

TECO

AEHF · AEUF SERIES **IE3**

Premium Efficiency Cast Iron Motors



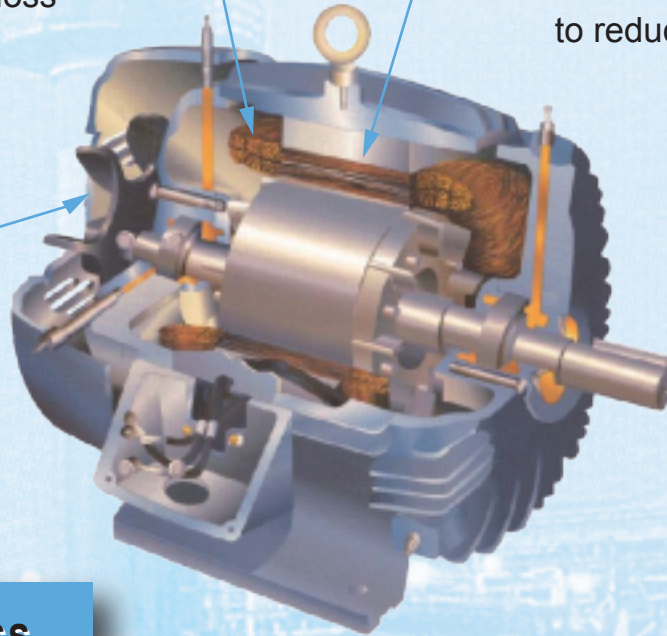
TECO MOTORS ROTATE THE WORLD

Copper Loss

Optimize the coil and the shape of core to reduce copper loss

Iron Loss

Use high quality steel plate to reduce iron loss

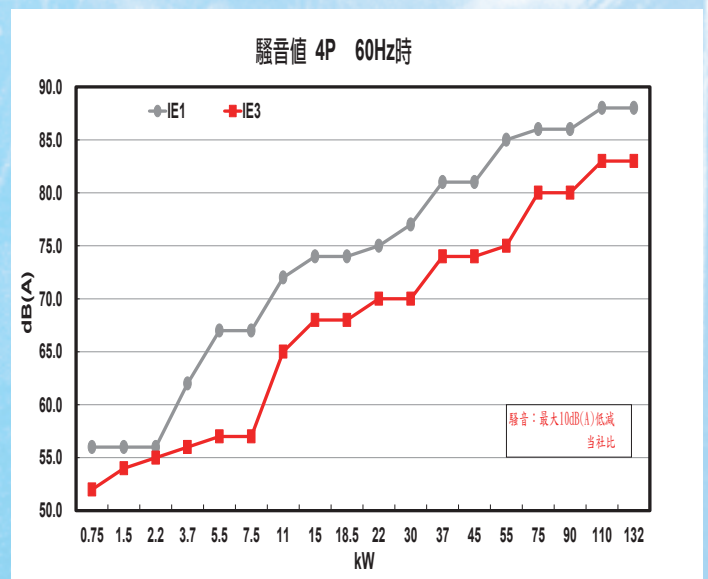
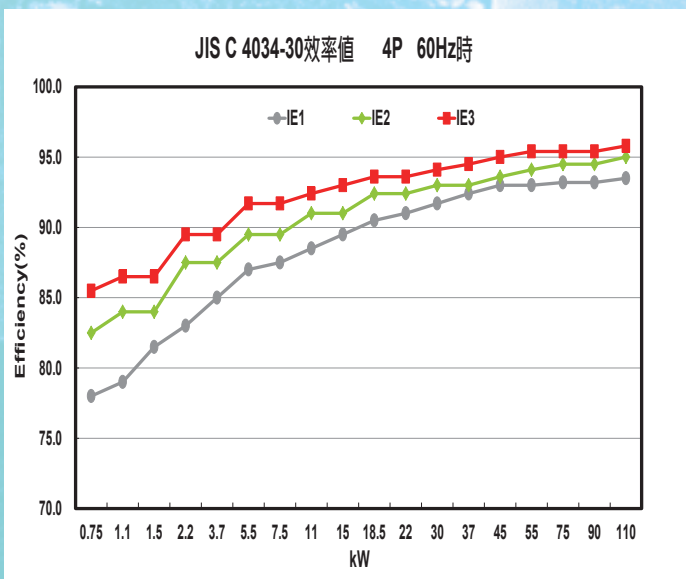


Mechanical Loss

Minimize the external fan and other method to reduce mechanical loss

Efficiency Level

Noise Level



SPECIFICATION TABLE

| ITEM | | STANDARD SPECIFICATION |
|--|------------------------|---|
| R A T I N G | Kind of Motors | Squirrel-Cage Induction Motors (SCIM) |
| | Design Standards | JIS C4212 , IEC 60034 , CNS 14400. |
| | Voltages | 200V , 220V , 230V ,380V , 460V or others |
| | Frequency | 50Hz or 60Hz |
| | Output Range | 0.2kW ~ 130kW (1/4 HP ~ 175HP). |
| | R.P.M.(Syn.) | 3000 ~ 1000 R.P.M.(2~6Poles) 50Hz. 3600 ~ 1200 R.P.M.(2~6Poles) 60Hz. |
| | Time Duty | Continuous. S1, S.F. : 1.15 at 60Hz (S.F. : 1.0 at 50 Hz). |
| | Frame Nos. | 63~280 M. |
| | Protection Enclosure | Totally Enclosed (IP 54). |
| | Cooling Method | Self External Fan, Surface Cooling (IC 411). |
| | Mounting | Horizontal Foot Mounting B3 (IM 1001). Flange Mounting V1 (IM 3011). |
| A P P L I C A T I O N | Environment Conditions | Place : Shadown , Non-Hazardous , Ambient Temperature : -15°C~ 40°C. Relative Humidity : Less Than 90%RH (Non-Condensation). Altitude : Less Than 1,000M. |
| | Drive Method | Belt Service , However , 2 Poles 22kW and Up Coupling Service is the Way |
| | Direction of Rotation | Bi - Directional. |
| | Method of Starting | Full Voltage Direct On Line or λ - Δ Starting. |
| C O N S T R U C T I O N | Bearing | Bracket Mounting , Vacuum De – Gassed High Quality Open Bearings For Frame Nos. 250~315 , Grease Pre-Packed Shielded Rolling Bearings for the Others. |
| | Terminal Box | Frame 280 Below Pressed Steel, Frame 280 Cast Iron, Larger Size , Can be Set 90° Apart with Clearance Hole Cable Entrance at Left Side View form the Drive End. |
| | Stator Winding | Pre – Formed , Random Wound , Made of Heavy , Polyester Enameled Copper Wire. |
| | Stator Insulation | Class F Insulation System . |
| | Painting | Phenolic Rust Proof Base Plus Lacquer Surface Finished Painting in Jade Green (Munsell 5G 5/10). |
| P E R F O R M A N C E | Test Procedure | JIS C4212 、IEEE-112 Method B and Full Voltage Measuring Starting Performance. |
| | Temperature Rise | Frame No. Up to 180M : Not to Exceed 80°C . Frame No. 180L and above : Not to Exceed 100°C Resistance Method at S.F. 1.0. |
| | Over Speed | 120% Syn. R.P.M. for 2 Minutes. |
| | Over Torque | 160% Rated Torque for 15 Sec. |

PERFORMANCE DATA AEHF / AEUF

TEFC, CLASS F INSULATION 40°C AMBIENT TEMP.S.F. : 1.0 at 50HZ (S.F.1.15 at 60HZ) (200/220V)

| OUTPUT | | Pole | Volt | Hz | Frame No. | FULL LOAD RPM | EFFICIENCY | | | POWER FACTOR | | | CURRENT | | TORQUE | | | | IE CODE | ROTOR GD ² kg-m ² |
|--------|------|--------|--------|--------|-----------|---------------|---------------|--------------|--------------|---------------|--------------|--------------|---------------|------------------|----------------|-------------------|--------------|-----------------|---------|---|
| HP | KW | | | | | | FULL LOAD (%) | 3/4 LOAD (%) | 1/2 LOAD (%) | FULL LOAD (%) | 3/4 LOAD (%) | 1/2 LOAD (%) | FULL LOAD (A) | LOCKED ROTOR (A) | FULL LOAD kg-m | LOCKED ROTOR %FLT | PULL UP %FLT | BREAK DOWN %FLT | | |
| 1/4 | 0.2 | 2 | 200 50 | 63 | 2765 | 74.5 | 74.6 | 72.0 | 80.0 | 71.0 | 58.0 | 0.97 | 6.0 | 0.070 | 340 | 325 | 330 | N/A | 0.002 | |
| | | | 200 60 | | 3275 | 73.5 | 75.0 | 73.5 | 85.0 | 79.5 | 67.0 | 0.92 | 5.5 | 0.059 | 310 | 295 | 300 | N/A | | |
| | | | 220 60 | | 3360 | 75.0 | 75.5 | 72.5 | 81.0 | 74.0 | 60.0 | 0.86 | 6.0 | 0.058 | 385 | 365 | 370 | N/A | | |
| | | 4 | 63 | 200 50 | 1375 | 74.0 | 74.0 | 71.0 | 69.5 | 59.5 | 45.5 | 1.12 | 6.0 | 0.142 | 220 | 220 | 230 | N/A | 0.003 | |
| | | | | 200 60 | 1645 | 75.5 | 77.0 | 75.0 | 74.0 | 65.5 | 52.0 | 1.03 | 5.5 | 0.118 | 200 | 195 | 205 | N/A | | |
| | | | | 220 60 | 1685 | 77.0 | 77.3 | 73.5 | 68.0 | 58.0 | 45.0 | 1.00 | 6.0 | 0.116 | 245 | 240 | 250 | N/A | | |
| 6 | 71 | 200 50 | 910 | 70.8 | 70.0 | 67.0 | 62.0 | 52.0 | 40.0 | 1.32 | 6.0 | 0.214 | 245 | 225 | 255 | N/A | 0.009 | | | |
| | | 200 60 | 1100 | 73.0 | 74.0 | 72.0 | 65.0 | 55.0 | 42.0 | 1.22 | 5.5 | 0.177 | 215 | 195 | 225 | N/A | | | | |
| | | 220 60 | 1120 | 74.0 | 73.5 | 70.0 | 58.5 | 49.0 | 37.0 | 1.21 | 6.0 | 0.174 | 270 | 240 | 275 | N/A | | | | |
| 1/2 | 0.4 | 2 | 200 50 | 71 | 2800 | 77.1 | 78.5 | 78.0 | 84.0 | 77.0 | 65.0 | 1.78 | 12 | 0.139 | 300 | 260 | 280 | N/A | 0.002 | |
| | | | 200 60 | | 3365 | 78.0 | 78.5 | 77.5 | 89.0 | 85.0 | 76.0 | 1.66 | 11 | 0.116 | 265 | 220 | 250 | N/A | | |
| | | | 220 60 | | 3425 | 79.5 | 79.0 | 77.0 | 86.0 | 80.0 | 69.0 | 1.54 | 12 | 0.114 | 325 | 275 | 305 | N/A | | |
| | | 4 | 71 | 200 50 | 1390 | 79.0 | 80.0 | 78.0 | 73.0 | 64.0 | 50.0 | 2.00 | 12 | 0.280 | 275 | 235 | 265 | N/A | 0.006 | |
| | | | | 200 60 | 1670 | 79.5 | 81.0 | 80.0 | 77.5 | 69.5 | 56.5 | 1.87 | 11 | 0.233 | 230 | 195 | 240 | N/A | | |
| | | | | 220 60 | 1700 | 81.0 | 82.0 | 80.0 | 71.5 | 63.0 | 49.0 | 1.81 | 12 | 0.229 | 285 | 245 | 295 | N/A | | |
| 6 | 80 | 200 50 | 925 | 75.3 | 76.5 | 75.0 | 66.5 | 56.5 | 43.0 | 2.31 | 12 | 0.421 | 250 | 245 | 255 | N/A | 0.013 | | | |
| | | 200 60 | 1110 | 80.0 | 81.0 | 81.5 | 74.5 | 65.5 | 52.0 | 1.94 | 11 | 0.351 | 200 | 195 | 205 | N/A | | | | |
| | | 220 60 | 1130 | 81.0 | 81.5 | 80.0 | 68.0 | 58.0 | 45.0 | 1.91 | 12 | 0.345 | 245 | 240 | 255 | N/A | | | | |
| 1 | 0.75 | 2 | 200 50 | 80 | 2860 | 82.4 | 83.0 | 80.0 | 84.0 | 76.5 | 64.0 | 3.13 | 26 | 0.255 | 375 | 345 | 390 | IE3 | 0.006 | |
| | | | 200 60 | | 3425 | 79.0 | 78.0 | 76.0 | 87.0 | 82.0 | 73.0 | 3.15 | 24 | 0.213 | 350 | 300 | 350 | IE3 | | |
| | | | 220 60 | | 3460 | 80.0 | 79.5 | 76.0 | 84.5 | 78.0 | 67.0 | 2.91 | 26 | 0.211 | 435 | 375 | 430 | IE3 | | |
| | | 4 | 80 | 200 50 | 1430 | 83.5 | 82.5 | 80.5 | 73.0 | 62.5 | 48.5 | 3.55 | 24 | 0.511 | 380 | 365 | 375 | IE3 | 0.013 | |
| | | | | 200 60 | 1710 | 84.5 | 85.5 | 85.0 | 78.0 | 71.0 | 58.0 | 3.28 | 24 | 0.427 | 335 | 325 | 340 | IE2 | | |
| | | | | 220 60 | 1730 | 85.5 | 84.5 | 82.5 | 72.0 | 62.0 | 48.0 | 3.20 | 26 | 0.422 | 415 | 400 | 420 | IE3 | | |
| 6 | 90L | 200 50 | 940 | 79.5 | 80.5 | 79.0 | 71.0 | 62.5 | 49.0 | 3.84 | 20 | 0.777 | 200 | 185 | 235 | IE3 | 0.022 | | | |
| | | 200 60 | 1130 | 82.0 | 83.0 | 82.5 | 76.5 | 70.0 | 58.5 | 3.45 | 16 | 0.646 | 150 | 135 | 200 | IE2 | | | | |
| | | 220 60 | 1145 | 82.5 | 83.0 | 81.5 | 70.0 | 62.0 | 49.0 | 3.41 | 20 | 0.638 | 195 | 175 | 265 | IE3 | | | | |
| 2 | 1.5 | 2 | 200 50 | 90L | 2835 | 85.5 | 86.5 | 86.0 | 86.0 | 80.5 | 70.0 | 5.89 | 46 | 0.515 | 360 | 340 | 360 | IE3 | 0.011 | |
| | | | 200 60 | | 3400 | 85.5 | 86.0 | 85.5 | 89.0 | 85.5 | 77.5 | 5.69 | 42 | 0.430 | 325 | 305 | 325 | IE3 | | |
| | | | 220 60 | | 3445 | 85.5 | 86.0 | 84.5 | 86.0 | 81.0 | 71.0 | 5.35 | 46 | 0.424 | 395 | 375 | 395 | IE3 | | |
| | | 4 | 90L | 200 50 | 1440 | 86.0 | 86.5 | 84.5 | 77.0 | 69.0 | 55.0 | 6.54 | 51 | 1.015 | 320 | 285 | 360 | IE3 | 0.023 | |
| | | | | 200 60 | 1730 | 86.5 | 87.5 | 87.0 | 83.0 | 77.5 | 66.0 | 6.03 | 48 | 0.845 | 270 | 240 | 315 | IE3 | | |
| | | | | 220 60 | 1745 | 87.5 | 88.0 | 86.0 | 78.0 | 70.0 | 57.0 | 5.77 | 51 | 0.837 | 325 | 290 | 385 | IE3 | | |
| 6 | 112M | 200 50 | 965 | 86.0 | 86.5 | 84.5 | 69.0 | 59.0 | 47.0 | 7.30 | 45 | 1.514 | 175 | 160 | 250 | IE3 | 0.071 | | | |
| | | 200 60 | 1155 | 87.5 | 88.0 | 87.0 | 71.0 | 64.5 | 53.0 | 6.97 | 40 | 1.265 | 160 | 125 | 225 | IE2 | | | | |
| | | 220 60 | 1165 | 88.5 | 88.0 | 85.5 | 69.0 | 59.0 | 47.0 | 6.45 | 44 | 1.254 | 170 | 155 | 270 | IE3 | | | | |
| 3 | 2.2 | 2 | 200 50 | 90L | 2845 | 85.9 | 86.0 | 85.5 | 86.0 | 80.0 | 69.0 | 8.60 | 70 | 0.753 | 370 | 330 | 355 | IE3 | 0.015 | |
| | | | 200 60 | | 3420 | 85.5 | 86.0 | 85.8 | 89.5 | 86.0 | 78.0 | 8.30 | 64 | 0.627 | 320 | 300 | 325 | IE2 | | |
| | | | 220 60 | | 3455 | 86.5 | 86.7 | 85.5 | 86.5 | 81.5 | 71.0 | 7.72 | 70 | 0.620 | 390 | 370 | 400 | IE3 | | |
| | | 4 | 100L | 200 50 | 1440 | 87.0 | 88.0 | 87.5 | 82.0 | 75.5 | 63.0 | 8.90 | 75 | 1.488 | 300 | 270 | 315 | IE3 | 0.050 | |
| | | | | 200 60 | 1730 | 88.5 | 90.0 | 89.8 | 85.0 | 80.5 | 70.0 | 8.44 | 70 | 1.239 | 265 | 205 | 270 | IE2 | | |
| | | | | 220 60 | 1745 | 89.5 | 90.0 | 89.5 | 82.0 | 75.0 | 63.0 | 7.87 | 75 | 1.228 | 320 | 250 | 330 | IE3 | | |
| 6 | 112M | 200 50 | 960 | 86.5 | 87.0 | 86.0 | 71.0 | 61.0 | 49.0 | 10.3 | 60 | 2.232 | 175 | 170 | 265 | IE3 | 0.084 | | | |
| | | 200 60 | 1150 | 88.0 | 89.0 | 88.0 | 73.0 | 66.5 | 56.0 | 9.89 | 52 | 1.863 | 160 | 125 | 220 | IE2 | | | | |
| | | 220 60 | 1160 | 89.5 | 89.0 | 87.5 | 71.0 | 61.0 | 49.0 | 9.09 | 57 | 1.847 | 170 | 155 | 265 | IE3 | | | | |
| 5 | 3.7 | 2 | 200 50 | 112M | 2870 | 88.1 | 88.5 | 88.3 | 90.5 | 87.5 | 80.0 | 13.4 | 120 | 1.256 | 290 | 315 | 345 | IE3 | 0.046 | |
| | | | 200 60 | | 3435 | 87.5 | 88.0 | 87.5 | 91.5 | 90.0 | 85.0 | 13.3 | 104 | 1.049 | 260 | 230 | 315 | IE2 | | |
| | | | 220 60 | | 3475 | 88.5 | 89.0 | 88.0 | 90.5 | 87.0 | 80.0 | 12.1 | 120 | 1.037 | 320 | 280 | 385 | IE3 | | |
| | | 4 | 112M | 200 50 | 1445 | 88.6 | 89.3 | 89.0 | 82.0 | 77.0 | 66.0 | 14.7 | 120 | 2.494 | 235 | 200 | 305 | IE3 | 0.083 | |
| | | | | 200 60 | 1735 | 88.5 | 89.2 | 89.0 | 84.0 | 81.0 | 73.0 | 14.4 | 99 | 2.077 | 185 | 150 | 265 | IE2 | | |
| | | | | 220 60 | 1750 | 89.5 | 90.0 | 89.5 | 82.0 | 77.0 | 67.0 | 13.2 | 110 | 2.059 | 225 | 180 | 325 | IE3 | | |
| 6 | 132S | 200 50 | 965 | 87.0 | 88.0 | 87.5 | 77.0 | 70.0 | 58.0 | 15.9 | 110 | 3.735 | 200 | 185 | 275 | IE3 | 0.143 | | | |
| | | 200 60 | 1160 | 89.0 | 90.2 | 90.0 | 80.5 | 76.5 | 66.5 | 14.9 | 90 | 3.107 | 150 | 135 | 230 | IE2 | | | | |
| | | 220 60 | 1165 | 89.5 | 90.3 | 89.0 | 78.0 | 72.0 | 60.0 | 13.9 | 105 | 3.093 | 185 | 170 | 280 | IE3 | | | | |
| 7.5 | 5.5 | 2 | 200 50 | 132S | 2915 | 89.5 | 90.5 | 90.3 | 88.5 | 85.5 | 78.5 | 20.0 | 152 | 1.838 | 230 | 200 | 290 | IE3 | 0.076 | |
| | | | 200 60 | | 3490 | 89.5 | 90.0 | 89.8 | 90.0 | 89.0 | 84.5 | 19.7 | 128 | 1.535 | 205 | 165 | 245 | IE3 | | |
| | | | 220 60 | | 3510 | 90.2 | 90.4 | 89.5 | 89.0 | 86.5 | 80.0 | 18.0 | 140 | 1.526 | 245 | 200 | 295 | IE3 | | |
| | | 4 | 132S | 200 50 | 1460 | 90.0 | 90.5 | 90.3 | 85.0 | 81.0 | 71.0 | 20.8 | 160 | 3.669 | 240 | 200 | 295 | IE3 | 0.133 | |
| | | | | 200 60 | 1750 | 90.8 | 90.5 | 90.3 | 88.0 | 85.0 | 79.0 | 19.9 | 144 | 3.061 | 205 | 160 | 255 | IE2 | | |
| | | | | 220 60 | 1760 | 91.7 | 91.5 | 91.0 | 85.0 | 81.5 | 72.5 | 18.5 | 160 | 3.044 | 250 | 195 | 310 | IE3 | | |
| 6 | 132M | 200 50 | 970 | 89.0 | 89.5 | 88.5 | 74.0 | 66.0 | 53.0 | 24.1 | 180 | 5.523 | 225 | 215 | 335 | IE3 | 0.217 | | | |
| | | 200 60 | 1165 | 90.5 | 91.0 | 90.5 | 80.5 | 75.5 | 65.0 | 21.8 | 144 | 4.598 | 175 | 160 | 275 | IE2 | | | | |
| | | 220 60 | 1175 | 91.0 | 91.2 | 90.0 | 75.0 | 68.0 | 55.0 | 21.1 | 170 | 4.559 | 230 | 210 | 345 | IE3 | | | | |

PERFORMANCE DATA AEHF / AEUF

TEFC, CLASS F INSULATION 40°C AMBIENT TEMP.S.F. : 1.0 at 50HZ (S.F.1.15 at 60HZ) (200/220V)

| OUTPUT | | Pole | Volt | Hz | Frame No. | FULL LOAD RPM | EFFICIENCY | | | POWER FACTOR | | | CURRENT | | TORQUE | | | | IE CODE | ROTOR GD ² kg-m ² |
|--------|------|------|------|------|-----------|---------------|---------------|--------------|--------------|---------------|--------------|--------------|---------------|------------------|----------------|-------------------|--------------|-----------------|---------|---|
| HP | KW | | | | | | FULL LOAD (%) | 3/4 LOAD (%) | 1/2 LOAD (%) | FULL LOAD (%) | 3/4 LOAD (%) | 1/2 LOAD (%) | FULL LOAD (A) | LOCKED ROTOR (A) | FULL LOAD kg-m | LOCKED ROTOR %FLT | PULL UP %FLT | BREAK DOWN %FLT | | |
| 10 | 7.5 | 2 | 200 | 50 | 132S | 2905 | 90.1 | 90.0 | 89.5 | 86.0 | 82.0 | 74.0 | 27.9 | 210 | 2.515 | 270 | 220 | 300 | IE3 | 0.076 |
| | | | 200 | 60 | | 3480 | 89.5 | 90.0 | 89.5 | 89.0 | 88.0 | 83.5 | 27.2 | 176 | 2.099 | 215 | 180 | 245 | IE2 | |
| | | | 220 | 60 | | 3510 | 90.2 | 90.3 | 89.5 | 87.0 | 84.0 | 77.0 | 25.1 | 200 | 2.081 | 255 | 215 | 300 | IE3 | |
| | | 4 | 200 | 50 | 132M | 1460 | 91.0 | 91.5 | 91.0 | 85.0 | 80.5 | 70.5 | 28.0 | 230 | 5.003 | 260 | 200 | 315 | IE3 | 0.173 |
| | | | 200 | 60 | | 1755 | 91.0 | 91.5 | 91.0 | 88.0 | 85.0 | 78.5 | 27.0 | 210 | 4.162 | 220 | 165 | 265 | IE2 | |
| | | | 220 | 60 | | 1765 | 91.7 | 92.0 | 91.5 | 85.5 | 81.0 | 72.0 | 25.1 | 230 | 4.139 | 270 | 200 | 320 | IE3 | |
| 6 | 200 | 50 | 160M | 970 | 90.0 | 90.5 | 90.0 | 79.0 | 73.5 | 61.5 | 30.5 | 220 | 7.531 | 270 | 235 | 280 | IE3 | 0.484 | | |
| | 200 | 60 | | 1165 | 91.0 | 91.5 | 91.0 | 81.0 | 77.0 | 68.0 | 29.4 | 190 | 6.270 | 225 | 190 | 235 | IE3 | | | |
| | 220 | 60 | | 1175 | 91.7 | 92.0 | 91.0 | 79.0 | 73.5 | 62.5 | 27.2 | 210 | 6.217 | 280 | 235 | 285 | IE3 | | | |
| 15 | 11 | 2 | 200 | 50 | 160M | 2930 | 91.7 | 92.0 | 91.6 | 90.5 | 89.0 | 83.5 | 38.3 | 290 | 3.657 | 230 | 190 | 280 | IE3 | 0.183 |
| | | | 200 | 60 | | 3520 | 91.0 | 91.0 | 90.8 | 91.0 | 90.5 | 87.0 | 38.3 | 260 | 3.044 | 195 | 150 | 235 | IE3 | |
| | | | 220 | 60 | | 3535 | 91.7 | 92.0 | 91.0 | 90.5 | 89.0 | 84.0 | 34.8 | 280 | 3.031 | 235 | 185 | 285 | IE3 | |
| | | 4 | 200 | 50 | 160M | 1460 | 91.4 | 91.7 | 91.5 | 85.5 | 82.5 | 73.5 | 40.6 | 300 | 7.338 | 230 | 190 | 270 | IE3 | 0.367 |
| | | | 200 | 60 | | 1750 | 91.4 | 91.6 | 91.5 | 88.0 | 86.0 | 80.0 | 39.5 | 270 | 6.122 | 200 | 150 | 225 | IE2 | |
| | | | 220 | 60 | | 1765 | 92.4 | 92.4 | 92.0 | 86.0 | 83.0 | 74.5 | 36.3 | 290 | 6.070 | 245 | 185 | 275 | IE3 | |
| 6 | 200 | 50 | 160L | 970 | 90.3 | 91.0 | 90.8 | 79.5 | 74.0 | 63.0 | 44.2 | 320 | 11.045 | 295 | 255 | 285 | IE3 | 0.630 | | |
| | 200 | 60 | | 1160 | 91.0 | 91.5 | 91.3 | 82.0 | 80.0 | 72.0 | 42.6 | 280 | 9.236 | 235 | 200 | 240 | IE2 | | | |
| | 220 | 60 | | 1170 | 91.7 | 92.0 | 91.5 | 80.0 | 75.0 | 64.0 | 39.4 | 320 | 9.157 | 280 | 240 | 290 | IE3 | | | |
| 20 | 15 | 2 | 200 | 50 | 160M | 2930 | 91.9 | 92.0 | 91.5 | 90.0 | 87.5 | 80.0 | 52.4 | 400 | 4.986 | 230 | 195 | 290 | IE3 | 0.183 |
| | | | 200 | 60 | | 3510 | 90.2 | 91.0 | 90.8 | 91.0 | 90.0 | 86.0 | 52.8 | 360 | 4.162 | 195 | 155 | 235 | IE2 | |
| | | | 220 | 60 | | 3530 | 91.7 | 92.0 | 91.5 | 90.0 | 88.0 | 81.0 | 47.7 | 390 | 4.139 | 240 | 190 | 290 | IE3 | |
| | | 4 | 200 | 50 | 160L | 1460 | 92.1 | 92.5 | 92.2 | 86.0 | 83.0 | 74.5 | 54.7 | 410 | 10.007 | 250 | 190 | 280 | IE3 | 0.462 |
| | | | 200 | 60 | | 1750 | 91.7 | 92.0 | 91.8 | 88.0 | 86.0 | 81.0 | 53.7 | 360 | 8.349 | 200 | 155 | 235 | IE2 | |
| | | | 220 | 60 | | 1765 | 93.0 | 93.0 | 92.5 | 86.0 | 83.0 | 75.0 | 49.2 | 400 | 8.278 | 255 | 190 | 285 | IE3 | |
| 6 | 200 | 50 | 180M | 970 | 91.2 | 92.0 | 92.5 | 83.0 | 80.0 | 72.0 | 57.2 | 350 | 15.062 | 220 | 185 | 235 | IE3 | 0.630 | | |
| | 200 | 60 | | 1165 | 91.7 | 92.0 | 92.5 | 84.0 | 82.5 | 77.0 | 56.2 | 310 | 12.541 | 200 | 155 | 195 | IE3 | | | |
| | 220 | 60 | | 1175 | 92.0 | 93.0 | 92.8 | 83.0 | 80.0 | 72.0 | 51.6 | 340 | 12.434 | 240 | 185 | 235 | IE3 | | | |
| 25 | 18.5 | 2 | 200 | 50 | 160L | 2930 | 92.4 | 92.5 | 92.1 | 91.5 | 89.5 | 84.0 | 63.2 | 500 | 6.150 | 250 | 210 | 300 | IE3 | 0.237 |
| | | | 200 | 60 | | 3510 | 91.0 | 91.5 | 91.3 | 92.0 | 91.0 | 88.0 | 63.8 | 460 | 5.134 | 210 | 165 | 240 | IE2 | |
| | | | 220 | 60 | | 3535 | 92.4 | 92.6 | 92.0 | 91.0 | 90.0 | 84.5 | 57.7 | 500 | 5.097 | 260 | 200 | 295 | IE3 | |
| | | 4 | 200 | 50 | 180M | 1465 | 92.6 | 93.0 | 92.5 | 86.0 | 83.0 | 75.0 | 67.1 | 490 | 12.300 | 235 | 185 | 265 | IE3 | 0.707 |
| | | | 200 | 60 | | 1760 | 92.5 | 92.8 | 92.1 | 88.0 | 87.5 | 82.5 | 65.6 | 430 | 10.238 | 205 | 155 | 220 | IE2 | |
| | | | 220 | 60 | | 1770 | 93.6 | 93.5 | 92.5 | 87.0 | 84.5 | 77.5 | 59.6 | 470 | 10.180 | 250 | 190 | 265 | IE3 | |
| 6 | 200 | 50 | 180L | 980 | 92.5 | 93.0 | 92.5 | 81.0 | 75.5 | 65.0 | 71.3 | 550 | 18.387 | 285 | 240 | 310 | IE3 | 0.810 | | |
| | 200 | 60 | | 1175 | 93.0 | 93.2 | 92.8 | 84.0 | 81.5 | 73.0 | 68.4 | 480 | 15.335 | 230 | 175 | 255 | IE3 | | | |
| | 220 | 60 | | 1180 | 93.5 | 93.6 | 93.0 | 82.0 | 77.0 | 67.0 | 63.3 | 530 | 15.270 | 280 | 210 | 300 | IE3 | | | |
| 30 | 22 | 2 | 200 | 50 | 180M | 2935 | 93.0 | 93.1 | 92.5 | 88.0 | 85.0 | 77.0 | 77.6 | 600 | 7.301 | 225 | 180 | 270 | IE3 | 0.283 |
| | | | 200 | 60 | | 3535 | 92.0 | 92.1 | 91.5 | 90.0 | 90.0 | 86.0 | 76.7 | 500 | 6.062 | 180 | 140 | 225 | IE3 | |
| | | | 220 | 60 | | 3545 | 93.0 | 93.1 | 92.0 | 88.5 | 86.5 | 80.0 | 70.1 | 560 | 6.045 | 225 | 180 | 280 | IE3 | |
| | | 4 | 200 | 50 | 180M | 1475 | 93.5 | 94.0 | 93.8 | 83.5 | 80.5 | 73.0 | 81.3 | 590 | 14.527 | 215 | 170 | 255 | IE3 | 0.792 |
| | | | 200 | 60 | | 1770 | 93.1 | 93.0 | 92.8 | 85.5 | 84.5 | 80.0 | 79.8 | 500 | 12.106 | 200 | 130 | 205 | IE2 | |
| | | | 220 | 60 | | 1775 | 93.6 | 93.5 | 93.2 | 84.0 | 81.0 | 73.0 | 73.4 | 560 | 12.072 | 220 | 160 | 250 | IE3 | |
| 6 | 200 | 50 | 180L | 975 | 92.5 | 93.0 | 92.8 | 82.5 | 78.0 | 68.0 | 83.2 | 610 | 21.977 | 265 | 220 | 285 | IE3 | 1.917 | | |
| | 200 | 60 | | 1170 | 93.1 | 93.0 | 93.5 | 85.0 | 82.0 | 75.0 | 80.3 | 540 | 18.315 | 235 | 185 | 235 | IE3 | | | |
| | 220 | 60 | | 1180 | 93.5 | 93.5 | 93.1 | 83.0 | 78.5 | 69.0 | 74.4 | 590 | 18.159 | 285 | 225 | 285 | IE3 | | | |
| 40 | 30 | 2 | 200 | 50 | 180L | 2950 | 93.5 | 94.0 | 93.6 | 92.0 | 90.5 | 85.0 | 101.0 | 870 | 9.905 | 255 | 210 | 330 | IE3 | 0.434 |
| | | | 200 | 60 | | 3535 | 93.0 | 93.5 | 93.0 | 92.5 | 92.0 | 89.0 | 101.0 | 760 | 8.266 | 230 | 180 | 270 | IE3 | |
| | | | 220 | 60 | | 3550 | 93.5 | 94.0 | 93.0 | 92.0 | 90.5 | 86.0 | 91.5 | 840 | 8.231 | 280 | 215 | 325 | IE3 | |
| | | 4 | 200 | 50 | 180L | 1475 | 93.6 | 94.0 | 93.8 | 85.0 | 83.0 | 75.0 | 109.0 | 750 | 19.810 | 215 | 180 | 260 | IE3 | 1.005 |
| | | | 200 | 60 | | 1765 | 93.1 | 93.5 | 94.0 | 86.5 | 86.0 | 82.0 | 108.0 | 650 | 16.555 | 200 | 150 | 210 | IE2 | |
| | | | 220 | 60 | | 1775 | 94.1 | 94.5 | 94.0 | 85.5 | 83.5 | 77.0 | 97.9 | 720 | 16.462 | 225 | 185 | 255 | IE3 | |
| 6 | 200 | 50 | 200L | 980 | 93.0 | 93.5 | 93.3 | 86.0 | 83.5 | 77.0 | 108.0 | 640 | 29.816 | 205 | 165 | 220 | IE3 | 3.023 | | |
| | 200 | 60 | | 1175 | 93.1 | 93.5 | 93.2 | 87.0 | 87.0 | 83.0 | 107.0 | 560 | 24.868 | 180 | 135 | 200 | IE2 | | | |
| | 220 | 60 | | 1180 | 94.1 | 94.0 | 93.5 | 86.5 | 84.5 | 78.0 | 96.7 | 620 | 24.763 | 210 | 165 | 215 | IE3 | | | |
| 50 | 37 | 2 | 200 | 50 | 200L | 2950 | 93.7 | 93.0 | 92.5 | 87.0 | 84.0 | 76.0 | 131.0 | 1030 | 12.216 | 185 | 145 | 300 | IE3 | 1.018 |
| | | | 200 | 60 | | 3545 | 92.5 | 92.6 | 92.0 | 92.5 | 92.0 | 90.0 | 125.0 | 870 | 10.166 | 140 | 120 | 245 | IE2 | |
| | | | 220 | 60 | | 3555 | 93.0 | 92.5 | 91.5 | 89.0 | 86.5 | 79.0 | 117.0 | 960 | 10.137 | 170 | 145 | 295 | IE3 | |
| | | 4 | 200 | 50 | 200L | 1480 | 94.5 | 95.0 | 94.5 | 84.5 | 81.0 | 73.0 | 134.0 | 920 | 24.350 | 205 | 170 | 255 | IE3 | 1.896 |
| | | | 200 | 60 | | 1775 | 94.5 | 95.0 | 94.5 | 87.0 | 86.0 | 81.0 | 130.0 | 790 | 20.303 | 190 | 145 | 210 | IE3 | |
| | | | 220 | 60 | | 1780 | 95.0 | 94.8 | 94.5 | 85.5 | 83.0 | 75.0 | 120.0 | 870 | 20.246 | 215 | 180 | 250 | IE3 | |
| 6 | 200 | 50 | 200L | 980 | 93.5 | 93.6 | 93.0 | 87.0 | 80.5 | 71.0 | 131.0 | 880 | 36.773 | 230 | 185 | 245 | IE3 | 3.605 | | |
| | 200 | 60 | | 1180 | 94.1 | 94.5 | 94.3 | 87.0 | 85.5 | 80.0 | 130.0 | 780 | 30.541 | 200 | 165 | 210 | IE3 | | | |
| | 220 | 60 | | 1185 | 94.1 | 94.5 | 93.5 | 85.0 | 81.5 | 73.0 | 121.0 | 860 | 30.412 | 240 | 185 | 240 | IE3 | | | |

PERFORMANCE DATA AEHF / AEUF

TEFC, CLASS F INSULATION 40°C AMBIENT TEMP.S.F. : 1.0 at 50HZ (S.F.1.15 at 60HZ) (200/220V)

| OUTPUT | | Pole | Volt | Hz | Frame No. | FULL LOAD RPM | EFFICIENCY | | | POWER FACTOR | | | CURRENT | | TORQUE | | | | IE CODE | ROTOR GD ² kg-m ² | |
|--------|-----|------|------|------|-----------|---------------|---------------|--------------|--------------|---------------|--------------|--------------|---------------|------------------|----------------|-------------------|--------------|-----------------|---------|---|-------|
| HP | KW | | | | | | FULL LOAD (%) | 3/4 LOAD (%) | 1/2 LOAD (%) | FULL LOAD (%) | 3/4 LOAD (%) | 1/2 LOAD (%) | FULL LOAD (A) | LOCKED ROTOR (A) | FULL LOAD kg-m | LOCKED ROTOR %FLT | PULL UP %FLT | BREAK DOWN %FLT | | | |
| 60 | 45 | 2 | 200 | 50 | 200L | 2955 | 94.0 | 94.2 | 93.5 | 91.5 | 90.0 | 87.0 | 151 | 1080 | 14.832 | 165 | 140 | 270 | IE3 | 1.187 | |
| | | | 200 | 60 | | 3540 | 93.0 | 93.5 | 92.5 | 92.5 | 93.5 | 92.0 | 151 | 910 | 12.381 | 135 | 115 | 220 | IE2 | | |
| | | | 220 | 60 | | 3555 | 93.6 | 93.5 | 92.5 | 91.5 | 91.5 | 88.0 | 138 | 1000 | 12.329 | 160 | 130 | 265 | IE3 | | |
| | | 4 | 200 | 50 | 200L | 1475 | 94.5 | 94.6 | 94.1 | 84.0 | 80.5 | 72.0 | 164 | 1100 | 29.715 | 205 | 185 | 270 | IE3 | | 1.979 |
| | | | 200 | 60 | | 1770 | 95.0 | 95.5 | 95.2 | 87.5 | 86.0 | 81.0 | 156 | 950 | 24.763 | 190 | 155 | 215 | IE3 | | |
| | | | 220 | 60 | | 1775 | 95.5 | 95.5 | 95.4 | 85.5 | 83.0 | 75.0 | 145 | 1050 | 24.693 | 215 | 185 | 260 | IE3 | | |
| 6 | 200 | 50 | 225S | 985 | 94.0 | 95.0 | 94.6 | 86.5 | 84.0 | 76.0 | 160 | 1130 | 44.497 | 235 | 215 | 270 | IE3 | 5.106 | | | |
| | 200 | 60 | | 1180 | 94.0 | 94.5 | 94.0 | 88.0 | 86.5 | 81.0 | 157 | 990 | 37.144 | 200 | 175 | 215 | IE2 | | | | |
| | 220 | 60 | | 1185 | 94.5 | 94.5 | 94.2 | 86.5 | 83.5 | 76.0 | 144 | 1090 | 36.987 | 240 | 215 | 260 | IE3 | | | | |
| 75 | 55 | 2 | 200 | 50 | 225S | 2970 | 95.0 | 95.5 | 95.0 | 90.0 | 89.0 | 84.0 | 186 | 1400 | 18.037 | 160 | 135 | 305 | IE3 | 1.541 | |
| | | | 200 | 60 | | 3560 | 93.6 | 95.0 | 94.5 | 91.0 | 91.0 | 88.0 | 186 | 1190 | 15.048 | 135 | 115 | 240 | IE3 | | |
| | | | 220 | 60 | | 3570 | 94.5 | 95.0 | 94.5 | 90.0 | 90.0 | 86.0 | 170 | 1310 | 15.006 | 165 | 140 | 290 | IE3 | | |
| | | 4 | 200 | 50 | 225S | 1485 | 95.0 | 95.5 | 95.0 | 86.0 | 83.5 | 76.0 | 194 | 1450 | 36.074 | 270 | 250 | 275 | IE3 | 3.911 | |
| | | | 200 | 60 | | 1780 | 95.4 | 95.0 | 94.8 | 87.5 | 86.5 | 83.0 | 190 | 1310 | 30.096 | 240 | 170 | 235 | IE3 | | |
| | | | 220 | 60 | | 1785 | 95.5 | 95.5 | 95.0 | 86.5 | 84.5 | 78.0 | 175 | 1440 | 30.011 | 290 | 205 | 260 | IE3 | | |
| 6 | 200 | 50 | 250S | 985 | 94.1 | 94.5 | 94.2 | 82.5 | 78.0 | 69.0 | 205 | 1370 | 54.386 | 195 | 165 | 275 | IE3 | 6.492 | | | |
| | 200 | 60 | | 1180 | 94.0 | 94.5 | 94.2 | 86.5 | 84.5 | 78.0 | 195 | 1150 | 45.398 | 155 | 135 | 240 | IE2 | | | | |
| | 220 | 60 | | 1185 | 95.0 | 95.5 | 94.5 | 83.0 | 79.5 | 71.0 | 183 | 1260 | 45.207 | 190 | 165 | 260 | IE3 | | | | |
| 100 | 75 | 2 | 200 | 50 | 250S | 2960 | 94.7 | 94.5 | 94.0 | 86.5 | 84.5 | 78.0 | 264 | 1750 | 24.679 | 135 | 115 | 285 | IE3 | 1.759 | |
| | | | 200 | 60 | | 3555 | 94.1 | 94.0 | 93.7 | 90.5 | 90.0 | 88.0 | 254 | 1500 | 20.549 | 115 | 105 | 230 | IE3 | | |
| | | | 220 | 60 | | 3565 | 94.5 | 94.5 | 94.0 | 88.5 | 87.0 | 82.0 | 235 | 1650 | 20.491 | 140 | 120 | 285 | IE3 | | |
| | | 4 | 200 | 50 | 250S | 1480 | 95.0 | 95.1 | 94.5 | 87.0 | 84.5 | 77.0 | 262 | 1820 | 49.358 | 180 | 135 | 295 | IE3 | 4.853 | |
| | | | 200 | 60 | | 1775 | 95.1 | 94.5 | 93.5 | 89.0 | 86.0 | 81.0 | 256 | 1700 | 41.155 | 170 | 125 | 245 | IE2 | | |
| | | | 220 | 60 | | 1780 | 95.4 | 95.0 | 93.5 | 86.0 | 84.5 | 78.0 | 240 | 1870 | 41.039 | 190 | 150 | 300 | IE3 | | |
| 6 | 200 | 50 | 250M | 985 | 94.6 | 94.5 | 94.0 | 85.0 | 83.0 | 75.0 | 269 | 1700 | 74.162 | 185 | 160 | 260 | IE3 | 8.175 | | | |
| | 200 | 60 | | 1180 | 94.3 | 94.0 | 93.7 | 86.5 | 86.0 | 81.0 | 265 | 1470 | 61.907 | 155 | 130 | 210 | IE2 | | | | |
| | 220 | 60 | | 1185 | 95.0 | 94.5 | 94.0 | 86.0 | 83.5 | 76.0 | 241 | 1620 | 61.646 | 185 | 160 | 250 | IE3 | | | | |
| 125 | 90 | 2 | 200 | 50 | 250M | 2970 | 95.0 | 95.2 | 94.0 | 87.5 | 85.0 | 79.0 | 313 | 2540 | 29.515 | 160 | 140 | 335 | IE3 | 2.287 | |
| | | | 200 | 60 | | 3565 | 94.5 | 94.6 | 93.5 | 89.5 | 90.0 | 87.0 | 307 | 2250 | 24.589 | 135 | 115 | 255 | IE2 | | |
| | | | 220 | 60 | | 3575 | 95.0 | 94.8 | 93.5 | 89.0 | 87.0 | 82.0 | 279 | 2470 | 24.520 | 135 | 140 | 310 | IE3 | | |
| | | 4 | 200 | 50 | 250M | 1480 | 95.2 | 94.5 | 94.5 | 88.0 | 86.0 | 78.0 | 310 | 2660 | 59.230 | 205 | 185 | 295 | IE3 | 6.111 | |
| | | | 200 | 60 | | 1780 | 95.1 | 95.0 | 94.8 | 88.0 | 85.0 | 81.0 | 310 | 2310 | 49.247 | 180 | 155 | 250 | IE2 | | |
| | | | 220 | 60 | | 1785 | 95.4 | 95.5 | 95.0 | 86.0 | 83.0 | 75.0 | 288 | 2540 | 49.109 | 200 | 185 | 305 | IE3 | | |
| 6 | 200 | 50 | 280S | 985 | 94.9 | 95.0 | 94.5 | 81.5 | 76.5 | 66.0 | 336 | 2800 | 88.995 | 280 | 240 | 265 | IE3 | 15.080 | | | |
| | 200 | 60 | | 1180 | 95.0 | 95.2 | 95.0 | 88.5 | 86.0 | 82.0 | 309 | 2340 | 74.288 | 240 | 175 | 210 | IE3 | | | | |
| | 220 | 60 | | 1185 | 95.2 | 95.5 | 95.2 | 85.0 | 83.0 | 76.0 | 292 | 2600 | 73.975 | 280 | 210 | 250 | IE3 | | | | |
| 150 | 110 | 2 | 200 | 50 | 280S | 2970 | 95.2 | 95.0 | 94.5 | 85.5 | 81.5 | 75.0 | 390 | 2560 | 36.074 | 200 | 180 | 250 | IE3 | 4.027 | |
| | | | 200 | 60 | | 3565 | 95.0 | 94.5 | 94.0 | 92.0 | 90.0 | 88.0 | 363 | 2200 | 30.053 | 160 | 140 | 210 | IE3 | | |
| | | | 220 | 60 | | 3570 | 95.2 | 95.0 | 94.5 | 90.0 | 87.0 | 82.0 | 337 | 2420 | 30.011 | 190 | 170 | 250 | IE3 | | |
| | | 4 | 200 | 50 | 280S | 1480 | 95.4 | 95.0 | 94.5 | 86.0 | 84.0 | 78.0 | 387 | 3000 | 72.392 | 180 | 160 | 230 | IE3 | 9.180 | |
| | | | 200 | 60 | | 1780 | 95.8 | 95.5 | 95.0 | 90.0 | 88.0 | 83.0 | 368 | 2610 | 60.191 | 180 | 160 | 220 | IE3 | | |
| | | | 220 | 60 | | 1785 | 95.8 | 95.8 | 95.5 | 88.0 | 86.0 | 81.0 | 342 | 2900 | 60.022 | 210 | 190 | 260 | IE3 | | |
| 6 | 200 | 50 | 280M | 985 | 95.1 | 95.3 | 95.1 | 86.0 | 83.0 | 75.0 | 388 | 3000 | 108.77 | 270 | 210 | 240 | IE3 | 17.294 | | | |
| | 200 | 60 | | 1180 | 95.4 | 95.5 | 95.0 | 90.0 | 89.0 | 85.0 | 370 | 2610 | 90.797 | 220 | 165 | 200 | IE2 | | | | |
| | 220 | 60 | | 1185 | 95.8 | 95.7 | 95.3 | 88.0 | 86.0 | 80.0 | 342 | 2900 | 90.414 | 260 | 190 | 240 | IE3 | | | | |
| 175 | 132 | 2 | 200 | 50 | 280M | 2970 | 95.4 | 95.5 | 95.0 | 88.0 | 87.0 | 81.0 | 454 | 2830 | 43.289 | 200 | 180 | 240 | IE3 | 4.552 | |
| | | | 200 | 60 | | 3560 | 95.4 | 95.0 | 94.5 | 90.0 | 89.0 | 85.0 | 444 | 2400 | 36.115 | 160 | 140 | 200 | IE3 | | |
| | | | 220 | 60 | | 3570 | 95.4 | 95.2 | 94.7 | 88.0 | 86.0 | 83.0 | 413 | 2650 | 36.013 | 190 | 165 | 240 | IE3 | | |
| | | 4 | 200 | 50 | 280M | 1480 | 95.6 | 95.2 | 95.0 | 89.0 | 88.0 | 81.0 | 448 | 3150 | 86.870 | 170 | 150 | 210 | IE3 | 10.400 | |
| | | | 200 | 60 | | 1780 | 95.8 | 95.0 | 94.8 | 90.0 | 88.0 | 84.0 | 442 | 2770 | 72.229 | 160 | 140 | 200 | IE2 | | |
| | | | 220 | 60 | | 1785 | 96.2 | 95.5 | 95.0 | 88.0 | 86.0 | 82.0 | 409 | 3050 | 72.027 | 190 | 165 | 240 | IE3 | | |

- NOTE : 1. The above are typical values based on test according to ANSI/IEEE Standart 112 method B.
 2. Breakdown & Locked rotor torques are show as average expedted values.
 3. Tolerance According to IEC 60034-1.
 4. Efficiency, power factor, speed and torque are the same for other voltages.
 5. Data subject to change without notice.

PERFORMANCE DATA AEHF / AEUF

TEFC, CLASS F INSULATION 40°C AMBIENT TEMP.S.F. : 1.15 at 60HZ

(220V/380V)

| OUTPUT | | Pole | FULL LOAD RPM | Frame No. | EFFICIENCY | | | POWER FACTOR | | | CURRENT | | TORQUE | | | IE CODE | ROTOR GD ² kg-m ² |
|--------|------|------|---------------|-----------|---------------|--------------|--------------|---------------|--------------|--------------|---------------|------------------|----------------|--------------|-----------------|---------|---|
| HP | KW | | | | FULL LOAD (%) | 3/4 LOAD (%) | 1/2 LOAD (%) | FULL LOAD (%) | 3/4 LOAD (%) | 1/2 LOAD (%) | FULL LOAD (A) | LOCKED ROTOR (A) | FULL LOAD kg-m | PULL UP %FLT | BREAK DOWN %FLT | | |
| 1 | 0.75 | 2 | 3460 | 80 | 80.0 | 79.5 | 76.0 | 84.5 | 78.0 | 67.0 | 2.91 | 26 | 0.211 | 435 | 375 | 430 | 0.006 |
| | | 4 | 1730 | 80 | 85.5 | 84.5 | 82.5 | 72.0 | 62.0 | 48.0 | 3.20 | 26 | 0.422 | 415 | 400 | 420 | 0.013 |
| | | 6 | 1145 | 90L | 82.5 | 83.0 | 81.5 | 70.0 | 62.0 | 49.0 | 3.41 | 20 | 0.637 | 195 | 175 | 265 | 0.022 |
| 2 | 1.5 | 2 | 3445 | 90L | 85.5 | 86.0 | 84.5 | 86.0 | 81.0 | 71.0 | 5.35 | 46 | 0.424 | 395 | 375 | 395 | 0.011 |
| | | 4 | 1745 | 90L | 87.5 | 88.0 | 86.0 | 78.0 | 70.0 | 57.0 | 5.77 | 51 | 0.836 | 325 | 290 | 385 | 0.023 |
| | | 6 | 1165 | 112M | 88.5 | 88.0 | 85.5 | 69.0 | 59.0 | 47.0 | 6.45 | 44 | 1.253 | 160 | 155 | 270 | 0.071 |
| 3 | 2.2 | 2 | 3455 | 90L | 86.5 | 86.5 | 85.5 | 86.5 | 81.5 | 71.0 | 7.72 | 70 | 0.620 | 390 | 370 | 400 | 0.015 |
| | | 4 | 1745 | 100L | 89.5 | 90.0 | 89.5 | 82.0 | 75.0 | 63.0 | 7.87 | 75 | 1.227 | 320 | 250 | 330 | 0.050 |
| | | 6 | 1160 | 112M | 89.5 | 89.0 | 87.5 | 71.0 | 61.0 | 49.0 | 9.09 | 57 | 1.845 | 165 | 155 | 265 | 0.084 |
| 5 | 3.7 | 2 | 3475 | 112M | 88.5 | 89.0 | 88.0 | 90.5 | 87.0 | 80.0 | 12.12 | 120 | 1.036 | 320 | 280 | 385 | 0.046 |
| | | 4 | 1750 | 112M | 89.5 | 90.0 | 89.5 | 82.0 | 77.0 | 67.0 | 13.23 | 110 | 2.057 | 225 | 180 | 325 | 0.083 |
| | | 6 | 1165 | 132S | 89.5 | 90.0 | 89.0 | 78.0 | 72.0 | 60.0 | 13.91 | 105 | 3.090 | 185 | 170 | 280 | 0.143 |
| 7.5 | 5.5 | 2 | 3510 | 132S | 90.2 | 90.2 | 89.5 | 89.0 | 86.5 | 80.0 | 17.98 | 140 | 1.525 | 245 | 200 | 295 | 0.760 |
| | | 4 | 1760 | 132S | 91.7 | 91.5 | 91.0 | 85.0 | 81.5 | 72.5 | 18.52 | 160 | 3.041 | 250 | 195 | 310 | 0.133 |
| | | 6 | 1175 | 132M | 91.0 | 91.0 | 90.0 | 75.0 | 68.0 | 55.0 | 21.15 | 170 | 4.554 | 230 | 210 | 345 | 0.217 |
| 10 | 7.5 | 2 | 3510 | 132S | 90.2 | 90.2 | 89.5 | 87.0 | 84.0 | 77.0 | 25.08 | 200 | 2.079 | 255 | 215 | 300 | 0.076 |
| | | 4 | 1765 | 132M | 91.7 | 92.0 | 91.5 | 85.5 | 81.0 | 72.0 | 25.10 | 230 | 4.135 | 270 | 200 | 320 | 0.173 |
| | | 6 | 1175 | 160M | 91.7 | 92.0 | 91.0 | 79.0 | 73.5 | 62.5 | 27.17 | 210 | 6.211 | 280 | 235 | 285 | 0.484 |
| 15 | 11 | 2 | 3535 | 160M | 91.7 | 92.0 | 91.0 | 90.5 | 89.0 | 84.0 | 34.79 | 280 | 3.028 | 235 | 185 | 285 | 0.183 |
| | | 4 | 1765 | 160M | 92.4 | 92.4 | 92.0 | 86.0 | 83.0 | 74.5 | 36.33 | 290 | 6.064 | 245 | 185 | 275 | 0.367 |
| | | 6 | 1170 | 160L | 91.7 | 92.0 | 91.5 | 80.0 | 75.0 | 64.0 | 39.35 | 320 | 9.148 | 305 | 255 | 290 | 0.630 |
| 20 | 15 | 2 | 3530 | 160M | 91.7 | 92.0 | 91.5 | 90.0 | 88.0 | 81.0 | 47.70 | 390 | 4.135 | 240 | 190 | 290 | 0.186 |
| | | 4 | 1765 | 160L | 93.0 | 93.0 | 92.5 | 86.0 | 83.0 | 75.0 | 49.22 | 400 | 8.269 | 255 | 190 | 285 | 0.462 |
| | | 6 | 1175 | 180MC | 92.0 | 93.0 | 93.0 | 83.0 | 80.0 | 72.0 | 51.55 | 340 | 12.421 | 240 | 185 | 235 | 0.630 |
| 25 | 18.5 | 2 | 3535 | 160L | 92.4 | 92.4 | 92.0 | 91.0 | 90.0 | 84.5 | 57.74 | 500 | 5.092 | 260 | 200 | 295 | 0.237 |
| | | 4 | 1770 | 180MC | 93.6 | 93.6 | 92.5 | 87.0 | 84.5 | 77.5 | 59.62 | 470 | 10.170 | 250 | 190 | 265 | 0.707 |
| | | 6 | 1180 | 180LC | 93.5 | 93.5 | 93.0 | 82.0 | 77.0 | 67.0 | 63.33 | 530 | 15.255 | 305 | 245 | 310 | 0.810 |
| 30 | 22 | 2 | 3545 | 180MA | 93.0 | 93.0 | 92.0 | 88.5 | 86.5 | 80.0 | 70.15 | 560 | 6.038 | 225 | 180 | 280 | 0.283 |
| | | 4 | 1775 | 180MC | 93.6 | 93.5 | 93.5 | 84.0 | 81.0 | 73.0 | 73.43 | 560 | 12.060 | 220 | 160 | 250 | 0.792 |
| | | 6 | 1180 | 180LC | 93.5 | 93.5 | 93.5 | 83.0 | 78.5 | 69.0 | 74.40 | 590 | 18.141 | 285 | 225 | 285 | 1.917 |
| 40 | 30 | 2 | 3550 | 180LA | 93.5 | 94.0 | 93.0 | 92.0 | 90.5 | 86.0 | 91.53 | 840 | 8.223 | 280 | 215 | 325 | 0.434 |
| | | 4 | 1775 | 180LC | 94.1 | 94.5 | 94.0 | 85.5 | 83.5 | 77.0 | 97.86 | 720 | 16.445 | 225 | 185 | 255 | 1.005 |
| | | 6 | 1180 | 200LC | 94.1 | 94.0 | 93.5 | 86.5 | 84.5 | 78.0 | 96.73 | 620 | 24.737 | 210 | 165 | 215 | 3.023 |
| 50 | 37 | 2 | 3555 | 200LA | 93.0 | 92.5 | 91.5 | 89.0 | 86.5 | 79.0 | 117 | 960 | 10.127 | 170 | 145 | 295 | 1.018 |
| | | 4 | 1780 | 200LC | 95.0 | 95.0 | 94.5 | 85.5 | 83.0 | 75.0 | 120 | 870 | 20.225 | 215 | 180 | 250 | 1.896 |
| | | 6 | 1185 | 200LC | 94.1 | 94.5 | 93.5 | 85.0 | 81.5 | 73.0 | 121 | 860 | 30.381 | 240 | 185 | 240 | 3.605 |
| 60 | 45 | 2 | 3555 | 200LA | 93.6 | 93.5 | 92.5 | 91.5 | 91.5 | 88.0 | 138 | 1000 | 12.316 | 160 | 130 | 265 | 1.187 |
| | | 4 | 1775 | 200LC | 95.5 | 95.5 | 95.5 | 85.5 | 83.0 | 75.0 | 145 | 1050 | 24.668 | 215 | 185 | 260 | 1.979 |
| | | 6 | 1185 | 225SC | 94.5 | 94.5 | 94.0 | 86.5 | 83.5 | 76.0 | 144 | 1090 | 36.949 | 240 | 215 | 260 | 5.106 |
| 75 | 55 | 2 | 3570 | 225SA | 94.5 | 95.0 | 94.5 | 90.0 | 90.0 | 86.0 | 170 | 1310 | 14.990 | 165 | 140 | 290 | 1.541 |
| | | 4 | 1785 | 225SC | 95.5 | 95.5 | 95.0 | 86.5 | 84.5 | 78.0 | 175 | 1440 | 29.980 | 290 | 205 | 260 | 3.911 |
| | | 6 | 1185 | 250SC | 95.0 | 95.5 | 94.5 | 83.0 | 79.5 | 71.0 | 183 | 1260 | 45.160 | 190 | 165 | 260 | 6.492 |
| 100 | 75 | 2 | 3565 | 250SA | 94.5 | 94.5 | 94.0 | 88.5 | 87.0 | 82.0 | 235 | 1650 | 20.470 | 140 | 120 | 285 | 1.759 |
| | | 4 | 1780 | 250SC | 95.4 | 95.0 | 93.5 | 86.0 | 84.5 | 78.0 | 240 | 1870 | 40.997 | 190 | 150 | 300 | 4.853 |
| | | 6 | 1185 | 250MC | 95.0 | 94.5 | 94.0 | 86.0 | 83.5 | 76.0 | 241 | 1620 | 61.582 | 185 | 160 | 250 | 8.175 |
| 125 | 90 | 2 | 3575 | 250MA | 95.0 | 94.5 | 93.5 | 89.0 | 87.0 | 82.0 | 279 | 2470 | 24.495 | 135 | 140 | 310 | 2.287 |
| | | 4 | 1785 | 250MC | 95.4 | 95.5 | 95.0 | 86.0 | 83.0 | 75.0 | 288 | 2540 | 49.059 | 200 | 185 | 305 | 6.111 |
| | | 6 | 1185 | 280M | 95.2 | 95.5 | 95.2 | 85.0 | 83.0 | 76.0 | 292 | 2500 | 73.912 | 280 | 210 | 250 | 15.080 |
| 150 | 110 | 2 | 3570 | 280S | 95.2 | 95.0 | 94.5 | 90.0 | 87.0 | 82.0 | 337 | 2420 | 30.011 | 190 | 170 | 250 | 4.027 |
| | | 4 | 1785 | 280S | 95.8 | 95.8 | 95.5 | 88.0 | 86.0 | 81.0 | 342 | 2900 | 60.022 | 210 | 190 | 260 | 9.180 |
| | | 6 | 1185 | 280M | 95.8 | 95.7 | 95.3 | 88.0 | 86.0 | 80.0 | 342 | 2750 | 90.414 | 260 | 190 | 240 | 17.294 |
| 175 | 132 | 2 | 3570 | 280M | 95.4 | 95.2 | 94.7 | 88.0 | 86.0 | 83.0 | 413 | 2650 | 36.013 | 190 | 165 | 240 | 4.552 |
| | | 4 | 1785 | 280M | 96.2 | 95.5 | 95.0 | 88.0 | 86.0 | 82.0 | 409 | 2970 | 72.027 | 190 | 165 | 240 | 10.40 |

- NOTE : 1. The above are typical values based on test accord to ANSI / IEEE standard 112 method B.
 2. Tolerance according to IEC 60034-1.
 3. Efficiency, power factor, speed and torque are the same for other voltages.
 4. Data subject to change without notice.

Dimension - AEHF

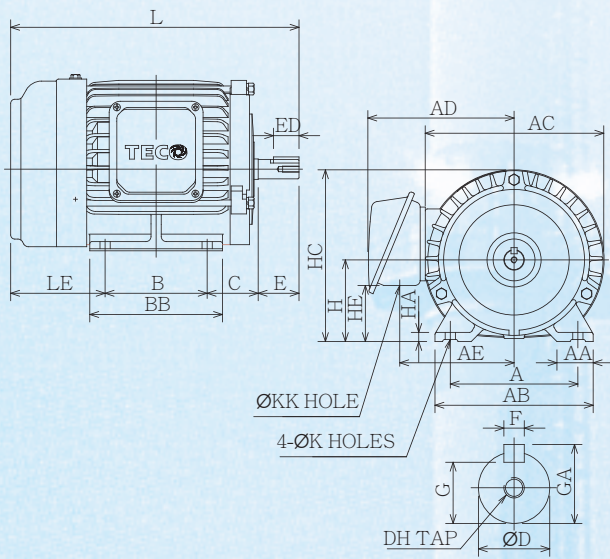


FIG1

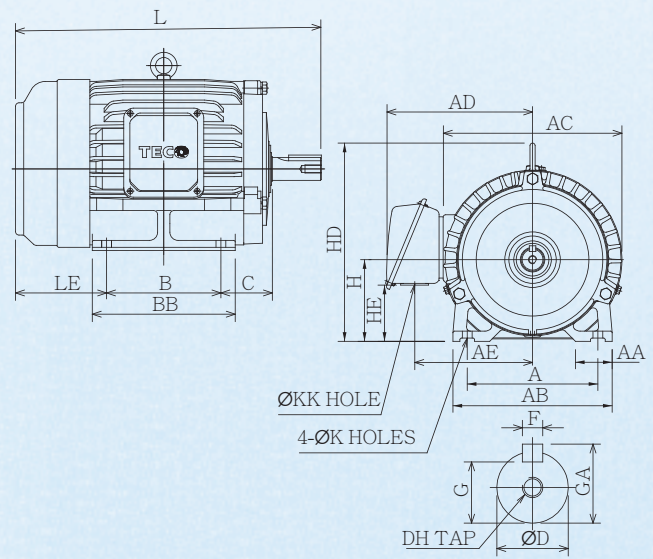


FIG2

Dimension in mm

| Output (HP) | | | Frame Size | FIG NO. | A | AA | AB | AC | AD | AE | B | BB | C | H | HA | HC | HD | HE |
|------------------|------|---------------|------------|---------|-----|------|-----|-----|-----|-----|-----|-----|----|-----|------|-----|-----|----|
| 2P | 4P | 6P | | | | | | | | | | | | | | | | |
| 0.25 | 0.25 | — | 63 | 1 | 100 | 28.0 | 120 | 144 | 123 | 93 | 80 | 100 | 40 | 63 | 8.0 | 135 | — | 29 |
| 0.5 | 0.5 | — | 71 | | 112 | 35.5 | 140 | 162 | 133 | 103 | 90 | 115 | 45 | 71 | 8.0 | 152 | — | 54 |
| 1 | 1 | 0.5 | 80 | | 125 | 35.5 | 155 | 177 | 144 | 112 | 100 | 130 | 50 | 80 | 9.0 | 168 | — | 55 |
| $\frac{2}{3}$ | 2 | 1 | 90L | | 140 | 35.5 | 170 | 200 | 157 | 125 | 125 | 150 | 56 | 90 | 10.0 | 190 | — | 65 |
| — | 3 | — | 100L | 2 | 160 | 45.0 | 195 | 219 | 180 | 145 | 140 | 175 | 63 | 100 | 12.5 | — | 243 | 71 |
| 5 | 5 | $\frac{2}{3}$ | 112M | | 190 | 45.0 | 224 | 238 | 189 | 154 | 140 | 175 | 70 | 112 | 14.0 | — | 265 | 83 |
| $\frac{7.5}{10}$ | 7.5 | 5 | 132S | | 216 | 45.0 | 250 | 273 | 225 | 180 | 140 | 175 | 89 | 132 | 16.0 | — | 310 | 83 |
| — | 10 | 7.5 | 132M | | 216 | 45.0 | 250 | 273 | 225 | 180 | 178 | 212 | 89 | 132 | 16.0 | — | 310 | 83 |

| Frame Size | K | KK | L | LE | SHAFT EXTENSION | | | | | | | BEARING | | APPROX. WEIGHT kgs |
|------------|-----------|-----------|-------|-------|-----------------|----|----|----|------|------|--------|-----------|--------------------|--------------------|
| | | | | | D | E | ED | F | G | GA | DH | DRIVE END | OPPOSITE DRIVE END | |
| 63 | $\phi 7$ | $\phi 22$ | 219.0 | 76.0 | 11 | 23 | 18 | 4 | 8.5 | 12.5 | M4×8 | 6201ZZ | 6201ZZ | 8.5 |
| 71 | $\phi 7$ | $\phi 22$ | 250.5 | 85.5 | 14 | 30 | 24 | 5 | 11.0 | 16.0 | M5×10 | 6202ZZ | 6202ZZ | 11.5 |
| 80 | $\phi 10$ | $\phi 22$ | 282.0 | 92.0 | 19 | 40 | 25 | 6 | 15.5 | 21.5 | M6×12 | 6204ZZ | 6204ZZ | 17.0 |
| 90L | $\phi 10$ | $\phi 22$ | 332.5 | 101.5 | 24 | 50 | 32 | 8 | 20.0 | 27.0 | M8×16 | 6205ZZ | 6205ZZ | 24.0 |
| 100L | $\phi 12$ | $\phi 28$ | 374.5 | 111.5 | 28 | 60 | 40 | 8 | 24.0 | 31.0 | M10×20 | 6206ZZ | 6305ZZ | 38.0 |
| 112M | $\phi 12$ | $\phi 28$ | 391.0 | 121.0 | 28 | 60 | 40 | 8 | 24.0 | 31.0 | M10×20 | 6306ZZ | 6306ZZ | 46.0 |
| 132S | $\phi 12$ | $\phi 35$ | 454.0 | 145.0 | 38 | 80 | 64 | 10 | 33.0 | 41.0 | M12×24 | 6308ZZ | 6306ZZ | 68.0 |
| 132M | $\phi 12$ | $\phi 35$ | 492.0 | 145.0 | 38 | 80 | 64 | 10 | 33.0 | 41.0 | M12×24 | 6308ZZ | 6306ZZ | 79.0 |

Note : 1. Tolerance of Shaft End Diameter : $\phi 11 \sim \phi 28$: J6 , $\phi 38$: K6 .

2. Tolerance of Shaft Center Height : +0 , -0.5 .

Dimension - AEHF

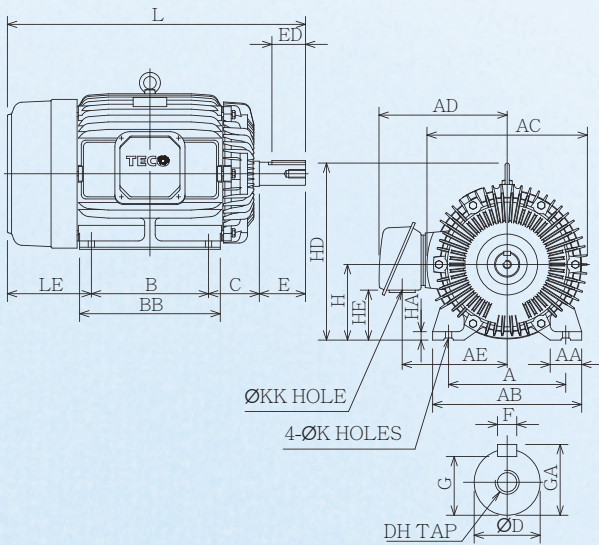


FIG3

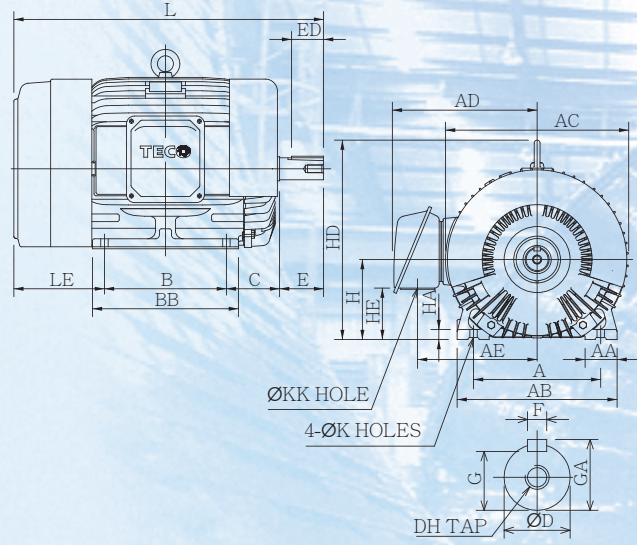


FIG4

Dimension in mm

| Output (HP) | | | Frame Size | FIG NO. | A | AA | AB | AC | AD | AE | B | BB | C | H | HA | HD | HE |
|-------------|----------|----------|------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| 2P | 4P | 6P | | | | | | | | | | | | | | | |
| 15 20 | 15 | 10 | 160M | 3 | 254 | 50 | 300 | 334 | 263 | 218 | 210 | 250 | 108 | 160 | 18 | 377 | 108 |
| 25 | 20 | 15 | 160L | | 254 | 50 | 300 | 334 | 263 | 218 | 254 | 300 | 108 | 160 | 18 | 377 | 108 |
| 30 | — | — | 180MA | 4 | 279 | 75 | 355 | 382 | 305 | 250 | 241 | 389 | 121 | 180 | 22 | 431 | 119 |
| — | 25 30 | 20 | 180MC | 3 | 279 | 75 | 355 | 382 | 305 | 250 | 241 | 389 | 121 | 180 | 22 | 431 | 119 |
| 40 | — | — | 180LA | 4 | 279 | 75 | 355 | 382 | 305 | 250 | 279 | 389 | 121 | 180 | 22 | 431 | 119 |
| — | 40 | 25 30 | 180LC | 3 | 279 | 75 | 355 | 382 | 305 | 250 | 279 | 389 | 121 | 180 | 22 | 431 | 119 |
| 50 60 | — | — | 200LA | 4 | 318 | 80 | 400 | 458 | 362 | 299 | 305 | 400 | 133 | 200 | 25 | 499 | 129 |
| — | 50 60 | 40 50 | 200LC | 3 | 318 | 80 | 400 | 458 | 362 | 299 | 305 | 400 | 133 | 200 | 25 | 499 | 129 |
| 75 | — | — | 225SA | 4 | 356 | 100 | 450 | 510 | 411 | 337 | 286 | 415 | 149 | 225 | 30 | 550 | 153 |
| — | 75 | 60 | 225SC | 3 | 356 | 100 | 450 | 510 | 411 | 337 | 286 | 415 | 149 | 225 | 30 | 550 | 153 |

| Frame Size | K | KK | L | LE | SHAFT EXTENSION | | | | | | | BEARING | | APPROX. WEIGHT kgs |
|------------|--------|------|-------|-------|-----------------|-----|-----|----|------|------|--------|-----------|--------------------|--------------------|
| | | | | | D | E | ED | F | G | GA | DH | DRIVE END | OPPOSITE DRIVE END | |
| 160M | φ 14.5 | φ 35 | 608.0 | 180.0 | 42 | 110 | 80 | 12 | 37.0 | 45.0 | M16×32 | 6309ZZ | 6307ZZ | 125 |
| 160L | φ 14.5 | φ 35 | 652.0 | 180.0 | 42 | 110 | 80 | 12 | 37.0 | 45.0 | M16×32 | 6309ZZ | 6307ZZ | 140 |
| 180MA | φ 14.5 | φ 52 | 710.0 | 238.0 | 48 | 110 | 80 | 14 | 42.5 | 51.5 | M16×32 | 6311ZZC3 | 6310ZZC3 | 235 |
| 180MC | φ 14.5 | φ 52 | 710.0 | 238.0 | 48 | 110 | 80 | 14 | 42.5 | 51.5 | M16×32 | 6311ZZ | 6310ZZ | 250 |
| 180LA | φ 14.5 | φ 52 | 764.0 | 254.0 | 55 | 110 | 80 | 16 | 49.0 | 59.0 | M20×40 | 6312ZZC3 | 6310ZZC3 | 240 |
| 180LC | φ 14.5 | φ 52 | 764.0 | 254.0 | 55 | 110 | 80 | 16 | 49.0 | 59.0 | M20×40 | 6312ZZ | 6310ZZ | 255 |
| 200LA | φ 18.5 | φ 65 | 809.5 | 261.5 | 55 | 110 | 80 | 16 | 49.0 | 59.0 | M20×40 | 6312ZZC3 | 6212ZZC3 | 355 |
| 200LC | φ 18.5 | φ 65 | 839.5 | 261.5 | 60 | 140 | 110 | 18 | 53.0 | 64.0 | M20×40 | 6314ZZ | 6212ZZ | 385 |
| 225SA | φ 18.5 | φ 92 | 850.0 | 305.0 | 55 | 110 | 80 | 16 | 49.0 | 59.0 | M20×40 | 6312ZZC3 | 6212ZZC3 | 470 |
| 225SC | φ 18.5 | φ 92 | 880.0 | 305.0 | 65 | 140 | 110 | 18 | 58.0 | 69.0 | M20×40 | 6315ZZ | 6213ZZ | 500 |

Note : 1. Tolerance of Shaft End Diameter : φ 42 ~ φ 48 : k6 , φ 55 ~ φ 65 : m6 .
 2. Tolerance of Shaft Center Height : +0 , -0.5 .

Dimension - AEHF

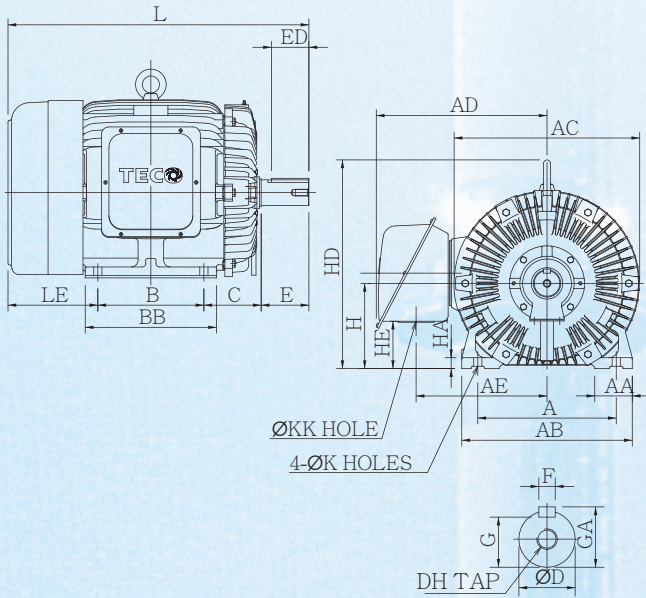


FIG5

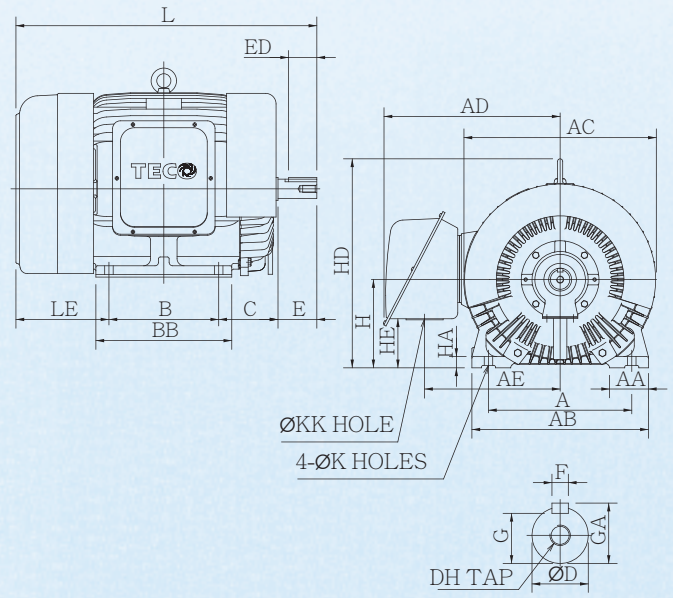


FIG6

Dimension in mm

| Output (HP) | | | Frame Size | FIG NO. | A | AA | AB | AC | AD | AE | B | BB | C | H | HA | HD | HE |
|-------------|-----|-----|------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| 2P | 4P | 6P | | | | | | | | | | | | | | | |
| 100 | — | — | 250SA | 6 | 406 | 110 | 500 | 545 | 499 | 384 | 311 | 385 | 168 | 250 | 32 | 612 | 139 |
| — | 100 | 75 | 250SC | 5 | 406 | 110 | 500 | 545 | 499 | 384 | 311 | 385 | 168 | 250 | 32 | 612 | 139 |
| 125 | — | — | 250MA | 6 | 406 | 110 | 500 | 545 | 499 | 384 | 349 | 480 | 168 | 250 | 32 | 612 | 139 |
| — | 125 | 100 | 250MC | 5 | 406 | 110 | 500 | 545 | 499 | 384 | 349 | 480 | 168 | 250 | 32 | 612 | 139 |

| Frame Size | K | KK | L | LE | SHAFT EXTENSION | | | | | | | BEARING | | APPROX. WEIGHT kgs |
|------------|------|------|-------|-------|-----------------|-----|-----|----|------|------|--------|-----------|--------------------|--------------------|
| | | | | | D | E | ED | F | G | GA | DH | DRIVE END | OPPOSITE DRIVE END | |
| 250SA | φ 24 | φ 92 | 852.5 | 263.5 | 55 | 110 | 80 | 16 | 49.0 | 59.0 | M20×40 | 6313C3 | 6313C3 | 500 |
| 250SC | φ 24 | φ 92 | 882.5 | 263.5 | 75 | 140 | 110 | 20 | 67.5 | 79.5 | M20×40 | NU316 | 6313 | 565 |
| 250MA | φ 24 | φ 92 | 947.5 | 320.5 | 55 | 110 | 80 | 16 | 49.0 | 59.0 | M20×40 | 6313C3 | 6313C3 | 590 |
| 250MC | φ 24 | φ 92 | 977.5 | 320.5 | 75 | 140 | 110 | 20 | 67.5 | 79.5 | M20×40 | NU316 | 6313 | 640 |

Note : 1. Tolerance of Shaft End Diameter : φ 55 ~ φ 75 : m6 .

2. Tolerance of Shaft Center Height : +0 , -0.5 .

Dimension - AEHF

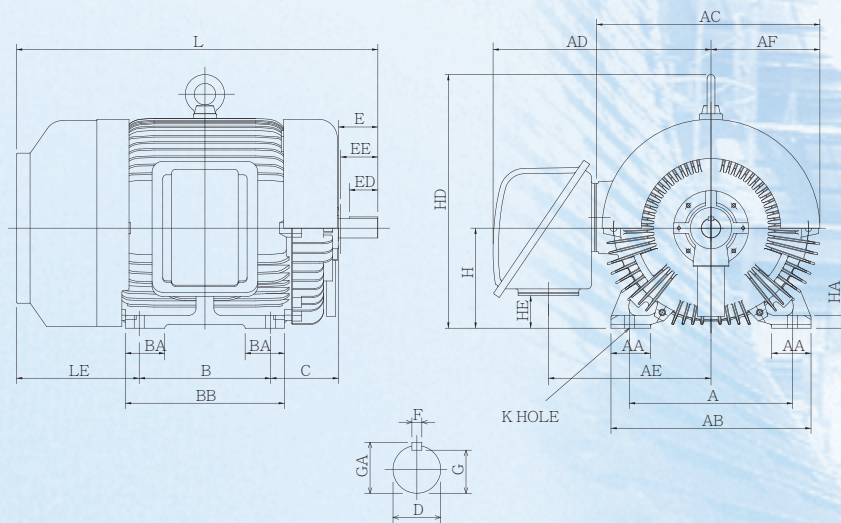


FIG7

Dimension in mm

| Output (HP) | | | Frame Size | FIG NO. | A | AA | AB | AC | AD | AE | AF | B | BA | BB | C | D | E |
|-------------|-----|-----|------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|
| 2P | 4P | 6P | | | A | AA | AB | AC | AD | AE | AF | B | BA | BB | C | D | E |
| *150 | - | - | 280S | 7 | 457 | 110 | 560 | 625 | 610 | 455 | 305 | 368 | 110 | 445 | 190 | 55 | 110 |
| - | 150 | 125 | 280S | | 457 | 110 | 560 | 625 | 610 | 455 | 305 | 368 | 110 | 445 | 190 | 85 | 170 |
| *175 | - | - | 280M | | 457 | 110 | 560 | 625 | 610 | 455 | 305 | 419 | 130 | 495 | 190 | 55 | 110 |
| - | 175 | 150 | 280M | | 457 | 110 | 560 | 625 | 610 | 455 | 305 | 419 | 130 | 495 | 190 | 85 | 170 |

| Frame Size | ED | EE | F | G | GA | H | HA | HD | HE | K | L | LE | BEARING | | APPROX. WEIGHT kgs |
|------------|-----|-----|----|----|----|-----|----|-----|----|----|------|-----|-----------|--------------------|--------------------|
| | | | | | | | | | | | | | DRIVE END | OPPOSITE DRIVE END | |
| 280S | 80 | 104 | 16 | 49 | 59 | 280 | 36 | 710 | 91 | 24 | 1012 | 344 | 6314C3 | 6314C3 | 680 |
| 280S | 140 | 157 | 22 | 76 | 90 | 280 | 36 | 710 | 91 | 24 | 1072 | 344 | NU320 | 6316 | 750 |
| 280M | 80 | 104 | 16 | 49 | 59 | 280 | 36 | 710 | 91 | 24 | 1012 | 343 | 6313C3 | 6313C3 | 725 |
| 280M | 140 | 157 | 22 | 76 | 90 | 280 | 36 | 710 | 91 | 24 | 1072 | 343 | NU316 | 6313 | 815 |

- Note :
1. Tolerance of Shaft End Diameter : m6 °
 2. Tolerance of Shaft Center Height :+0 , -1 °
 3. Usable Shaft Length:EE
 4. *For Direct Flexible Coupling.

SHAFT EXTENSION

Dimension - AEUF

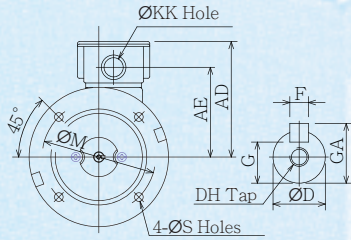
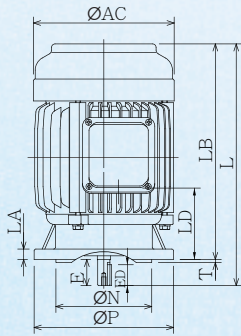


FIG8

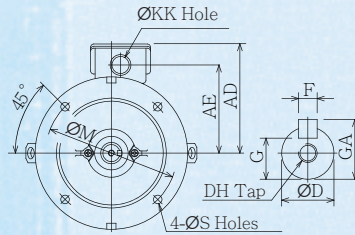
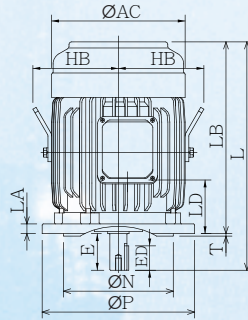


FIG9

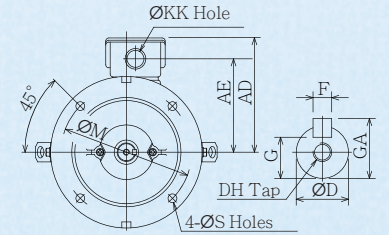
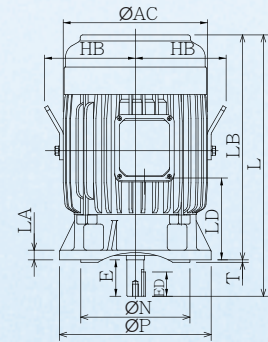


FIG10

Dimension in mm

| Output (HP) | | | Frame Size | FIG NO. | AC | AD | AE | HB | KK | L | LA | LB | LD | M | N | P | S | T |
|------------------|------|---------------|------------|---------|-----|-----|-----|-----|----|-------|----|-------|-----|-----|-----|-----|------|-----|
| 2P | 4P | 6P | | | | | | | | | | | | | | | | |
| 0.25 | 0.25 | — | 63 | 8 | 144 | 123 | 93 | — | 22 | 248.0 | 12 | 225.0 | 74 | 130 | 110 | 160 | 10.0 | 3.5 |
| 0.5 | 0.5 | — | 71 | | 162 | 133 | 103 | — | 22 | 277.5 | 12 | 247.5 | 82 | 130 | 110 | 160 | 10.0 | 3.5 |
| 1 | 1 | 0.5 | 80 | 9 | 177 | 144 | 112 | — | 22 | 282.0 | 12 | 242.0 | 60 | 165 | 130 | 200 | 12.0 | 3.5 |
| $\frac{2}{3}$ | 2 | 1 | 90L | 10 | 200 | 157 | 125 | — | 22 | 371.5 | 12 | 321.5 | 113 | 165 | 130 | 200 | 12.0 | 3.5 |
| — | 3 | — | 100L | 9 | 219 | 180 | 145 | 140 | 28 | 374.5 | 16 | 314.5 | 88 | 215 | 180 | 250 | 14.5 | 4.0 |
| 5 | 5 | $\frac{2}{3}$ | 112M | 10 | 238 | 189 | 154 | 150 | 28 | 431.0 | 16 | 371.0 | 135 | 215 | 180 | 250 | 14.5 | 4.0 |
| $\frac{7.5}{10}$ | 7.5 | 5 | 132S | 9 | 273 | 224 | 180 | 169 | 35 | 454.0 | 20 | 374.0 | 97 | 265 | 230 | 300 | 14.5 | 4.0 |
| — | 10 | 7.5 | 132M | | 273 | 224 | 180 | 169 | 35 | 492.0 | 20 | 412.0 | 116 | 265 | 230 | 300 | 14.5 | 4.0 |

| Frame Size | SHAFT EXTENSION | | | | | | | BEARING | | APPROX. WEIGHT kgs |
|------------|-----------------|----|----|----|------|------|--------|-----------|--------------------|--------------------|
| | D | E | ED | F | G | GA | DH | DRIVE END | OPPOSITE DRIVE END | |
| 63 | 11 | 23 | 10 | 4 | 8.5 | 12.5 | M4×8 | 6201ZZ | 6201ZZ | 9.5 |
| 71 | 14 | 30 | 14 | 5 | 11.0 | 16.0 | M5×10 | 6202ZZ | 6202ZZ | 12.5 |
| 80 | 19 | 40 | 25 | 6 | 15.5 | 21.5 | M6×12 | 6204ZZ | 6204ZZ | 19.5 |
| 90L | 24 | 50 | 32 | 8 | 20.0 | 27.0 | M8×16 | 6205ZZ | 6205ZZ | 27.0 |
| 100L | 28 | 60 | 40 | 8 | 24.0 | 31.0 | M10×20 | 6206ZZ | 6305ZZ | 43.0 |
| 112M | 28 | 60 | 40 | 8 | 24.0 | 31.0 | M10×20 | 6306ZZ | 6306ZZ | 51.0 |
| 132S | 38 | 80 | 64 | 10 | 33.0 | 41.0 | M12×24 | 6308ZZ | 6306ZZ | 73.0 |
| 132M | 38 | 80 | 64 | 10 | 33.0 | 41.0 | M12×24 | 6308ZZ | 6306ZZ | 84.0 |

Note : 1. Tolerance of Shaft End Diameter : $\phi 11 \sim \phi 28$: j6, $\phi 38$: k6

2. Tolerance of N : j6

Dimension - AEUF

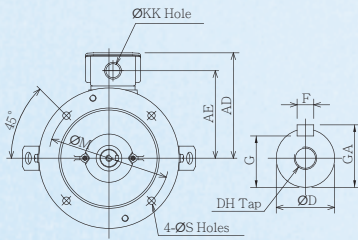
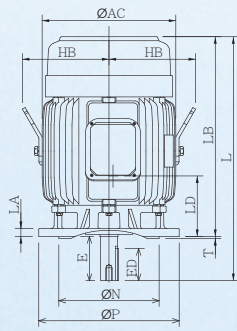


FIG11

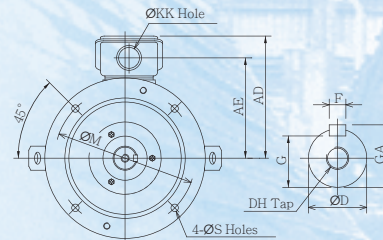
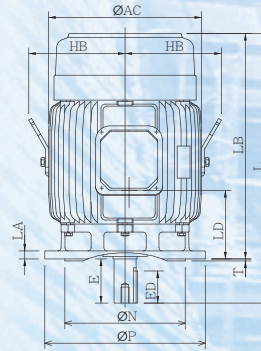


FIG12

Dimension in mm

| Output (HP) | | | Frame Size | FIG NO. | AC | AD | AE | HB | KK | L | LA | LB | LD | M | N | P | S | T |
|-------------|----------|----------|------------|---------|-----|-----|-----|-----|----|-----|----|-----|-------|-----|-----|-----|------|---|
| 2P | 4P | 6P | | | | | | | | | | | | | | | | |
| 15 20 | 15 | 10 | 160M | 11 | 334 | 263 | 218 | 217 | 35 | 608 | 20 | 498 | 151.0 | 300 | 250 | 350 | 18.5 | 5 |
| 25 | 20 | 15 | 160L | | 334 | 263 | 218 | 217 | 35 | 652 | 20 | 542 | 173.0 | 300 | 250 | 350 | 18.5 | 5 |
| 30 | — | — | 180MA | 12 | 382 | 305 | 250 | 241 | 52 | 672 | 20 | 562 | 170.5 | 350 | 300 | 400 | 18.5 | 5 |
| — | 25 30 | 20 | 180MC | | 382 | 305 | 250 | 241 | 52 | 672 | 20 | 562 | 170.5 | 350 | 300 | 400 | 18.5 | 5 |
| 40 | — | — | 180LA | | 382 | 305 | 250 | 241 | 52 | 710 | 20 | 600 | 189.5 | 350 | 300 | 400 | 18.5 | 5 |
| — | 40 | 25 30 | 180LC | | 382 | 305 | 250 | 241 | 52 | 710 | 20 | 600 | 189.5 | 350 | 300 | 400 | 18.5 | 5 |

| Frame Size | SHAFT EXTENSION | | | | | | | BEARING | | APPROX. WEIGHT kgs |
|------------|-----------------|-----|----|----|------|------|--------|-----------|--------------------|-----------------------|
| | D | E | ED | F | G | GA | DH | DRIVE END | OPPOSITE DRIVE END | |
| 160M | 42 | 110 | 80 | 12 | 37.0 | 45.0 | M16×32 | 6309ZZ | 6307ZZ | 133 |
| 160L | 42 | 110 | 80 | 12 | 37.0 | 45.0 | M16×32 | 6309ZZ | 6307ZZ | 148 |
| 180MA | 48 | 110 | 80 | 14 | 42.5 | 51.5 | M16×32 | 6311ZZC3 | 6310ZZC3 | 235 |
| 180MC | 48 | 110 | 80 | 14 | 42.5 | 51.5 | M16×32 | 6311ZZ | 6310ZZ | 250 |
| 180LA | 55 | 110 | 80 | 16 | 49.0 | 59.0 | M20×40 | 6312ZZC3 | 6310ZZC3 | 240 |
| 180LC | 55 | 110 | 80 | 16 | 49.0 | 59.0 | M20×40 | 6312ZZ | 6310ZZ | 255 |

Note : 1. Tolerance of Shaft End Diameter : $\phi 42 \sim \phi 48 : k6$, $\phi 55 \sim \phi 65 : m6$

2. Tolerance of N : j6

Dimension - AEUF

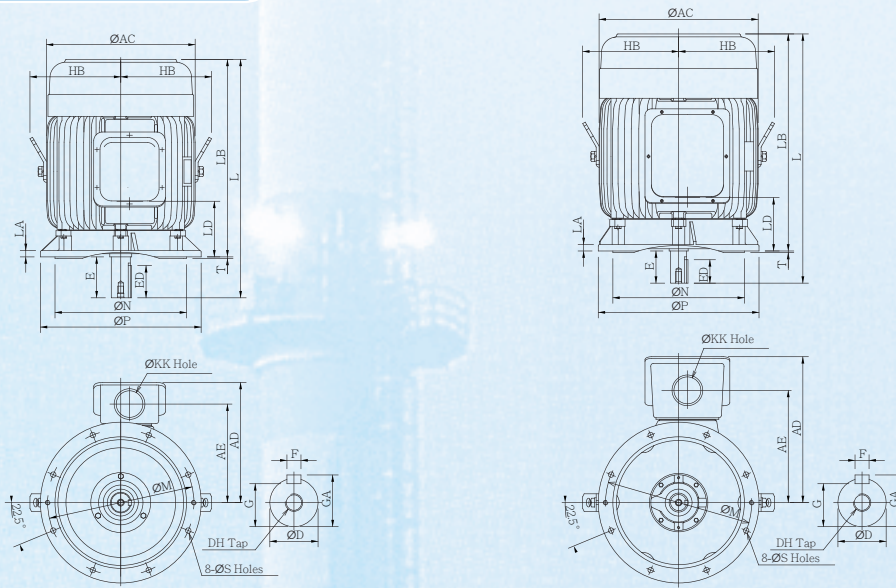


FIG14

Dimension in mm

| Output (HP) | | | Frame Size | FIG NO. | AC | AD | AE | HB | KK | L | LA | LB | LD | M | N | P | S | T |
|-------------|----------|----------|------------|---------|-----|-----|-----|-------|----|-------|----|-------|-------|-----|-----|-----|------|---|
| 2P | 4P | 6P | | | | | | | | | | | | | | | | |
| 50 60 | — | — | 200LA | 13 | 458 | 362 | 299 | 286.0 | 65 | 809.5 | 20 | 699.5 | 212.0 | 400 | 350 | 450 | 18.5 | 5 |
| — | 50 60 | 40 50 | 200LC | | 458 | 362 | 299 | 286.0 | 65 | 839.5 | 20 | 699.5 | 212.0 | 400 | 350 | 450 | 18.5 | 5 |
| 75 | — | — | 225SA | | 510 | 411 | 337 | 312.0 | 92 | 850.0 | 22 | 740.0 | 222.0 | 500 | 450 | 550 | 18.5 | 5 |
| — | 75 | 60 | 225SC | | 510 | 411 | 337 | 312.0 | 92 | 880.0 | 22 | 740.0 | 222.0 | 500 | 450 | 550 | 18.5 | 5 |
| 100 | — | — | 250SA | 14 | 545 | 499 | 384 | 329.5 | 92 | 852.5 | 22 | 742.5 | 182.5 | 500 | 450 | 550 | 18.5 | 5 |
| — | 100 | 75 | 250SC | | 545 | 499 | 384 | 329.5 | 92 | 882.5 | 22 | 742.5 | 182.5 | 500 | 450 | 550 | 18.5 | 5 |
| 125 | — | — | 250MA | | 545 | 499 | 384 | 329.5 | 92 | 947.5 | 22 | 837.5 | 230.0 | 500 | 450 | 550 | 18.5 | 5 |
| — | 125 | 100 | 250MC | | 545 | 499 | 384 | 329.5 | 92 | 977.5 | 22 | 837.5 | 230.0 | 500 | 450 | 550 | 18.5 | 5 |

| Frame Size | SHAFT EXTENSION | | | | | | | BEARING | | APPROX. WEIGHT kgs |
|------------|-----------------|-----|-----|----|------|------|--------|-----------|--------------------|--------------------|
| | D | E | ED | F | G | GA | DH | DRIVE END | OPPOSITE DRIVE END | |
| 200LA | 55 | 110 | 80 | 16 | 49.0 | 59.0 | M20×40 | 6312ZZC3 | 6212ZZC3 | 355 |
| 200LC | 60 | 140 | 110 | 18 | 53.0 | 64.0 | M20×40 | 6314ZZ | 6212ZZ | 385 |
| 225SA | 55 | 110 | 80 | 16 | 49.0 | 59.0 | M20×40 | 6312ZZC3 | 6212ZZC3 | 470 |
| 225SC | 65 | 140 | 110 | 18 | 58.0 | 69.0 | M20×40 | 6315ZZ | 6213ZZ | 500 |
| 250SA | 55 | 110 | 80 | 16 | 49.0 | 59.0 | M20×40 | 6313C3 | 6313C3 | 500 |
| 250SC | 75 | 140 | 110 | 20 | 67.5 | 79.5 | M20×40 | NU316 | 6313 | 565 |
| 250MA | 55 | 110 | 80 | 16 | 49.0 | 59.0 | M20×40 | 6313C3 | 6313C3 | 590 |
| 250MC | 75 | 140 | 110 | 20 | 67.5 | 79.5 | M20×40 | NU316 | 6313 | 640 |

Dimension - AEUF

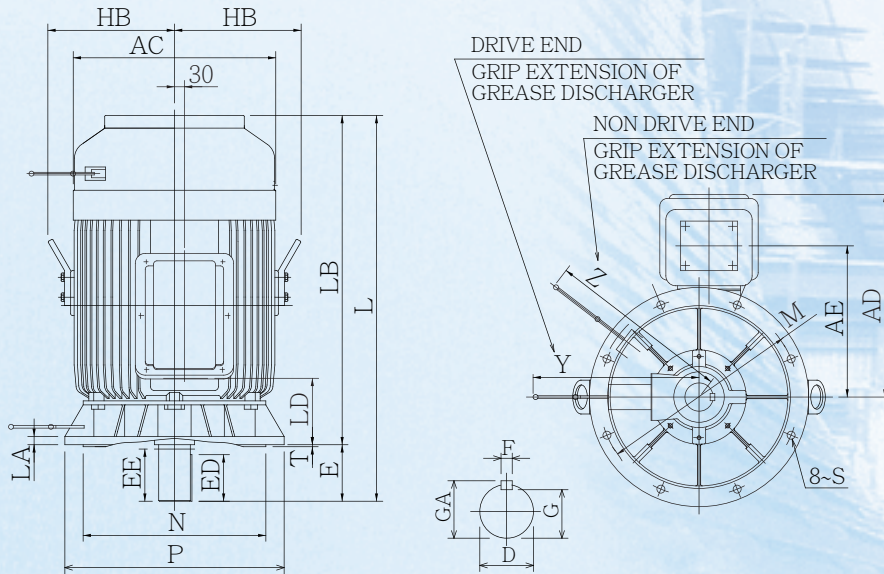


FIG15

Dimension in mm

| Output (HP) | | | Frame Size | FIG NO. | AC | AD | AE | D | E | ED | EE | F | G | GA | HB | L |
|-------------|-----|-----|------------|---------|-----|-----|-----|----|-----|-----|-----|----|----|----|-----|------|
| 2P | 4P | 6P | | | | | | | | | | | | | | |
| *150 | - | - | 280S | 15 | 610 | 610 | 455 | 55 | 110 | 80 | 104 | 16 | 49 | 59 | 383 | 1012 |
| - | 150 | 125 | 280S | | 610 | 610 | 455 | 85 | 170 | 140 | 157 | 22 | 76 | 90 | 383 | 1072 |
| *175 | - | - | 280M | | 610 | 610 | 455 | 55 | 110 | 80 | 104 | 16 | 49 | 59 | 383 | 1101 |
| - | 175 | 150 | 280M | | 610 | 610 | 445 | 85 | 170 | 140 | 157 | 22 | 76 | 90 | 383 | 1161 |

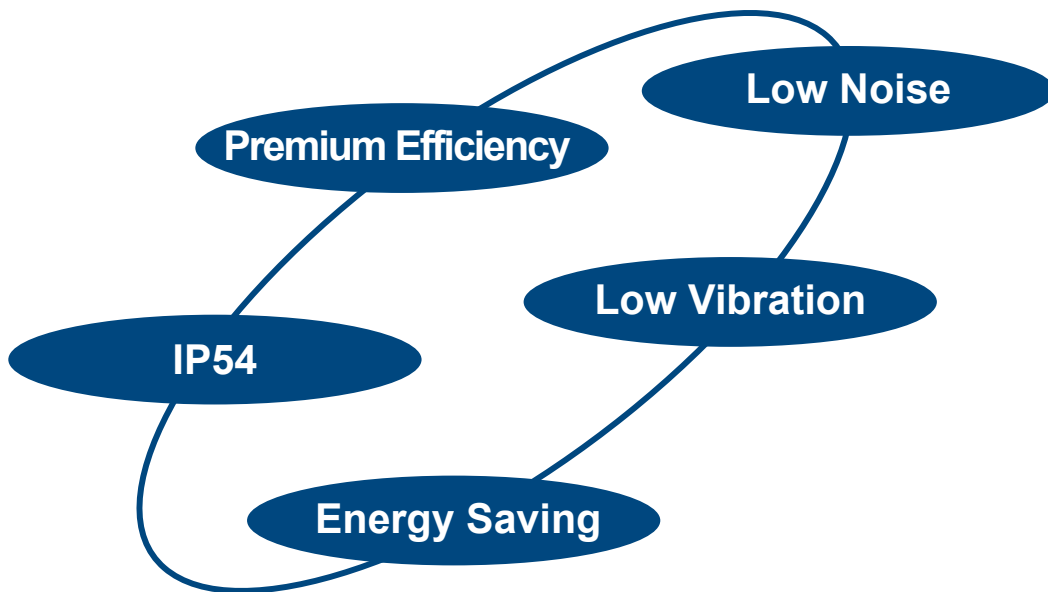
| Frame Size | LA | LB | LD | M | N | P | S | T | Y | Z | BEARING | | APPROX. WEIGHT kgs |
|------------|----|-----|-----|-----|-----|-----|----|---|-----|-----|-----------|--------------------|--------------------|
| | | | | | | | | | | | DRIVE END | OPPOSITE DRIVE END | |
| 280S | 25 | 902 | 156 | 600 | 550 | 660 | 24 | 6 | 585 | 585 | 6314C3 | 6314C3 | 740 |
| 280S | 25 | 902 | 156 | 600 | 550 | 660 | 24 | 6 | 560 | 535 | NU320C3 | 6316 | 820 |
| 280M | 25 | 901 | 200 | 600 | 550 | 660 | 24 | 6 | 585 | 585 | 6314C3 | 6314C3 | 790 |
| 280M | 25 | 901 | 200 | 600 | 550 | 660 | 24 | 6 | 560 | 535 | NU320C3 | 6316 | 895 |

Note : 1. Tolerance of Shaft End Diameter : m6 °

2. Tolerance of N : j6

3. Usable Shaft Length:EE

4. *For Direct Flexible Coupling.



AEHF



AEUF



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