

CB Gear Motor Specification Chart

Specification Chart

| Model number | Motor output kW | Frame number | Nominal reduction ratio | Number of reduction steps | Output shaft revolution speed r/min | | Allowable output shaft torque | | | | Allowable output shaft O.H.L. | | Page and drawing number of outline dimensions | | | |
|------------------------|-----------------|--------------|-------------------------|---------------------------|-------------------------------------|-------|-------------------------------|--------|------------|--------------|-------------------------------|-------------------|---|-------------------|-------------------|-------------------|
| | | | | | 50Hz | 60Hz | N·m | | kgf·m | | N | kgf | Three-phase | | Single-phase | |
| | | | | | | | 50Hz | 60Hz | Foot mount | Flange mount | | | Foot mount | Flange mount | | |
| GMTA010 GMTA100 | 0.1 | 18 | 1/5 | 2 | 300 | 360 | 2.8 | {0.29} | 2.4 | {0.24} | 274 | {28} | P108 Drawing C11 | P108 Drawing C15 | P115 Drawing C55 | P115 Drawing C59 |
| | | | 1/10 | | 150 | 180 | 5.7 | {0.58} | 4.8 | {0.49} | 431 | {44} | P108 Drawing C-12 | P108 Drawing C-16 | P115 Drawing C-56 | P115 Drawing C-60 |
| | | | 1/15 | | 100 | 120 | 8.6 | {0.88} | 7.2 | {0.73} | 568 | {58} | | | | |
| | | | 1/20 | | 75 | 90 | 11.8 | {1.2} | 9.5 | {0.97} | 686 | {70} | | | | |
| | | | 1/25 | | 60 | 72 | 14.7 | {1.5} | 11.8 | {1.2} | 804 | {82} | | | | |
| | | | 1/30 | | 50 | 60 | 17.6 | {1.8} | 14.7 | {1.5} | 902 | {92} | | | | |
| | 0.1 | 24 | 1/40 | 3 | 37.5 | 45 | 22.5 | {2.3} | 19.6 | {2.0} | 1098 | {112} | P108 Drawing C-13 | P108 Drawing C-17 | P115 Drawing C-57 | P115 Drawing C-61 |
| | | | 1/50 | | 30 | 36 | 28.4 | {2.9} | 23.5 | {2.4} | 1264 | {129} | | | | |
| | | | 1/60 | | 25 | 30 | 34.3 | {3.5} | 28.4 | {2.9} | 1431 | {146} | | | | |
| | | | 1/75 | | 20 | 24 | 43.1 | {4.4} | 36.3 | {3.7} | 1666 | {170} | | | | |
| | | | 1/100 | | 15 | 18 | 56.8 | {5.8} | 48.0 | {4.9} | 2009 | {205} | | | | |
| | | | 1/120 | | 12.5 | 15 | 68.6 | {7.0} | 56.8 | {5.8} | 2274 | {232} | | | | |
| 0.1 | 28 | 1/165 | 3 | 9.1 | 10.9 | 94.1 | {9.6} | 78.4 | {8.0} | 2813 | {287} | P108 Drawing C-14 | P108 Drawing C-18 | P115 Drawing C-58 | P115 Drawing C-62 | |
| | | 1/200 | | 7.5 | 9 | 115 | {11.7} | 95.1 | {9.7} | 3195 | {326} | | | | | |
| | | 5CB | | 300 | 360 | 5.7 | {0.58} | 4.7 | {0.48} | 431 | {44} | P109 Drawing C19 | P109 Drawing C23 | P116 Drawing C63 | P116 Drawing C67 | |
| | | 10CB | | 150 | 180 | 11.8 | {1.2} | 9.5 | {0.97} | 686 | {70} | P109 Drawing C-20 | P109 Drawing C-24 | P116 Drawing C-64 | P116 Drawing C-68 | |
| | | 15CB | | 100 | 120 | 17.6 | {1.8} | 14.7 | {1.5} | 902 | {92} | | | | | |
| | | 20CB | | 75 | 90 | 22.5 | {2.3} | 19.6 | {2.0} | 1098 | {112} | | | | | |
| 25CB | 60 | 72 | 28.4 | {2.9} | 23.5 | {2.4} | 1264 | {129} | | | | | | | | |
| 30CB | 50 | 60 | 34.3 | {3.5} | 28.4 | {2.9} | 1431 | {146} | | | | | | | | |
| GMTA200 | 0.2 | 24 | 1/40 | 3 | 37.5 | 45 | 46.1 | {4.7} | 38.2 | {3.9} | 1735 | {177} | P109 Drawing C-21 | P109 Drawing C-25 | P116 Drawing C-65 | P116 Drawing C-69 |
| | | | 1/50 | | 30 | 36 | 56.8 | {5.8} | 48.0 | {4.9} | 2009 | {205} | | | | |
| | | | 1/60 | | 25 | 30 | 68.6 | {7.0} | 56.8 | {5.8} | 2274 | {232} | | | | |
| | | | 1/75 | | 20 | 24 | 86.2 | {8.8} | 71.5 | {7.3} | 2636 | {269} | | | | |
| | | | 1/100 | | 15 | 18 | 115 | {11.7} | 95.1 | {9.7} | 3195 | {326} | | | | |
| | | | 1/120 | | 12.5 | 15 | 137 | {14.0} | 115 | {11.7} | 3606 | {368} | | | | |
| | 0.2 | 28 | 1/165 | 3 | 9.1 | 10.9 | 189 | {19.3} | 158 | {16.1} | 4459 | {455} | P109 Drawing C-22 | P109 Drawing C-26 | P116 Drawing C-66 | P116 Drawing C-70 |
| | | | 1/200 | | 7.5 | 9 | 218 | {22.2} | 181 | {18.5} | 4822 | {492} | | | | |
| | | | 5CB | | 300 | 360 | 12.1 | {1.23} | 10.0 | {1.02} | 686 | {70} | P110 Drawing C-27 | P110 Drawing C-30 | | |
| | | | 10CB | | 150 | 180 | 24.5 | {2.5} | 20.6 | {2.1} | 1098 | {112} | | | | |
| | | | 15CB | | 100 | 120 | 36.3 | {3.7} | 30.4 | {3.1} | 1431 | {146} | | | | |
| | | | 20CB | | 75 | 90 | 48.0 | {4.9} | 40.2 | {4.1} | 1735 | {177} | | | | |
| 25CB | 60 | 72 | 60.8 | {6.2} | 50.0 | {5.1} | 2009 | {205} | | | | | | | | |
| GMTA040 | 0.4 | 24 | 1/25 | 2 | 60 | 72 | 60.8 | {6.2} | 50.0 | {5.1} | 2009 | {205} | P110 Drawing C-28 | P110 Drawing C-31 | | |
| | | | 1/30 | | 50 | 60 | 72.5 | {7.4} | 60.8 | {6.2} | 2274 | {232} | | | | |
| | | | 30CB | | 50 | 60 | 72.5 | {7.4} | 60.8 | {6.2} | 2274 | {232} | | | | |
| | | | 40CB | | 37.5 | 45 | 94.1 | {9.6} | 78.4 | {8.0} | 2754 | {281} | | | | |
| | | | 50CB | | 30 | 36 | 118 | {12.0} | 98.0 | {10.0} | 3195 | {326} | | | | |
| | | | 60CB | | 25 | 30 | 140 | {14.3} | 118 | {12.0} | 3606 | {368} | | | | |
| | 0.4 | 28 | 1/75 | 3 | 20 | 24 | 175 | {17.9} | 146 | {14.9} | 4185 | {427} | P110 Drawing C-29 | P110 Drawing C-32 | | |
| | | | 1/100 | | 15 | 18 | 234 | {23.9} | 195 | {19.9} | 5076 | {518} | | | | |
| | | | 100CB | | 15 | 18 | 234 | {23.9} | 195 | {19.9} | 5076 | {518} | | | | |
| | | | 120CB | | 12.5 | 15 | 281 | {28.7} | 234 | {23.9} | 5733 | {585} | | | | |
| | | | 165CB | | 9.1 | 10.9 | 364 | {37.1} | 303 | {30.9} | 6664 | {680} | | | | |
| | | | 200CB | | 7.5 | 9 | 389 | {39.7} | 324 | {33.1} | 6684 | {682} | | | | |

(Note 1) The nominal reduction ratio is shown as the reduction ratio.

(Note 2) The output shaft revolution speed is calculated by dividing the synchronous motor revolutions by the nominal reduction ratio.

For the actual reduction ratio, refer to the specification chart for the double-shaft-type reducer on pages 69 to 71.

For the 0.1 kW devices, because the 0.2 kW reducer is used, refer to the actual reduction ratio for 0.2 kW.

CB Gear Motor Specification Chart

GEAR MOTOR TA Series

Specification Chart

| Model number | Motor output kW | Frame number | Nominal reduction ratio | Number of reduction steps | Output shaft revolution speed r/min | | Allowable output shaft torque | | | | Allowable output shaft O.H.L. | | Page and drawing number of outline dimensions | |
|--------------|-----------------|--------------|-------------------------|---------------------------|-------------------------------------|------|-------------------------------|------------|---------|------------|-------------------------------|----------|---|-------------------------|
| | | | | | 50Hz | 60Hz | N·m | | {kgf·m} | | N | {kgf} | Foot mount | Flange mount |
| | | | | | | | 50Hz | 60Hz | 50Hz | 60Hz | | | | |
| GMTA075 | 0.75 | 28 | 1/5 | 2 | 300 | 360 | 22.6 | { 2.31 } | 18.8 | { 1.92 } | 1049 | { 107 } | P111 Drawing C-33 | P111 Drawing C-36 |
| | | | | | 150 | 180 | 45.1 | { 4.6 } | 38.2 | { 3.9 } | 1666 | { 170 } | | |
| | | | | | 100 | 120 | 67.6 | { 6.9 } | 56.8 | { 5.8 } | 2176 | { 222 } | | |
| | | | | | 75 | 90 | 91.1 | { 9.3 } | 75.5 | { 7.7 } | 2636 | { 269 } | | |
| | | | | | 60 | 72 | 114 | { 11.6 } | 94.1 | { 9.6 } | 3058 | { 312 } | | |
| | | | | | 50 | 60 | 136 | { 13.9 } | 114 | { 11.6 } | 3459 | { 353 } | | |
| | 0.75 | 38 | 3 | 1/40 | 37.5 | 45 | 175 | { 17.9 } | 146 | { 14.9 } | 4185 | { 427 } | P111 Drawing C-34 | P111 Drawing C-37 |
| | | | | | 30 | 36 | 220 | { 22.4 } | 183 | { 18.7 } | 4861 | { 496 } | | |
| | | | | | 25 | 30 | 264 | { 26.9 } | 220 | { 22.4 } | 5488 | { 560 } | | |
| | | | | | 20 | 24 | 300 | { 30.6 } | 250 | { 25.5 } | 5792 | { 591 } | | |
| | | | | | 15 | 18 | 439 | { 44.8 } | 369 | { 37.7 } | 7301 | { 745 } | | |
| | | | | | 12.5 | 15 | 527 | { 53.8 } | 439 | { 44.8 } | 8242 | { 841 } | | |
| | | | | | 9.1 | 10.9 | 724 | { 73.9 } | 604 | { 61.6 } | 9800 | { 1000 } | | |
| | | | | | 7.5 | 9 | 735 | { 75.0 } | 613 | { 62.5 } | 9800 | { 1000 } | | |
| GMTA150 | 1.5 | 42 | 1/5 | 2 | 300 | 360 | 45.3 | { 4.62 } | 37.7 | { 3.85 } | 1666 | { 170 } | P112 Drawing C-39 | P112 Drawing C-42 |
| | | | | | 150 | 180 | 91.1 | { 9.3 } | 75.5 | { 7.7 } | 2548 | { 260 } | | |
| | | | | | 100 | 120 | 136 | { 13.9 } | 114 | { 11.6 } | 3342 | { 341 } | | |
| | | | | | 75 | 90 | 181 | { 18.5 } | 151 | { 15.4 } | 4047 | { 413 } | | |
| | | | | | 60 | 72 | 226 | { 23.1 } | 189 | { 19.3 } | 4694 | { 479 } | | |
| | | | | | 50 | 60 | 272 | { 27.8 } | 226 | { 23.1 } | 5302 | { 541 } | | |
| | 1.5 | 50 | 3 | 1/40 | 37.5 | 45 | 351 | { 35.8 } | 293 | { 29.9 } | 6292 | { 642 } | P112 Drawing C-40 | P112 Drawing C-43 |
| | | | | | 30 | 36 | 439 | { 44.8 } | 366 | { 37.3 } | 7301 | { 745 } | | |
| | | | | | 25 | 30 | 527 | { 53.8 } | 439 | { 44.8 } | 8242 | { 841 } | | |
| | | | | | 20 | 24 | 659 | { 67.2 } | 549 | { 56.0 } | 9565 | { 976 } | | |
| | | | | | 15 | 18 | 878 | { 89.6 } | 732 | { 74.7 } | 11584 | { 1182 } | | |
| | | | | | 12.5 | 15 | 1054 | { 107.5 } | 878 | { 89.6 } | 13073 | { 1334 } | | |
| | | | | | 9.1 | 10.9 | 1449 | { 147.9 } | 1207 | { 123.2 } | 13230 | { 1350 } | | |
| | | | | | 7.5 | 9 | *1470 | *{ 150.0 } | *1225 | *{ 125.0 } | 13230 | { 1350 } | | |
| GMTA220 | 2.2 | 42 | 1/5 | 2 | 300 | 360 | 66.6 | { 6.8 } | 55.9 | { 5.7 } | 2078 | { 212 } | P113 Drawing C-45 | P113 Drawing C-48 |
| | | | | | 150 | 180 | 133 | { 13.6 } | 111 | { 11.3 } | 3293 | { 336 } | | |
| | | | | | 100 | 120 | 200 | { 20.4 } | 167 | { 17.0 } | 4312 | { 440 } | | |
| | | | | | 75 | 90 | 266 | { 27.1 } | 221 | { 22.6 } | 5223 | { 533 } | | |
| | | | | | 60 | 72 | 332 | { 33.9 } | 277 | { 28.3 } | 6066 | { 619 } | | |
| | | | | | 50 | 60 | 399 | { 40.7 } | 332 | { 33.9 } | 6850 | { 699 } | | |
| | 2.2 | 50 | 3 | 1/40 | 37.5 | 45 | 515 | { 52.6 } | 429 | { 43.8 } | 8114 | { 828 } | P113 Drawing C-46 | P113 Drawing C-49 |
| | | | | | 30 | 36 | 644 | { 65.7 } | 537 | { 54.8 } | 9418 | { 961 } | | |
| | | | | | 25 | 30 | 773 | { 78.9 } | 644 | { 65.7 } | 10633 | { 1085 } | | |
| | | | | | 20 | 24 | 966 | { 98.6 } | 805 | { 82.1 } | 12338 | { 1259 } | | |
| | | | | | 15 | 18 | 1288 | { 131.4 } | 1073 | { 109.5 } | 14955 | { 1526 } | | |
| | | | | | 12.5 | 15 | 1545 | { 157.7 } | 1288 | { 131.4 } | 16885 | { 1723 } | | |
| | | | | | 9.1 | 10.9 | 2126 | { 216.9 } | 1771 | { 180.7 } | 17640 | { 1800 } | | |
| | | | | | 7.5 | 9 | *2156 | *{ 220.0 } | *1796 | *{ 183.3 } | 17640 | { 1800 } | | |
| GMTA370 | 3.7 | 50 | 1/5 | 2 | 300 | 360 | 112 | { 11.4 } | 93.1 | { 9.5 } | 2930 | { 299 } | P114 Drawing C-51 | P114 Drawing C-53 |
| | | | | | 150 | 180 | 223 | { 22.8 } | 186 | { 19.0 } | 4645 | { 474 } | | |
| | | | | | 100 | 120 | 335 | { 34.2 } | 279 | { 28.5 } | 6096 | { 622 } | | |
| | | | | | 75 | 90 | 448 | { 45.7 } | 372 | { 38.0 } | 7389 | { 754 } | | |
| | | | | | 60 | 72 | 560 | { 57.1 } | 466 | { 47.6 } | 8565 | { 874 } | | |
| | | 50 | 3 | 1/40 | 50 | 60 | 671 | { 68.5 } | 560 | { 57.1 } | 9673 | { 987 } | P114 Drawing C-52 | P114 Drawing C-54 |
| | | | | | 37.5 | 45 | 866 | { 88.4 } | 722 | { 73.7 } | 10290 | { 1050 } | | |
| | | | | | 30 | 36 | 1083 | { 110.5 } | 903 | { 92.1 } | 10290 | { 1050 } | | |

(Note 1) The nominal reduction ratio is shown as the reduction ratio.

(Note 2) The output shaft revolution speed is calculated by dividing the synchronous motor revolutions by the nominal reduction ratio.

For the actual reduction ratio, refer to the specification chart for the double-shaft-type reducer on pages 69 to 71.

For the 1.5 kW devices, because the 2.2 kW reducer is used, refer to the actual reduction ratio for 2.2 kW.

(Note 3) The models marked with ※ are ones for which the torque is limited.

Specification Chart

0.75
1.5
2.2
3.7