

MSEJ SERIES

THREE PHASE TEFC

ELECTROMAGNETIC BRAKING

INDUCTION MOTORS



MSEJ series is three phase brake induction motor with aluminum housing and with application of DC brake. The motor has instant electromagnetic brake functionality and has low noise level.

Characteristics for all WONDER standard 3-Phase asynchronous motors

- Widely applied in general machinery and industries such as pumps & water treatment, road machinery, petroleum, chemical, metallurgy, cement and paper-milling.
- IP55 protection, Class F insulation, B Temperature rise, S1 duty,
- Rated voltage 400V, Rated frequency 50Hz.
- Operation conditions: ambient temperature:-20°C ~40°C, altitude≤1000m.
- Y-connection for motors up to 3kW and Δ-connection for 4kW and above
- Cooling method is Ic411.

MOUNTING ARRANGEMENTS

| Types | Basic type of construction | Derived types of construction | | | | |
|------------|----------------------------|-------------------------------|-------------------|------------------|------------------|------------------|
| MSEJ63-132 | IM B3 IM 1001 | IM V5 IM 1011 | IM V6 IM 1031 | IM B6 IM 1051 | IM B7 IM 1061 | IM B8 IM 1071 |
| MSEJ63-132 | IM B35 IM 2001 | IM V15 IM 2011 | IM V36 IM 2031 | IM 2051 | IM 2061 | IM 2071 |
| MSEJ63-132 | IM B34 IM 2101 | IM 2111 | IM 2131 | IM 2151 | IM 2161 | IM 2171 |
| MSEJ63-132 | IM B5 IM 3001 | IM V1 IM 3011 | IM V6 IM 3031 | | | |
| MSEJ63-132 | IM B14 IM 3601 | IM V18 IM 3611 | IM V19 IM 3631 | | | |

basic types of construction may be used in all derived types of construction
(*)not-defined mounting by IEC 60034-7

1) for the types of construction IM V6,IM B6,IM B8 inquiry is necessary.

TECHNICAL SPECIFICATIONS

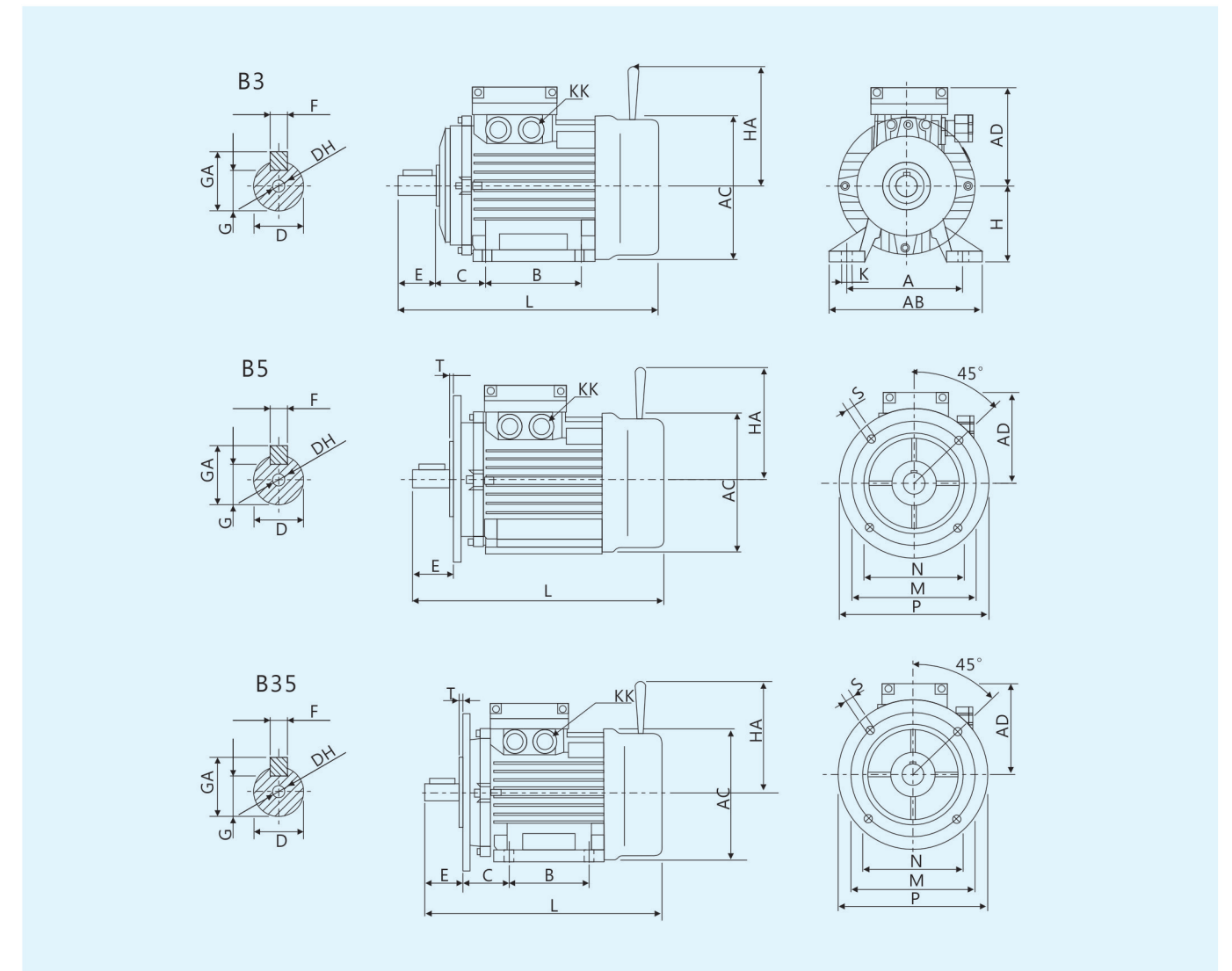
| Output kW | IEC Frame | Rated speed (rpm) | Full load current I _n (A) | | | Efficiency η% | Power Factor cosφ | Locked | Locked | Break | Rated torque (N.m) | Brake torque (N.m) | Weight (kg) |
|----------------|--------------|-------------------------|---|--------------------------|-------------------------|------------------|-------------------------|--------|--------|-------|--------------------------|--------------------------|----------------|
| | | | Rotor Current Is/In | Rotor Torque Ms/Mn | Down Torque Mk/Mn | | | | | | | | |
| 2-POLE/3000RPM | | | | | | | | | | | | | |
| 0.12 | 63 | 2720 | 0.58 | 0.55 | 0.53 | 65.0 | 0.73 | 5.5 | 2.2 | 2.2 | 0.63 | 4 | 3.9 |
| 0.25 | 63 | 2720 | 0.76 | 0.72 | 0.69 | 66.0 | 0.76 | 5.5 | 2.2 | 2.2 | 0.88 | 4 | 4.4 |
| 0.33 | 63 | 2720 | 0.99 | 0.94 | 0.91 | 70.0 | 0.81 | 6.1 | 2.2 | 2.2 | 1.30 | 4 | 4.7 |
| 0.37 | 71 | 2760 | 0.99 | 0.94 | 0.91 | 70.0 | 0.81 | 6.1 | 2.2 | 2.2 | 1.28 | 4 | 6.2 |
| 0.55 | 71 | 2820 | 1.40 | 1.33 | 1.28 | 73.0 | 0.82 | 6.1 | 2.2 | 2.3 | 1.86 | 4 | 6.3 |
| 0.75 | 71 | 2820 | 1.88 | 1.78 | 1.72 | 74.0 | 0.82 | 6.1 | 2.2 | 2.3 | 2.54 | 4 | 6.5 |
| 0.75 | 80 | 2845 | 1.83 | 1.74 | 1.68 | 75.0 | 0.83 | 6.1 | 2.4 | 2.5 | 2.52 | 8 | 8.3 |
| 1.1 | 80 | 2840 | 2.58 | 2.45 | 2.37 | 77.0 | 0.84 | 7.0 | 2.5 | 2.5 | 3.7 | 8 | 9.0 |
| 1.5 | 80 | 2840 | 3.48 | 3.30 | 3.18 | 78.0 | 0.84 | 7.0 | 2.5 | 2.5 | 5.04 | 8 | 10.0 |
| 1.5 | 90S | 2840 | 3.43 | 3.26 | 3.14 | 79.0 | 0.84 | 7.0 | 2.7 | 2.8 | 5.04 | 16 | 12.5 |
| 2.2 | 90L | 2840 | 4.85 | 4.61 | 4.45 | 81.0 | 0.85 | 7.0 | 2.5 | 2.8 | 7.4 | 16 | 14.0 |
| 3.0 | 90LB | 2840 | 6.46 | 6.14 | 5.92 | 82.0 | 0.86 | 7.0 | 2.5 | 2.8 | 10.09 | 16 | 16.0 |
| 3.0 | 100L | 2870 | 6.31 | 6.00 | 5.78 | 83.0 | 0.87 | 7.5 | 2.2 | 2.5 | 9.98 | 32 | 20.5 |
| 4.0 | 100LC | 2880 | 8.12 | 7.72 | 7.44 | 85.0 | 0.88 | 7.5 | 2.3 | 2.5 | 13.26 | 32 | 28.0 |
| 4.0 | 112M | 2880 | 8.12 | 7.72 | 7.44 | 85.0 | 0.88 | 7.5 | 2.3 | 2.3 | 13.26 | 60 | 26.0 |
| 5.5 | 112MC | 2890 | 11 | 10.5 | 10.1 | 86.0 | 0.88 | 7.5 | 2.3 | 2.3 | 18.17 | 60 | 33.0 |
| 5.5 | 132SA | 2900 | 11 | 10.5 | 10.1 | 86.0 | 0.88 | 7.5 | 2.2 | 2.5 | 18.11 | 80 | 40.0 |
| 7.5 | 132SB | 2905 | 14.9 | 14.1 | 13.6 | 87.0 | 0.88 | 7.5 | 2.2 | 2.4 | 24.66 | 80 | 44.0 |
| 11 | 132MC | 2910 | 22.00 | 20.90 | 19.90 | 88.0 | 0.89 | 7.5 | 2.2 | 2.4 | 36.10 | 80 | 65.0 |
| 0.12 | 63 | 1340 | 0.44 | 0.42 | 0.41 | 57.0 | 0.72 | 4.4 | 1.8 | 2.0 | 0.86 | 4 | 4.0 |
| 0.18 | 63 | 1340 | 0.65 | 0.61 | 0.59 | 58.0 | 0.73 | 4.4 | 1.8 | 2.0 | 1.28 | 4 | 4.5 |
| 0.22 | 63 | 1340 | 0.79 | 0.75 | 0.72 | 58.0 | 0.73 | 4.4 | 1.8 | 2.0 | 1.57 | 4 | 4.9 |
| 0.25 | 71 | 1345 | 0.79 | 0.75 | 0.72 | 65.0 | 0.74 | 5.2 | 2.1 | 2.2 | 1.78 | 4 | 6.1 |
| 0.37 | 71 | 1340 | 1.12 | 1.06 | 1.02 | 67.0 | 0.75 | 5.2 | 2.1 | 2.2 | 2.64 | 4 | 6.7 |
| 0.55 | 71 | 1390 | 1.57 | 1.49 | 1.44 | 71.0 | 0.75 | 5.3 | 2.2 | 2.5 | 3.78 | 4 | 8.2 |
| 0.55 | 80 | 1390 | 1.57 | 1.49 | 1.44 | 71.0 | 0.75 | 5.3 | 2.2 | 2.5 | 3.78 | 8 | 8.9 |
| 0.75 | 80 | 1380 | 2.05 | 1.95 | 1.88 | 73.0 | 0.76 | 5.3 | 2.3 | 2.5 | 5.19 | 8 | 9.6 |
| 1.1 | 80 | 1390 | 2.89 | 2.75 | 2.65 | 75.0 | 0.77 | 6.0 | 2.3 | 2.5 | 7.56 | 8 | 12.2 |
| 1.1 | 90S | 1390 | 2.89 | 2.75 | 2.65 | 75.0 | 0.77 | 6.0 | 2.3 | 2.5 | 7.56 | 16 | 12.5 |
| 1.5 | 90L | 1390 | 3.7 | 3.51 | 3.39 | 78.0 | 0.79 | 6.0 | 2.3 | 2.5 | 10.31 | 16 | 15.0 |
| 2.2 | 90LB | 1415 | 5.16 | 4.9 | 4.72 | 80.0 | 0.81 | 7.0 | 2.3 | 2.5 | 14.85 | 16 | 19.5 |
| 2.2 | 100L1 | 1415 | 5.16 | 4.9 | 4.72 | 80.0 | 0.81 | 7.0 | 2.3 | 2.5 | 14.85 | 32 | 19.2 |
| 3.0 | 100L2 | 1415 | 6.78 | 6.44 | 6.21 | 82.0 | 0.82 | 7.0 | 2.3 | 2.5 | 20.25 | 32 | 23.0 |
| 4.0 | 100LC | 1430 | 8.82 | 8.38 | 8.08 | 84.0 | 0.82 | 7.0 | 2.3 | 2.5 | 26.71 | 32 | 25.9 |
| 4.0 | 112M | 1430 | 8.82 | 8.38 | 8.08 | 84.0 | 0.82 | 7.0 | 2.3 | 2.5 | 26.71 | 60 | 29.0 |
| 5.5 | 112MC | 1445 | 11.8 | 11.3 | 10.9 | 85.0 | 0.83 | 7.0 | 2.3 | 2.5 | 36.35 | 60 | 37.5 |
| 5.5 | 132S | 1445 | 11.8 | 11.3 | 10.9 | 85.0 | 0.83 | 7.0 | 2.3 | 2.5 | 36.35 | 80 | 43.5 |
| 7.5 | 132M | 1445 | 15.6 | 14.8 | 14.3 | 87.0 | 0.84 | 7.0 | 2.3 | 2.5 | 49.57 | 80 | 53.5 |
| 11 | 132MC | 1460 | 22.6 | 21.5 | 20.70 | 88.0 | 0.84 | 7.0 | 2.2 | 2.3 | 71.95 | 80 | 75.6 |

All technical details are based on full-load 400V/50Hz

TECHNICAL SPECIFICATIONS

| Output kW | IEC Frame | Rated speed (rpm) | Full load current I _n (A) | | | Efficiency η% | Power Factor cosφ | Locked Rotor Current Is/In | Locked Rotor Torque M _s /M _N | Break Down Torque M _k /M _N | Rated torque (N.m) | Brake torque (N.m) | Weight (kg) |
|-----------------------|--------------|-------------------------|---|-----------|-----------|------------------|-------------------------|-------------------------------------|---|---|--------------------------|--------------------------|----------------|
| | | | 380V A | 400V A | 415V A | | | | | | | | |
| 6-POLE/1000RPM | | | | | | | | | | | | | |
| 0.09 | 631 | 860 | 0.48 | 0.46 | 0.44 | 48.0 | 0.59 | 4.0 | 1.9 | 2 | 1.0 | 4 | 4.5 |
| 0.12 | 632 | 860 | 0.60 | 0.57 | 0.55 | 51.5 | 0.59 | 4.0 | 1.9 | 2 | 1.33 | 4 | 5.6 |
| 0.18 | 711 | 860 | 0.74 | 0.70 | 0.68 | 56.0 | 0.66 | 4.0 | 1.9 | 2 | 2.0 | 4 | 6.4 |
| 0.25 | 712 | 860 | 0.95 | 0.90 | 0.87 | 59.0 | 0.68 | 4.0 | 1.9 | 2 | 2.78 | 4 | 6.5 |
| 0.37 | 801 | 885 | 1.30 | 1.23 | 1.19 | 62.0 | 0.70 | 4.7 | 2.0 | 2.1 | 3.99 | 8 | 8.5 |
| 0.55 | 802 | 885 | 1.79 | 1.70 | 1.63 | 65.0 | 0.72 | 4.7 | 2.0 | 2.1 | 5.94 | 8 | 9.2 |
| 0.75 | 90S | 915 | 2.29 | 2.18 | 2.10 | 69.0 | 0.72 | 5.5 | 2.0 | 2.2 | 7.83 | 16 | 12.0 |
| 1.1 | 90L | 915 | 3.18 | 3.02 | 2.91 | 72.0 | 0.73 | 5.5 | 2.0 | 2.2 | 11.48 | 16 | 14.0 |
| 1.5 | 100L | 920 | 4.00 | 3.80 | 3.66 | 76.0 | 0.75 | 5.5 | 2.1 | 2.2 | 15.57 | 32 | 19.5 |
| 2.2 | 112M | 935 | 5.57 | 5.29 | 5.1 | 79.0 | 0.76 | 6.5 | 2.2 | 2.2 | 22.47 | 60 | 28.0 |
| 3.0 | 132S | 960 | 7.40 | 7.03 | 6.78 | 81.0 | 0.76 | 6.5 | 2.2 | 2.8 | 29.84 | 80 | 38.0 |
| 4.0 | 132MA | 960 | 9.75 | 9.26 | 8.93 | 82.0 | 0.76 | 6.5 | 2.4 | 2.9 | 39.79 | 80 | 45.0 |
| 5.5 | 132MB | 960 | 12.9 | 12.3 | 11.8 | 84.0 | 0.77 | 6.5 | 2.4 | 2.8 | 54.71 | 80 | 54.0 |
| 8-POLE/750RPM | | | | | | | | | | | | | |
| 0.09 | 711 | 635 | 0.72 | 0.68 | 0.66 | 39 | 0.49 | 2.9 | 1.8 | 2.0 | 1.35 | 8 | 6.5 |
| 0.12 | 712 | 635 | 0.78 | 0.74 | 0.71 | 48 | 0.49 | 2.9 | 1.8 | 2.0 | 1.80 | 8 | 7.5 |
| 0.18 | 801 | 645 | 0.88 | 0.84 | 0.80 | 51 | 0.61 | 2.9 | 1.8 | 2.0 | 2.67 | 8 | 8.3 |
| 0.25 | 802 | 645 | 1.15 | 1.10 | 1.06 | 54 | 0.61 | 2.9 | 1.8 | 2.0 | 3.70 | 8 | 9.0 |
| 0.37 | 90S | 670 | 1.56 | 1.48 | 1.43 | 59 | 0.61 | 3.2 | 1.9 | 2.3 | 5.27 | 16 | 12.0 |
| 0.55 | 90L | 670 | 2.21 | 2.10 | 2.02 | 62 | 0.61 | 3.2 | 2.0 | 2.3 | 7.84 | 16 | 15.0 |
| 0.75 | 100LA | 685 | 2.43 | 2.31 | 2.22 | 70 | 0.67 | 4.7 | 1.8 | 2.2 | 10.46 | 32 | 19.0 |
| 1.1 | 100LB | 690 | 3.36 | 3.20 | 3.08 | 72 | 0.69 | 5.0 | 1.8 | 2.2 | 15.22 | 32 | 21.8 |
| 1.5 | 112M | 730 | 4.40 | 4.18 | 4.03 | 75 | 0.69 | 5.0 | 2.0 | 2.5 | 19.62 | 60 | 29.0 |
| 2.2 | 132S | 710 | 6.04 | 5.73 | 5.53 | 78 | 0.71 | 6.0 | 1.8 | 2.5 | 29.59 | 80 | 39.0 |
| 3.0 | 132M | 710 | 7.90 | 7.51 | 7.24 | 79 | 0.73 | 6.0 | 1.8 | 2.4 | 40.35 | 80 | 45.0 |

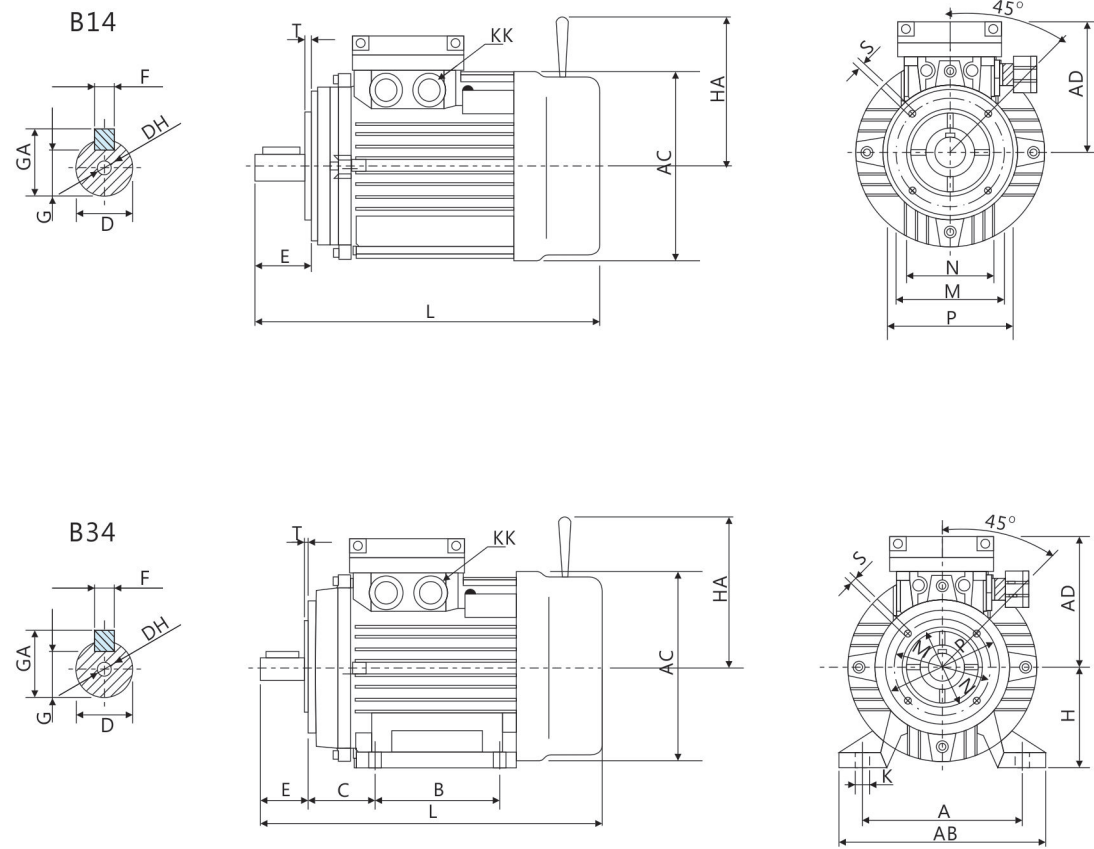
MSEJ63-132 MOUNTING AND OVERALL DIMENSIONS



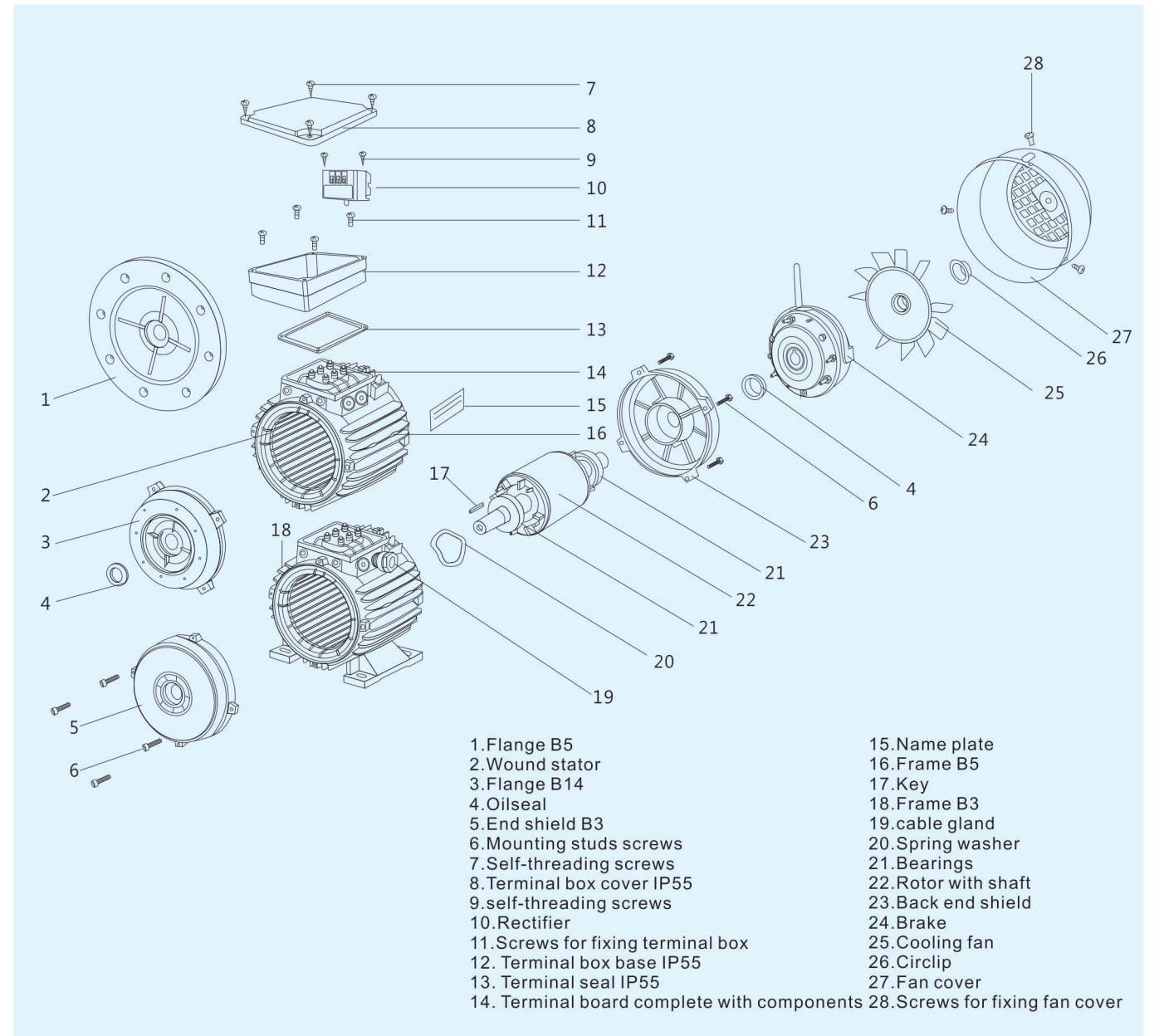
| Frame size | Mounting dimensions(mm) | | | | | | | | | | | | | Overall dimensions(mm) | | | | | | | | |
|---------------|-------------------------|-----|-----|-----|-----|----|----|--------|----|----|------|-----|----|------------------------|-----|-----|-----|-----|----|-----|------|-----|
| | A | AB | AC | AD | B | C | D | DH | E | F | G | H | K | KK | L | M | N | P | S | T | GA | HA |
| 63 | 100 | 122 | 122 | 109 | 80 | 40 | 11 | M4×12 | 23 | 4 | 8.5 | 63 | 7 | 2-M18×1.5 | 258 | 115 | 95 | 140 | 9 | 3 | 12.5 | 100 |
| 71 | 112 | 136 | 138 | 119 | 90 | 45 | 14 | M5×12 | 30 | 5 | 11 | 71 | 7 | 2-M18×1.5 | 290 | 130 | 110 | 160 | 9 | 3.5 | 16 | 100 |
| 80 | 125 | 154 | 157 | 127 | 100 | 50 | 19 | M6×16 | 40 | 6 | 15.5 | 80 | 10 | 2-M20×1.5 | 330 | 165 | 130 | 200 | 12 | 3.5 | 21.5 | 110 |
| 90S | 140 | 174 | 175 | 132 | 100 | 56 | 24 | M8×19 | 50 | 8 | 20 | 90 | 10 | 2-M20×1.5 | 376 | 165 | 130 | 200 | 12 | 3.5 | 27 | 128 |
| 90L | 140 | 174 | 175 | 132 | 125 | 56 | 24 | M8×19 | 50 | 8 | 20 | 90 | 10 | 2-M20×1.5 | 391 | 165 | 130 | 200 | 12 | 3.5 | 27 | 128 |
| 100L | 160 | 194 | 196 | 145 | 140 | 63 | 28 | M10×22 | 60 | 8 | 24 | 100 | 12 | 2-M20×1.5 | 434 | 215 | 180 | 250 | 15 | 4 | 31 | 156 |
| 112M | 190 | 224 | 220 | 158 | 140 | 70 | 28 | M10×22 | 60 | 8 | 24 | 112 | 12 | 2-M20×1.5 | 468 | 215 | 180 | 250 | 15 | 4 | 31 | 187 |
| 132S | 216 | 256 | 260 | 187 | 140 | 89 | 38 | M12×28 | 80 | 10 | 33 | 132 | 12 | 2-M25×1.5 | 555 | 265 | 230 | 300 | 15 | 4 | 41 | 232 |
| 132M | 216 | 256 | 260 | 187 | 178 | 89 | 38 | M12×28 | 80 | 10 | 33 | 132 | 12 | 2-M25×1.5 | 593 | 265 | 230 | 300 | 15 | 4 | 41 | 232 |

R=0 distance from flange to shaft shoulder

MSEJ63-132 MOUNTING AND OVERALL DIMENSIONS



MOTOR SPARE PART LIST/DRAWING



| Frame size | Mounting dimensions(mm) | | | | | | | | | | | | | Overall dimensions(mm) | | | | | | | | |
|------------|-------------------------|-----|-----|-----|-----|----|----|--------|----|----|------|-----|----|------------------------|-----|-----|-----|-----|-----|-----|------|-----|
| | A | AB | AC | AD | B | C | D | DH | E | F | G | H | K | KK | L | M | N | P | S | T | GA | HA |
| 63 | 100 | 122 | 122 | 109 | 80 | 40 | 11 | M4×12 | 23 | 4 | 8.5 | 63 | 7 | 2-M18×1.5 | 258 | 75 | 60 | 90 | M5 | 3 | 12.5 | 100 |
| 71 | 112 | 136 | 138 | 119 | 90 | 45 | 14 | M5×12 | 30 | 5 | 11 | 71 | 7 | 2-M18×1.5 | 290 | 85 | 70 | 105 | M6 | 3.5 | 16 | 100 |
| 80 | 125 | 154 | 157 | 127 | 100 | 50 | 19 | M6×16 | 40 | 6 | 15.5 | 80 | 10 | 2-M20×1.5 | 330 | 100 | 80 | 120 | M6 | 3.5 | 21.5 | 110 |
| 90S | 140 | 174 | 175 | 132 | 100 | 56 | 24 | M8×19 | 50 | 8 | 20 | 90 | 10 | 2-M20×1.5 | 376 | 115 | 95 | 140 | M8 | 3.5 | 27 | 128 |
| 90L | 140 | 174 | 175 | 132 | 125 | 56 | 24 | M8×19 | 50 | 8 | 20 | 90 | 10 | 2-M20×1.5 | 391 | 115 | 95 | 140 | M8 | 3.5 | 27 | 128 |
| 100L | 160 | 194 | 196 | 145 | 140 | 63 | 28 | M10×22 | 60 | 8 | 24 | 100 | 12 | 2-M20×1.5 | 434 | 130 | 110 | 160 | M8 | 4 | 31 | 156 |
| 112M | 190 | 224 | 220 | 158 | 140 | 70 | 28 | M10×22 | 60 | 8 | 24 | 112 | 12 | 2-M20×1.5 | 468 | 130 | 110 | 160 | M8 | 4 | 31 | 187 |
| 132S | 216 | 256 | 260 | 187 | 140 | 89 | 38 | M12×28 | 80 | 10 | 33 | 132 | 12 | 2-M25×1.5 | 555 | 165 | 130 | 200 | M10 | 4 | 41 | 232 |
| 132M | 216 | 256 | 260 | 187 | 178 | 89 | 38 | M12×28 | 80 | 10 | 33 | 132 | 12 | 2-M25×1.5 | 593 | 165 | 130 | 200 | M10 | 4 | 41 | 232 |

R=0 distance from flange to shaft shoulder

| Frame size | Driving End Bearings | Non driving End Bearings | Oil Seal |
|------------|----------------------|--------------------------|------------|
| 63 | 6201 2RS/C3 | 6201 2RS/C3 | φ12× φ22×7 |
| 71 | 6202 2RS/C3 | 6202 2RS/C3 | φ15× φ25×7 |
| 80 | 6204 2RS/C3 | 6204 2RS/C3 | φ20× φ30×7 |
| 90 | 6205 2RS/C3 | 6205 2RS/C3 | φ25× φ37×7 |
| 100 | 6206 2RS/C3 | 6206 2RS/C3 | φ30× φ42×7 |
| 112 | 6206 2RS/C3 | 6206 2RS/C3 | φ30× φ42×7 |
| 132 | 6208 2RS/C3 | 6208 2RS/C3 | φ40× φ58×8 |