

|                                                |                                        |                           |             |
|------------------------------------------------|----------------------------------------|---------------------------|-------------|
| MODEL NUMBER                                   | HHI1-18-575-143T                       |                           |             |
| HORSEPOWER                                     | 1                                      |                           |             |
| RPM / POLES                                    | 1800 / 4                               |                           |             |
| VOLTAGE / PHASE                                | 575 V / 3                              |                           |             |
| FRAME                                          | 143T                                   |                           |             |
| ENCLOSURE / DEGREE OF PROTECTION               | TEFC / IP54                            |                           |             |
| FREQUENCY                                      | 60 HZ                                  |                           |             |
| FULL LOAD SPEED                                | 1740 RPM                               |                           |             |
| SERVICE FACTOR                                 | 1.15 SF at 40° C / 1.0 SF at 65° C     |                           |             |
| INSULATION CLASS                               | F    Class N Varnish                   |                           |             |
| FULL LOAD AMPS                                 | 1.3 A                                  |                           |             |
| LOCKED ROTOR CURRENT (% Full Load)             | 930 %                                  |                           |             |
| NEMA CODE LETTER                               | N                                      |                           |             |
| EFFICIENCY / POWER FACTOR                      | <u>LOAD</u>                            | <u>EFF.</u>               | <u>P.F.</u> |
|                                                | 100 %                                  | 85.5 %                    | 70.0 %      |
|                                                | 75 %                                   | 85.6 %                    | 60.0 %      |
|                                                | 50 %                                   | 79.5 %                    | 46.0 %      |
| DUTY CYCLE                                     | S1 / Continuous                        |                           |             |
| TORQUE                                         | <u>FULL LOAD</u>                       | <u>LRT</u>                | <u>BDT</u>  |
|                                                | 3.0 lb.ft.                             | 280 %                     | 310 %       |
| NEMA DESIGN                                    | B                                      |                           |             |
| MOMENT OF INERTIA                              | <u>LOAD (Max.)</u>                     | <u>MOTOR</u>              |             |
|                                                | 14.832 lb.ft. <sup>2</sup>             | 0.059 lb.ft. <sup>2</sup> |             |
| SOUND PRESSURE LEVEL ( No Load 1 M From Motor) | 64 dB(A)                               |                           |             |
| NUMBER OF STARTS (Hot / Cold)                  | 2 Hot / 3 Cold                         |                           |             |
| MAX. AMBIENT TEMPERATURE                       | 40° C at 1.15 SF / 65° C at 1.0 SF     |                           |             |
| MAX. ELEVATION                                 | 3300 Ft. Above Sea Level               |                           |             |
| TEMPERATURE RISE (At Full Load)                | 80° C                                  |                           |             |
| DRIVE-END BEARING                              | 6205ZZC3                               |                           |             |
| OPPOSITE DRIVE-END BEARING                     | 6204ZZC3                               |                           |             |
| GREASE TYPE                                    | Mobil Polyrex EM                       |                           |             |
| MOUNTING                                       | F1 (F2 Suitable), W6, W8, B3, V5, V6   |                           |             |
| ROTATION                                       | Bi-Directional                         |                           |             |
| APPROXIMATE WEIGHT                             | 53 lbs.                                |                           |             |
| AREA CLASSIFICATION                            | Class I, Division 2, Groups A, B, C, D |                           |             |
| INVERTER RATING                                | 10:1 CT / 20:1 VT                      |                           |             |
| SPECIFICATION - In Accordance With             | NEMA, CSA                              |                           |             |



CC 038A





# TEFC

## TYPE

LP,JP

CAST IRON FRAME

**THREE PHASE INDUCTION MOTOR**

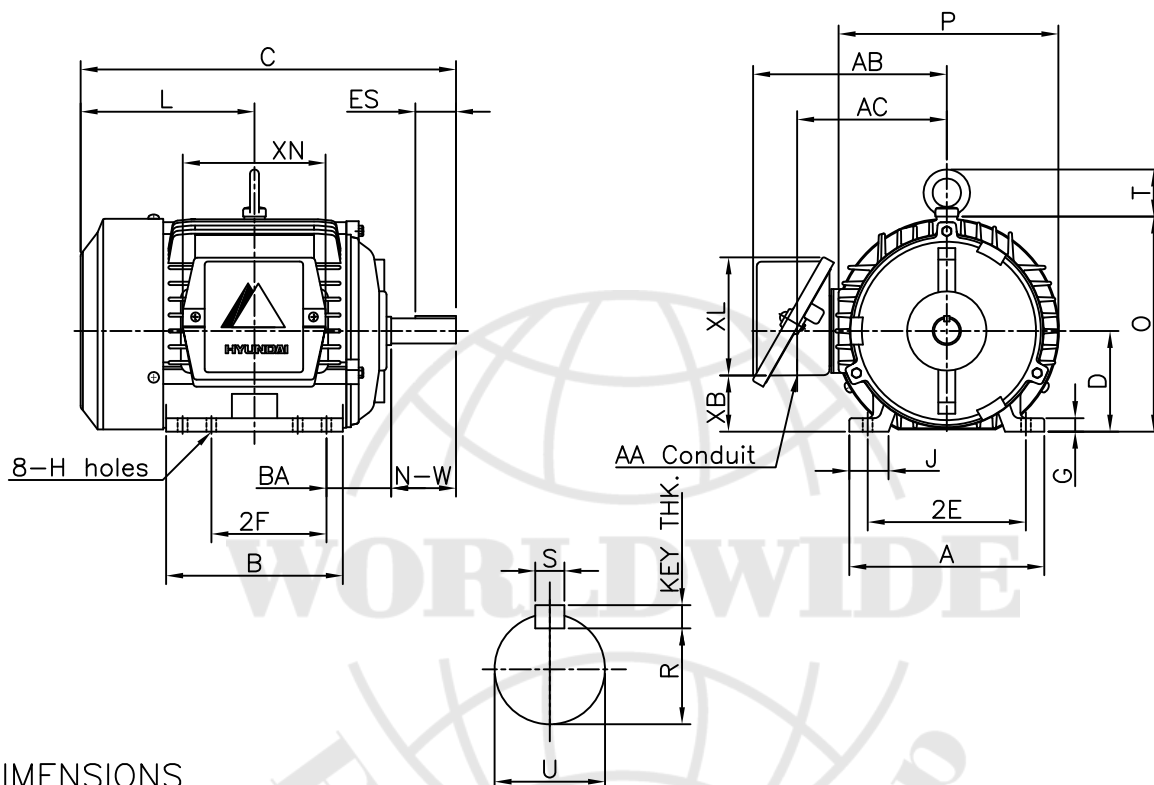
FRAME SIZE

OUTPUT(HP)

POLES

Hz

TIME RATING



### DIMENSIONS

| M O U N T I N G |      |      |      |   |   |      |      |      | CONDUIT BOX |      |      |      |      |      | APPROX.<br>WGT.(LB) |
|-----------------|------|------|------|---|---|------|------|------|-------------|------|------|------|------|------|---------------------|
| A               | B    | 2E   | 2F   | - | - | G    | J    | H    | AA          | AB   | AC   | XB   | XL   | XN   |                     |
| 6.78            | 6.15 | 5.50 | 4.00 | - | - | 0.47 | 1.36 | 0.34 | 0.75        | 6.73 | 5.21 | 1.95 | 4.10 | 4.96 | 53                  |

| O V E R A L L |       |      |      |      |      |      | S H A F T |      |        |      |       | KEY<br>THK. | BEARING      |                      |
|---------------|-------|------|------|------|------|------|-----------|------|--------|------|-------|-------------|--------------|----------------------|
| BA            | C     | D    | L    | O    | P    | T    | U         | N-W  | KEYWAY |      |       |             | DRIVE<br>END | OPP.<br>DRIVE<br>END |
|               |       |      |      |      |      |      |           |      | R      | ES   | S     |             |              |                      |
| 2.25          | 13.05 | 3.50 | 6.05 | 7.46 | 7.64 | 1.63 | 0.875     | 2.25 | 0.771  | 1.41 | 0.188 | 0.188       | 6205ZZ       | 6204ZZ               |

### NOTE

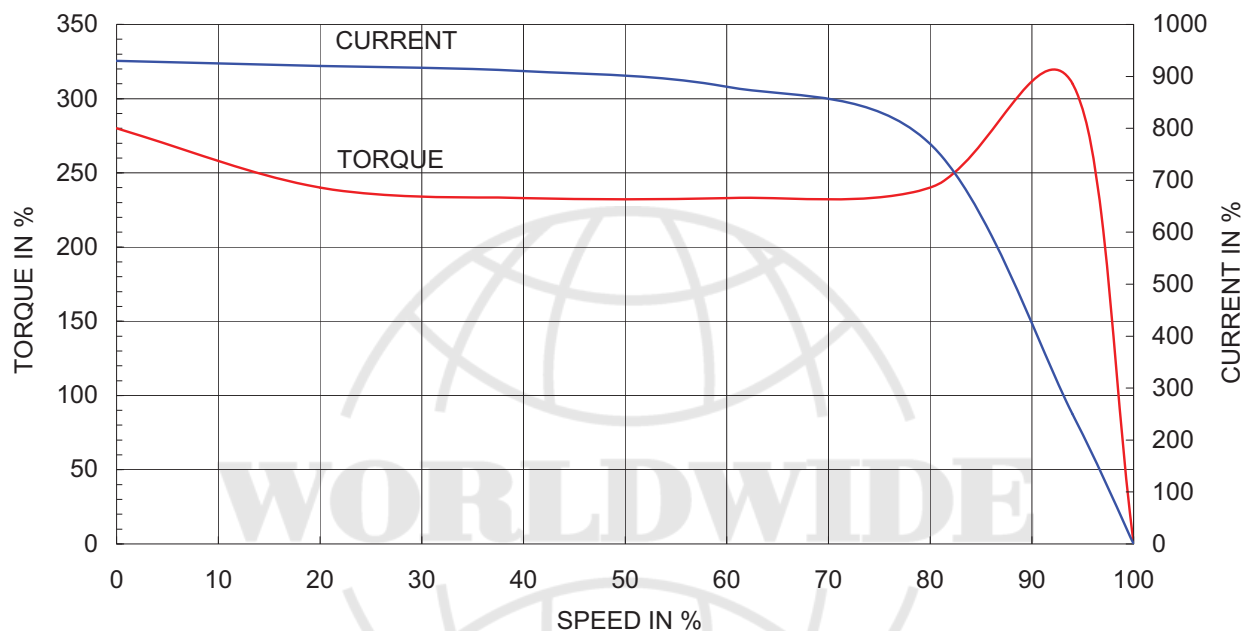
- 1.Dimension "D" tolerance : +0.00inch - 0.03inch
- 2.Dimension "U" tolerance : +0.000inch - 0.0005inch
- 3.Dimension "R" tolerance : +0.000inch - 0.015inch

|                                                                                                                                                                      |    |         |          |            |         |            |                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------|----------|------------|---------|------------|--------------------|
| APPD                                                                                                                                                                 | BY | J.H.KIM | UNIT     | INCH       | SUBJECT | NEMA 143T  | CAD PROJ \ FILE    |
| CHKD                                                                                                                                                                 | BY | N.D.LEE | SCALE    | 1/8        |         |            | SCALE-NEMA\A1101AA |
| CHKD                                                                                                                                                                 | BY | K.S.LEE | PROJEC'N | 3rd Angle  | TITLE   | OUTLINE    |                    |
| DSND                                                                                                                                                                 | BY | S.W.SEO | DATE     | 2010.12.20 |         |            |                    |
|  <b>HYUNDAI</b><br>HEAVY INDUSTRIES CO., LTD.<br>Electro-Electric System Division |    |         |          |            | REF. NO | 350A1101AA | Sheet No. of       |
|                                                                                                                                                                      |    |         |          |            | DWG NO  | 350A1101AA | Revision No. 0     |

|                             |   |                           |
|-----------------------------|---|---------------------------|
| Type                        | : | PLP                       |
| Full Load Torque            | : | 3.0 lb.ft                 |
| Motor moment of Inertia (J) | : | 0.059 lb.ft <sup>2</sup>  |
| Load moment of Inertia (J)  | : | 14.832 lb.ft <sup>2</sup> |

|                   |      |                        |      |       |  |
|-------------------|------|------------------------|------|-------|--|
| 0.75 kW           |      | 1 HP                   |      | 60 Hz |  |
| 4 P               |      | Rated Speed : 1740 RPM |      |       |  |
| Rated Voltage     | 575V | 460V                   | 230V |       |  |
| Full Load Current | 1.3A | 1.6A                   | 3.2A |       |  |

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

