

| | | | |
|--|--|---------------------------|-------------|
| MODEL NUMBER | HHI7.5-18-213TC | | |
| HORSEPOWER | 7.5 | | |
| RPM / POLES | 1800 / 4 | | |
| VOLTAGE / PHASE | 230 / 460 V / 3 | | |
| FRAME | 213TC | | |
| ENCLOSURE / DEGREE OF PROTECTION | TEFC / IP54 | | |
| FREQUENCY | 60 HZ | | |
| FULL LOAD SPEED | 1760 RPM | | |
| SERVICE FACTOR | 1.15 SF at 40° C / 1.0 SF at 65° C | | |
| INSULATION CLASS | F Class N Varnish | | |
| FULL LOAD AMPS; 230 / 460 | 19.0 / 9.5 A | | |
| LOCKED ROTOR CURRENT (% Full Load) | 770 / 770 % | | |
| NEMA CODE LETTER | J | | |
| EFFICIENCY / POWER FACTOR | <u>LOAD</u> | <u>EFF.</u> | <u>P.F.</u> |
| | 100 % | 91.7 % | 79.0 % |
| | 75 % | 91.7 % | 74.0 % |
| | 50 % | 89.5 % | 63.0 % |
| DUTY CYCLE | S1 / Continuous | | |
| TORQUE | <u>FULL LOAD</u> | <u>LRT</u> | <u>BDT</u> |
| | 22.0 lb.ft. | 190 % | 250 % |
| NEMA DESIGN | B | | |
| MOMENT OF INERTIA | <u>LOAD (Max.)</u> | <u>MOTOR</u> | |
| | 130.518 lb.ft. ² | 0.570 lb.ft. ² | |
| SOUND PRESSURE LEVEL (No Load 1 M From Motor) | 68 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 | 6307ZCC3 | | |
| OPPOSITE DRIVE-END BEARING | 6307ZCC3 | | |
| GREASE TYPE | Mobil Polyrex EM | | |
| MOUNTING | F1 (F2 Suitable), W6, W8, B3, V5, V6 | | |
| ROTATION | Bi-Directional | | |
| APPROXIMATE WEIGHT | 150 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

THREE PHASE INDUCTION MOTOR

TYPE

KP,IP

CAST IRON FRAME

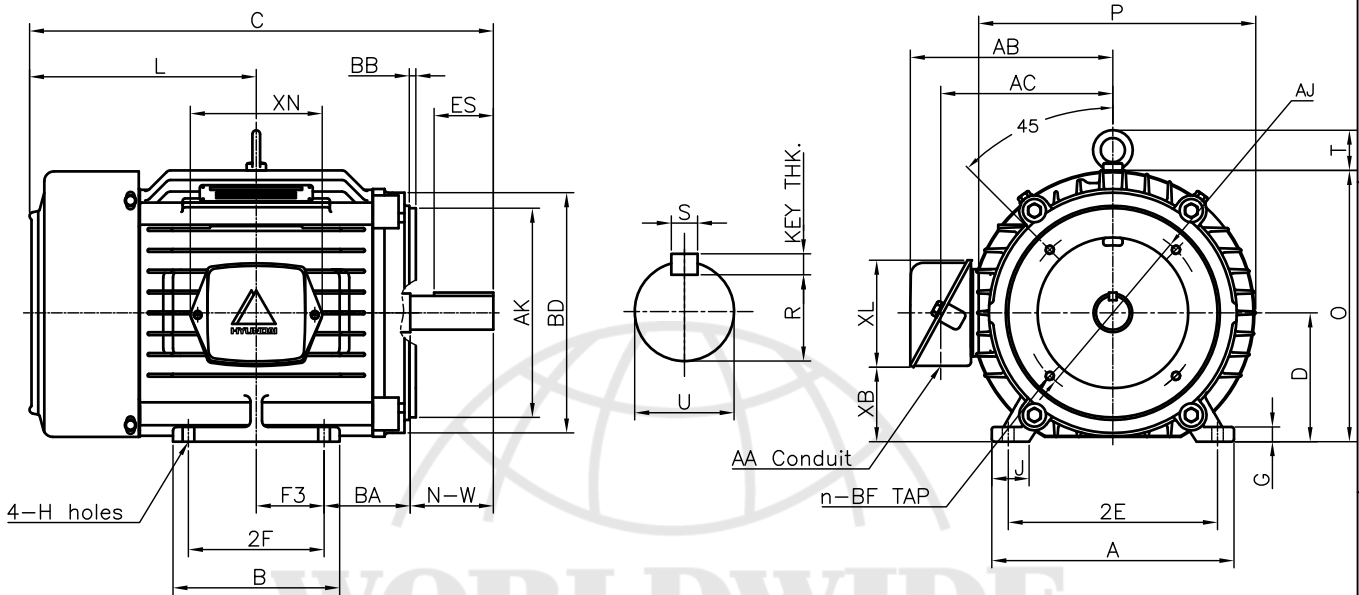
FRAME SIZE

OUTPUT(HP)

POLES

Hz

TIME RATING



DIMENSIONS

| FLANGE | | | | | | M O U N T I N G | | | | | | | | |
|--------|------|------|------|--------|---|-----------------|------|------|------|---|------|------|------|------|
| AJ | AK | BD | BB | BF | n | A | B | 2E | 2F | - | F3 | G | J | H |
| 7.25 | 8.50 | 9.00 | 0.25 | 1/2-13 | 4 | 9.85 | 6.77 | 8.50 | 5.50 | - | 2.75 | 0.60 | 1.52 | 0.41 |

| CONDUIT BOX | | | | | | O V E R A L L | | | | | | | APPROX. WGT.(LB) |
|-------------|------|------|------|------|------|---------------|-------|------|------|-------|-------|------|------------------|
| AA | AB | AC | XB | XL | XN | BA | C | D | L | O | P | T | |
| 1.00 | 8.23 | 7.34 | 3.03 | 4.35 | 5.35 | 3.50 | 18.86 | 5.25 | 9.22 | 11.02 | 11.26 | 1.63 | 150 |

| S H A F T | | | | | KEY THK. | B E A R I N G | |
|-----------|------|--------|------|-------|----------|---------------|----------------|
| U | N-W | KEYWAY | | | | DRIVE END | OPP. DRIVE END |
| | | R | ES | S | | | |
| 1.375 | 3.38 | 1.201 | 2.41 | 0.312 | 0.312 | 6307ZZC3 | 6307ZZC3 |

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 213TC(KIT) | CAD PROJ \ FILE |
| CHKD BY | N.D.LEE | SCALE | 1/8 | | | SCALE-NEMA\A1305AA |
| CHKD BY | K.S.LEE | PROJEC'N | 3rd Angle | TITLE | | |
| DSND BY | S.W.SEO | DATE | 2010.12.20 | | | |

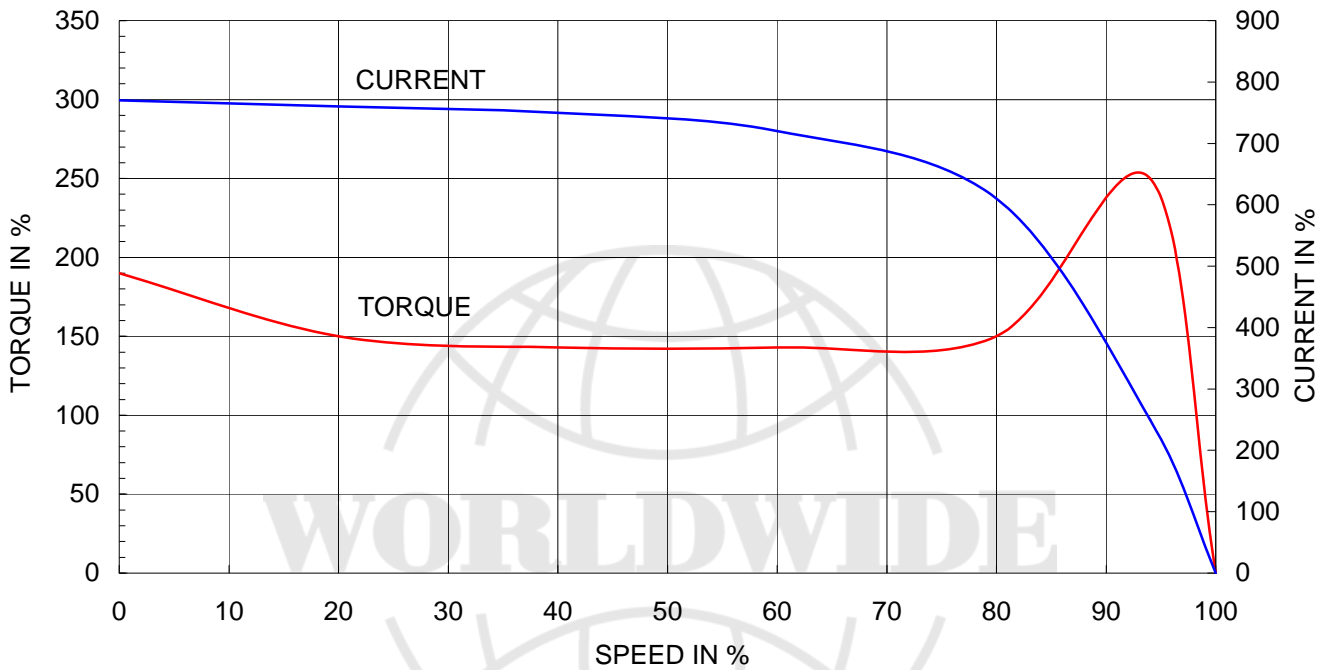
OUTLINE

| | | | |
|--|---------|------------|----------------|
| | REF. NO | 350A1305AA | Sheet No. of |
| | DWG NO | 350A1305AA | Revision No. 0 |

| | | |
|-----------------------------|---|----------------------------|
| Type | : | PKP |
| Full Load Torque | : | 22.0 lb.ft |
| Motor moment of Inertia (J) | : | 0.570 lb.ft ² |
| Load moment of Inertia (J) | : | 130.518 lb.ft ² |

| | | | |
|-------------------|--------|---------------|----------|
| | 5.5 kW | 7.5 HP | 60 Hz |
| | 4 P | Rated Speed : | 1760 RPM |
| Rated Voltage | 575V | 460V | 230V |
| Full Load Current | 7.6A | 9.5A | 19.0A |

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE

