

MS SERIES THREE-PHASE INDUCTION MOTOR WITH ALUMINIUM HOUSING

Three phase, MS series Aluminium housing motors are acknowledged that having a good fame for quality and reliability, they are suitable for driving machines which do not have special requirement, such as machine tools, pumps, blowers etc.

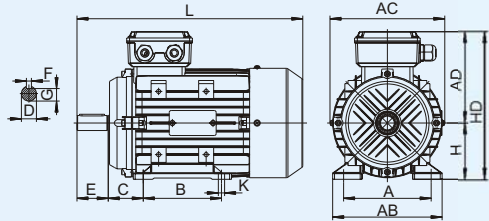
Operating Conditions

Ambient temperature: $-15^{\circ}\text{C} \leq \theta \leq 40^{\circ}\text{C}$

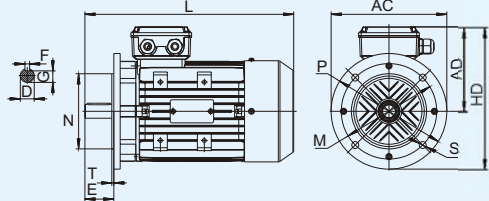
Above sea level: not exceed 1000m

Rated voltage: $\pm 5\%$

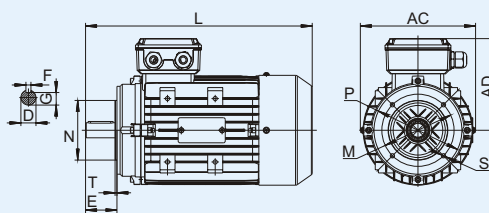
B3



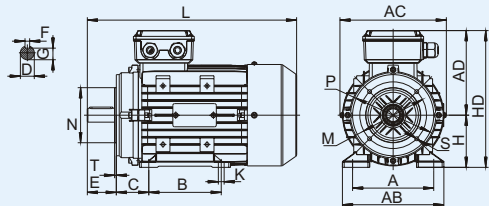
B5



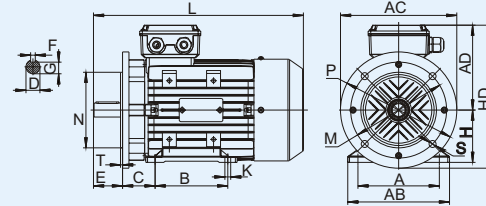
B14



B34



B35



INSTALLATION SIZE AND OVERALL DIMENSION

in mm

| Frame No | Installation Size | | | | | | | | | Installation Size For B14 | | | | | | Installation Size For B5 | | | | | | Overall Dimension | | | | |
|----------|-------------------|-----|----|----|----|----|------|-----|-----|---------------------------|-----|-----|---|-----|-----|--------------------------|-----|-----|---|----|-----|-------------------|-----|-----|-----|-----|
| | A | B | C | D | E | F | G | H | K | M | N | P | R | S | T | M | N | P | R | S | T | AB | AC | AD | HD | L |
| 56 | 90 | 71 | 36 | 9 | 20 | 3 | 7.2 | 56 | 5.8 | 65 | 50 | 80 | 0 | M5 | 2.5 | 98 | 80 | 120 | 0 | 7 | 3.0 | 112 | 115 | 104 | 160 | 198 |
| 63 | 100 | 80 | 40 | 11 | 23 | 4 | 8.5 | 63 | 7 | 75 | 60 | 90 | 0 | M5 | 2.5 | 115 | 95 | 140 | 0 | 10 | 3.0 | 120 | 127 | 110 | 173 | 225 |
| 71 | 112 | 90 | 45 | 14 | 30 | 5 | 11 | 71 | 7 | 85 | 70 | 105 | 0 | M6 | 2.5 | 130 | 110 | 160 | 0 | 10 | 3.5 | 135 | 145 | 119 | 190 | 255 |
| 80 | 125 | 100 | 50 | 19 | 40 | 6 | 15.5 | 80 | 10 | 100 | 80 | 120 | 0 | M6 | 3.0 | 165 | 130 | 200 | 0 | 12 | 3.5 | 155 | 165 | 138 | 218 | 295 |
| 90S | 140 | 100 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | 115 | 95 | 140 | 0 | M8 | 3.0 | 165 | 130 | 200 | 0 | 12 | 3.5 | 175 | 180 | 145 | 235 | 331 |
| 90L | 140 | 125 | 56 | 24 | 50 | 8 | 20 | 90 | 10 | 115 | 95 | 140 | 0 | M8 | 3.0 | 165 | 130 | 200 | 0 | 12 | 3.5 | 175 | 180 | 145 | 235 | 361 |
| 100L | 160 | 140 | 63 | 28 | 60 | 8 | 24 | 100 | 12 | 130 | 110 | 160 | 0 | M8 | 3.5 | 215 | 180 | 250 | 0 | 15 | 4.0 | 200 | 200 | 155 | 255 | 392 |
| 112M | 190 | 140 | 70 | 28 | 60 | 8 | 24 | 112 | 12 | 130 | 110 | 160 | 0 | M8 | 3.5 | 215 | 180 | 250 | 0 | 15 | 4.0 | 230 | 222 | 171 | 283 | 406 |
| 132S | 216 | 140 | 89 | 38 | 80 | 10 | 33 | 132 | 12 | 165 | 130 | 200 | 0 | M10 | 4.0 | 265 | 230 | 300 | 0 | 15 | 4.0 | 260 | 260 | 191 | 323 | 473 |
| 132M | 216 | 178 | 89 | 38 | 80 | 10 | 33 | 132 | 12 | 165 | 130 | 200 | 0 | M10 | 4.0 | 265 | 230 | 300 | 0 | 15 | 4.0 | 260 | 260 | 191 | 323 | 505 |

TECHNICAL DATA

| TYPE | Power KW | Current (A) | Power Factor | Eff (%) | Speed (r/min) | Tstart/Tn | Ist/In | Tmax/Tn | NW.kg | QTY/20' | Packing size (mm) |
|---|----------|-------------|--------------|---------|---------------|-----------|--------|---------|-------|---------|-------------------|
| 380V 50Hz Synchronous Speed 3000 r/min (2 Poles) | | | | | | | | | | | |
| MS561-2 | 0.09 | 0.30 | 0.76 | 60 | 2750 | 2.3 | 6.0 | 2.4 | 3.6 | 6000 | 220X120X165 |
| MS562-2 | 0.12 | 0.37 | 0.78 | 63 | 2750 | 2.3 | 6.0 | 2.4 | 4.0 | 5000 | 220X120X165 |
| MS631-2 | 0.18 | 0.53 | 0.80 | 65 | 2780 | 2.3 | 6.0 | 2.4 | 4.1 | 4400 | 260X150X165 |
| MS632-2 | 0.25 | 0.69 | 0.81 | 68 | 2780 | 2.3 | 6.0 | 2.4 | 4.5 | 4400 | 260X150X165 |
| MS711-2 | 0.37 | 0.99 | 0.81 | 70 | 2800 | 2.3 | 6.0 | 2.4 | 5.6 | 3000 | 285X170X200 |
| MS712-2 | 0.55 | 1.40 | 0.82 | 73 | 2800 | 2.3 | 6.0 | 2.4 | 6.2 | 3000 | 285X170X200 |
| MS801-2 | 0.75 | 1.83 | 0.83 | 75 | 2825 | 2.3 | 6.0 | 2.4 | 9.1 | 2200 | 330X190X215 |
| MS802-2 | 1.1 | 2.58 | 0.84 | 77 | 2825 | 2.3 | 6.5 | 2.4 | 10 | 2000 | 330X190X215 |
| MS90S-2 | 1.5 | 3.43 | 0.84 | 79 | 2840 | 2.3 | 6.5 | 2.4 | 12 | 1500 | 375X210X230 |
| MS90L-2 | 2.2 | 4.85 | 0.85 | 81 | 2840 | 2.3 | 6.5 | 2.4 | 13.2 | 1500 | 375X210X230 |
| MS100L-2 | 3 | 6.31 | 0.87 | 83 | 2880 | 2.3 | 7.0 | 2.4 | 22 | 960 | 400X225X320 |
| MS112M-2 | 4 | 8.12 | 0.88 | 85 | 2890 | 2.3 | 7.0 | 2.4 | 30 | 700 | 420X255X335 |
| MS132S1-2 | 5.5 | 11.0 | 0.88 | 86 | 2900 | 2.3 | 7.0 | 2.4 | 43 | 460 | 515X345X375 |
| MS132S2-2 | 7.5 | 14.9 | 0.88 | 87 | 2900 | 2.3 | 7.0 | 2.4 | 49 | 450 | 515X345X375 |
| MS160M1-2 | 11 | 21.3 | 0.89 | 88 | 2930 | 2.3 | 7.0 | 2.4 | 69 | 190 | 700X450X420 |
| MS160M2-2 | 15 | 28.8 | 0.89 | 89 | 2930 | 2.3 | 7.0 | 2.4 | 78 | 190 | 700X450X420 |
| MS160L-2 | 18.5 | 34.7 | 0.90 | 90 | 2930 | 2.3 | 7.0 | 2.4 | 81 | 190 | 700X450X420 |
| 380V 50Hz Synchronous Speed 1500 r/min (4 Poles) | | | | | | | | | | | |
| MS561-4 | 0.06 | 0.27 | 0.68 | 50 | 1300 | 2.2 | 5.5 | 2.3 | 3.6 | 6000 | 220X120X165 |
| MS562-4 | 0.09 | 0.36 | 0.70 | 54 | 1300 | 2.2 | 5.5 | 2.3 | 4 | 5000 | 220X120X165 |
| MS631-4 | 0.12 | 0.44 | 0.72 | 57 | 1330 | 2.2 | 5.5 | 2.3 | 4 | 4400 | 260X150X165 |
| MS632-4 | 0.18 | 0.62 | 0.73 | 60 | 1330 | 2.2 | 5.5 | 2.3 | 4.5 | 4400 | 260X150X165 |
| MS711-4 | 0.25 | 0.79 | 0.74 | 65 | 1360 | 2.2 | 5.5 | 2.3 | 5.6 | 3000 | 285X170X160 |
| MS712-4 | 0.37 | 1.12 | 0.75 | 67 | 1360 | 2.2 | 5.5 | 2.3 | 6 | 3000 | 285X170X160 |
| MS801-4 | 0.55 | 1.57 | 0.75 | 71 | 1380 | 2.3 | 6.0 | 2.4 | 9 | 2200 | 320X190X215 |
| MS802-4 | 0.75 | 2.05 | 0.76 | 73 | 1380 | 2.3 | 6.0 | 2.4 | 10 | 2200 | 320X190X230 |
| MS90S-4 | 1.1 | 2.89 | 0.77 | 75 | 1390 | 2.3 | 6.0 | 2.4 | 12 | 1500 | 375X210X230 |
| MS90L-4 | 1.5 | 3.70 | 0.79 | 78 | 1390 | 2.3 | 6.0 | 2.4 | 13.2 | 1500 | 375X210X235 |
| MS100L1-4 | 2.2 | 5.16 | 0.81 | 80 | 1410 | 2.3 | 7.0 | 2.4 | 21 | 960 | 400X225X320 |
| MS100L2-4 | 3 | 6.78 | 0.82 | 82 | 1410 | 2.3 | 7.0 | 2.4 | 24.8 | 950 | 400X225X320 |
| MS112M-4 | 4 | 8.82 | 0.82 | 84 | 1435 | 2.3 | 7.0 | 2.4 | 29 | 700 | 420X255X290 |
| MS132S-4 | 5.5 | 11.8 | 0.83 | 85 | 1445 | 2.3 | 7.0 | 2.4 | 44 | 460 | 510X345X375 |
| MS132M-4 | 7.5 | 15.6 | 0.84 | 87 | 1445 | 2.3 | 7.0 | 2.4 | 54 | 450 | 520X345X375 |
| MS160M-4 | 11 | 22.3 | 0.84 | 88 | 1450 | 2.2 | 7.0 | 2.3 | 71 | 190 | 700X450X420 |
| MS160L-4 | 15 | 30.1 | 0.85 | 89 | 1450 | 2.2 | 7.0 | 2.3 | 79 | 190 | 700X450X420 |
| 380V 50Hz Synchronous Speed 1000 r/min (6 Poles) | | | | | | | | | | | |
| MS711-6 | 0.18 | 0.74 | 0.66 | 56 | 900 | 2.0 | 5.5 | 2.2 | 5.4 | 3000 | 285X170X200 |
| MS712-6 | 0.25 | 0.95 | 0.68 | 59 | 900 | 2.0 | 5.5 | 2.2 | 6.0 | 3000 | 285X170X200 |
| MS801-6 | 0.37 | 1.30 | 0.70 | 62 | 900 | 2.0 | 5.5 | 2.2 | 9 | 2200 | 320X190X215 |
| MS802-6 | 0.55 | 1.79 | 0.72 | 65 | 900 | 2.0 | 5.5 | 2.2 | 11 | 2200 | 320X190X230 |
| MS90S-6 | 0.75 | 2.29 | 0.72 | 69 | 910 | 2.1 | 5.5 | 2.2 | 13 | 1500 | 375X210X235 |
| MS90L-6 | 1.1 | 3.18 | 0.73 | 72 | 910 | 2.1 | 5.5 | 2.2 | 14.2 | 1500 | 375X110X235 |
| MS100L-6 | 1.5 | 3.95 | 0.76 | 76 | 940 | 2.1 | 5.5 | 2.2 | 21 | 960 | 400X225X320 |
| MS112M-6 | 2.2 | 5.57 | 0.76 | 79 | 940 | 2.2 | 6.5 | 2.3 | 27 | 700 | 420X255X335 |
| MS132S-6 | 3 | 7.40 | 0.76 | 81 | 960 | 2.2 | 6.5 | 2.3 | 44 | 460 | 520X345X375 |
| MS132M1-6 | 4 | 9.75 | 0.76 | 82 | 960 | 2.2 | 6.5 | 2.3 | 52 | 450 | 520X345X375 |
| MS132M2-6 | 5.5 | 12.9 | 0.77 | 84 | 960 | 2.2 | 6.5 | 2.3 | 58 | 450 | 520X345X375 |
| MS160M-6 | 7.5 | 17.0 | 0.77 | 86 | 970 | 2.2 | 6.5 | 2.3 | 70 | 190 | 700X450X420 |
| MS160L-6 | 11 | 24.2 | 0.78 | 87 | 970 | 2.2 | 6.5 | 2.3 | 79 | 190 | 700X450X420 |
| 380V 50Hz Synchronous Speed 750 r/min (8 Poles) | | | | | | | | | | | |
| MS801-8 | 0.18 | 0.88 | 0.61 | 51 | 630 | 1.8 | 4.0 | 1.9 | 8.8 | 2200 | 320X190X215 |
| MS802-8 | 0.25 | 1.15 | 0.61 | 54 | 640 | 1.8 | 4.0 | 1.9 | 11 | 2200 | 320X190X215 |
| MS90S-8 | 0.37 | 1.49 | 0.61 | 62 | 660 | 1.8 | 4.0 | 1.9 | 13 | 1500 | 375X210X235 |
| MS90L-8 | 0.55 | 2.18 | 0.61 | 63 | 660 | 1.8 | 4.0 | 2.0 | 14 | 1500 | 375X210X235 |
| MS100L1-8 | 0.75 | 2.53 | 0.67 | 71 | 690 | 1.8 | 4.0 | 2.0 | 20 | 960 | 400X225X320 |
| MS100L2-8 | 1.1 | 3.32 | 0.69 | 73 | 690 | 1.8 | 5.0 | 2.0 | 26 | 960 | 400X225X320 |
| MS112M-8 | 1.5 | 4.50 | 0.69 | 75 | 680 | 1.8 | 5.0 | 2.0 | 43 | 700 | 420X255X335 |
| MS132S-8 | 2.2 | 6.00 | 0.71 | 78 | 710 | 1.8 | 6.0 | 2.0 | 51 | 450 | 520X345X375 |
| MS132M-8 | 3.0 | 7.90 | 0.73 | 79 | 710 | 1.8 | 6.0 | 2.0 | 57 | 450 | 520X345X375 |
| MS160M1-8 | 4.0 | 10.3 | 0.73 | 81 | 720 | 1.9 | 6.0 | 2.0 | 69 | 190 | 700X450X420 |
| MS160M2-8 | 5.5 | 13.6 | 0.74 | 83 | 720 | 2.0 | 6.0 | 2.0 | 78 | 190 | 700X450X420 |
| MS160L-8 | 7.5 | 17.8 | 0.75 | 85 | 720 | 2.0 | 6.0 | 2.0 | 81 | 190 | 700X450X420 |