

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

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## SPECIFICATION for INDUCTION MOTOR



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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|----------------|------------------------------------------------------------------------|----------|----------|
|                                                                                                                                                                                                                                                                                                                                                                                                            |           | AC INDUCTION MOTOR DATA SHEET                                                                                                 |  |                                                              |                |                                                                        |          |          |
| Model No.or RFQ No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 2206KSTD40SSDS1STFE3B31DL0SD3                                                                                                 |  | Item No.                                                     |                | Rev. No.                                                               | [      ] |          |
| Project Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                                               |  | Project No.                                                  |                | Quantity                                                               |          |          |
| GENERAL SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                                                                                                               |  | PERFORMANCE DATA                                             |                |                                                                        |          |          |
| Frame Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 180M                                                                                                                          |  | Rated Output                                                 |                | 22 kW                                                                  |          | 30 HP    |
| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | HLP-22/2                                                                                                                      |  | Number of Poles                                              |                | 2                                                                      |          |          |
| Enclosure(Protection)                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | Totally Enclosed ( IP55 )                                                                                                     |  | Rotor Type                                                   |                | Squirrel Cage                                                          |          |          |
| Method of Cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | IC411(FC)                                                                                                                     |  | Starting Method*                                             |                | <input checked="" type="checkbox"/> D.O.L <input type="checkbox"/> Y-Δ |          |          |
| Rated Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | 60 Hz                                                                                                                         |  | Rated Voltage                                                |                | 220 V                                                                  |          |          |
| Number of Phases                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | 3                                                                                                                             |  | Current                                                      | Full Load      | 70.7 A                                                                 |          |          |
| Insulation Class                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | <input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H                                   |  |                                                              | Locked-rotor** | 950 %                                                                  |          |          |
| Temp. Rise at full load (by resistance method)                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                                               |  | Efficiency                                                   |                |                                                                        |          |          |
| at 1.0 S.F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 80 deg. C                                                                                                                     |  | 50% Load                                                     |                | 90.6 %                                                                 |          |          |
| Motor Location                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor                                                   |  | 75% Load                                                     |                | 91.9 %                                                                 |          |          |
| Altitude                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Less than 1000                                                                                                                |  | 100% Load                                                    |                | 91.7 %                                                                 |          |          |
| Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Less than 80 %                                                                                                                |  | Power Factor(p.u)                                            |                |                                                                        |          |          |
| Ambient Temp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 40 deg. C (Max.)                                                                                                              |  | 50% Load                                                     |                | 0.845                                                                  |          |          |
| Duty Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Continuous(S1)                                                                                                                |  | 75% Load                                                     |                | 0.878                                                                  |          |          |
| Service Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 1.15                                                                                                                          |  | 100% Load                                                    |                | 0.890                                                                  |          |          |
| Mounting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | <input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5 |  | Speed at Full Load                                           |                | 3560 r.p.m                                                             |          |          |
| Bearing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Type      | Anti-Friction                                                                                                                 |  | Torque                                                       |                |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DE/N-DE   | 6212ZZC3 / 6310ZZC3                                                                                                           |  | Full Load                                                    |                | 6.0 kg·m                                                               |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lubricant | Grease(Polyrex-EM)                                                                                                            |  | Locked-rotor**                                               |                | 160 %                                                                  |          |          |
| External Thrust                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | Not applicable                                                                                                                |  | Breakdown**                                                  |                | 230 %                                                                  |          |          |
| Coupling Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | <input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt                                                    |  | Moment of Inertia (J)                                        |                |                                                                        |          |          |
| Shaft Extension                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double                                                    |  | Load(Max.)                                                   |                | 2.850 kg·m²                                                            |          |          |
| Terminal Box                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Main      | <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron                                                  |  | Motor                                                        |                | 0.088 kg·m²                                                            |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Aux.      | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                           |  | Sound Pressure Level (No-load & mean value at 1m from motor) |                |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Location  | Refer to Outline Drawing                                                                                                      |  |                                                              |                | 86 dB(A)                                                               |          |          |
| Application                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                                                                               |  | Vibration                                                    |                | 2.2 mm/sec (r.m.s)                                                     |          |          |
| Area classification                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Not applicable                                                                                                                |  | Permissible number of consecutive starts                     |                | Cold                                                                   | 3 times  |          |
| Type of Ex-Protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | Non-Hazardous                                                                                                                 |  |                                                              |                | Hot                                                                    | 2 times  |          |
| Applicable Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | KS, IEC, NEMA MG1 Part30(Vpeak)                                                                                               |  | Paint                                                        | Munsell No.    | 4.4PB5.5/5.6(VL-451)                                                   |          |          |
| ACCESSORIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                                                                               |  | SUBMITTAL DRAWING                                            |                |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  | Outline Dimension Drawing                                    |                | \ Motor Weight(Approx.)                                                |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  | B3                                                           |                | LM-T1183B3PL001                                                        | 177 kg   |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  | Main T-Box Ass'y                                             |                | 3M-145860                                                              |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  |                                                              |                |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  |                                                              |                |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  |                                                              |                |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  | REMARK                                                       |                |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  | *.Premium Efficiency(IE3)                                    |                |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  | *.For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise         |                |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  |                                                              |                |                                                                        |          |          |
| SPARE PARTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                                                                               |  |                                                              |                |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  | Date                                                         | DSND           | CHKD                                                                   | CHKD     | APPD     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  | 2018-04-25                                                   | R.G. KIM       | -                                                                      | O.J. KIM | S.K. HAN |
| Note: Others not mentioned in this data sheet shall be in accordance with maker standard.<br>Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.<br>Inspection and performance test shall be maker standard, if not mentioned.<br>* In case of Inverter-Fed Motor, performance data is based on sine wave tests.<br>** The data are based on rated voltage & frequency, and data are expressed as a percentage of full load value. |           |                                                                                                                               |  |                                                              |                |                                                                        |          |          |
| HEES W230-131-1      * In case of Inverter or V.V.V.F Motor:Performance data is based on sine wave tests.      A4(210mm X 297mm)                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                                                               |  |                                                              |                |                                                                        |          |          |

Type : **HLP-22/2**

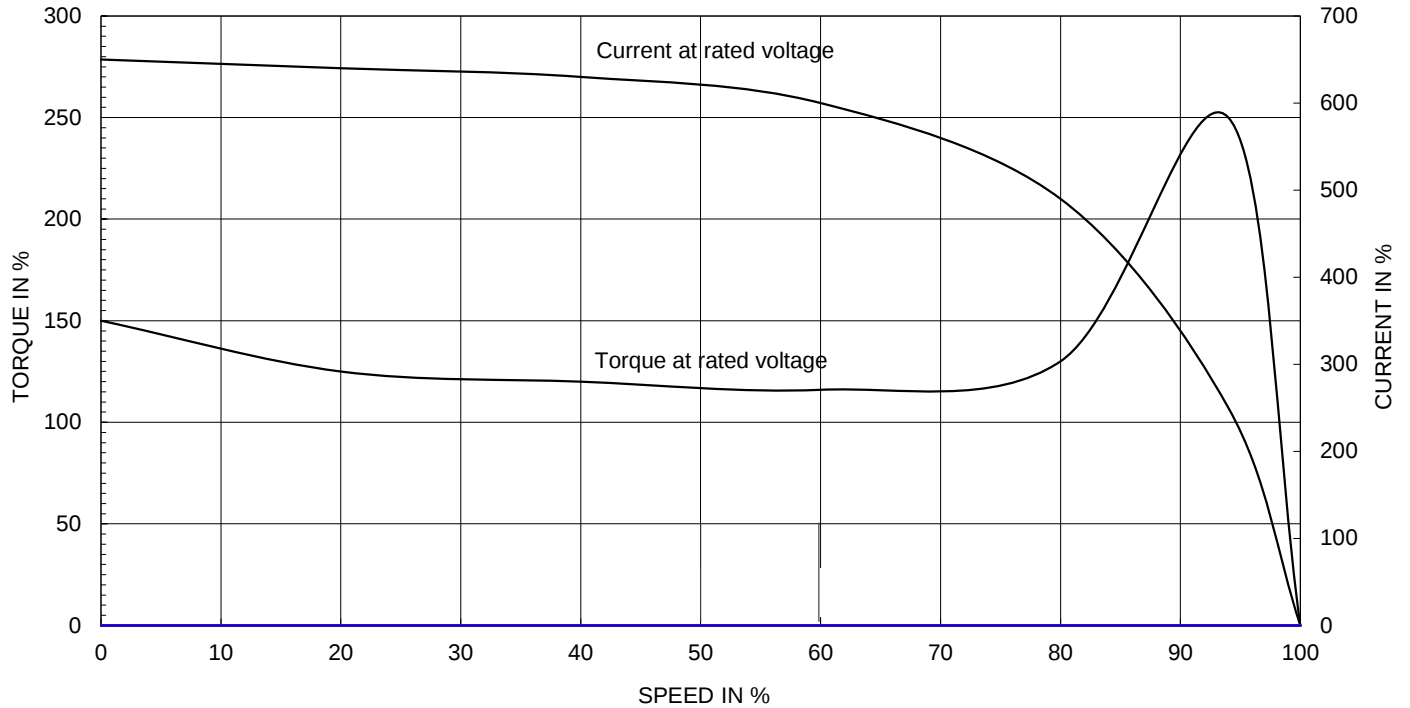
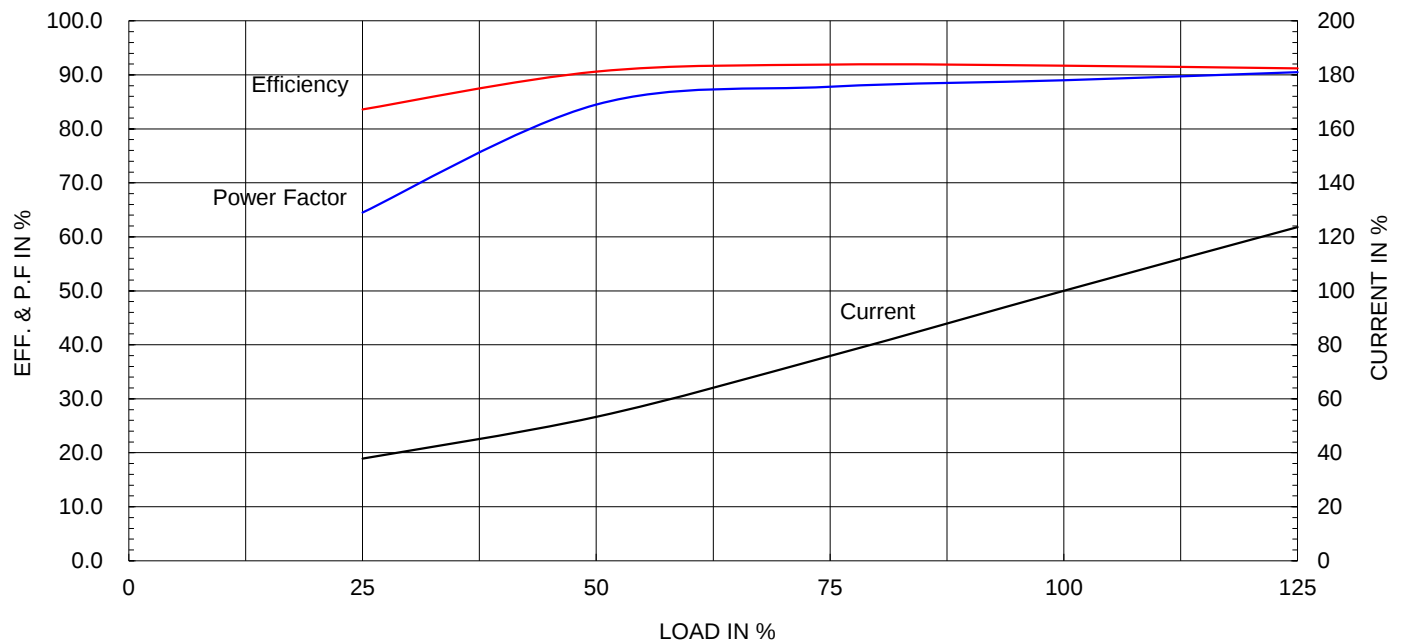
Full Load Torque : 6.0 kg.m

 Motor moment of Inertia (J) : **0.088** kg.m<sup>2</sup>

 Load moment of Inertia (J) : **2.850** kg.m<sup>2</sup>
**22 kW**
**2 P**
**60 Hz**

 Speed at Full Load : **3560 RPM**

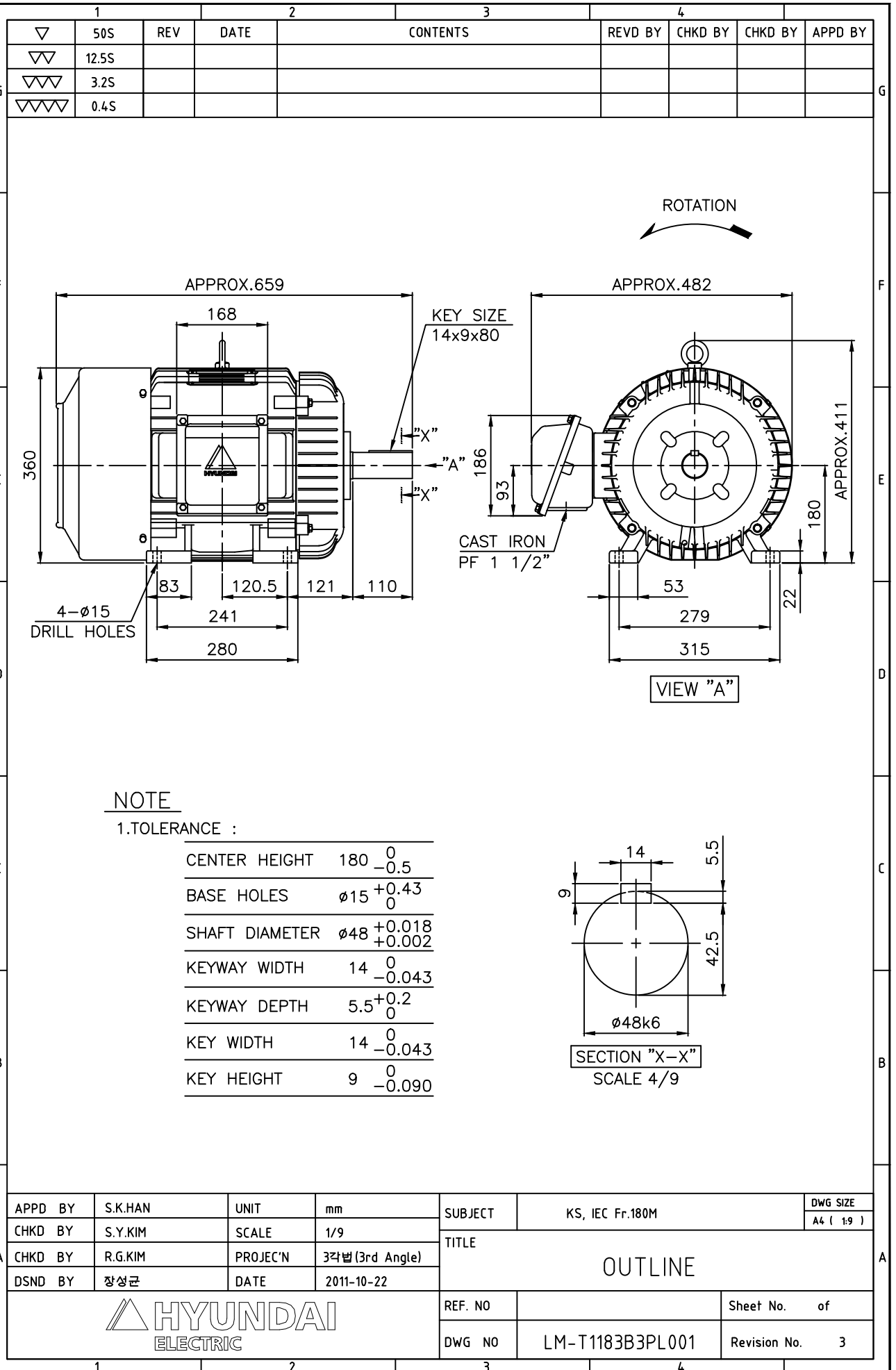
 Rated Voltage **220V**

 Full Load Current **70.7A**
**SPEED VS TORQUE & CURRENT CURVE**

**OUTPUT VS EFF., P.F & CURRENT CURVE**


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허가없이 복사할 수 없음 (취급주의)

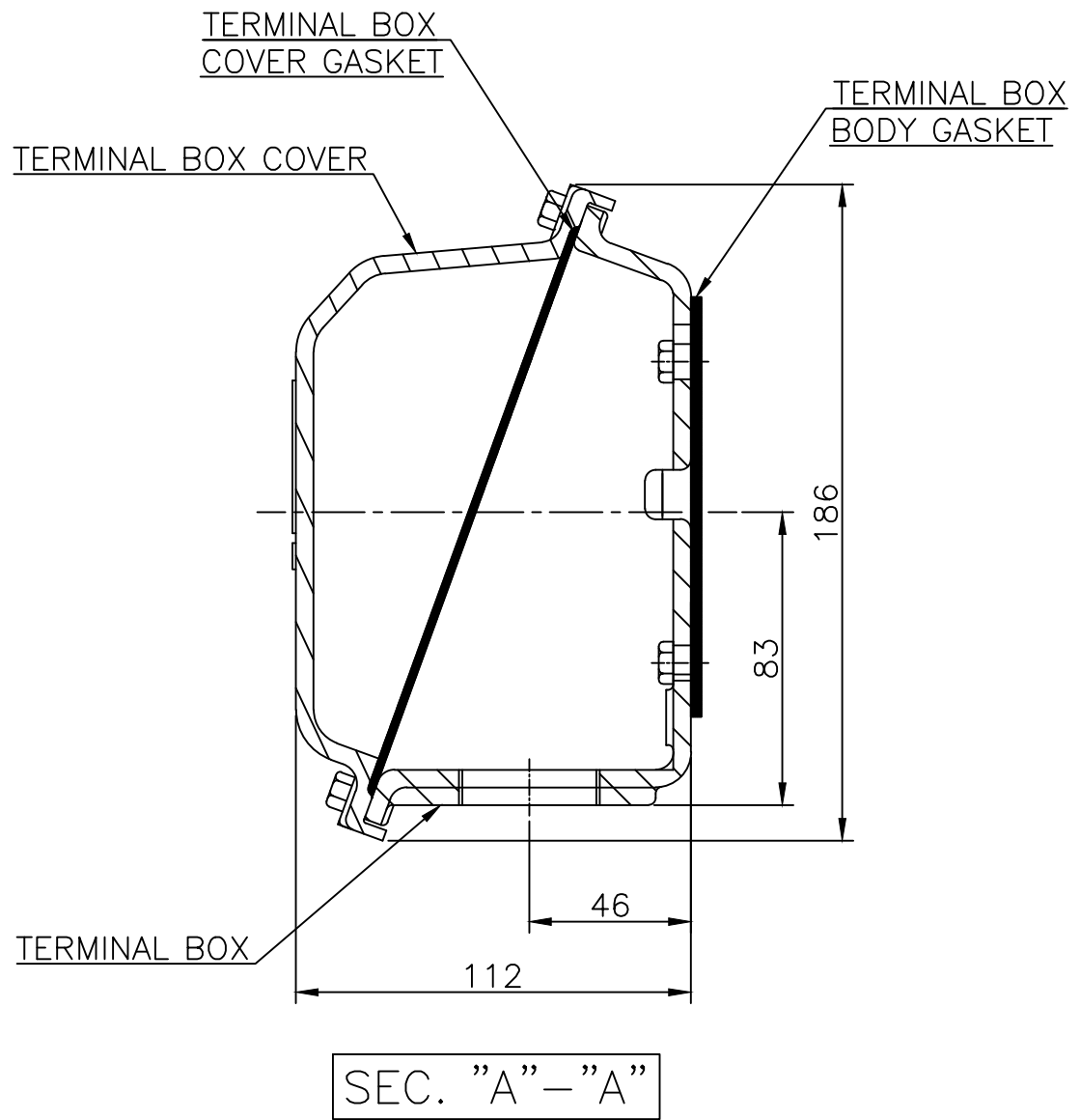
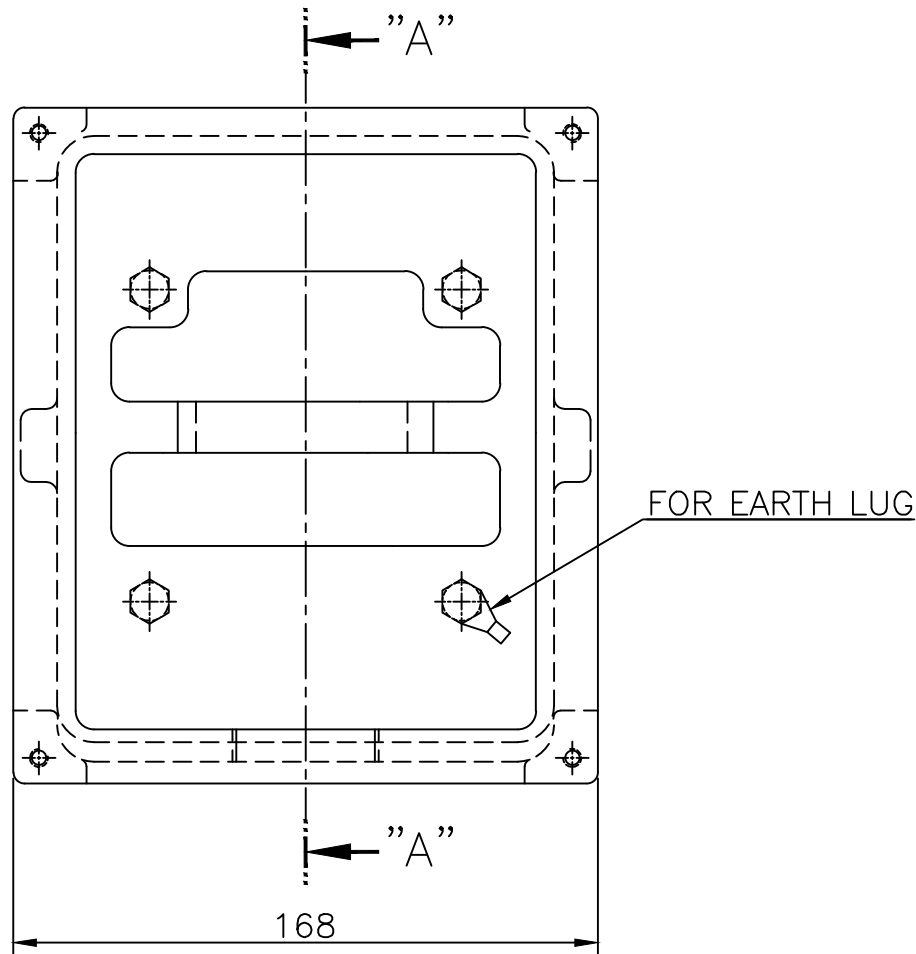
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허가없이 복사할 수 없음 (취급주의)

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

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

| 일반가공공차 |      | 일반재관공차   |      |
|--------|------|----------|------|
| 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.K.HAN     | UNIT     | mm              | SUBJECT                             | FR.160~180 (CAST IRON) |          |              | DWG SIZE |
| CHKD BY                                                                               | S.Y.KIM     | SCALE    | 1/2             | TITLE<br>Main Terminal Box Assembly |                        |          |              |          |
| CHKD BY                                                                               | R.G.KIM     | PROJEC'N | 3각법 (3rd Angle) |                                     |                        |          |              |          |
| DSND BY                                                                               | H.K.LEE     | DATE     | 2011-08-30      |                                     |                        |          |              |          |
|  |             |          |                 | REF. NO                             | 227B8008LA2            |          | Sheet No.    | of       |
|                                                                                       |             |          |                 | DWG NO                              | 3M-145860              |          | Revision No. | 2        |
| 6                                                                                     |             | 7        |                 | 8                                   |                        | 9        |              |          |