

IEC Version

Low Voltage Induction Motor



Real Saver from Experience Combined with Technology



Low Voltage Induction Motor

Induction Motor

- ▶▶ Hyundai's Low Voltage Induction Motors use Finite Element Method(FEM) and Computer Aided Design(CAD) methods in an effort to develop and produce the most innovative motors from Hyundai's state-of-the-art and fully automated manufacturing facilities. Hyundai's cast aluminum frame motors improve their performances by maximizing heat dissipation effect. Also, Hyundai's cast iron frame motors are already reputed all over the world as the most economical for its outstanding contribution to user's energy saving with high efficiency, long life, light weight, low noise and less vibration.

We build a better future!

LOW VOLTAGE INDUCTION MOTOR



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“ Unique design assures the cost - effective operation and reliability you expect from HYUNDAI.”

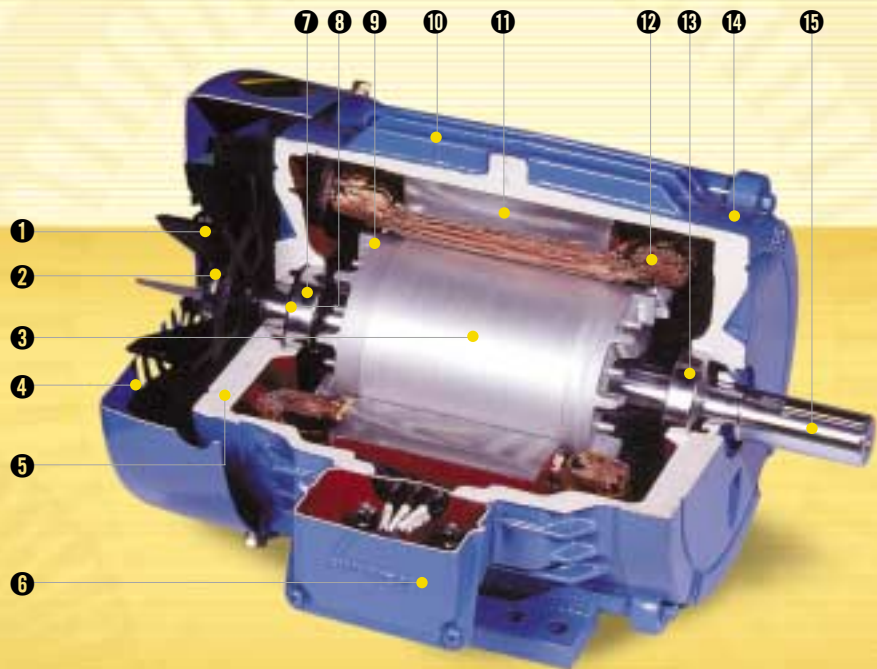
Major Products

- Totally enclosed splash-proof type motors
- Open drip-proof type motors
- Weather-proof type motors
- Explosion-proof motors (increased safety type, flame-proof type)
- Special motors
 - Explosion proof motors
 - Closed coupled pump motors
 - Energy saver motors
- CE mark available for European standard

Standard Specifications (In Accordance with IEC 34, EN60034)

- Output power range: 0.09 kW to 132 kW
- Frame size: 71 frame to 280 frame
- Number of poles: 2, 4, 6 and 8 poles
- Supply Voltage: 100 V-660 V
- Frequency: 50 Hz or 60 Hz
- Time Rating: continuous
- Insulation Class: B or F
- Service Factor: 1.0
- Bearings: Ball
- Ambient Temp: 40°C
- Terminal box (horizontal type) is on the left hand side viewed from the drive end.
- Terminal Block available per request
- Direction of Rotation: Counter-clockwise viewed from the drive end
- Accessory: 1 shaft key

SECTIONAL VIEW & PARTS



Sectional View & Parts Name (Cast Iron Frame)

NAME OF PARTS

- ❶ FAN
- ❷ FAN CLAMP
- ❸ ROTOR CORE
- ❹ FAN COVER
- ❺ END SHIELD (N.D.E)
- ❻ TERMINAL BOX
- ❼ BEARING (N.D.E)
- ❽ WAVE SPRING
- ❾ BAR & END-RING
- ❿ FRAME
- ⓫ STATOR CORE
- ⓬ STATOR COIL
- ⓭ BEARING (D.E)
- ⓮ END SHIELD (D.E)
- ⓯ SHAFT

MATERIAL

- PLASTIC
- MILD STEEL
- SEMI PROCESSED LOW CARBON STEEL
- MILD STEEL
- CAST IRON
- CAST IRON / MILD STEEL
- HIGH CARBON STEEL
- STAINLESS STEEL
- ALUMINIUM CASTING
- CAST IRON
- SEMI PROCESSED LOW CARBON STEEL
- COPPER
- HIGH CARBON STEEL
- CAST IRON
- CARBON STEEL

TEFC SEVERE DUTY



Feature

- 3 PHASE
- HORIZONTAL (B3)
- CAST IRON FRAME
- SQUIRREL CAGE

Specifications

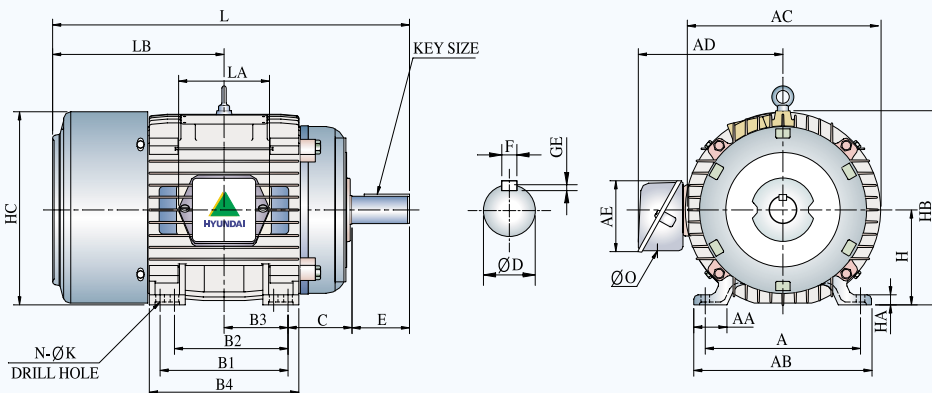
- Output (kW) : 0.09 ~ 132
- Supply Voltage : 100 V ~ 660 V
- Frequency : 50 Hz or 60 Hz
- Protection : IP44, IP54, IP55
- Insulation : B, F
- Time rating : Continuous

| FRAME | OUTPUT(KW) | | | | Dimensions in mm | | | | | | | | | | FIG. | |
|-------|------------|-----------|-----------|-----------|------------------|-----|-----|-----|------|-------|-----|-----|----------|----------|-----------|---|
| | 2P | 4P | 6P | 8P | OVERALL | | | | | SHAFT | | | | KEY SIZE | | |
| | | | | | AC | H ① | HB | HC | L | LB | D ② | E | KEYWAY ③ | | | |
| 71 | 0.37/0.55 | 0.25/0.37 | 0.18/0.25 | 0.09/0.12 | 145 | 71 | 138 | 140 | 234 | 114 | 14 | 30 | 5 | 3 | 5×5×20 | A |
| 80 | 0.75/1.1 | 0.55/0.75 | 0.37/0.55 | 0.18/0.25 | 170 | 80 | 157 | 160 | 265 | 125 | 19 | 40 | 6 | 3.5 | 6×6×25 | |
| 90L | 1.5/2.2 | 1.1/1.5 | 0.75/1.1 | 0.37/0.55 | 190 | 90 | 198 | 200 | 310 | 141.5 | 24 | 50 | 8 | 4 | 8×7×35 | |
| 100L | 3 | 2.2/3 | 1.5 | 0.75 | 191 | 100 | 223 | 213 | 368 | 175 | 28 | 60 | 8 | 4 | 8×7×45 | |
| 112M | 4 | 4 | 2.2 | 1.5 | 217 | 112 | 226 | 225 | 382 | 182 | 28 | 60 | 8 | 4 | 8×7×45 | |
| 132S | 5.5/7.5 | 5.5 | 3 | 2.2 | 266 | 132 | 270 | 269 | 459 | 220 | 38 | 80 | 10 | 5 | 10×8×63 | |
| 132M | - | 7.5 | 4/5.5 | 3.0 | 266 | 132 | 270 | 269 | 497 | 239 | 38 | 80 | 10 | 5 | 10×8×63 | |
| 160M | 11/15 | 11 | 7.5 | 4/5.5 | 324 | 160 | 320 | 322 | 596 | 273 | 42 | 110 | 12 | 5 | 12×8×80 | |
| 160L | 18.5 | 15 | 11 | 7.5 | 324 | 160 | 320 | 322 | 640 | 295 | 42 | 110 | 12 | 5 | 12×8×80 | |
| 180M | 22 | 18.5 | - | - | 358 | 180 | 360 | 360 | 659 | 307 | 48 | 110 | 14 | 5.5 | 14×9×80 | |
| 180L | - | 22 | 15 | 11 | 358 | 180 | 360 | 360 | 697 | 326 | 48 | 110 | 14 | 5.5 | 14×9×80 | |
| 200L | 30/37 | 30 | 18.5/22 | 15 | 411 | 200 | 403 | 405 | 771 | 375.5 | 55 | 110 | 16 | 6 | 16×10×80 | |
| 225S | - | 37 | - | 18.5 | 463 | 225 | 470 | 456 | 854 | 409.5 | 60 | 140 | 18 | 7 | 18×11×110 | |
| 225M | 45 | - | - | - | 463 | 225 | 470 | 456 | 824 | 409.5 | 55 | 110 | 16 | 6 | 16×10×80 | |
| | - | 45 | 30 | 22 | 463 | 225 | 470 | 456 | 854 | 409.5 | 60 | 140 | 18 | 7 | 18×11×110 | |
| 250M | 55 | - | - | - | 512 | 250 | 528 | 506 | 945 | 462.5 | 60 | 140 | 18 | 7 | 18×11×110 | |
| | - | 55 | 37 | 30 | 512 | 250 | 528 | 506 | 945 | 462.5 | 65 | 140 | 18 | 7 | 18×11×110 | |
| 280S | 75 | - | - | - | 569 | 280 | 589 | 559 | 1061 | 521.5 | 65 | 140 | 18 | 7 | 18×11×110 | |
| | - | 75 | 45 | 37 | 569 | 280 | 589 | 559 | 1061 | 521.5 | 75 | 140 | 20 | 7.5 | 20×12×110 | |
| 280M | 90 | - | - | - | 569 | 280 | 589 | 559 | 1061 | 521.5 | 65 | 140 | 18 | 7 | 18×11×110 | |
| | - | 90 | 55 | 45 | 569 | 280 | 589 | 559 | 1061 | 521.5 | 75 | 140 | 20 | 7.5 | 20×12×110 | |
| 280L | 110/132 | - | - | - | 569 | 280 | 589 | 559 | 1150 | 566 | 65 | 140 | 18 | 7 | 18×11×110 | |
| | - | 110/132 | 75/90 | 55/75 | 569 | 280 | 589 | 559 | 1180 | 566 | 80 | 170 | 22 | 9 | 22×14×140 | |

① Dimension D tolerance : ~ ϕ 28 : j6, ~ ϕ 48 : k6, ϕ 55 ~ : m6
 ② Dimension H tolerance : $H \leq 250$: 0, -0.5 $H \geq 280$: 0, -1.0

③ Keyway tolerance : $H \leq 200$: N9, $H \geq 225$: P9

[Fig. A]



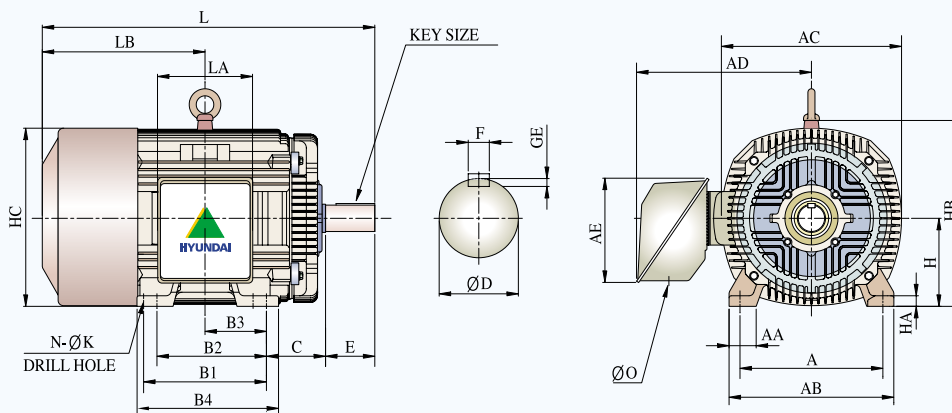


LOW VOLTAGE INDUCTION MOTOR

| FRAME | MOUNTING | | | | | | | | | | | CONDUIT BOX | | | | APPROX Wt.(kg) | FIG. |
|-------|----------|----|-----|----|-------|-------|-------|-----|-----|---------------|---|-------------|-----|-----|-----------|----------------|------|
| | A | AA | AB | HA | B1 | B2 | B3 | B4 | C | K \emptyset | N | AD | AE | LA | O | | |
| 71 | 112 | 30 | 143 | 7 | 90 | - | 45 | 112 | 45 | 7 | 4 | 123 | 90 | 70 | ϕ 22 | 8 | A |
| 80 | 125 | 30 | 155 | 11 | 100 | - | 50 | 142 | 50 | 10 | 4 | 143 | 90 | 70 | ϕ 22 | 11 | |
| 90L | 140 | 45 | 162 | 10 | 125 | - | 62.5 | 162 | 56 | 10 | 4 | 150 | 90 | 70 | ϕ 22 | 18 | |
| 100L | 160 | 44 | 194 | 12 | 140 | - | 70 | 166 | 63 | 12 | 4 | 175 | 109 | 136 | PF0.75 | 30 | |
| 112M | 190 | 40 | 218 | 12 | 140 | (114) | 70 | 166 | 70 | 12 | 8 | 175 | 109 | 136 | PF0.75 | 48 | |
| 132S | 216 | 45 | 248 | 14 | 140 | - | 70 | 172 | 89 | 12 | 4 | 218 | 109 | 136 | PF1 | 82 | |
| 132M | 216 | 45 | 248 | 14 | 178 | (140) | 89 | 210 | 89 | 12 | 8 | 218 | 109 | 136 | PF1 | 88 | |
| 160M | 254 | 47 | 285 | 17 | 210 | - | 105 | 243 | 108 | 15 | 4 | 275 | 192 | 136 | PF1.25 | 130 | |
| 160L | 254 | 47 | 285 | 17 | 254 | (210) | 127 | 287 | 108 | 15 | 8 | 275 | 192 | 136 | PF1.25 | 156 | |
| 180M | 279 | 53 | 315 | 20 | 241 | - | 120.5 | 280 | 121 | 15 | 4 | 290 | 192 | 136 | PF1.5 | 198 | |
| 180L | 279 | 53 | 315 | 20 | 279 | (241) | 139.5 | 325 | 121 | 15 | 8 | 290 | 192 | 136 | PF1.5 | 205 | |
| 200L | 318 | 60 | 364 | 23 | 305 | (267) | 152.5 | 350 | 133 | 19 | 8 | 362 | 260 | 180 | PF2 | 275 | |
| 225S | 356 | 69 | 410 | 25 | (311) | 286 | 155.5 | 379 | 149 | 19 | 8 | 435 | 260 | 180 | PF2 | 340 | |
| 225M | 356 | 69 | 410 | 25 | 311 | (286) | 155.5 | 379 | 149 | 19 | 8 | 435 | 260 | 180 | PF2 | 360 | |
| | 356 | 69 | 410 | 25 | 311 | (286) | 155.5 | 379 | 149 | 19 | 8 | 435 | 260 | 180 | PF2 | 370 | |
| 250M | 406 | 77 | 468 | 30 | (349) | 311 | 174.5 | 418 | 168 | 24 | 8 | 515 | 296 | 270 | PF2.5 | 450 | |
| | 406 | 77 | 468 | 30 | (349) | 311 | 174.5 | 418 | 168 | 24 | 8 | 515 | 296 | 270 | PF2.5 | 490 | |
| 280S | 457 | 78 | 521 | 36 | (419) | 368 | 209.5 | 488 | 190 | 24 | 8 | 540 | 296 | 270 | PF2.5 | 700 | |
| | 457 | 78 | 521 | 36 | (419) | 368 | 209.5 | 488 | 190 | 24 | 8 | 540 | 296 | 270 | PF2.5 | 710 | |
| 280M | 457 | 78 | 521 | 36 | 419 | (368) | 209.5 | 488 | 190 | 24 | 8 | 540 | 296 | 270 | PF2.5 | 790 | |
| | 457 | 78 | 521 | 36 | 419 | (368) | 209.5 | 488 | 190 | 24 | 8 | 540 | 296 | 270 | PF2.5 | 800 | |
| 280L | 457 | 78 | 521 | 36 | 508 | (457) | 254 | 577 | 190 | 24 | 8 | 540 | 296 | 270 | PF2.5 | 850 | |
| | 457 | 78 | 521 | 36 | 508 | (457) | 254 | 577 | 190 | 24 | 8 | 540 | 296 | 270 | PF2.5 | 860 | |

④ Dimension K tolerance : + 0.43, 0

[Fig. B]



TEFC (ALUMINUM FRAME)



Feature

- 3 PHASE
- HORIZONTAL (B3)
- ALUMINUM FRAME
- SQUIRREL CAGE

Specifications

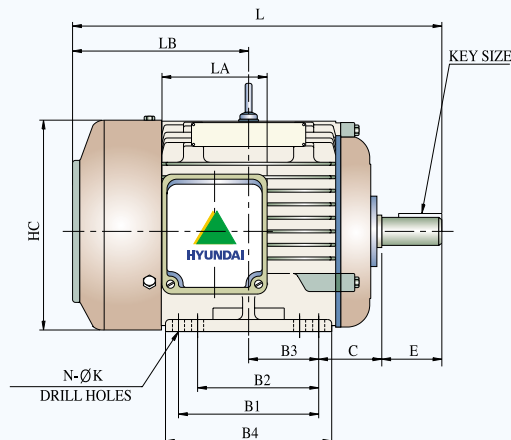
- Output (kW) : 0.09 ~ 7.5
- Supply Voltage : 100 V ~ 660 V
- Frequency : 50 Hz or 60 Hz
- Protection : IP44, IP54
- Insulation : B, F
- Time rating : Continuous

| FRAME | OUTPUT(kW) | | | | Dimensions in mm | | | | | | | | | | KEY SIZE | |
|-------|------------|-----------|-----------|-----------|------------------|-----|-----|-----|-----|-------|-----|----|----------|-----|----------|--|
| | | | | | OVERALL | | | | | SHAFT | | | | | | |
| | 2P | 4P | 6P | 8P | AC | H ① | HB | HC | L | LB | D ② | E | KEYWAY ③ | | | |
| F | | GE | | | | | | | | | | | | | | |
| 71 | 0.37/0.55 | 0.25/0.37 | 0.18/0.25 | 0.09/0.12 | 145 | 71 | 138 | 140 | 234 | 102 | 14 | 30 | 5 | 3 | 5×5×20 | |
| 80 | 0.75/1.1 | 0.55/0.75 | 0.37/0.55 | 0.18/0.25 | 170 | 80 | 167 | 167 | 271 | 131 | 19 | 40 | 6 | 3.5 | 6×6×25 | |
| 90L | 1.5/2.2 | 1.1/1.5 | 0.75/1.1 | 0.37/0.55 | 190 | 90 | 189 | 189 | 318 | 150 | 24 | 50 | 8 | 4 | 8×7×35 | |
| 100L | 3 | 2.2/3 | 1.5 | 0.75 | 191 | 100 | 212 | 211 | 368 | 175 | 28 | 60 | 8 | 4 | 8×7×45 | |
| 112M | 4 | 4 | 2.2 | 1.5 | 191 | 112 | 224 | 223 | 382 | 182 | 28 | 60 | 8 | 4 | 8×7×45 | |
| 132S | 5.5/7.5 | 5.5 | 3 | 2.2 | 256 | 132 | 280 | 277 | 497 | 239 | 38 | 80 | 10 | 5 | 10×8×63 | |
| 132M | - | 7.5 | 4/5.5 | 3.0 | 256 | 132 | 280 | 277 | 497 | 239 | 38 | 80 | 10 | 5 | 10×8×63 | |

① Dimension D tolerance : ~ ϕ 28 : j6, ~ ϕ 48 : k6
 ③ Dimension H tolerance : 0, -0.50

② Keyway tolerance : N9

[Fig. A]



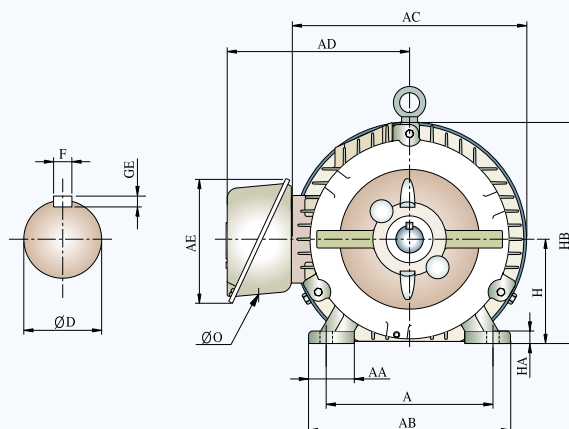


LOW VOLTAGE INDUCTION MOTOR

| FRAME | MOUNTING | | | | | | | | | | CONDUIT BOX | | | | | APPROX Wt.(kg) |
|-------|----------|----|-----|----|-------|-------|------|-----|----|------------|-------------|-----|-----|-----|-----------|----------------|
| | A | AA | AB | HA | B1 | B2 | B3 | B4 | C | K \oplus | N | AD | AE | LA | O | |
| 71 | 112 | 30 | 145 | 7 | 90 | - | 45 | 112 | 45 | 7 | 4 | 144 | 90 | 70 | ϕ 10 | 15 |
| 80 | 125 | 30 | 158 | 10 | 100 | - | 50 | 125 | 50 | 10 | 4 | 149 | 90 | 88 | ϕ 13 | 18 |
| 90L | 140 | 45 | 172 | 12 | 125 | - | 62.5 | 156 | 56 | 10 | 4 | 164 | 90 | 88 | ϕ 13 | 20 |
| 100L | 160 | 44 | 194 | 12 | 140 | - | 70 | 166 | 63 | 12 | 4 | 175 | 123 | 105 | ϕ 28 | 24 |
| 112M | 190 | 44 | 220 | 13 | 140 | - | 70 | 166 | 70 | 12 | 4 | 175 | 123 | 105 | ϕ 28 | 28 |
| 132S | 216 | 40 | 250 | 15 | (178) | 140 | 89 | 210 | 89 | 12 | 8 | 218 | 148 | 125 | ϕ 35 | 40 |
| 132M | 216 | 40 | 250 | 15 | 178 | (140) | 89 | 210 | 89 | 12 | 8 | 218 | 148 | 125 | ϕ 35 | 47 |

\oplus Dimension K tolerance : +0.43, 0

[Fig. B]



TEFC-F SEVERE DUTY



Feature

- 3 PHASE
- FLANGE(B5)
- CAST IRON FRAME
- SQUIRREL CAGE

Specifications

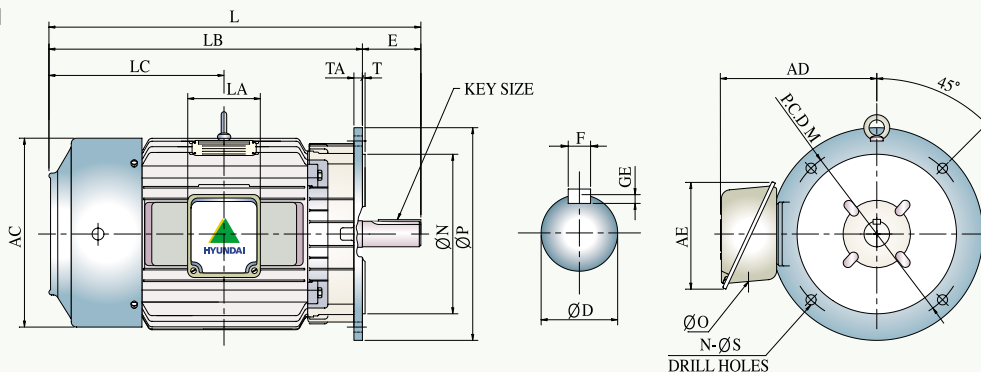
- Output (kW) : 0.75 ~ 132
- Supply Voltage : 100 V ~ 660 V
- Frequency : 50 Hz or 60 Hz
- Protection : IP44, IP54, IP55
- Insulation : B, F
- Time rating : Continuous

| FRAME | OUTPUT(KW) | | | | Dimensions in mm | | | | | | | | | FIG. |
|-------|------------|---------|---------|-------|------------------|------|------|-------|-------|-----|----------|-----|-----------|------|
| | 2P | 4P | 6P | 8P | OVERALL | | | | SHAFT | | | | KEY SIZE | |
| | | | | | AC | L | LB | LC | D Ø | E | KEYWAY Ø | | | |
| F | GE | | | | | | | | | | | | | |
| 100L | 3 | 2.2/3 | 1.5 | 0.75 | 210 | 368 | 308 | 175 | 28 | 60 | 8 | 4 | 8×7×45 | A |
| 112M | | 4 | 2.2 | 1.5 | 210 | 382 | 322 | 182 | 28 | 60 | 8 | 4 | 8×7×45 | |
| 132S | 5.5/7.5 | 5.5 | 3 | 2.2 | 266 | 459 | 379 | 220 | 38 | 80 | 10 | 5 | 10×8×63 | |
| 132M | | 7.5 | 4/5.5 | 3.0 | 266 | 497 | 417 | 239 | 38 | 80 | 10 | 5 | 10×8×63 | |
| 160M | 11/15 | 11 | 7.5 | 4/5.5 | 317 | 596 | 486 | 273 | 42 | 110 | 12 | 5 | 12×8×80 | |
| 160L | | 15 | 11 | 7.5 | 317 | 640 | 530 | 295 | 42 | 110 | 12 | 5 | 12×8×80 | |
| 180M | 22 | 18.5 | - | - | 355 | 659 | 549 | 307 | 48 | 110 | 14 | 5.5 | 14×9×80 | |
| 180L | | 22 | 15 | 11 | 355 | 697 | 587 | 326 | 48 | 110 | 14 | 5.5 | 14×9×80 | |
| 200L | 30/37 | 30 | 18.5/22 | 15 | 411 | 771 | 661 | 375.5 | 55 | 110 | 16 | 6 | 16×10×80 | |
| 225S | | 37 | - | 18.5 | 450 | 854 | 714 | 409.5 | 60 | 140 | 18 | 7 | 18×11×110 | |
| 225M | 45 | - | - | - | 450 | 824 | 714 | 409.5 | 55 | 110 | 16 | 6 | 16×10×80 | B |
| | | 45 | 30 | 22 | 450 | 854 | 714 | 409.5 | 60 | 140 | 18 | 7 | 18×11×110 | |
| 250M | 55 | - | - | - | 500 | 945 | 805 | 462.5 | 60 | 140 | 18 | 7 | 18×11×110 | |
| | | 55 | 37 | 30 | 500 | 945 | 805 | 462.5 | 65 | 140 | 18 | 7 | 18×11×110 | |
| 280S | 75 | - | - | - | 570 | 1061 | 921 | 521.5 | 65 | 140 | 18 | 7 | 18×11×110 | |
| | | 75 | 45 | 37 | 570 | 1061 | 921 | 521.5 | 75 | 140 | 20 | 7.5 | 20×12×110 | |
| 280M | 90 | - | - | - | 570 | 1061 | 921 | 521.5 | 65 | 140 | 18 | 7 | 18×11×110 | |
| | | 90 | 55 | 45 | 570 | 1061 | 921 | 521.5 | 75 | 140 | 20 | 7.5 | 20×12×110 | |
| 280L | 110/132 | - | - | - | 570 | 1150 | 1010 | 566 | 65 | 140 | 18 | 7 | 18×11×110 | |
| | | 110/132 | 75/90 | 55/75 | 570 | 1180 | 1010 | 566 | 80 | 170 | 22 | 9 | 22×14×140 | |

① Dimension D tolerance : ~ ϕ 28 : j6, ~ ϕ 48 : k6, ϕ 55 ~ : m6

② Keyway tolerance : $H \leq 200$: N9, $H \geq 225$: P9

[Fig. A]

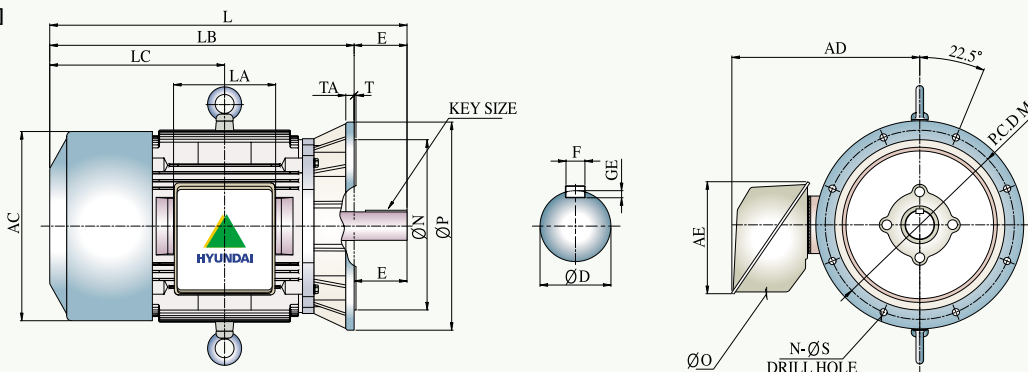




| FRAME | FLANGE | | | | | | | CONDUIT BOX | | | | APPROX Wt.(kg) | FIG. |
|-------|--------|-----|-----|---|----|----|---|-------------|-----|-----|--------|----------------|------|
| | M | N Ø | P | n | S | TA | T | AD | AE | LA | O | | |
| 100L | 215 | 180 | 250 | 4 | 15 | 13 | 4 | 185 | 109 | 136 | PF0.75 | 32 | A |
| 112M | 215 | 180 | 250 | 4 | 15 | 13 | 4 | 197 | 109 | 136 | PF0.75 | 49 | |
| 132S | 265 | 230 | 300 | 4 | 15 | 16 | 4 | 216 | 109 | 136 | PF1 | 83 | |
| 132M | 265 | 230 | 300 | 4 | 15 | 16 | 4 | 216 | 109 | 136 | PF1 | 89 | |
| 160M | 300 | 250 | 350 | 4 | 19 | 16 | 5 | 312 | 192 | 136 | PF1.25 | 132 | |
| 160L | 300 | 250 | 350 | 4 | 19 | 16 | 5 | 312 | 192 | 136 | PF1.25 | 158 | |
| 180M | 300 | 250 | 350 | 4 | 19 | 16 | 5 | 327 | 192 | 136 | PF1.5 | 205 | |
| 180L | 300 | 250 | 350 | 4 | 19 | 16 | 5 | 327 | 192 | 136 | PF1.5 | 212 | |
| 200L | 350 | 300 | 400 | 4 | 19 | 19 | 5 | 362 | 260 | 180 | PF2 | 285 | |
| 225S | 400 | 350 | 450 | 8 | 19 | 21 | 5 | 445 | 260 | 180 | 2 | 380 | |
| 225M | 400 | 350 | 450 | 8 | 19 | 21 | 5 | 445 | 260 | 180 | PF2 | 400 | |
| 250M | 400 | 350 | 450 | 8 | 19 | 21 | 5 | 445 | 260 | 180 | PF2 | 410 | |
| 250M | 500 | 450 | 550 | 8 | 19 | 22 | 5 | 520 | 296 | 270 | PF2.5 | 500 | |
| 250M | 500 | 450 | 550 | 8 | 19 | 22 | 5 | 520 | 296 | 270 | PF2.5 | 535 | |
| 280S | 500 | 450 | 550 | 8 | 19 | 25 | 5 | 550 | 296 | 270 | PF2.5 | 780 | |
| 280S | 500 | 450 | 550 | 8 | 19 | 25 | 5 | 550 | 296 | 270 | PF2.5 | 790 | |
| 280M | 500 | 450 | 550 | 8 | 19 | 25 | 5 | 550 | 296 | 270 | PF2.5 | 870 | |
| 280M | 500 | 450 | 550 | 8 | 19 | 25 | 5 | 550 | 296 | 270 | PF2.5 | 880 | |
| 280L | 500 | 450 | 550 | 8 | 19 | 25 | 5 | 550 | 296 | 270 | PF2.5 | 930 | |
| 280L | 500 | 450 | 550 | 8 | 19 | 25 | 5 | 550 | 296 | 270 | PF2.5 | 940 | |

④ Dimension N tolerance : ~ ϕ 450 : j6, ~ ϕ 680 : js6

[Fig. B]



TEFC-F



Feature

- 3 PHASE
- FLANGE(B5)
- ROLLED STEEL FRAME
- SQUIRREL CAGE

Specifications

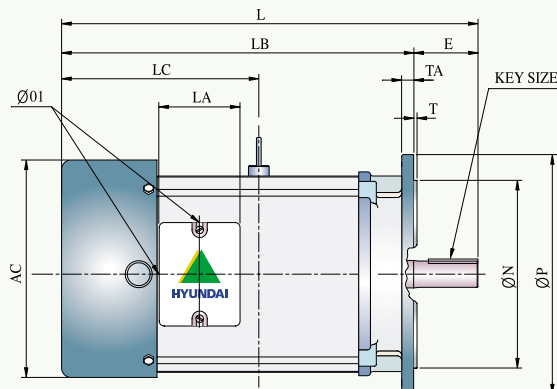
- Output (kW) : 0.75 ~ 22
- Supply Voltage : 100 V ~ 660 V
- Frequency : 50 Hz or 60 Hz
- Protection : IP44, IP54
- Insulation : B, F
- Time rating : Continuous

| FRAME | OUTPUT(kW) | | | | Dimensions in mm | | | | | | | | |
|-------|------------|------|-------|------|------------------|-----|-----|-----|----------------|-----|----------------------|----------|---------|
| | | | | | OVERALL | | | | SHAFT | | | KEY SIZE | |
| | 2P | 4P | 6P | 8P | AC | L | LB | LC | D ^① | E | KEYWAY \varnothing | | |
| | | | | | | | | | | | F | GE | |
| 112M | 4 | 4 | 2.2 | 0.75 | 251 | 414 | 354 | 189 | 28 | 60 | 8 | 4 | 8×7×45 |
| 132S | 5.5/7.5 | 5.5 | 3 | 1.5 | 292 | 533 | 453 | 240 | 38 | 80 | 10 | 5 | 10×8×63 |
| 132M | - | 7.5 | 4/5.5 | 2.2 | 292 | 533 | 453 | 240 | 38 | 80 | 10 | 5 | 10×8×63 |
| 160M | 11/15 | 11 | 7.5 | 4 | 347 | 704 | 594 | 305 | 42 | 110 | 12 | 5 | 12×8×80 |
| 160L | 18.5 | 15 | 11 | 5.5 | 347 | 704 | 594 | 305 | 42 | 110 | 12 | 5 | 12×8×80 |
| 180M | 22 | 18.5 | - | 7.5 | 387 | 757 | 647 | 343 | 48 | 110 | 14 | 5.5 | 14×9×80 |
| 180L | - | 22 | 15 | - | 387 | 757 | 647 | 343 | 48 | 110 | 14 | 5.5 | 14×9×80 |

① Dimension D tolerance : $\sim \varnothing 28 : j6, \sim \varnothing 48 : k6$

② Keyway tolerance : N9

[Fig. A]

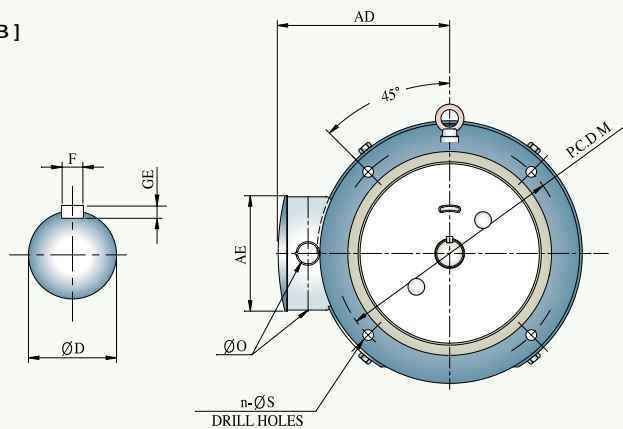




| FRAME | FLANGE | | | | | | | CONDUIT BOX | | | | | APPROX Wt.(kg) |
|-------|--------|-----|-----|---|----|----|---|-------------|-----|-----|----|----|----------------|
| | M | N Ø | P | n | S | TA | T | AD | AE | LA | O | O1 | |
| 112M | 215 | 180 | 250 | 4 | 15 | 13 | 4 | 184 | 110 | 86 | 28 | 35 | 38 |
| 132S | 265 | 230 | 300 | 4 | 15 | 16 | 4 | 204 | 110 | 86 | 35 | 28 | 55 |
| 132M | 265 | 230 | 300 | 4 | 15 | 16 | 4 | 204 | 110 | 86 | 35 | 28 | 69 |
| 160M | 300 | 250 | 350 | 4 | 19 | 16 | 5 | 258 | 160 | 120 | 44 | 50 | 107 |
| 160L | 300 | 250 | 350 | 4 | 19 | 16 | 5 | 258 | 160 | 120 | 44 | 50 | 134 |
| 180M | 300 | 250 | 350 | 4 | 19 | 16 | 5 | 273 | 160 | 120 | 50 | 44 | 165 |
| 180L | 300 | 250 | 350 | 4 | 19 | 16 | 5 | 273 | 160 | 120 | 50 | 44 | 181 |

④ Dimension N tolerance : j6

[Fig. B]



DP



Feature

- 3 PHASE
- HORIZONTAL (B3)
- STEEL FRAME
- SQUIRREL CAGE

Specifications

- Output (kW) : 1.5 ~ 150
- Supply Voltage : 100 V ~ 660 V
- Frequency : 50 Hz or 60 Hz
- Protection : IP22
- Insulation : B, F
- Time rating : Continuous

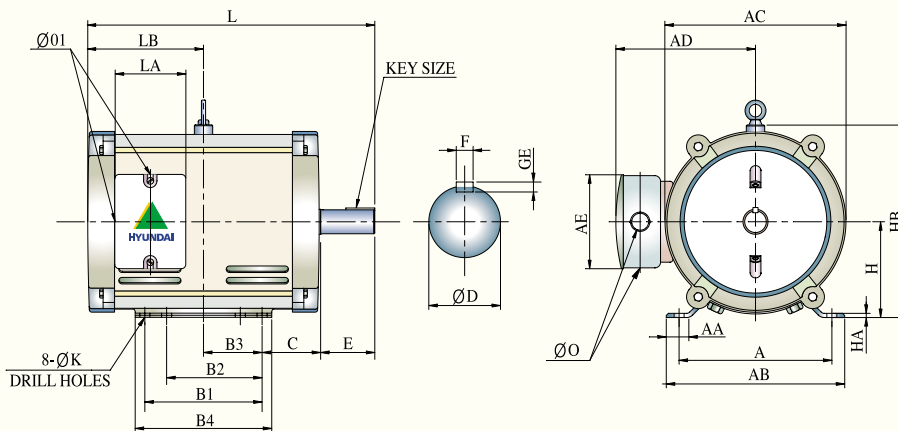
| FRAME | OUTPUT(kW) | | | | Dimensions in mm | | | | | | | | | | FIG. |
|-------|------------|---------|-------|-------|------------------|-----------------|-----|-----|-------|-----------------|-----|----------------------|----------|-----------|------|
| | 2P | 4P | 6P | 8P | OVERALL | | | | SHAFT | | | | KEY SIZE | | |
| | | | | | AC | H \varnothing | HB | L | LB | D \varnothing | E | KEYWAY \varnothing | | | |
| F | GE | | | | | | | | | | | | | | |
| 112M | 4 | 4 | 2.2 | 1.5 | 216 | 112 | 220 | 337 | 137 | 28 | 60 | 8 | 4 | 8×7×45 | A |
| 132S | 5.5/7.5 | 5.5 | 3 | 2.2 | 256 | 132 | 260 | 434 | 176 | 38 | 80 | 10 | 5 | 10×8×63 | |
| 132M | - | 7.5 | 4/5.5 | 3.0 | 256 | 132 | 260 | 434 | 176 | 38 | 80 | 10 | 5 | 10×8×63 | |
| 160M | 11/15 | 11 | 7.5 | 4/5.5 | 312 | 160 | 314 | 577 | 232 | 48 | 110 | 14 | 5.5 | 14×9×80 | |
| 160L | 18.5/22 | 15/18.5 | 11 | 7.5 | 312 | 160 | 314 | 577 | 232 | 48 | 110 | 14 | 5.5 | 14×9×80 | |
| 180M | 30 | 22 | 15 | 11 | 342 | 180 | 350 | 630 | 259 | 55 | 110 | 16 | 6 | 16×10×80 | |
| 180L | 37 | 30 | 18.5 | 15 | 342 | 180 | 350 | 630 | 259 | 55 | 110 | 16 | 6 | 16×10×80 | |
| 200M | 45 | 37 | 22 | 18.5 | 420 | 200 | 418 | 668 | 261.5 | 60 | 140 | 18 | 7 | 18×11×110 | |
| 200L | 55 | 45 | 30 | 22 | 420 | 200 | 418 | 668 | 261.5 | 60 | 140 | 18 | 7 | 18×11×110 | |
| 225M | 75 | - | - | - | 460 | 225 | 465 | 745 | 300.5 | 60 | 140 | 18 | 7 | 18×11×110 | |
| | - | 55 | 37 | 30 | 460 | 225 | 465 | 745 | 300.5 | 65 | 140 | 18 | 7 | 18×11×110 | |
| 250S | 90 | - | - | - | 523 | 250 | 520 | 782 | 318.5 | 65 | 140 | 18 | 7 | 18×11×110 | |
| | - | 75 | 45 | 37 | 523 | 250 | 520 | 782 | 318.5 | 75 | 140 | 20 | 7.5 | 20×12×110 | |
| 255M | 110 | - | - | - | 523 | 250 | 520 | 820 | 337.5 | 65 | 140 | 18 | 7 | 18×11×110 | |
| | - | 90 | 55 | 45 | 523 | 250 | 520 | 820 | 337.5 | 75 | 140 | 20 | 7.5 | 20×12×110 | |
| 280S | 132 | - | - | - | 569 | 280 | 590 | 883 | 369 | 65 | 140 | 18 | 7 | 18×11×110 | |
| | - | 110 | 75 | 55 | 569 | 280 | 590 | 913 | 369 | 80 | 170 | 22 | 9 | 22×14×140 | |
| 280M | 150 | - | - | - | 569 | 280 | 590 | 934 | 394.5 | 65 | 140 | 18 | 7 | 18×11×110 | |
| | - | 132 | 90 | 75 | 569 | 280 | 590 | 964 | 394.5 | 80 | 170 | 22 | 9 | 22×14×140 | |

① Dimension D tolerance : ~ \varnothing 28 : j6, ~ \varnothing 48 : k6

② Keyway tolerance : H \leq 200 : N9, H \geq 225 : P9

③ Dimension H tolerance : H \leq 250 : 0, -0.5, H \geq 280 : 0, -1.0

[Fig. A]



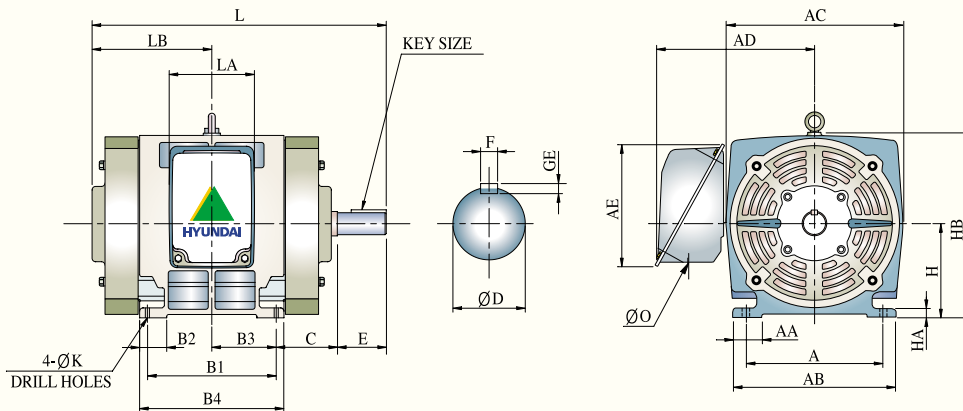


| FRAME | MOUNTING | | | | | | | | | | CONDUIT BOX | | | | | APPROX Wt.(kg) | FIG. ⑥ |
|-------|----------|-----|-----|----|-------|-------|-------|-----|-----|-----|-------------|-----|-----|----|----|----------------|--------|
| | A | AA | AB | HA | B1 | B2 | B3 | B4 | C | K ④ | AD | AE | LA | O | O1 | | |
| 112M | 190 | 29 | 213 | 5 | 140 | (114) | 70 | 163 | 70 | 12 | 184 | 110 | 86 | 28 | 35 | 32 | A |
| 132S | 216 | 35 | 244 | 6 | (178) | 140 | 89 | 206 | 89 | 12 | 204 | 110 | 86 | 35 | 28 | 48 | |
| 132M | 216 | 35 | 244 | 6 | 178 | (140) | 89 | 206 | 89 | 12 | 204 | 110 | 86 | 35 | 28 | 55 | |
| 160M | 254 | 35 | 290 | 8 | (254) | 210 | 127 | 290 | 108 | 15 | 258 | 160 | 120 | 44 | 50 | 89 | |
| 160L | 254 | 35 | 290 | 8 | 254 | (210) | 127 | 290 | 108 | 15 | 258 | 160 | 120 | 44 | 50 | 104 | |
| 180M | 279 | 35 | 315 | 9 | (279) | 241 | 139.5 | 315 | 121 | 15 | 273 | 160 | 120 | 50 | 44 | 135 | |
| 180L | 279 | 35 | 315 | 9 | 279 | (241) | 139.5 | 315 | 121 | 15 | 273 | 160 | 120 | 50 | 44 | 169 | |
| 200M | 318 | 79 | 379 | 20 | (305) | 267 | 152.5 | 350 | 133 | 19 | 370 | 260 | 180 | 60 | - | 245 | B |
| 200L | 318 | 79 | 379 | 20 | 305 | (267) | 152.5 | 350 | 133 | 19 | 370 | 260 | 180 | 60 | - | 250 | |
| 225M | 356 | 89 | 414 | 25 | 311 | 78 | 155.5 | 400 | 149 | 19 | 400 | 260 | 180 | 60 | - | 340 | |
| 250S | 406 | 100 | 490 | 29 | 311 | 120 | 155.5 | 407 | 168 | 24 | 432 | 296 | 270 | 76 | - | 410 | |
| 250M | 406 | 100 | 490 | 29 | 349 | 120 | 174.5 | 447 | 168 | 24 | 432 | 296 | 270 | 76 | - | 430 | |
| 280S | 457 | 110 | 560 | 32 | 368 | 102.5 | 184 | 435 | 190 | 24 | 525 | 296 | 270 | 76 | - | - | |
| 280M | 457 | 110 | 560 | 32 | 419 | 109 | 209.5 | 486 | 190 | 24 | 525 | 296 | 270 | 76 | - | - | |

④ Dimension K tolerance : +0.43, 0

⑥ Fig.A : Rolled steel frame motor, Fig.B : Cast iron frame motor

[Fig. B]



DP-F



Feature

- 3 PHASE
- HORIZONTAL (B5)
- ROLLED STEEL FRAME
- SQUIRREL CAGE

Specifications

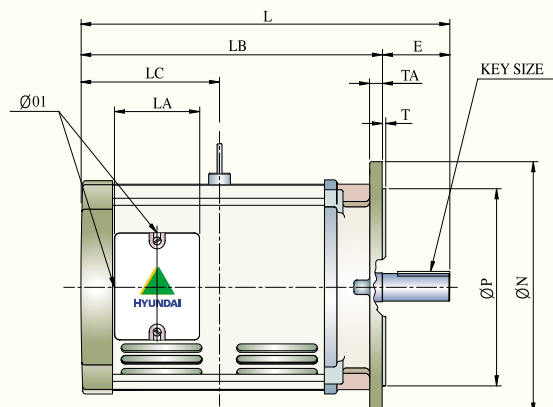
- Output (kW) : 0.75 ~ 37
- Supply Voltage : 100 V ~ 660 V
- Frequency : 50 Hz or 60 Hz
- Protection : IP22
- Insulation : B, F
- Time rating : Continuous

| FRAME | OUTPUT(kW) | | | | Dimensions in mm | | | | | | | | |
|-------|------------|---------|-------|------|------------------|-----|-----|-----|-------|-----|----------|-----|----------|
| | | | | | OVERALL | | | | SHAFT | | | | KEY SIZE |
| | 2P | 4P | 6P | 8P | AC | L | LB | LC | D ① | E | KEYWAY ② | | |
| | | | | | | | | | | | F | GE | |
| 112M | 4 | 4 | 2.2 | 0.75 | 216 | 361 | 301 | 137 | 28 | 60 | 8 | 4 | 8×7×45 |
| 132S | 5.5/7.5 | 5.5 | 3 | 1.5 | 256 | 469 | 389 | 176 | 38 | 80 | 10 | 5 | 10×8×63 |
| 132M | - | 7.5 | 4/5.5 | 2.2 | 256 | 469 | 389 | 176 | 38 | 80 | 10 | 5 | 10×8×63 |
| 160M | 11/15 | 11 | 7.5 | 4 | 312 | 631 | 521 | 232 | 48 | 110 | 14 | 5.5 | 14×9×80 |
| 160L | 18.5/22 | 15/18.5 | 11 | 5.5 | 312 | 631 | 521 | 232 | 48 | 110 | 14 | 5.5 | 14×9×80 |
| 180M | 30 | 22 | 15 | 7.5 | 342 | 673 | 563 | 259 | 55 | 110 | 16 | 6 | 16×10×80 |
| 180L | 37 | 30 | 18.5 | 11 | 342 | 673 | 563 | 259 | 55 | 110 | 16 | 6 | 16×10×80 |

① Dimension D tolerance : ~ ϕ 28 : j6, ~ ϕ 48 : k6, ϕ 55 ~ : m6

② Keyway tolerance : N9

[Fig. A]

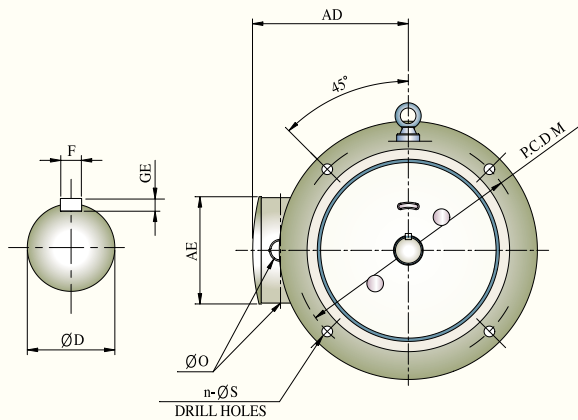




| FRAME | FLANGE | | | | | | | CONDUIT BOX | | | | | APPROX Wt.(kg) |
|-------|--------|-----|-----|---|----|----|---|-------------|-----|-----|----|----|-------------------|
| | M | N Ø | P | n | S | TA | T | AD | AE | LA | O | O1 | |
| 112M | 215 | 180 | 250 | 4 | 15 | 13 | 4 | 184 | 110 | 86 | 28 | 35 | 33 |
| 132S | 265 | 230 | 300 | 4 | 15 | 16 | 4 | 204 | 110 | 86 | 35 | 28 | 49 |
| 132M | 265 | 230 | 300 | 4 | 15 | 16 | 4 | 204 | 110 | 86 | 35 | 28 | 56 |
| 160M | 350 | 300 | 400 | 4 | 19 | 16 | 5 | 258 | 160 | 120 | 44 | 50 | 90 |
| 160L | 350 | 300 | 400 | 4 | 19 | 16 | 5 | 258 | 160 | 120 | 44 | 50 | 105 |
| 180M | 350 | 300 | 400 | 4 | 19 | 16 | 5 | 273 | 160 | 120 | 50 | 44 | 137 |
| 180L | 350 | 300 | 400 | 4 | 19 | 16 | 5 | 273 | 160 | 120 | 50 | 44 | 172 |

④ Dimension N tolerance : j6

[Fig. B]



Special Motors

Explosion-Proof Motor for Explosive Gases



- Increased-safety type (EEx e)
- Flame-proof type (EEx d)
- Applications: Oil refinery plant, mill plant, mine industry and other places having explosive gases

Treadmill Motor



- Aluminum frame motor
- Inverter rated motor
- Applications: Treadmill (Running machine)

Close Coupled Pump Motor



- NEMA JM, JP shaft options
- Clamped pulley-end bearing
- Removable base
- Drip-cover is available
- Application: pumps

Crown Triton™ Motor



- Premium efficiency
- TEFC Heavy duty
- Applications(For the process industries):
oil refinery plant, steel plant, paper & pulp plant
food & beverage plant, and other places
necessary to reduce operating costs
- CSA C US Certified (LR 109502, EEV 109973)
and accepted in U.S. and CANADA