

Customer :
Project Name :
Project No. :
Revision No. :

SPECIFICATION for INDUCTION MOTOR



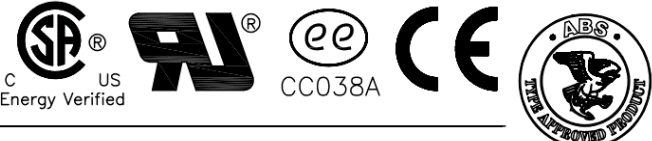
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|-----|------|-------------|-------------|------------|-------------|
| | | | | | |
| 0 | | For Bidding | | | |
| No. | DATE | DESCRIPTION | PREPARED BY | CHECKED BY | APPROVED BY |

| | | | |
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| 1 | 2 | 3 | 4 |
| REV | DATE | CONTENTS | REVD BY CHKD BY CHKD BY APPD BY |
| | | | |
| | | | |


4.72

CROWN TRITON


Premium Efficiency AC 3 Phase Motor



| | | | | | | | | | | | |
|-------------------|---|--|------------|--|-------|--------|-------------|----------------|-------------|-------------|-------------|
| 60HP | 4P | 230/460V | Cat. No. | HHI60-18-364TC | | | | | | | |
| Model | HLS364PR04 | | INS. Class | F | HD-F1 | Amps | 139.9/69. | | | | |
| Type | HLS | Duty | CONT | Code | G | Amb. | 40°C | Hertz | 60Hz | | |
| Frame | 364TC | Encl. | TEFC | S.F. | 1.15 | RPM | 1780 | NEMA Nom. Eff. | 95% | | |
| Bearing | Drive | 6314C3 | | S.F.1.00 (10:1 C.T., 20:1 V.T., NEMA-MG1 Part31) | | | 3/4 Eff. | 94% | | | |
| | Opp. | 6213C3 | | | | | NEMA Design | B | | | |
| Usable at | 50Hz 60HP 380V 83.4A 1475rpm S.F.: 1.0 Eff.: 94.2% Code: E | | | | | | | | | | |
| | 50Hz 60HP 400/415V 80.7/79.4A 1478/1479rpm S.F.: 1.0 Eff.: 94.4/94.5% Code: F/G | | | | | | | | | | |
| CSA Certified for | Model | LATER | | Type | PJP | | Temp. Code | Frame | 140~320FR | 360~400FR | 440FR |
| | CLASS I, Div. 2, Gr. A, B, C & D CLASS I, Zone 2, Gr. IIA, IIB, & IIC | CLASS II, Div. 2 Gr. E, F & G (Gr. E : Up to 320FR) | | | | | Amb. 40°C | T3C (160°C) | T3B (165°C) | T3A (180°C) | T3A (180°C) |
| | | | | | | | Amb. 55°C | T3A (180°C) | T3A (180°C) | T3 (200°C) | |
| No. | - | | Date | - | | Weight | 825 lb | | | | |

4M-135702
Made in Korea H1


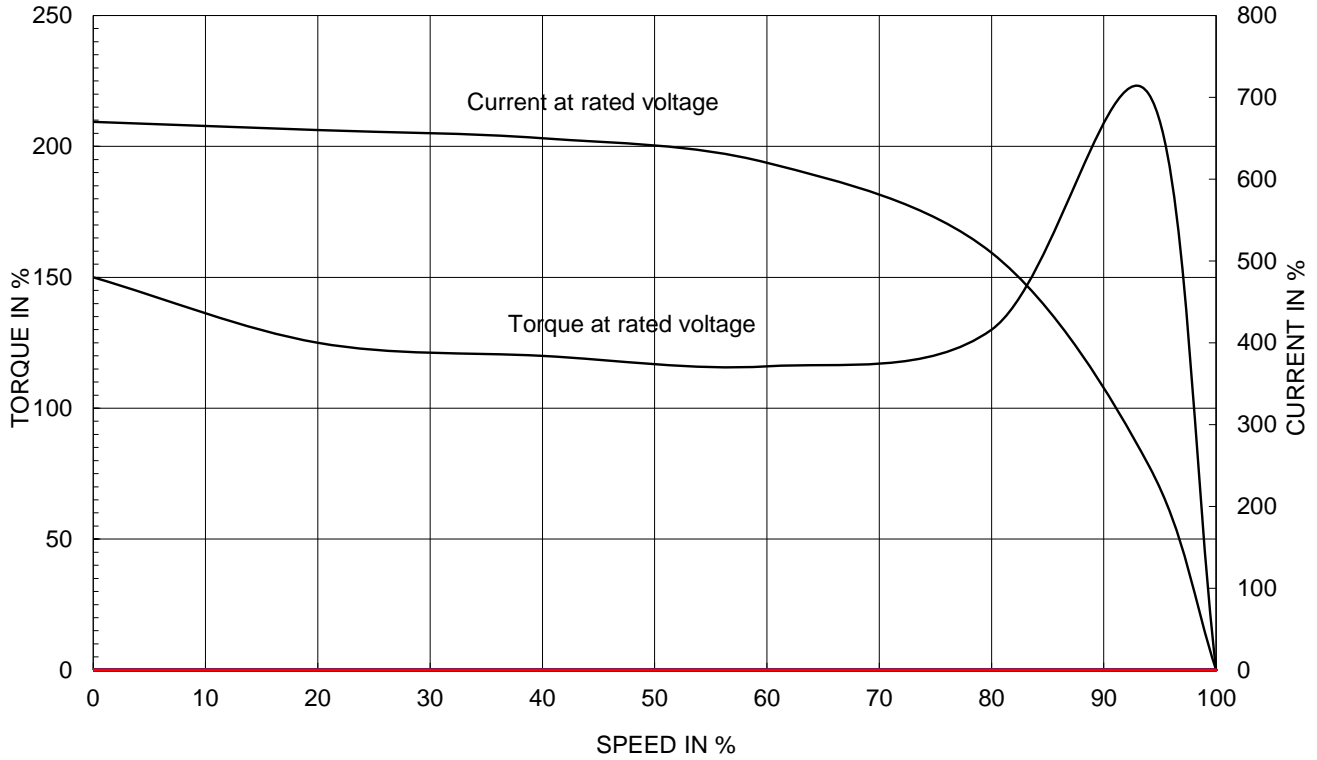
2.36

| | | | | | | |
|---|---------|----------|------------|-----------------------------------|---|-----------------------|
| APPD BY | S.Y.KIM | UNIT | INCH | SUBJECT | CSA Class I, Division2 Severe Duty (HHI, 364-449) | DWG SIZE |
| CHKD BY | I.K.KIM | SCALE | NONE | | | A4 (1:1) |
| CHKD BY | R.G.KIM | PROJEC'N | 3rd Angle | TITLE NAMEPLATE DRAWING | | |
| DSND BY | S.H.LEE | DATE | 2024.06.07 | | | |
|  | | | | REF. NO | 4M-135702 | Sheet No. of |
| | | | | DWG NO | NP-HHI60-18-364TC | Revision No. 0 |

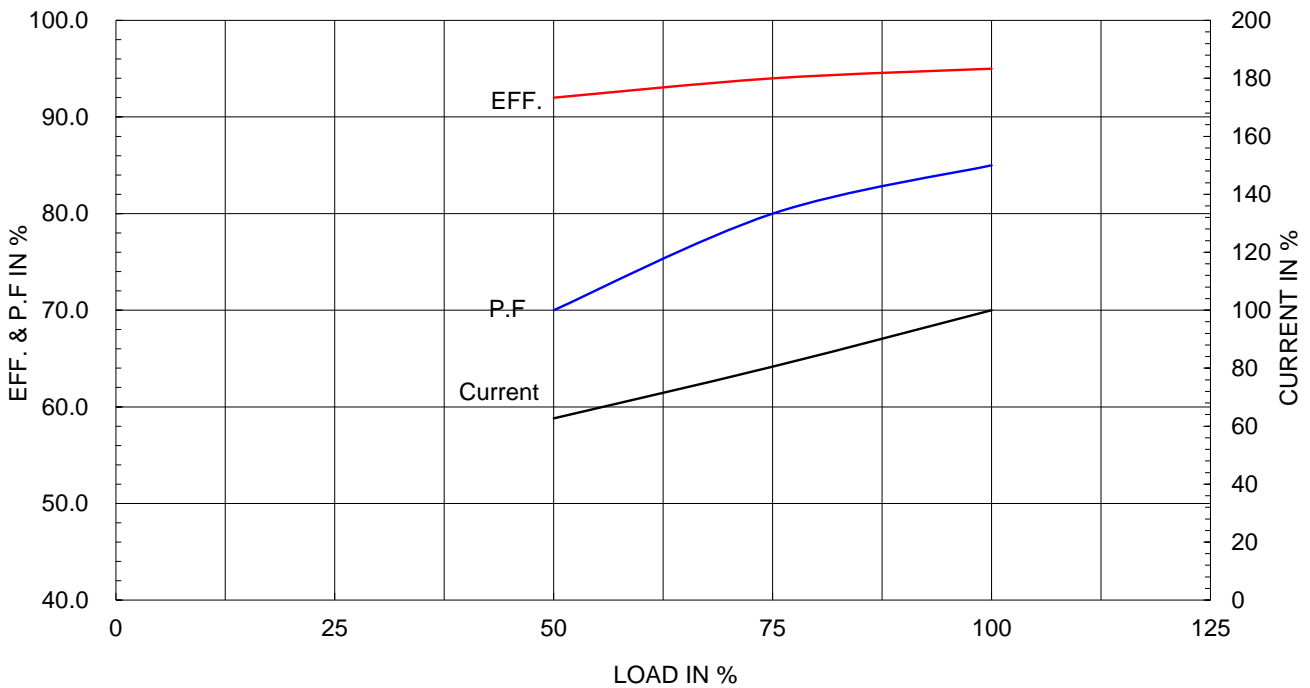
| | | |
|-------------------------------|---------|--------------------|
| Type : | PJP | |
| Full Load Torque : | 178.1 | lb.ft |
| Load moment of Inertia (J) : | 616.991 | lb.ft ² |
| Motor moment of Inertia (J) : | 17.640 | lb.ft ² |

| | | | |
|----------------------|-------|-------|----------|
| 45kW | 60HP | 4 P | 60 Hz |
| Speed at Full Load : | | | 1780 RPM |
| Rated Voltage | 575V | 460V | 230V |
| Full Load Current | 56.0A | 69.9A | 139.9A |

SPEED VS TORQUE & CURRENT CURVE



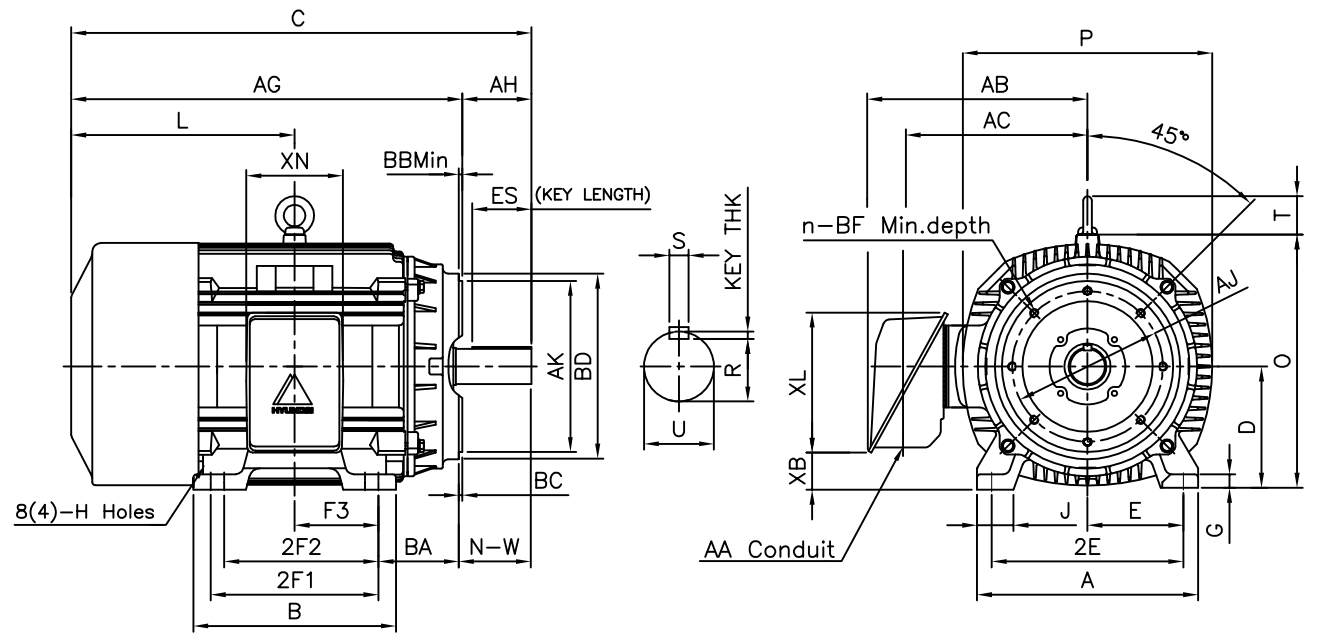
OUTPUT VS EFF., P.F & CURRENT CURVE



본 도면은 HD현대일렉트릭(주) 재산이며 허가없이 복사할 수 없음 (취급유의)

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| | | | | | | | | |
|------|-------|-----|------|----------|---------|---------|---------|---------|
| ▽ | 50S | REV | DATE | CONTENTS | REVD BY | CHKD BY | CHKD BY | APPD BY |
| ▽▽ | 12.5S | | | | | | | |
| ▽▽▽ | 3.2S | | | | | | | |
| ▽▽▽▽ | 0.4S | | | | | | | |



DIMENSIONS

Unit:inch

| M O U N T I N G | | | | | | | | | C O N D U I T B O X | | | | | | APPROX. WGT.(LB) |
|-----------------|-------|-------|---------|-------|-------|------|------|------|---------------------|-------|-------|------|-------|------|------------------|
| A | B | 2E | 2F1 | 2F2 | F3 | G | J | H | AA | AB | AC | XB | XL | XN | |
| 16.14 | 14.92 | 14.00 | (12.25) | 11.25 | 6.122 | 0.98 | 2.72 | 0.66 | 3.00 | 17.13 | 13.82 | 2.70 | 10.24 | 7.09 | 825 |

| O V E R A L L | | | | | | | | | S H A F T | | | | KEY | BEARING | |
|---------------|-------|------|-------|-------|-------|------|-------|-------|-----------|--------|------|-------|-------|-----------|----------------|
| BA | C | D | L | O | P | T | AG | U | N-W | KEYWAY | | | THK. | DRIVE END | OPP. DRIVE END |
| | | | | | | | | | | R | ES | S | | | |
| 5.88 | 34.01 | 9.00 | 16.13 | 18.50 | 17.75 | 2.80 | 28.13 | 2.375 | 5.88 | 2.021 | 4.28 | 0.625 | 0.625 | 6314C3 | 6213C3 |

| C - F A C E | | | | | | | | |
|-------------|-------|--------|------|-------|--------|----------|---|------|
| AJ | AK | BB Min | BC | BD | BF | BF depth | n | AH |
| 11.00 | 12.50 | 0.25 | 0.25 | 13.54 | 5/8-11 | 0.94 | 8 | 5.62 |

NOTE

- 1.Dimension "D" tolerance : +0.00inch ~ -0.03inch (143TC-365TC) : +0.000inch ~ -0.06inch (404TC-449TC)
- 2.Dimension "U" tolerance : +0.000inch ~ -0.0005inch (143TC-215TC): +0.000inch ~ -0.001inch (254TC-449TC)
- 3.Dimension "R" tolerance : +0.000inch ~ - 0.015inch
- 4.Dimension "AK" tolerance : +0.000inch ~ -0.003inch (143TC-286TC): +0.000inch ~ -0.005inch (324TC-449TC)

| | | | | | | |
|---------|---------|----------|------------|-------------------------|------------|------------------------|
| APPD BY | S.K.HAN | UNIT | inch | SUBJECT | NEMA 364TC | DWG SIZE A4 (1:1) |
| CHKD BY | S.Y.KIM | SCALE | None | | | |
| CHKD BY | Y.H.BAE | PROJEC'N | 3rd Angle | TITLE OUTLINE | | |
| DSND BY | H.C.LIM | DATE | 2019-06-05 | | | |



| | | | |
|---------|-----------------|--------------|----|
| REF. NO | 350A1313AA | Sheet No. | of |
| DWG NO | LM-T1364C4PL001 | Revision No. | 0 |

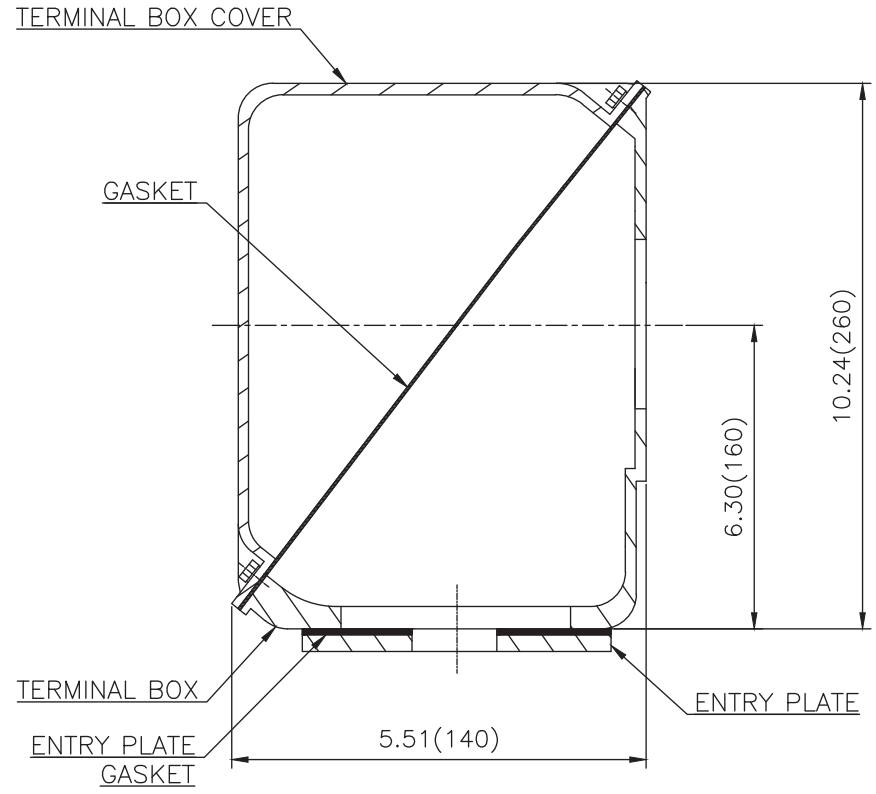
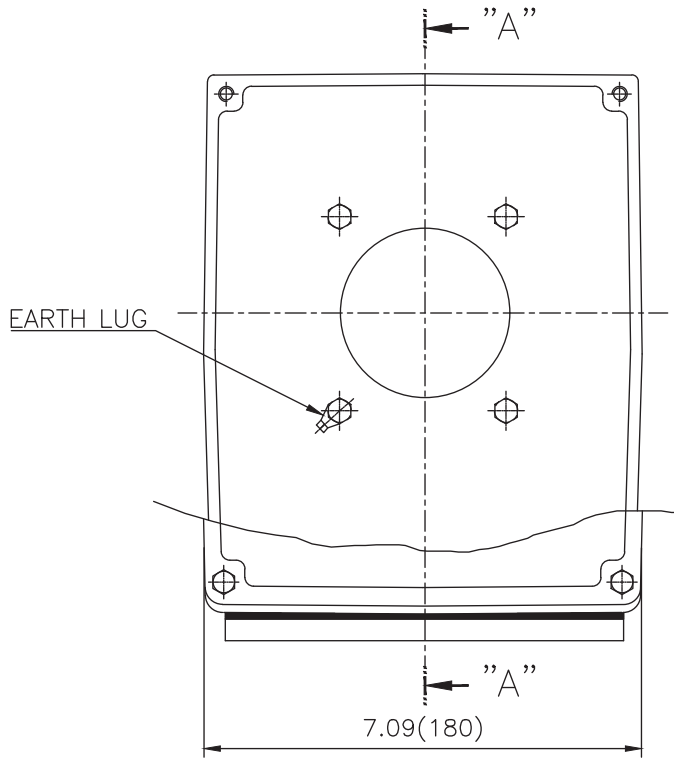


HD HYUNDAI ELECTRIC

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Cls. I&II, Div. 2 IEEE 841



SEC. "A" - "A"

| | |
|------|-------|
| ▽ | 50S |
| ▽▽ | 12.5S |
| ▽▽▽ | 3.2S |
| ▽▽▽▽ | 0.4S |

| REV | DATE | CONTENTS | REVD BY | CHKD BY | CHKD BY | APPD BY |
|-----|------|----------|---------|---------|---------|---------|
| | | | | | | |

| 일반가공공차 | | 일반재공공차 | |
|--------|------|----------|------|
| 1-4 | ±0.1 | 6-30 | ±0.5 |
| 4-18 | ±0.2 | 30-120 | ±0.8 |
| 18-63 | ±0.3 | 120-315 | ±1.2 |
| 63-250 | ±0.5 | 315-1000 | ±2.0 |
| 250- | ±0.8 | 1000- | ±3.0 |

| Q'TY | DESCRIPTION | MATERIAL | DIMENSION | WEIGHT | PART NO. | REMARK | NO. |
|----------------------------|-------------|----------|------------|-------------------------|--------------------|--------------|------------|
| APPD BY | S.Y.KIM | UNIT | inch(mm) | SUBJECT | FR.360 (CAST IRON) | DWG SIZE | A3 (1:1.2) |
| CHKD BY | | SCALE | 1/1.2 | TITLE | | | |
| CHKD BY | R.G.KIM | PROJEC'N | 3rd Angle | MAIN TERMINAL BOX ASS'Y | | | |
| DSND BY | 내승희 | DATE | 2023-10-19 | REF. NO | | Sheet No. | of |
| HD HYUNDAI ELECTRIC | | | | DWG NO | 3M-248450 | Revision No. | 0 |