 25.5                                                                                | 5400       | 550                                                                                 | *1    | 02 -   | 6100DA                  | - 273 | B-108  | B-124 | B-143 |       |        |       |       |       |       |
|                                |                       |                              | 5400  | 550  | 0.93 | 5400                           | 550                   |                              |       |                                                                                     | 1.12 | 02 -                                                                                | 6105DA     | - 273                                                                               | B-108 | B-124  | B-143                   |       |        |       |       |       |        |       |       |       |       |
| 5.31                           | 324                   | 33.0                         | 9810  | 1000 | 1.61 | 6.41                           | 268                   | 27.3                         | 9810  | 1000                                                                                | 1.95 | 02 -                                                                                | 6120DA     | - 273                                                                               | B-108 | B-124  | B-143                   |       |        |       |       |       |        |       |       |       |       |
|                                |                       |                              | 9810  | 1000 | 1.95 |                                |                       |                              | 9810  | 1000                                                                                | 2.15 |                                                                                     |            |                                                                                     | 02 -  | 6125DA | - 273                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
|                                |                       |                              | 9810  | 1000 | 1.95 |                                |                       |                              | 9810  | 1000                                                                                | 2.15 |                                                                                     |            |                                                                                     | 02 -  | 6125DB | - 273                   | B-108 | B-124  | B-143 |       |       |        |       |       |       |       |
|                                |                       |                              | 14700 | 1500 | 2.15 |                                |                       |                              | 14700 | 1500                                                                                | 2.15 |                                                                                     |            |                                                                                     | 02 -  | 6130DA | - 273                   | B-109 | B-125  | B-144 |       |       |        |       |       |       |       |
| 5.31                           | 324                   | 33.0                         | 14700 | 1500 | 2.41 | 6.41                           | 268                   | 27.3                         | 14700 | 1500                                                                                | 2.91 | 02 -                                                                                | 6130DB     | - 273                                                                               | B-109 | B-125  | B-143                   |       |        |       |       |       |        |       |       |       |       |
|                                |                       |                              | 14700 | 1500 | 2.90 |                                |                       |                              | 14700 | 1500                                                                                | 3.51 |                                                                                     |            |                                                                                     | 02 -  | 6135DB | - 273                   | B-109 | B-125  | B-144 |       |       |        |       |       |       |       |
|                                |                       |                              | 14700 | 1500 | 2.90 |                                |                       |                              | 14700 | 1500                                                                                | 3.51 |                                                                                     |            |                                                                                     | 02 -  | 6135DB | - 273                   | B-109 | B-125  | B-144 |       |       |        |       |       |       |       |
|                                |                       |                              | 14700 | 1500 | 2.90 |                                |                       |                              | 14700 | 1500                                                                                | 3.51 |                                                                                     |            |                                                                                     | 02 -  | 6135DB | - 273                   | B-109 | B-125  | B-144 |       |       |        |       |       |       |       |

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

## Selection Tables Gearmotors



| 0.2 kW | Hz             |       | 50Hz |     | 60Hz |      |
|--------|----------------|-------|------|-----|------|------|
|        | P              |       | 4    | 6   | 4    | 6    |
|        | n <sub>1</sub> | r/min | 1450 | 980 | 1750 | 1165 |

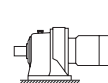
n<sub>1</sub>: Motor Speed

| 50Hz                           |                       |       |                              |       |      | 60Hz                           |                       |             |                              |       | Nomenclature |                          |            | Page of Dimension Sheet |       |       |       |
|--------------------------------|-----------------------|-------|------------------------------|-------|------|--------------------------------|-----------------------|-------------|------------------------------|-------|--------------|--------------------------|------------|-------------------------|-------|-------|-------|
| Output Speed<br>n <sub>2</sub> | Output Torque<br>Tout |       | Allowable Radial Load<br>Pro |       | SF   | Output Speed<br>n <sub>2</sub> | Output Torque<br>Tout |             | Allowable Radial Load<br>Pro |       | SF           | Input Capacity<br>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  |
| 4.55                           | 200                   | 20.4  | 3200                         | 326   | *1   | 5.49                           | 200                   | 20.4        | 3200                         | 326   | *1           | 02 - 6095DA              | - 319      |                         | B-108 | B-124 | B-143 |
|                                | 250                   | 25.5  | 5400                         | 550   | *1   |                                | 250                   | 25.5        | 5400                         | 550   | *1           | 02 - 6100DA              | - 319      |                         | B-108 | B-124 | B-143 |
|                                | 300                   | 30.6  | 5400                         | 550   | *1   |                                | 300                   | 30.6        | 5400                         | 550   | *1           | 02 - 6105DA              | - 319      |                         | B-108 | B-124 | B-143 |
|                                | 378                   | 38.6  | 9810                         | 1000  | 1.38 |                                | 313                   | 31.9        | 9810                         | 1000  | 1.66         | 02 - 6120DA              | - 319      |                         | B-108 | B-124 | B-143 |
|                                |                       |       | 9810                         | 1000  | 1.67 |                                |                       |             | 9810                         | 1000  | 2.01         | 02 - 6125DA              | - 319      |                         | B-108 | B-124 | B-143 |
|                                |                       |       | 14700                        | 1500  | 2.06 |                                |                       |             | 14700                        | 1500  | 2.15         | 02 - 6130DA              | - 319      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 14700                        | 1500  | 2.06 |                                |                       |             | 14700                        | 1500  | 2.49         | 02 - 6130DB              | - 319      |                         | B-109 | B-125 | B-143 |
|                                |                       |       | 14700                        | 1500  | 2.15 |                                |                       |             | 14700                        | 1500  | 2.15         | 02 - 6135DA              | - 319      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 14700                        | 1500  | 2.49 |                                |                       |             | 14700                        | 1500  | 3.00         | 02 - 6135DB              | - 319      |                         | B-109 | B-125 | B-144 |
|                                | 3.85                  | 200   | 20.4                         | 3200  | 326  |                                | *1                    | 4.64        | 200                          | 20.4  | 3200         | 326                      | *1         | 02 - 6095DA             | - 377 |       | B-108 |
| 250                            |                       | 25.5  | 5400                         | 550   | *1   | 250                            | 25.5                  |             | 5400                         | 550   | *1           | 02 - 6100DA              | - 377      |                         | B-108 | B-124 | B-143 |
| 300                            |                       | 30.6  | 5400                         | 550   | *1   | 300                            | 30.6                  |             | 5400                         | 550   | *1           | 02 - 6105DA              | - 377      |                         | B-108 | B-124 | B-143 |
| 447                            |                       | 45.6  | 9810                         | 1000  | 1.16 | 370                            | 37.7                  |             | 9810                         | 1000  | 1.40         | 02 - 6120DA              | - 377      |                         | B-108 | B-124 | B-143 |
|                                |                       |       | 9810                         | 1000  | 1.41 |                                |                       |             | 9810                         | 1000  | 1.70         | 02 - 6125DA              | - 377      |                         | B-108 | B-124 | B-143 |
|                                |                       |       | 14700                        | 1500  | 1.75 |                                |                       |             | 14700                        | 1500  | 2.11         | 02 - 6130DA              | - 377      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 14700                        | 1500  | 2.10 |                                |                       |             | 14700                        | 1500  | 2.15         | 02 - 6135DA              | - 377      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 14700                        | 1500  | 2.10 |                                |                       |             | 14700                        | 1500  | 2.54         | 02 - 6135DB              | - 377      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 16000                        | 1630  | 2.15 |                                |                       |             | 16000                        | 1630  | 2.15         | 02 - 6140DA              | - 377      |                         | B-109 | B-125 | B-144 |
| 16000                          |                       | 1630  | 2.74                         | 16000 | 1630 | 3.31                           | 02 - 6140DB           |             | - 377                        |       | B-109        | B-125                    | B-144      |                         |       |       |       |
| 3.07                           | 250                   | 25.5  | 5400                         | 550   | *1   | 3.70                           | 250                   | 25.5        | 5400                         | 550   | *1           | 02 - 6100DA              | - 473      |                         | B-108 | B-124 | B-143 |
|                                | 300                   | 30.6  | 5400                         | 550   | *1   |                                | 300                   | 30.6        | 5400                         | 550   | *1           | 02 - 6105DA              | - 473      |                         | B-108 | B-124 | B-143 |
|                                | 561                   | 57.2  | 9810                         | 1000  | 1.12 |                                | 465                   | 47.4        | 9810                         | 1000  | 1.36         | 02 - 6125DA              | - 473      |                         | B-108 | B-124 | B-143 |
|                                |                       |       | 14700                        | 1500  | 1.39 |                                |                       |             | 14700                        | 1500  | 1.68         | 02 - 6130DA              | - 473      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 14700                        | 1500  | 1.68 |                                |                       |             | 14700                        | 1500  | 2.02         | 02 - 6135DA              | - 473      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 16000                        | 1630  | 2.15 |                                |                       |             | 16000                        | 1630  | 2.15         | 02 - 6140DA              | - 473      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 16000                        | 1630  | 2.18 |                                |                       |             | 16000                        | 1630  | 2.64         | 02 - 6140DB              | - 473      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 16000                        | 1630  | 2.44 |                                |                       |             | 16000                        | 1630  | 2.95         | 02 - 6145DB              | - 473      |                         | B-109 | B-125 | B-144 |
| 2.59                           | 300                   | 30.6  | 5400                         | 550   | *1   | 3.13                           | 300                   | 30.6        | 5400                         | 550   | *1           | 02 - 6105DA              | - 559      |                         | B-108 | B-124 | B-143 |
|                                | 525                   | 53.5  | 9810                         | 1000  | *1   |                                | 525                   | 53.5        | 9810                         | 1000  | *1           | 02 - 6120DA              | - 559      |                         | B-108 | B-124 | B-143 |
|                                | 663                   | 67.6  | 9810                         | 1000  | 0.95 |                                | 549                   | 56.0        | 9810                         | 1000  | 1.15         | 02 - 6125DA              | - 559      |                         | B-108 | B-124 | B-143 |
|                                |                       |       | 14700                        | 1500  | 1.18 |                                |                       |             | 14700                        | 1500  | 1.42         | 02 - 6130DA              | - 559      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 14700                        | 1500  | 1.42 |                                |                       |             | 14700                        | 1500  | 1.71         | 02 - 6135DA              | - 559      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 16000                        | 1630  | 1.85 |                                |                       |             | 16000                        | 1630  | 2.15         | 02 - 6140DA              | - 559      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 16000                        | 1630  | 1.85 |                                |                       |             | 16000                        | 1630  | 2.23         | 02 - 6140DB              | - 559      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 16000                        | 1630  | 2.07 |                                |                       |             | 16000                        | 1630  | 2.15         | 02 - 6145DA              | - 559      |                         | B-109 | B-125 | B-144 |
|                                | 16000                 | 1630  | 2.07                         | 16000 | 1630 |                                | 2.50                  | 02 - 6145DB | - 559                        |       | B-109        | B-125                    | B-144      |                         |       |       |       |
|                                | 2.23                  | 525   | 53.5                         | 9810  | 1000 |                                | *1                    | 2.70        | 525                          | 53.5  | 9810         | 1000                     | *1         | 02 - 6120DA             | - 649 |       | B-108 |
| 630                            |                       | 64.2  | 9810                         | 1000  | *1   | 630                            | 64.2                  |             | 9810                         | 1000  | *1           | 02 - 6125DA              | - 649      |                         | B-108 | B-124 | B-143 |
| 769                            |                       | 78.4  | 9810                         | 1000  | 0.82 | 638                            | 65.0                  |             | 9810                         | 1000  | 0.98         | 02 - 6125DA              | - 649      |                         | B-108 | B-124 | B-143 |
|                                |                       |       | 14700                        | 1500  | 1.19 |                                |                       |             | 14700                        | 1500  | 1.43         | 02 - 6130DA              | - 649      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 14700                        | 1500  | 1.36 |                                |                       |             | 14700                        | 1500  | 1.65         | 02 - 6135DA              | - 649      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 16000                        | 1630  | 1.59 |                                |                       |             | 16000                        | 1630  | 1.92         | 02 - 6140DA              | - 649      |                         | B-109 | B-125 | B-144 |
| 16000                          | 1630                  | 1.78  | 16000                        | 1630  | 2.15 | 02 - 6145DA                    | - 649                 |             | B-109                        | B-125 | B-144        |                          |            |                         |       |       |       |
| 1.98                           | 525                   | 53.5  | 9810                         | 1000  | *1   | 2.39                           | 525                   | 53.5        | 9810                         | 1000  | *1           | 02 - 6120DA              | - 731      |                         | B-108 | B-124 | B-143 |
|                                | 630                   | 64.2  | 9810                         | 1000  | *1   |                                | 630                   | 64.2        | 9810                         | 1000  | *1           | 02 - 6125DA              | - 731      |                         | B-108 | B-124 | B-143 |
|                                | 867                   | 88.3  | 14700                        | 1500  | 1.08 |                                | 718                   | 73.2        | 14700                        | 1500  | 1.31         | 02 - 6135DA              | - 731      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 16000                        | 1630  | 1.41 |                                |                       |             | 16000                        | 1630  | 1.71         | 02 - 6140DA              | - 731      |                         | B-109 | B-125 | B-144 |
| 16000                          | 1630                  | 1.58  | 16000                        | 1630  | 1.91 | 02 - 6145DA                    | - 731                 |             | B-109                        | B-125 | B-144        |                          |            |                         |       |       |       |
| 1.72                           | 520                   | 53.0  | 9810                         | 1000  | *1   | 2.08                           | 520                   | 53.0        | 9810                         | 1000  | *1           | 02 - 6120DA              | - 841      |                         | B-108 | B-124 | B-143 |
|                                | 630                   | 64.2  | 9810                         | 1000  | *1   |                                | 630                   | 64.2        | 9810                         | 1000  | *1           | 02 - 6125DA              | - 841      |                         | B-108 | B-124 | B-143 |
|                                | 780                   | 79.5  | 14700                        | 1500  | *1   |                                | 780                   | 79.5        | 14700                        | 1500  | *1           | 02 - 6130DA              | - 841      |                         | B-109 | B-125 | B-144 |
|                                | 997                   | 102   | 14700                        | 1500  | 0.94 |                                | 826                   | 84.2        | 14700                        | 1500  | 1.14         | 02 - 6135DA              | - 841      |                         | B-109 | B-125 | B-144 |
|                                |                       |       | 16000                        | 1630  | 1.23 |                                |                       |             | 16000                        | 1630  | 1.48         | 02 - 6140DA              | - 841      |                         | B-109 | B-125 | B-144 |
|                                | 16000                 | 1630  | 1.37                         | 16000 | 1630 |                                | 1.51                  | 02 - 6145DA | - 841                        |       | B-109        | B-125                    | B-144      |                         |       |       |       |

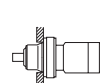
- "\*2" indicate models manufactured with reducer and motor separately mounted on a common baseplate (horizontal shaft direction) or on an adaptor (vertical shaft direction). Consult us for details, including dimensions.
- Allowable radial load (Pro) is the value at the midpoint of the slow speed shaft.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

## Selection Tables Gearmotors

| 0.2 kW | Hz             |       | 50Hz |     | 60Hz |      |
|--------|----------------|-------|------|-----|------|------|
|        | P              |       | 4    | 6   | 4    | 6    |
|        | n <sub>1</sub> | r/min | 1450 | 980 | 1750 | 1165 |



CHHM/CNHM



CHFM/CNFM



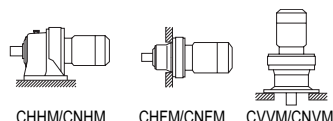
CVVM/CNVM

| 50Hz                           |                       |                              |              |             |             | 60Hz                           |                       |                              |              |             | Nomenclature |                          |               | Page of Dimension Sheet |              |              |       |
|--------------------------------|-----------------------|------------------------------|--------------|-------------|-------------|--------------------------------|-----------------------|------------------------------|--------------|-------------|--------------|--------------------------|---------------|-------------------------|--------------|--------------|-------|
| Output Speed<br>n <sub>2</sub> | Output Torque<br>Tout | Allowable Radial Load<br>Pro |              | SF          |             | Output Speed<br>n <sub>2</sub> | Output Torque<br>Tout | Allowable Radial Load<br>Pro |              | SF          |              | Input Capacity<br>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  |
| 1.45                           | 525                   | 53.5                         | 9810         | 1000        | *1          | 1.74                           | 525                   | 53.5                         | 9810         | 1000        | *1           | 02 -                     | 6120DA        | - 1003                  | B-108        | B-124        | B-143 |
|                                | 630                   | 64.2                         | 9810         | 1000        | *1          |                                | 630                   | 64.2                         | 9810         | 1000        | *1           | 02 -                     | 6125DA        | - 1003                  | B-108        | B-124        | B-143 |
|                                | 912                   | 93.0                         | 14700        | 1500        | *1          |                                | 912                   | 93.0                         | 14700        | 1500        | *1           | 02 -                     | 6130DA        | - 1003                  | B-109        | B-125        | B-144 |
|                                |                       |                              | 14700        | 1500        | 0.88        |                                |                       |                              | 14700        | 1500        | 1.07         | 02 -                     | 6135DA        | - 1003                  | B-109        | B-125        | B-144 |
|                                | 1190                  | 121                          | <b>16000</b> | <b>1630</b> | <b>1.03</b> |                                | 985                   | 100                          | <b>16000</b> | <b>1630</b> | <b>1.24</b>  | <b>02 - 6140DA</b>       | <b>- 1003</b> | <b>B-109</b>            | <b>B-125</b> | <b>B-144</b> |       |
|                                |                       |                              | 16000        | 1630        | 1.15        |                                |                       |                              | 16000        | 1630        | 1.39         | 02 -                     | 6145DA        | - 1003                  | B-109        | B-125        | B-144 |
| 1.16                           | 630                   | 64.2                         | 9810         | 1000        | *1          | 1.40                           | 630                   | 64.2                         | 9810         | 1000        | *1           | 02 -                     | 6125DA        | - 1247                  | B-108        | B-124        | B-143 |
|                                | 780                   | 79.5                         | 14700        | 1500        | *1          |                                | 780                   | 79.5                         | 14700        | 1500        | *1           | 02 -                     | 6130DA        | - 1247                  | B-109        | B-125        | B-144 |
|                                | 940                   | 95.8                         | 14700        | 1500        | *1          |                                | 940                   | 95.8                         | 14700        | 1500        | *1           | 02 -                     | 6135DA        | - 1247                  | B-109        | B-125        | B-144 |
|                                | 1230                  | 125                          | 16000        | 1630        | *1          |                                | 1230                  | 125                          | 16000        | 1630        | *1           | 02 -                     | 6140DA        | - 1247                  | B-109        | B-125        | B-144 |
|                                | 1480                  | 151                          | 15200        | 1540        | 0.93        |                                | 1220                  | 125                          | 16000        | 1630        | 1.12         | 02 -                     | 6145DA        | - 1247                  | B-109        | B-125        | B-144 |
| 0.980                          | 848                   | 86.5                         | 14700        | 1500        | *1          | 1.18                           | 848                   | 86.5                         | 14700        | 1500        | *1           | 02 -                     | 6130DA        | - 1479                  | B-109        | B-125        | B-144 |
|                                | 979                   | 99.8                         | 14700        | 1500        | *1          |                                | 979                   | 99.8                         | 14700        | 1500        | *1           | 02 -                     | 6135DA        | - 1479                  | B-109        | B-125        | B-144 |
|                                | 1230                  | 125                          | 16000        | 1630        | *1          |                                | 1230                  | 125                          | 16000        | 1630        | *1           | 02 -                     | 6140DA        | - 1479                  | B-109        | B-125        | B-144 |
|                                | 1250                  | 127                          | 16000        | 1630        | *1          |                                | 1250                  | 127                          | 16000        | 1630        | *1           | 02 -                     | 6145DA        | - 1479                  | B-109        | B-125        | B-144 |
|                                |                       |                              |              |             |             |                                |                       |                              |              |             |              |                          |               |                         |              |              |       |
| 0.784                          | 780                   | 79.5                         | 14700        | 1500        | *1          | 0.946                          | 780                   | 79.5                         | 14700        | 1500        | *1           | 02 -                     | 6130DA        | - 1849                  | B-109        | B-125        | B-144 |
|                                | 940                   | 95.8                         | 14700        | 1500        | *1          |                                | 940                   | 95.8                         | 14700        | 1500        | *1           | 02 -                     | 6135DA        | - 1849                  | B-109        | B-125        | B-144 |
|                                | 1230                  | 125                          | 16000        | 1630        | *1          |                                | 1230                  | 125                          | 16000        | 1630        | *1           | 02 -                     | 6140DA        | - 1849                  | B-109        | B-125        | B-144 |
|                                | 1370                  | 140                          | 15700        | 1600        | *1          |                                | 1370                  | 140                          | 15700        | 1600        | *1           | 02 -                     | 6145DA        | - 1849                  | B-109        | B-125        | B-144 |
|                                | 1740                  | 177                          | 22100        | 2250        | *1          |                                | 1740                  | 177                          | 22100        | 2250        | *1           | 02 -                     | 6160DA        | - 1849                  | B-110        | B-126        | B-145 |
| 0.702                          | 912                   | 93.0                         | 14700        | 1500        | *1          | 0.847                          | 912                   | 93.0                         | 14700        | 1500        | *1           | 02 -                     | 6130DA        | - 2065                  | B-109        | B-125        | B-144 |
|                                | 1050                  | 107                          | 14700        | 1500        | *1          |                                | 1050                  | 107                          | 14700        | 1500        | *1           | 02 -                     | 6135DA        | - 2065                  | B-109        | B-125        | B-144 |
|                                | 1230                  | 125                          | 16000        | 1630        | *1          |                                | 1230                  | 125                          | 16000        | 1630        | *1           | 02 -                     | 6140DA        | - 2065                  | B-109        | B-125        | B-144 |
|                                | 1370                  | 140                          | 16000        | 1630        | *1          |                                | 1370                  | 140                          | 16000        | 1630        | *1           | 02 -                     | 6145DA        | - 2065                  | B-109        | B-125        | B-144 |
|                                | 1760                  | 179                          | 22100        | 2250        | *1          |                                | 1760                  | 179                          | 22100        | 2250        | *1           | 02 -                     | 6160DA        | - 2065                  | B-110        | B-126        | B-145 |
|                                | 2450                  | 250                          | 22100        | 2250        | 0.86        |                                | 2030                  | 207                          | 22100        | 2250        | 1.04         | 02 -                     | 6165DA        | - 2065                  | B-110        | B-126        | B-145 |
|                                |                       |                              |              |             |             |                                |                       |                              |              |             |              |                          |               |                         |              |              |       |
| 0.572                          | 912                   | 93.0                         | 14700        | 1500        | *1          | 0.690                          | 912                   | 93.0                         | 14700        | 1500        | *1           | 02 -                     | 6130DA        | - 2537                  | B-109        | B-125        | B-144 |
|                                | 1050                  | 107                          | 14700        | 1500        | *1          |                                | 1050                  | 107                          | 14700        | 1500        | *1           | 02 -                     | 6135DA        | - 2537                  | B-109        | B-125        | B-144 |
|                                | 1230                  | 125                          | 16000        | 1630        | *1          |                                | 1230                  | 125                          | 16000        | 1630        | *1           | 02 -                     | 6140DA        | - 2537                  | B-109        | B-125        | B-144 |
|                                | 1370                  | 140                          | 16000        | 1630        | *1          |                                | 1370                  | 140                          | 16000        | 1630        | *1           | 02 -                     | 6145DA        | - 2537                  | B-109        | B-125        | B-144 |
|                                | 1760                  | 179                          | 22100        | 2250        | *1          |                                | 1760                  | 179                          | 22100        | 2250        | *1           | 02 -                     | 6160DA        | - 2537                  | B-110        | B-126        | B-145 |
|                                | 2100                  | 214                          | 22100        | 2250        | *1          |                                | 2100                  | 214                          | 22100        | 2250        | *1           | 02 -                     | 6165DA        | - 2537                  | B-110        | B-126        | B-145 |
|                                |                       |                              |              |             |             |                                |                       |                              |              |             |              |                          |               |                         |              |              |       |
| 0.476                          | 848                   | 86.5                         | 14700        | 1500        | *1          | 0.575                          | 848                   | 86.5                         | 14700        | 1500        | *1           | 02 -                     | 6130DA        | - 3045                  | B-109        | B-125        | B-144 |
|                                | 979                   | 99.8                         | 14700        | 1500        | *1          |                                | 979                   | 99.8                         | 14700        | 1500        | *1           | 02 -                     | 6135DA        | - 3045                  | B-109        | B-125        | B-144 |
|                                | 1230                  | 125                          | 16000        | 1630        | *1          |                                | 1230                  | 125                          | 16000        | 1630        | *1           | 02 -                     | 6140DA        | - 3045                  | B-109        | B-125        | B-144 |
|                                | 1250                  | 127                          | 16000        | 1630        | *1          |                                | 1250                  | 127                          | 16000        | 1630        | *1           | 02 -                     | 6145DA        | - 3045                  | B-109        | B-125        | B-144 |
|                                | 1760                  | 179                          | 22100        | 2250        | *1          |                                | 1760                  | 179                          | 22100        | 2250        | *1           | 02 -                     | 6160DA        | - 3045                  | B-110        | B-126        | B-145 |
|                                | 2050                  | 209                          | 21800        | 2220        | *1          |                                | 2050                  | 209                          | 21800        | 2220        | *1           | 02 -                     | 6165DA        | - 3045                  | B-110        | B-126        | B-145 |
|                                | 2530                  | 258                          | 29500        | 3010        | *1          |                                | 2530                  | 258                          | 29500        | 3010        | *1           | 02 -                     | 6170DA        | - 3045                  | B-110        | B-126        | B-145 |
|                                | 3610                  | 368                          | 29500        | 3010        | 0.87        |                                | 2990                  | 305                          | 29500        | 3010        | 1.05         | 02 -                     | 6175DA        | - 3045                  | B-110        | B-126        | B-145 |
| 0.417                          | 912                   | 93.0                         | 14700        | 1500        | *1          | 0.503                          | 912                   | 93.0                         | 14700        | 1500        | *1           | 02 -                     | 6130DA        | - 3481                  | B-109        | B-125        | B-144 |
|                                | 1050                  | 107                          | 14700        | 1500        | *1          |                                | 1050                  | 107                          | 14700        | 1500        | *1           | 02 -                     | 6135DA        | - 3481                  | B-109        | B-125        | B-144 |
|                                | 1230                  | 125                          | 16000        | 1630        | *1          |                                | 1230                  | 125                          | 16000        | 1630        | *1           | 02 -                     | 6140DA        | - 3481                  | B-109        | B-125        | B-144 |
|                                | 1370                  | 140                          | 16000        | 1630        | *1          |                                | 1370                  | 140                          | 16000        | 1630        | *1           | 02 -                     | 6145DA        | - 3481                  | B-109        | B-125        | B-144 |
|                                | 1760                  | 179                          | 22100        | 2250        | *1          |                                | 1760                  | 179                          | 22100        | 2250        | *1           | 02 -                     | 6160DA        | - 3481                  | B-110        | B-126        | B-145 |
|                                | 2100                  | 214                          | 22100        | 2250        | *1          |                                | 2100                  | 214                          | 22100        | 2250        | *1           | 02 -                     | 6165DA        | - 3481                  | B-110        | B-126        | B-145 |
|                                | 2530                  | 258                          | 29500        | 3010        | *1          |                                | 2530                  | 258                          | 29500        | 3010        | *1           | 02 -                     | 6170DA        | - 3481                  | B-110        | B-126        | B-145 |
|                                | 3150                  | 321                          | 29500        | 3010        | *1          |                                | 3150                  | 321                          | 29500        | 3010        | *1           | 02 -                     | 6175DA        | - 3481                  | B-110        | B-126        | B-145 |

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 n<sub>1</sub> and n<sub>2</sub>. 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



| 0.2 kW | Hz             |       | 50Hz |     | 60Hz |      |
|--------|----------------|-------|------|-----|------|------|
|        | P              |       | 4    | 6   | 4    | 6    |
|        | n <sub>1</sub> | r/min | 1450 | 980 | 1750 | 1165 |

n<sub>1</sub>: Motor Speed

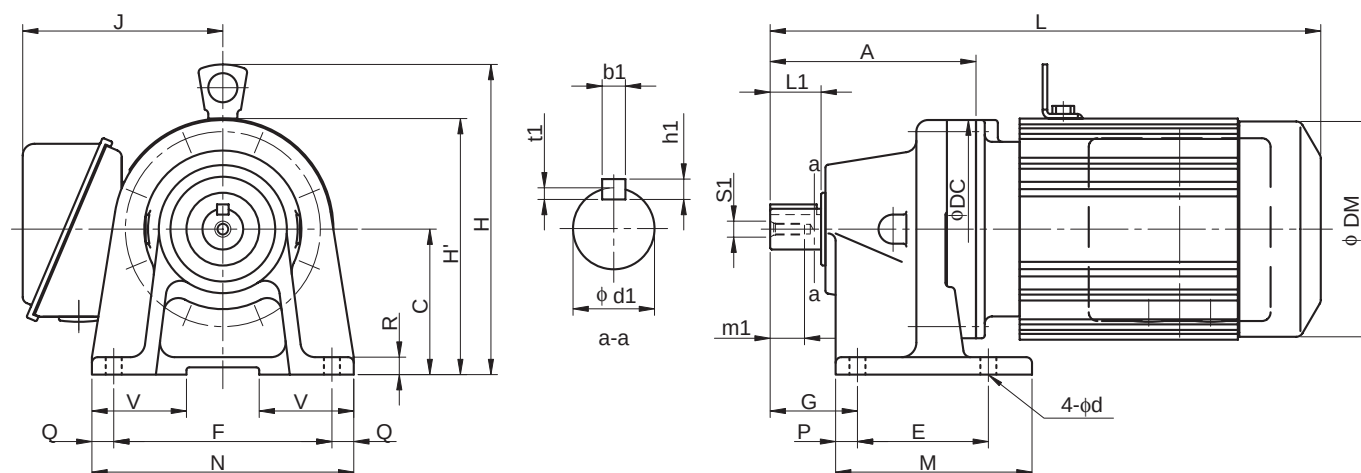
| 50Hz                           |                       |                              |       |      |    | 60Hz                           |                       |                              |       |      |    | Nomenclature             |            |                 | Page of Dimension Sheet |              |              |
|--------------------------------|-----------------------|------------------------------|-------|------|----|--------------------------------|-----------------------|------------------------------|-------|------|----|--------------------------|------------|-----------------|-------------------------|--------------|--------------|
| Output Speed<br>n <sub>2</sub> | Output Torque<br>Tout | Allowable Radial Load<br>Pro |       | SF   |    | Output Speed<br>n <sub>2</sub> | Output Torque<br>Tout | Allowable Radial Load<br>Pro |       | SF   |    | Input Capacity<br>Symbol | Frame Size | Reduction Ratio | CNHM<br>CHHM            | CNFM<br>CHFM | CNVM<br>CVVM |
| r/min                          | N·m                   | kgf·m                        | N     | kgf  |    | r/min                          | N·m                   | kgf·m                        | N     | kgf  |    |                          |            |                 |                         |              |              |
| 0.327                          | 848                   | 86.5                         | 14700 | 1500 | *1 | 0.394                          | 848                   | 86.5                         | 14700 | 1500 | *1 | 02 - 6130DA              | - 4437     |                 | B-109                   | B-125        | B-144        |
|                                | 979                   | 99.8                         | 14700 | 1500 | *1 |                                | 979                   | 99.8                         | 14700 | 1500 | *1 | 02 - 6135DA              | - 4437     |                 | B-109                   | B-125        | B-144        |
|                                | 1230                  | 125                          | 16000 | 1630 | *1 |                                | 1230                  | 125                          | 16000 | 1630 | *1 | 02 - 6140DA              | - 4437     |                 | B-109                   | B-125        | B-144        |
|                                | 1250                  | 127                          | 16000 | 1630 | *1 |                                | 1250                  | 127                          | 16000 | 1630 | *1 | 02 - 6145DA              | - 4437     |                 | B-109                   | B-125        | B-144        |
|                                | 1760                  | 179                          | 22100 | 2250 | *1 |                                | 1760                  | 179                          | 22100 | 2250 | *1 | 02 - 6160DA              | - 4437     |                 | B-110                   | B-126        | B-145        |
|                                | 2050                  | 209                          | 21800 | 2220 | *1 |                                | 2050                  | 209                          | 21800 | 2220 | *1 | 02 - 6165DA              | - 4437     |                 | B-110                   | B-126        | B-145        |
|                                | 2530                  | 258                          | 29500 | 3010 | *1 |                                | 2530                  | 258                          | 29500 | 3010 | *1 | 02 - 6170DA              | - 4437     |                 | B-110                   | B-126        | B-145        |
|                                | 3150                  | 321                          | 29500 | 3010 | *1 |                                | 3150                  | 321                          | 29500 | 3010 | *1 | 02 - 6175DA              | - 4437     |                 | B-110                   | B-126        | B-145        |
| 0.282                          | 848                   | 86.5                         | 14700 | 1500 | *1 | 0.341                          | 848                   | 86.5                         | 14700 | 1500 | *1 | 02 - 6130DA              | - 5133     |                 | B-109                   | B-125        | B-144        |
|                                | 979                   | 99.8                         | 14700 | 1500 | *1 |                                | 979                   | 99.8                         | 14700 | 1500 | *1 | 02 - 6135DA              | - 5133     |                 | B-109                   | B-125        | B-144        |
|                                | 1230                  | 125                          | 16000 | 1630 | *1 |                                | 1230                  | 125                          | 16000 | 1630 | *1 | 02 - 6140DA              | - 5133     |                 | B-109                   | B-125        | B-144        |
|                                | 1250                  | 127                          | 16000 | 1630 | *1 |                                | 1250                  | 127                          | 16000 | 1630 | *1 | 02 - 6145DA              | - 5133     |                 | B-109                   | B-125        | B-144        |
|                                | 1760                  | 179                          | 22100 | 2250 | *1 |                                | 1760                  | 179                          | 22100 | 2250 | *1 | 02 - 6160DA              | - 5133     |                 | B-110                   | B-126        | B-145        |
|                                | 2050                  | 209                          | 21800 | 2220 | *1 |                                | 2050                  | 209                          | 21800 | 2220 | *1 | 02 - 6165DA              | - 5133     |                 | B-110                   | B-126        | B-145        |
|                                | 2530                  | 258                          | 29500 | 3010 | *1 |                                | 2530                  | 258                          | 29500 | 3010 | *1 | 02 - 6170DA              | - 5133     |                 | B-110                   | B-126        | B-145        |
|                                | 3150                  | 321                          | 29500 | 3010 | *1 |                                | 3150                  | 321                          | 29500 | 3010 | *1 | 02 - 6175DA              | - 5133     |                 | B-110                   | B-126        | B-145        |
| 0.235                          | 848                   | 86.5                         | 14700 | 1500 | *1 | 0.283                          | 848                   | 86.5                         | 14700 | 1500 | *1 | 02 - 6130DB              | - 6177     |                 | B-109                   | B-125        | B-143        |
|                                | 979                   | 99.8                         | 14700 | 1500 | *1 |                                | 979                   | 99.8                         | 14700 | 1500 | *1 | 02 - 6135DB              | - 6177     |                 | B-109                   | B-125        | B-144        |
|                                | 1230                  | 125                          | 16000 | 1630 | *1 |                                | 1230                  | 125                          | 16000 | 1630 | *1 | 02 - 6140DB              | - 6177     |                 | B-109                   | B-125        | B-144        |
|                                | 1250                  | 127                          | 16000 | 1630 | *1 |                                | 1250                  | 127                          | 16000 | 1630 | *1 | 02 - 6145DB              | - 6177     |                 | B-109                   | B-125        | B-144        |
|                                | 1760                  | 179                          | 22100 | 2250 | *1 |                                | 1760                  | 179                          | 22100 | 2250 | *1 | 02 - 6160DA              | - 6177     |                 | B-110                   | B-126        | B-145        |
|                                | 2050                  | 209                          | 21800 | 2220 | *1 |                                | 2050                  | 209                          | 21800 | 2220 | *1 | 02 - 6165DA              | - 6177     |                 | B-110                   | B-126        | B-145        |
|                                | 2530                  | 258                          | 29500 | 3010 | *1 |                                | 2530                  | 258                          | 29500 | 3010 | *1 | 02 - 6170DA              | - 6177     |                 | B-110                   | B-126        | B-145        |
|                                | 3150                  | 321                          | 29500 | 3010 | *1 |                                | 3150                  | 321                          | 29500 | 3010 | *1 | 02 - 6175DA              | - 6177     |                 | B-110                   | B-126        | B-145        |
| 0.192                          | 848                   | 86.5                         | 14700 | 1500 | *1 | 0.231                          | 848                   | 86.5                         | 14700 | 1500 | *1 | 02 - 6130DB              | - 7569     |                 | B-109                   | B-125        | B-143        |
|                                | 979                   | 99.8                         | 14700 | 1500 | *1 |                                | 979                   | 99.8                         | 14700 | 1500 | *1 | 02 - 6135DB              | - 7569     |                 | B-109                   | B-125        | B-144        |
|                                | 1230                  | 125                          | 16000 | 1630 | *1 |                                | 1230                  | 125                          | 16000 | 1630 | *1 | 02 - 6140DB              | - 7569     |                 | B-109                   | B-125        | B-144        |
|                                | 1250                  | 127                          | 16000 | 1630 | *1 |                                | 1250                  | 127                          | 16000 | 1630 | *1 | 02 - 6145DB              | - 7569     |                 | B-109                   | B-125        | B-144        |
|                                | 1760                  | 179                          | 22100 | 2250 | *1 |                                | 1760                  | 179                          | 22100 | 2250 | *1 | 02 - 6160DA              | - 7569     |                 | B-110                   | B-126        | B-145        |
|                                | 2050                  | 209                          | 21800 | 2220 | *1 |                                | 2050                  | 209                          | 21800 | 2220 | *1 | 02 - 6165DA              | - 7569     |                 | B-110                   | B-126        | B-145        |
|                                | 2530                  | 258                          | 29500 | 3010 | *1 |                                | 2530                  | 258                          | 29500 | 3010 | *1 | 02 - 6170DA              | - 7569     |                 | B-110                   | B-126        | B-145        |
|                                | 3150                  | 321                          | 29500 | 3010 | *1 |                                | 3150                  | 321                          | 29500 | 3010 | *1 | 02 - 6175DA              | - 7569     |                 | B-110                   | B-126        | B-145        |

GEARMOTORS

Selection Tables  
0.2 kW

- "\*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.

## Dimension Tables Gearmotors (Universal Direction, Foot-Mount)

CNHM<sup>Note 1</sup> - 606□ to 609□

| Frame size<br>Note 4 | A   | C   | DC  | E  | F   | G  | M   | N   | P  | Q  | R  | V  | d  | Output Shaft<br>Note 2, 3, 6 |    |    |    |     |    |    |
|----------------------|-----|-----|-----|----|-----|----|-----|-----|----|----|----|----|----|------------------------------|----|----|----|-----|----|----|
|                      |     |     |     |    |     |    |     |     |    |    |    |    |    | d1                           | L1 | b1 | h1 | t1  | S1 | m1 |
| 606□                 | 92  | 80  | 110 | 60 | 120 | 41 | 84  | 144 | 12 | 12 | 10 | 35 | 9  | 14                           | 25 | 5  | 5  | 3   | M5 | 16 |
| 607□                 | 98  | 80  | 110 | 60 | 120 | 47 | 84  | 144 | 12 | 12 | 10 | 35 | 9  | 18                           | 30 | 6  | 6  | 3.5 | M6 | 16 |
| 608□                 | 129 | 90  | 134 | 75 | 120 | 52 | 99  | 144 | 12 | 12 | 13 | 37 | 9  | 22                           | 35 | 6  | 6  | 3.5 | M6 | 16 |
| 609□                 | 142 | 100 | 150 | 90 | 150 | 60 | 135 | 180 | 15 | 15 | 12 | 40 | 11 | 28                           | 35 | 8  | 7  | 4   | M8 | 20 |

| Model<br>Note 4, 5          | Motor |   | Standard |     |     |     |     |       |  | With Brake |     |     |     |     |       |  |
|-----------------------------|-------|---|----------|-----|-----|-----|-----|-------|--|------------|-----|-----|-----|-----|-------|--|
|                             | kW    | P | L        | H   | H'  | J   | DM  | W(kg) |  | L          | H   | H'  | J   | DM  | W(kg) |  |
| CNHM01 - 606□ - (B) - Ratio | 0.1   | 4 | 254      | -   | 140 | 130 | 119 | 7     |  | 261        | -   | 138 | 130 | 124 | 8     |  |
| CNHM02 - 606□ - (B) - Ratio | 0.2   | 4 | 272      | -   | 138 | 130 | 124 | 8     |  | 300        | -   | 138 | 130 | 124 | 9     |  |
| CNHM03 - 606□ - (B) - Ratio | 0.25  | 4 | 272      | -   | 138 | 130 | 124 | 8     |  | 300        | -   | 138 | 130 | 124 | 9     |  |
| CNHM01 - 607□ - (B) - Ratio | 0.1   | 4 | 260      | -   | 140 | 130 | 119 | 7     |  | 267        | -   | 138 | 130 | 124 | 8     |  |
| CNHM02 - 607□ - (B) - Ratio | 0.2   | 4 | 278      | -   | 138 | 130 | 124 | 8     |  | 306        | -   | 138 | 130 | 124 | 9     |  |
| CNHM03 - 607□ - (B) - Ratio | 0.25  | 4 | 278      | -   | 138 | 130 | 124 | 8     |  | 306        | -   | 138 | 130 | 124 | 9     |  |
| CNHM05 - 607□ - (B) - Ratio | 0.4   | 4 | 294      | -   | 138 | 130 | 124 | 9     |  | 326        | -   | 138 | 130 | 124 | 10    |  |
| CNHM01 - 608□ - (B) - Ratio | 0.1   | 4 | 286      | -   | 157 | 130 | 119 | 10    |  | 293        | -   | 157 | 130 | 124 | 11    |  |
| CNHM02 - 608□ - (B) - Ratio | 0.2   | 4 | 304      | -   | 157 | 130 | 124 | 11    |  | 332        | -   | 157 | 130 | 124 | 12    |  |
| CNHM03 - 608□ - (B) - Ratio | 0.25  | 4 | 304      | -   | 157 | 130 | 124 | 11    |  | 332        | -   | 157 | 130 | 124 | 12    |  |
| CNHM05 - 608□ - (B) - Ratio | 0.4   | 4 | 320      | -   | 157 | 130 | 124 | 13    |  | 352        | -   | 157 | 130 | 124 | 14    |  |
| CNHM08 - 608□ - (B) - Ratio | 0.55  | 4 | 361      | 203 | -   | 140 | 148 | 17    |  | 404        | 203 | -   | 140 | 148 | 18    |  |
| CNHM1 - 608□ - (B) - Ratio  | 0.75  | 4 | 361      | 203 | -   | 140 | 148 | 17    |  | 404        | 203 | -   | 140 | 148 | 18    |  |
| CNHM01 - 609□ - (B) - Ratio | 0.1   | 4 | 304      | -   | 175 | 130 | 119 | 12    |  | 311        | -   | 175 | 130 | 124 | 14    |  |
| CNHM02 - 609□ - (B) - Ratio | 0.2   | 4 | 322      | -   | 175 | 130 | 124 | 13    |  | 350        | -   | 175 | 130 | 124 | 15    |  |
| CNHM03 - 609□ - (B) - Ratio | 0.25  | 4 | 322      | -   | 175 | 130 | 124 | 13    |  | 350        | -   | 175 | 130 | 124 | 15    |  |
| CNHM05 - 609□ - (B) - Ratio | 0.4   | 4 | 338      | -   | 175 | 130 | 124 | 14    |  | 370        | -   | 175 | 130 | 124 | 16    |  |
| CNHM08 - 609□ - (B) - Ratio | 0.55  | 4 | 379      | 213 | -   | 140 | 148 | 18    |  | 422        | 213 | -   | 140 | 148 | 21    |  |
| CNHM1 - 609□ - (B) - Ratio  | 0.75  | 4 | 379      | 213 | -   | 140 | 148 | 18    |  | 422        | 213 | -   | 140 | 148 | 21    |  |
| CNHM1H - 609□ - (B) - Ratio | 1.1   | 4 | 412      | 220 | -   | 145 | 160 | 21    |  | 474        | 220 | -   | 145 | 160 | 26    |  |
| CNHM2 - 609□ - (B) - Ratio  | 1.5   | 4 | 412      | 220 | -   | 145 | 160 | 21    |  | 474        | 220 | -   | 145 | 160 | 26    |  |

Note: 1. □ indicates motor capacity.

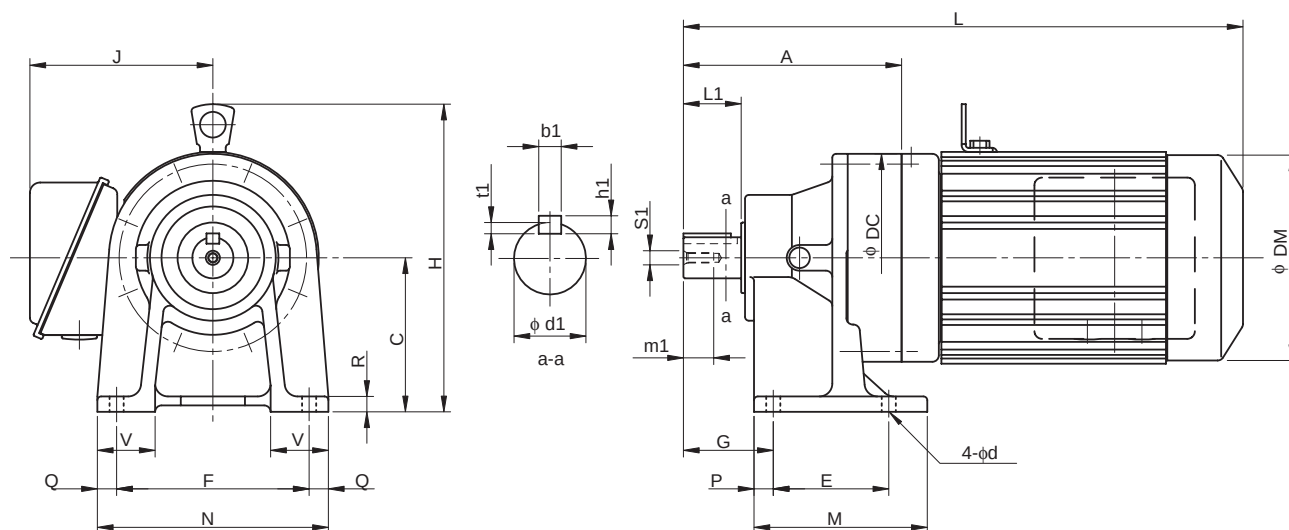
2. Dimension of shaft end diameter: Dimension tolerance conforms to JIS B 0401-1976 "h6."

3. Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."



# Dimension Tables Gearmotors (Universal Direction, Foot-Mount)

CNHM<sup>Note 1</sup> - 610□ to 612□



GEARMOTORS

Dimension Tables  
CNHM

| Frame size<br><small>Note 4</small> | A   | C   | DC  | E   | F   | G  | M   | N   | P  | Q  | R  | V  | d  | Output Shaft <small>Note 2, 3, 6</small> |    |    |    |    |    |    |
|-------------------------------------|-----|-----|-----|-----|-----|----|-----|-----|----|----|----|----|----|------------------------------------------|----|----|----|----|----|----|
|                                     |     |     |     |     |     |    |     |     |    |    |    |    |    | d1                                       | L1 | b1 | h1 | t1 | S1 | m1 |
| 610□                                | 156 | 100 | 150 | 90  | 150 | 60 | 135 | 180 | 15 | 15 | 12 | 40 | 11 | 28                                       | 35 | 8  | 7  | 4  | M8 | 20 |
| 611□                                | 170 | 120 | 162 | 90  | 150 | 70 | 135 | 180 | 15 | 15 | 12 | 45 | 11 | 32                                       | 45 | 10 | 8  | 5  | M8 | 20 |
| 612□                                | 186 | 120 | 204 | 115 | 190 | 82 | 155 | 230 | 20 | 20 | 15 | 55 | 14 | 38                                       | 55 | 10 | 8  | 5  | M8 | 20 |

| Model<br><small>Note 4, 5</small> | Motor |   | Standard |     |     |     |       |  | With Brake |     |     |     |       |  |
|-----------------------------------|-------|---|----------|-----|-----|-----|-------|--|------------|-----|-----|-----|-------|--|
|                                   | kW    | P | L        | H   | J   | DM  | W(kg) |  | L          | H   | J   | DM  | W(kg) |  |
| CNHM02 - 610□ - (B) - Ratio       | 0.2   | 4 | 336      | 207 | 130 | 124 | 18    |  | 364        | 207 | 130 | 124 | 20    |  |
| CNHM03 - 610□ - (B) - Ratio       | 0.25  | 4 | 336      | 207 | 130 | 124 | 18    |  | 364        | 207 | 130 | 124 | 20    |  |
| CNHM05 - 610□ - (B) - Ratio       | 0.4   | 4 | 352      | 207 | 130 | 124 | 19    |  | 384        | 207 | 130 | 124 | 21    |  |
| CNHM08 - 610□ - (B) - Ratio       | 0.55  | 4 | 393      | 213 | 140 | 148 | 23    |  | 436        | 213 | 140 | 148 | 26    |  |
| CNHM1 - 610□ - (B) - Ratio        | 0.75  | 4 | 393      | 213 | 140 | 148 | 23    |  | 436        | 213 | 140 | 148 | 26    |  |
| CNHM1H - 610□ - (B) - Ratio       | 1.1   | 4 | 426      | 220 | 145 | 160 | 27    |  | 488        | 220 | 145 | 160 | 32    |  |
| CNHM2 - 610□ - (B) - Ratio        | 1.5   | 4 | 426      | 220 | 145 | 160 | 27    |  | 488        | 220 | 145 | 160 | 32    |  |
| CNHM3 - 610□ - (B) - Ratio        | 2.2   | 4 | 446      | 226 | 152 | 173 | 31    |  | 509        | 226 | 152 | 173 | 37    |  |
| CNHM05 - 611□ - (B) - Ratio       | 0.4   | 4 | 363      | 236 | 130 | 124 | 20    |  | 394        | 236 | 130 | 124 | 21    |  |
| CNHM08 - 611□ - (B) - Ratio       | 0.55  | 4 | 403      | 236 | 140 | 148 | 23    |  | 452        | 236 | 140 | 148 | 26    |  |
| CNHM1 - 611□ - (B) - Ratio        | 0.75  | 4 | 403      | 236 | 140 | 148 | 23    |  | 452        | 236 | 140 | 148 | 26    |  |
| CNHM1H - 611□ - (B) - Ratio       | 1.1   | 4 | 436      | 240 | 145 | 160 | 26    |  | 493        | 240 | 145 | 160 | 31    |  |
| CNHM2 - 611□ - (B) - Ratio        | 1.5   | 4 | 436      | 240 | 145 | 160 | 26    |  | 493        | 240 | 145 | 160 | 31    |  |
| CNHM3 - 611□ - (B) - Ratio        | 2.2   | 4 | 456      | 246 | 152 | 173 | 30    |  | 519        | 246 | 152 | 173 | 36    |  |
| CNHM4 - 611□ - (B) - Ratio        | 3.0   | 4 | 491      | 266 | 168 | 212 | 40    |  | 563        | 266 | 168 | 212 | 50    |  |
| CNHM5 - 611□ - (B) - Ratio        | 3.7   | 4 | 491      | 266 | 168 | 212 | 40    |  | 563        | 266 | 168 | 212 | 50    |  |
| CNHM05 - 612□ - (B) - Ratio       | 0.4   | 4 | 387      | 257 | 130 | 124 | 30    |  | 419        | 257 | 130 | 124 | 32    |  |
| CNHM08 - 612□ - (B) - Ratio       | 0.55  | 4 | 423      | 233 | 140 | 148 | 32    |  | 466        | 233 | 140 | 148 | 35    |  |
| CNHM1 - 612□ - (B) - Ratio        | 0.75  | 4 | 423      | 233 | 140 | 148 | 32    |  | 466        | 233 | 140 | 148 | 35    |  |
| CNHM1H - 612□ - (B) - Ratio       | 1.1   | 4 | 456      | 240 | 145 | 160 | 36    |  | 518        | 240 | 145 | 160 | 41    |  |
| CNHM2 - 612□ - (B) - Ratio        | 1.5   | 4 | 456      | 240 | 145 | 160 | 36    |  | 518        | 240 | 145 | 160 | 41    |  |
| CNHM3 - 612□ - (B) - Ratio        | 2.2   | 4 | 476      | 246 | 152 | 173 | 40    |  | 539        | 246 | 152 | 173 | 47    |  |
| CNHM4 - 612□ - (B) - Ratio        | 3.0   | 4 | 499      | 266 | 168 | 212 | 50    |  | 571        | 266 | 168 | 212 | 60    |  |
| CNHM5 - 612□ - (B) - Ratio        | 3.7   | 4 | 499      | 266 | 168 | 212 | 50    |  | 571        | 266 | 168 | 212 | 60    |  |
| CNHM8 - 612□ - (B) - Ratio        | 5.5   | 4 | 543      | 266 | 168 | 212 | 57    |  | 615        | 266 | 168 | 212 | 67    |  |

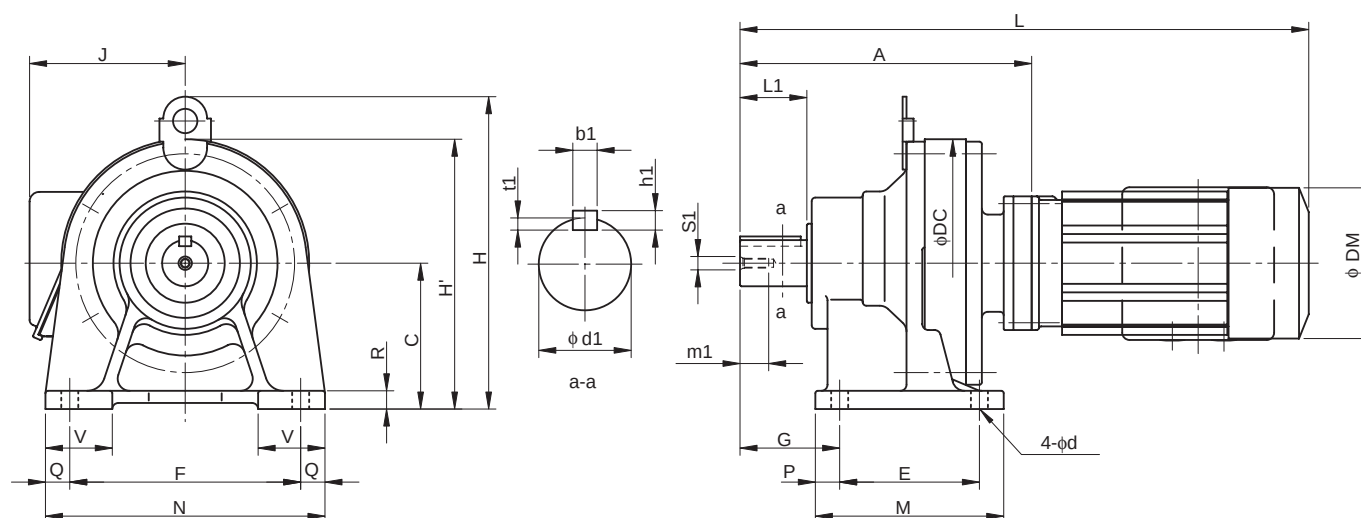
Note: 4. □ indicates 0 or 5, expressing combination with reduction ratio. Refer to the Selection Table for details.

5. "B" after the frame size indicates models equipped with brake.

6. Dimension of shaft end: Refer to pages F-28 to F-29 for details.

7. Dimensions in above drawings are subject to change without notice.

## Dimension Tables Gearmotors (Universal Direction, Foot-Mount)

CNHM<sup>Note 1</sup> - 606□DA to 612□DB

| Frame size<br>Note 4 | A   | C   | DC  | E   | F   | G  | M   | N   | P  | Q  | R  | V  | d  | Output Shaft<br>Note 2, 3, 6 |    |    |    |     |    |    |
|----------------------|-----|-----|-----|-----|-----|----|-----|-----|----|----|----|----|----|------------------------------|----|----|----|-----|----|----|
|                      |     |     |     |     |     |    |     |     |    |    |    |    |    | d1                           | L1 | b1 | h1 | t1  | S1 | m1 |
| 606□DA               | 125 | 80  | 110 | 60  | 120 | 41 | 84  | 144 | 12 | 12 | 10 | 35 | 9  | 14                           | 25 | 5  | 5  | 3   | M5 | 16 |
| 607□DA               | 131 | 80  | 110 | 60  | 120 | 47 | 84  | 144 | 12 | 12 | 10 | 35 | 9  | 18                           | 30 | 6  | 6  | 3.5 | M6 | 16 |
| 609□DA               | 190 | 100 | 150 | 90  | 150 | 60 | 135 | 180 | 15 | 15 | 12 | 40 | 11 | 28                           | 35 | 8  | 7  | 4   | M8 | 20 |
| 610□DA               | 204 | 100 | 150 | 90  | 150 | 60 | 135 | 180 | 15 | 15 | 12 | 40 | 11 | 28                           | 35 | 8  | 7  | 4   | M8 | 20 |
| 612□DA               | 240 | 120 | 204 | 115 | 190 | 82 | 155 | 230 | 20 | 20 | 15 | 55 | 14 | 38                           | 55 | 10 | 8  | 5   | M8 | 20 |
| 612□DB               | 252 | 120 | 204 | 115 | 190 | 82 | 155 | 230 | 20 | 20 | 15 | 55 | 14 | 38                           | 55 | 10 | 8  | 5   | M8 | 20 |

| Model<br>Note 4, 5            | Motor |   | Standard |     |     |     |     |       |  | With Brake |     |     |     |     |       |  |
|-------------------------------|-------|---|----------|-----|-----|-----|-----|-------|--|------------|-----|-----|-----|-----|-------|--|
|                               | kW    | P | L        | H   | H'  | J   | DM  | W(kg) |  | L          | H   | H'  | J   | DM  | W(kg) |  |
| CNHM01 - 606□DA - (B) - Ratio | 0.1   | 4 | 287      | -   | 140 | 130 | 119 | 9     |  | 294        | -   | 138 | 130 | 124 | 10    |  |
| CNHM01 - 607□DA - (B) - Ratio | 0.1   | 4 | 293      | -   | 140 | 130 | 119 | 9     |  | 300        | -   | 138 | 130 | 124 | 10    |  |
| CNHM02 - 607□DA - (B) - Ratio | 0.2   | 4 | 311      | -   | 140 | 130 | 124 | 10    |  | 339        | -   | 138 | 130 | 124 | 11    |  |
| CNHM01 - 609□DA - (B) - Ratio | 0.1   | 4 | 352      | 207 | -   | 130 | 119 | 17    |  | 359        | 207 | -   | 130 | 124 | 18    |  |
| CNHM02 - 609□DA - (B) - Ratio | 0.2   | 4 | 370      | 207 | -   | 130 | 124 | 18    |  | 398        | 207 | -   | 130 | 124 | 19    |  |
| CNHM03 - 609□DA - (B) - Ratio | 0.25  | 4 | 370      | 207 | -   | 130 | 124 | 18    |  | 398        | 207 | -   | 130 | 124 | 19    |  |
| CNHM05 - 609□DA - (B) - Ratio | 0.4   | 4 | 386      | 207 | -   | 130 | 124 | 19    |  | 418        | 207 | -   | 130 | 124 | 20    |  |
| CNHM01 - 610□DA - (B) - Ratio | 0.1   | 4 | 366      | 207 | -   | 130 | 119 | 19    |  | 373        | 207 | -   | 130 | 124 | 20    |  |
| CNHM02 - 610□DA - (B) - Ratio | 0.2   | 4 | 384      | 207 | -   | 130 | 124 | 20    |  | 412        | 207 | -   | 130 | 124 | 21    |  |
| CNHM03 - 610□DA - (B) - Ratio | 0.25  | 4 | 384      | 207 | -   | 130 | 124 | 20    |  | 412        | 207 | -   | 130 | 124 | 21    |  |
| CNHM05 - 610□DA - (B) - Ratio | 0.4   | 4 | 400      | 207 | -   | 130 | 124 | 21    |  | 432        | 207 | -   | 130 | 124 | 22    |  |
| CNHM01 - 612□DA - (B) - Ratio | 0.1   | 4 | 402      | 257 | -   | 130 | 119 | 30    |  | 409        | 257 | -   | 130 | 124 | 31    |  |
| CNHM02 - 612□DA - (B) - Ratio | 0.2   | 4 | 420      | 257 | -   | 130 | 124 | 31    |  | 448        | 257 | -   | 130 | 124 | 32    |  |
| CNHM03 - 612□DA - (B) - Ratio | 0.25  | 4 | 420      | 257 | -   | 130 | 124 | 31    |  | 448        | 257 | -   | 130 | 124 | 32    |  |
| CNHM05 - 612□DA - (B) - Ratio | 0.4   | 4 | 436      | 257 | -   | 130 | 124 | 32    |  | 468        | 257 | -   | 130 | 124 | 33    |  |
| CNHM01 - 612□DB - (B) - Ratio | 0.1   | 4 | 414      | 257 | -   | 130 | 119 | 33    |  | 421        | 257 | -   | 130 | 124 | 35    |  |
| CNHM02 - 612□DB - (B) - Ratio | 0.2   | 4 | 432      | 257 | -   | 130 | 124 | 34    |  | 473        | 257 | -   | 130 | 124 | 36    |  |
| CNHM03 - 612□DB - (B) - Ratio | 0.25  | 4 | 432      | 257 | -   | 130 | 124 | 34    |  | 473        | 257 | -   | 130 | 124 | 36    |  |
| CNHM05 - 612□DB - (B) - Ratio | 0.4   | 4 | 448      | 257 | -   | 130 | 124 | 35    |  | 473        | 257 | -   | 130 | 124 | 37    |  |
| CNHM08 - 612□DB - (B) - Ratio | 0.55  | 4 | 489      | 257 | -   | 140 | 148 | 39    |  | 532        | 257 | -   | 140 | 148 | 42    |  |
| CNHM1 - 612□DB - (B) - Ratio  | 0.75  | 4 | 489      | 257 | -   | 140 | 148 | 39    |  | 532        | 257 | -   | 140 | 148 | 42    |  |
| CNHM1H - 612□DB - (B) - Ratio | 1.1   | 4 | 516      | 257 | -   | 145 | 160 | 42    |  | 578        | 257 | -   | 145 | 160 | 47    |  |
| CNHM2 - 612□DB - (B) - Ratio  | 1.5   | 4 | 516      | 257 | -   | 145 | 160 | 42    |  | 578        | 257 | -   | 145 | 160 | 47    |  |

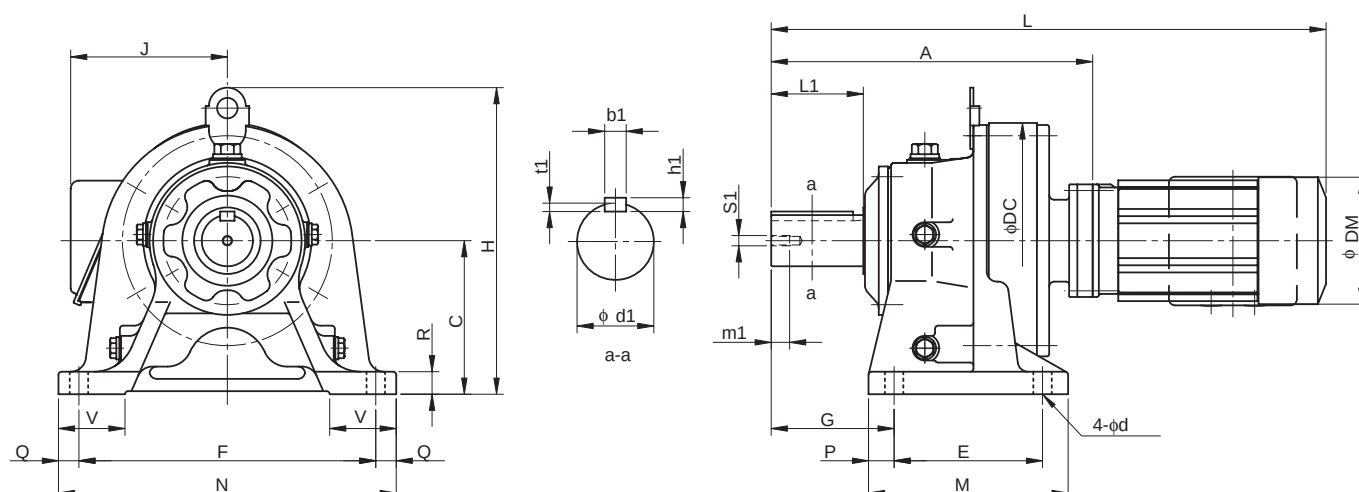
Note: 1. □ indicates motor capacity.

2. Dimension of shaft end diameter: Dimension tolerance conforms to JIS B 0401-1976 "h6."

3. Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."

# Dimension Tables Gearmotors (Horizontal Direction, Foot-Mount)

## CHHM<sup>Note 1</sup> - 613□DA to 614□DC



GEARMOTORS

Dimension Tables  
CHHM

| Frame size<br><small>Note 4</small> | A   | C   | DC  | E   | F   | G   | M   | N   | P  | Q  | R  | V  | d  | Output Shaft <small>Note 2, 3, 6</small> |    |    |    |     |     |    |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|------------------------------------------|----|----|----|-----|-----|----|
|                                     |     |     |     |     |     |     |     |     |    |    |    |    |    | d1                                       | L1 | b1 | h1 | t1  | S1  | m1 |
| 613□DA                              | 294 | 150 | 230 | 145 | 290 | 100 | 195 | 330 | 25 | 20 | 22 | 65 | 18 | 50                                       | 70 | 14 | 9  | 5.5 | M10 | 18 |
| 613□DB                              | 303 | 150 | 230 | 145 | 290 | 100 | 195 | 330 | 25 | 20 | 22 | 65 | 18 | 50                                       | 70 | 14 | 9  | 5.5 | M10 | 18 |
| 613□DC                              | 317 | 150 | 230 | 145 | 290 | 100 | 195 | 330 | 25 | 20 | 22 | 65 | 18 | 50                                       | 70 | 14 | 9  | 5.5 | M10 | 18 |
| 614□DA                              | 314 | 150 | 230 | 145 | 290 | 120 | 195 | 330 | 25 | 20 | 22 | 65 | 18 | 50                                       | 90 | 14 | 9  | 5.5 | M10 | 18 |
| 614□DB                              | 323 | 150 | 230 | 145 | 290 | 120 | 195 | 330 | 25 | 20 | 22 | 65 | 18 | 50                                       | 90 | 14 | 9  | 5.5 | M10 | 18 |
| 614□DC                              | 337 | 150 | 230 | 145 | 290 | 120 | 195 | 330 | 25 | 20 | 22 | 65 | 18 | 50                                       | 90 | 14 | 9  | 5.5 | M10 | 18 |

| Model<br><small>Note 4, 5</small> | Motor |   | Standard |     |     |     |       |  | With Brake |     |     |     |       |
|-----------------------------------|-------|---|----------|-----|-----|-----|-------|--|------------|-----|-----|-----|-------|
|                                   | kW    | P | L        | H   | J   | DM  | W(kg) |  | L          | H   | J   | DM  | W(kg) |
| CHHM02 - 613□DA - (B) - Ratio     | 0.2   | 4 | 474      | 300 | 130 | 124 | 47    |  | 502        | 300 | 130 | 124 | 47    |
| CHHM03 - 613□DA - (B) - Ratio     | 0.25  | 4 | 474      | 300 | 130 | 124 | 48    |  | 522        | 300 | 130 | 124 | 49    |
| CHHM05 - 613□DA - (B) - Ratio     | 0.4   | 4 | 490      | 300 | 130 | 124 | 48    |  | 522        | 300 | 130 | 124 | 49    |
| CHHM02 - 613□DB - (B) - Ratio     | 0.2   | 4 | 483      | 300 | 130 | 124 | 49    |  | 511        | 300 | 130 | 124 | 51    |
| CHHM03 - 613□DB - (B) - Ratio     | 0.25  | 4 | 483      | 300 | 130 | 124 | 49    |  | 511        | 300 | 130 | 124 | 51    |
| CHHM05 - 613□DB - (B) - Ratio     | 0.4   | 4 | 499      | 300 | 130 | 124 | 50    |  | 531        | 300 | 130 | 124 | 52    |
| CHHM08 - 613□DB - (B) - Ratio     | 0.55  | 4 | 540      | 263 | 140 | 148 | 54    |  | 583        | 263 | 140 | 148 | 57    |
| CHHM1 - 613□DB - (B) - Ratio      | 0.75  | 4 | 540      | 263 | 140 | 148 | 54    |  | 583        | 263 | 140 | 148 | 57    |
| CHHM1H - 613□DB - (B) - Ratio     | 1.1   | 4 | 573      | 270 | 145 | 160 | 57    |  | 635        | 270 | 145 | 160 | 62    |
| CHHM2 - 613□DB - (B) - Ratio      | 1.5   | 4 | 573      | 270 | 145 | 160 | 57    |  | 635        | 270 | 145 | 160 | 62    |
| CHHM08 - 613□DC - (B) - Ratio     | 0.55  | 4 | 554      | 265 | 140 | 148 | 56    |  | 597        | 265 | 140 | 148 | 59    |
| CHHM1 - 613□DC - (B) - Ratio      | 0.75  | 4 | 554      | 265 | 140 | 148 | 56    |  | 597        | 265 | 140 | 148 | 59    |
| CHHM2 - 613□DC - (B) - Ratio      | 1.5   | 4 | 587      | 272 | 145 | 160 | 59    |  | 649        | 272 | 145 | 160 | 64    |
| CHHM3 - 613□DC - (B) - Ratio      | 2.2   | 4 | 607      | 276 | 152 | 173 | 64    |  | 670        | 276 | 152 | 173 | 70    |
| CHHM02 - 614□DA - (B) - Ratio     | 0.2   | 4 | 494      | 300 | 130 | 124 | 47    |  | 522        | 300 | 130 | 124 | 48    |
| CHHM03 - 614□DA - (B) - Ratio     | 0.25  | 4 | 494      | 300 | 130 | 124 | 47    |  | 522        | 300 | 130 | 124 | 48    |
| CHHM05 - 614□DA - (B) - Ratio     | 0.4   | 4 | 510      | 300 | 130 | 124 | 48    |  | 542        | 300 | 130 | 124 | 49    |
| CHHM02 - 614□DB - (B) - Ratio     | 0.2   | 4 | 503      | 300 | 130 | 124 | 49    |  | 531        | 300 | 130 | 124 | 51    |
| CHHM03 - 614□DB - (B) - Ratio     | 0.25  | 4 | 503      | 300 | 130 | 124 | 49    |  | 531        | 300 | 130 | 124 | 51    |
| CHHM05 - 614□DB - (B) - Ratio     | 0.4   | 4 | 519      | 300 | 130 | 124 | 50    |  | 551        | 300 | 130 | 124 | 52    |
| CHHM08 - 614□DB - (B) - Ratio     | 0.55  | 4 | 560      | 263 | 140 | 148 | 54    |  | 603        | 263 | 140 | 148 | 57    |
| CHHM1 - 614□DB - (B) - Ratio      | 0.75  | 4 | 560      | 263 | 140 | 148 | 54    |  | 603        | 263 | 140 | 148 | 57    |
| CHHM1H - 614□DB - (B) - Ratio     | 1.1   | 4 | 593      | 270 | 145 | 160 | 57    |  | 655        | 270 | 145 | 160 | 62    |
| CHHM2 - 614□DB - (B) - Ratio      | 1.5   | 4 | 593      | 270 | 145 | 160 | 57    |  | 655        | 270 | 145 | 160 | 62    |
| CHHM08 - 614□DC - (B) - Ratio     | 0.55  | 4 | 574      | 265 | 140 | 148 | 56    |  | 617        | 265 | 140 | 148 | 59    |
| CHHM1 - 614□DC - (B) - Ratio      | 0.75  | 4 | 574      | 265 | 140 | 148 | 56    |  | 617        | 265 | 140 | 148 | 59    |
| CHHM1H - 614□DC - (B) - Ratio     | 1.1   | 4 | 607      | 270 | 145 | 160 | 60    |  | 669        | 270 | 145 | 160 | 65    |
| CHHM2 - 614□DC - (B) - Ratio      | 1.5   | 4 | 607      | 270 | 145 | 160 | 60    |  | 669        | 270 | 145 | 160 | 65    |
| CHHM3 - 614□DC - (B) - Ratio      | 2.2   | 4 | 627      | 276 | 152 | 173 | 64    |  | 690        | 276 | 152 | 173 | 70    |

Note: 4. □ indicates 0 or 5, expressing combination with reduction ratio. Refer to the Selection Table for details.

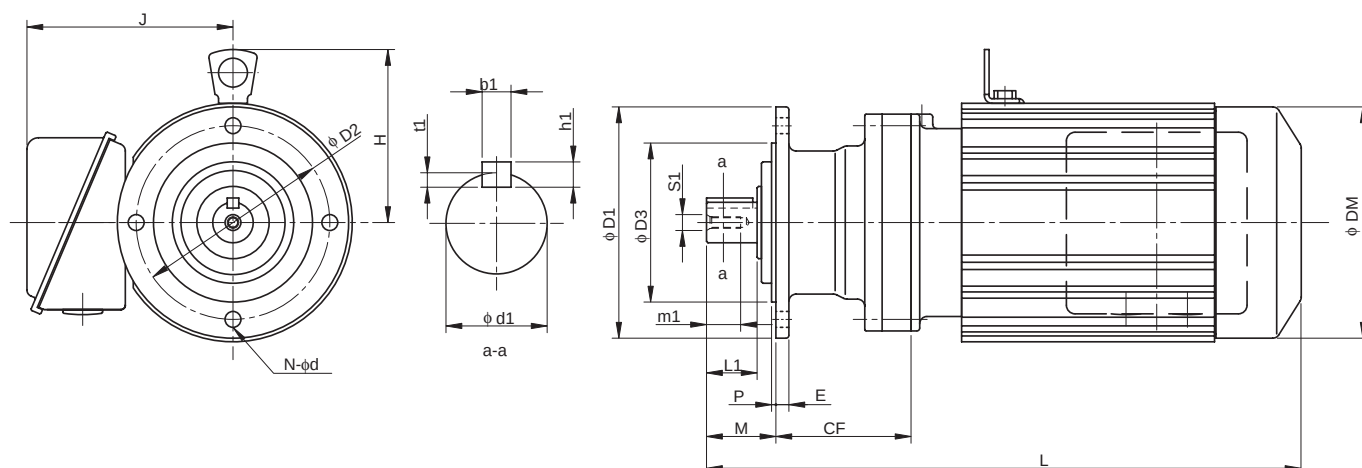
5. "B" after the frame size indicates models equipped with brake.

6. Dimension of shaft end: Refer to pages F-28 to F-29 for details.

7. Dimensions in above drawings are subject to change without notice.

# Dimension Tables Gearmotors (Universal Direction, V-Flange Mount)

CNVM<sup>Note 1</sup> - 606□ to 609□



GEARMOTORS

 Dimension Tables  
CNVM

| Frame size<br><small>Note 5</small> | CF | D1  | D2  | D3  | M  | E | P | N | d  | H   | Output Shaft<br><small>Note 2, 3, 7</small> |    |    |    |     |    |    |
|-------------------------------------|----|-----|-----|-----|----|---|---|---|----|-----|---------------------------------------------|----|----|----|-----|----|----|
|                                     |    |     |     |     |    |   |   |   |    |     | d1                                          | L1 | b1 | h1 | t1  | S1 | m1 |
| 606□                                | 58 | 120 | 102 | 80  | 34 | 8 | 3 | 6 | 9  | -   | 14                                          | 25 | 5  | 5  | 3   | M5 | 16 |
| 607□                                | 56 | 160 | 134 | 110 | 42 | 9 | 3 | 4 | 11 | -   | 18                                          | 30 | 6  | 6  | 3.5 | M6 | 16 |
| 608□                                | 81 | 160 | 134 | 110 | 48 | 9 | 3 | 4 | 11 | -   | 22                                          | 35 | 6  | 6  | 3.5 | M6 | 16 |
| 609□                                | 94 | 160 | 134 | 110 | 48 | 9 | 3 | 4 | 11 | 107 | 28                                          | 35 | 8  | 7  | 4   | M8 | 20 |

| Model<br><small>Note 5, 6</small> | Motor |   | Standard |     |     |       | With Brake |     |     |       |
|-----------------------------------|-------|---|----------|-----|-----|-------|------------|-----|-----|-------|
|                                   | kW    | P | L        | J   | DM  | W(kg) | L          | J   | DM  | W(kg) |
| CNVM01 - 606□ - (B) - Ratio       | 0.1   | 4 | 254      | 130 | 119 | 7     | 261        | 130 | 124 | 9     |
| CNVM02 - 606□ - (B) - Ratio       | 0.2   | 4 | 272      | 130 | 124 | 8     | 300        | 130 | 124 | 10    |
| CNVM03 - 606□ - (B) - Ratio       | 0.25  | 4 | 272      | 130 | 124 | 9     | 300        | 130 | 124 | 10    |
| CNVM01 - 607□ - (B) - Ratio       | 0.1   | 4 | 260      | 130 | 119 | 9     | 267        | 130 | 124 | 10    |
| CNVM02 - 607□ - (B) - Ratio       | 0.2   | 4 | 278      | 130 | 124 | 10    | 306        | 130 | 124 | 11    |
| CNVM03 - 607□ - (B) - Ratio       | 0.25  | 4 | 278      | 130 | 124 | 10    | 306        | 130 | 124 | 11    |
| CNVM05 - 607□ - (B) - Ratio       | 0.4   | 4 | 294      | 130 | 124 | 11    | 326        | 130 | 124 | 12    |
| CNVM01 - 608□ - (B) - Ratio       | 0.1   | 4 | 286      | 130 | 119 | 12    | 293        | 130 | 124 | 13    |
| CNVM02 - 608□ - (B) - Ratio       | 0.2   | 4 | 304      | 130 | 124 | 13    | 332        | 130 | 124 | 14    |
| CNVM03 - 608□ - (B) - Ratio       | 0.25  | 4 | 304      | 130 | 124 | 13    | 332        | 130 | 124 | 14    |
| CNVM05 - 608□ - (B) - Ratio       | 0.4   | 4 | 320      | 130 | 124 | 15    | 352        | 130 | 124 | 16    |
| CNVM08 - 608□ - (B) - Ratio       | 0.55  | 4 | 361      | 140 | 148 | 19    | 404        | 140 | 148 | 20    |
| CNVM1 - 608□ - (B) - Ratio        | 0.75  | 4 | 361      | 140 | 148 | 19    | 404        | 140 | 148 | 20    |
| CNVM01 - 609□ - (B) - Ratio       | 0.1   | 4 | 304      | 130 | 119 | 13    | 311        | 130 | 124 | 15    |
| CNVM02 - 609□ - (B) - Ratio       | 0.2   | 4 | 322      | 130 | 124 | 14    | 350        | 130 | 124 | 16    |
| CNVM03 - 609□ - (B) - Ratio       | 0.25  | 4 | 322      | 130 | 124 | 14    | 350        | 130 | 124 | 16    |
| CNVM05 - 609□ - (B) - Ratio       | 0.4   | 4 | 338      | 130 | 124 | 15    | 370        | 130 | 124 | 17    |
| CNVM08 - 609□ - (B) - Ratio       | 0.55  | 4 | 379      | 140 | 148 | 19    | 422        | 140 | 148 | 22    |
| CNVM1 - 609□ - (B) - Ratio        | 0.75  | 4 | 379      | 140 | 148 | 19    | 422        | 140 | 148 | 22    |
| CNVM1H - 609□ - (B) - Ratio       | 1.1   | 4 | 412      | 145 | 160 | 22    | 474        | 145 | 160 | 27    |
| CNVM2 - 609□ - (B) - Ratio        | 1.5   | 4 | 412      | 145 | 160 | 22    | 474        | 145 | 160 | 27    |

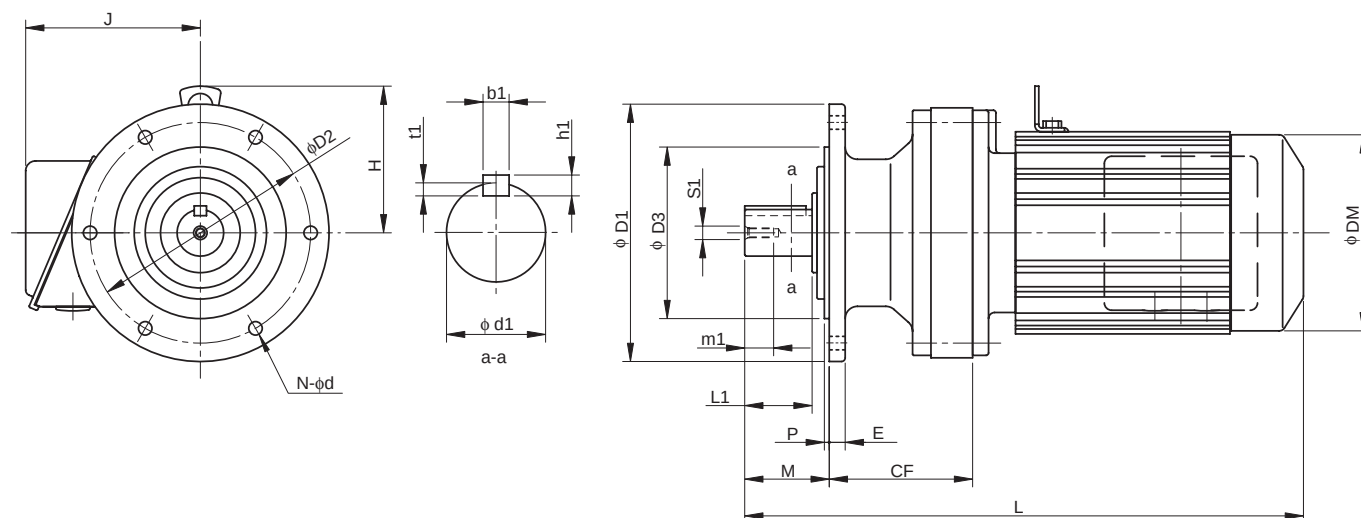
Note: 5. □ indicates 0 or 5, expressing combination with reduction ratio. Refer to the Selection Table for details.

6. "B" after the frame size indicates models equipped with brake.

7. Dimension of shaft end: Refer to pages F-28 to F-29 for details.

8. Dimensions in above drawings are subject to change without notice.

## Dimension Tables Gearmotors (Universal Direction, V-Flange Mount)

CNVM<sup>Note 1</sup> - 610□ to 612□

| Frame size<br>Note 5 | CF  | D1  | D2  | D3  | M  | E  | P | N | d  | H   | Output Shaft<br>Note 2, 3, 7 |    |    |    |    |    |    |
|----------------------|-----|-----|-----|-----|----|----|---|---|----|-----|------------------------------|----|----|----|----|----|----|
|                      |     |     |     |     |    |    |   |   |    |     | d1                           | L1 | b1 | h1 | t1 | S1 | m1 |
| 610□                 | 108 | 160 | 134 | 110 | 48 | 9  | 3 | 4 | 11 | 107 | 28                           | 35 | 8  | 7  | 4  | M8 | 20 |
| 611□                 | 112 | 210 | 180 | 140 | 58 | 11 | 4 | 6 | 11 | 116 | 32                           | 45 | 10 | 8  | 5  | M8 | 20 |
| 612□                 | 117 | 210 | 180 | 140 | 69 | 13 | 4 | 6 | 11 | 137 | 38                           | 55 | 10 | 8  | 5  | M8 | 20 |

| Model<br>Note 5, 6          | Motor |   | Standard |     |     |       |  | With Brake |     |     |       |
|-----------------------------|-------|---|----------|-----|-----|-------|--|------------|-----|-----|-------|
|                             | kW    | P | L        | J   | DM  | W(kg) |  | L          | J   | DM  | W(kg) |
| CNVM02 - 610□ - (B) - Ratio | 0.2   | 4 | 336      | 130 | 124 | 16    |  | 364        | 130 | 124 | 18    |
| CNVM03 - 610□ - (B) - Ratio | 0.25  | 4 | 336      | 130 | 124 | 16    |  | 364        | 130 | 124 | 18    |
| CNVM05 - 610□ - (B) - Ratio | 0.4   | 4 | 352      | 130 | 124 | 17    |  | 384        | 130 | 124 | 19    |
| CNVM08 - 610□ - (B) - Ratio | 0.55  | 4 | 393      | 140 | 148 | 21    |  | 436        | 140 | 148 | 24    |
| CNVM1 - 610□ - (B) - Ratio  | 0.75  | 4 | 393      | 140 | 148 | 21    |  | 436        | 140 | 148 | 24    |
| CNVM1H - 610□ - (B) - Ratio | 1.1   | 4 | 426      | 145 | 160 | 25    |  | 488        | 145 | 160 | 30    |
| CNVM2 - 610□ - (B) - Ratio  | 1.5   | 4 | 426      | 145 | 160 | 25    |  | 488        | 145 | 160 | 30    |
| CNVM3 - 610□ - (B) - Ratio  | 2.2   | 4 | 446      | 152 | 173 | 29    |  | 509        | 152 | 173 | 35    |
| CNVM05 - 611□ - (B) - Ratio | 0.4   | 4 | 363      | 130 | 124 | 19    |  | 394        | 130 | 124 | 21    |
| CNVM08 - 611□ - (B) - Ratio | 0.55  | 4 | 403      | 140 | 148 | 22    |  | 452        | 140 | 148 | 25    |
| CNVM1 - 611□ - (B) - Ratio  | 0.75  | 4 | 403      | 140 | 148 | 22    |  | 452        | 140 | 148 | 25    |
| CNVM1H - 611□ - (B) - Ratio | 1.1   | 4 | 436      | 145 | 160 | 25    |  | 493        | 145 | 160 | 30    |
| CNVM2 - 611□ - (B) - Ratio  | 1.5   | 4 | 436      | 145 | 160 | 25    |  | 493        | 145 | 160 | 30    |
| CNVM3 - 611□ - (B) - Ratio  | 2.2   | 4 | 456      | 152 | 173 | 29    |  | 519        | 152 | 173 | 35    |
| CNVM4 - 611□ - (B) - Ratio  | 3.0   | 4 | 491      | 168 | 212 | 39    |  | 563        | 168 | 212 | 49    |
| CNVM5 - 611□ - (B) - Ratio  | 3.7   | 4 | 491      | 168 | 212 | 39    |  | 563        | 168 | 212 | 49    |
| CNVM05 - 612□ - (B) - Ratio | 0.4   | 4 | 387      | 130 | 124 | 30    |  | 419        | 130 | 124 | 31    |
| CNVM08 - 612□ - (B) - Ratio | 0.55  | 4 | 423      | 140 | 148 | 31    |  | 466        | 140 | 148 | 34    |
| CNVM1 - 612□ - (B) - Ratio  | 0.75  | 4 | 423      | 140 | 148 | 31    |  | 466        | 140 | 148 | 34    |
| CNVM1H - 612□ - (B) - Ratio | 1.1   | 4 | 456      | 145 | 160 | 35    |  | 518        | 145 | 160 | 40    |
| CNVM2 - 612□ - (B) - Ratio  | 1.5   | 4 | 456      | 145 | 160 | 35    |  | 518        | 145 | 160 | 40    |
| CNVM3 - 612□ - (B) - Ratio  | 2.2   | 4 | 476      | 152 | 173 | 39    |  | 539        | 152 | 173 | 46    |
| CNVM4 - 612□ - (B) - Ratio  | 3.0   | 4 | 499      | 168 | 212 | 49    |  | 571        | 168 | 212 | 59    |
| CNVM5 - 612□ - (B) - Ratio  | 3.7   | 4 | 499      | 168 | 212 | 49    |  | 571        | 168 | 212 | 59    |
| CNVM8 - 612□ - (B) - Ratio  | 5.5   | 4 | 543      | 168 | 212 | 56    |  | 615        | 168 | 212 | 66    |

Note: 1. □ indicates motor capacity.

2. Dimension of shaft end diameter: Dimension tolerance conforms to JIS B 0401-1976 "h6."

3. Dimension of shaft end key: Dimension tolerance conforms to JIS B 1301-1996 "Parallel Key."

4. Pilot diameter ( $\phi D3$ ): Dimension tolerance conforms to JIS B 0401-1976 "f8."