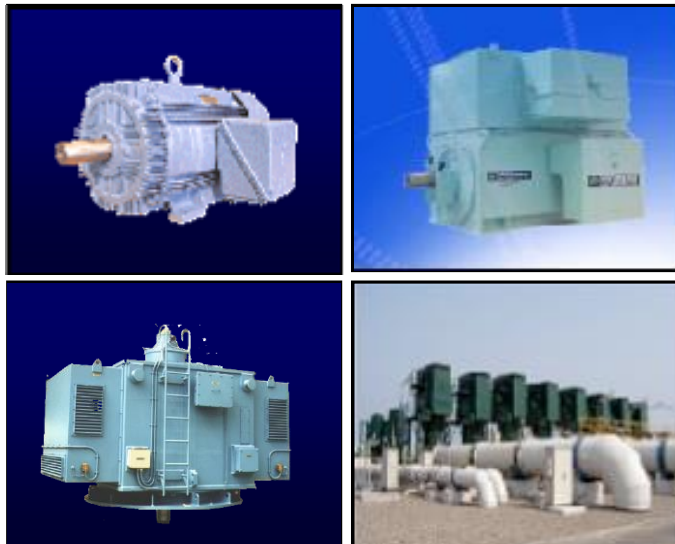


Customer :  
Project Name :  
Project No. :  
Revision No. :

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## **SPECIFICATION for INDUCTION MOTOR**



# Contents

|                                      |           |
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|                                                                                 |           |                                                                                                                               |  |                                                                                   |  |                                                                        |  |                       |  |          |  |          |  |
|---------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|--|------------------------------------------------------------------------|--|-----------------------|--|----------|--|----------|--|
|  |           | <h2 style="text-align: center;">AC INDUCTION MOTOR DATA SHEET</h2>                                                            |  |                                                                                   |  |                                                                        |  |                       |  |          |  |          |  |
| Model No.or RFQ No.                                                             |           | 4606KSTD40SSDS1STFE3B31DL0SDS                                                                                                 |  | Item No.                                                                          |  | Rev. No.                                                               |  | [      ]              |  |          |  |          |  |
| Project Name                                                                    |           |                                                                                                                               |  | Project No.                                                                       |  | Quantity                                                               |  |                       |  |          |  |          |  |
| GENERAL SPECIFICATION                                                           |           |                                                                                                                               |  | PERFORMANCE DATA                                                                  |  |                                                                        |  |                       |  |          |  |          |  |
| Frame Size                                                                      |           | 100L                                                                                                                          |  | Rated Output                                                                      |  | 1.5 kW                                                                 |  | 2 HP                  |  |          |  |          |  |
| Type                                                                            |           | HLP-1.5/6                                                                                                                     |  | Number of Poles                                                                   |  | 6                                                                      |  |                       |  |          |  |          |  |
| 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                                                                     |  | 460 V                                                                  |  |                       |  |          |  |          |  |
| Number of Phases                                                                |           | 3                                                                                                                             |  | Current                                                                           |  | Full Load                                                              |  | 3.0 A                 |  |          |  |          |  |
| Insulation Class                                                                |           | <input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H                                   |  |                                                                                   |  | Locked-rotor**                                                         |  | 790 %                 |  |          |  |          |  |
| Temp. Rise at full load (by resistance method)                                  |           |                                                                                                                               |  | Efficiency                                                                        |  |                                                                        |  |                       |  |          |  |          |  |
| at 1.0 S.F                                                                      |           | 80 deg. C                                                                                                                     |  |                                                                                   |  | 50% Load                                                               |  | 87.4 %                |  |          |  |          |  |
| Motor Location                                                                  |           | <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor                                                   |  |                                                                                   |  | 75% Load                                                               |  | 88.7 %                |  |          |  |          |  |
| Altitude                                                                        |           | Less than 1000                                                                                                                |  |                                                                                   |  | 100% Load                                                              |  | 88.5 %                |  |          |  |          |  |
| Relative Humidity                                                               |           | Less than 80 %                                                                                                                |  | Power Factor(p.u)                                                                 |  |                                                                        |  |                       |  |          |  |          |  |
| Ambient Temp.                                                                   |           | 40 deg. C (Max.)                                                                                                              |  |                                                                                   |  | 50% Load                                                               |  | 0.500                 |  |          |  |          |  |
| Duty Type                                                                       |           | Continuous(S1)                                                                                                                |  |                                                                                   |  | 75% Load                                                               |  | 0.620                 |  |          |  |          |  |
| Service Factor                                                                  |           | 1.15                                                                                                                          |  |                                                                                   |  | 100% Load                                                              |  | 0.700                 |  |          |  |          |  |
| Mounting                                                                        |           | <input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3/B5 |  | Speed at Full Load                                                                |  | 1155 r.p.m                                                             |  |                       |  |          |  |          |  |
| Bearing                                                                         | Type      | Anti-Friction                                                                                                                 |  | Torque                                                                            |  |                                                                        |  |                       |  |          |  |          |  |
|                                                                                 | DE/N-DE   | 6206ZZC3 / 6206ZZC3                                                                                                           |  |                                                                                   |  | Full Load                                                              |  | 1.3 kg·m              |  |          |  |          |  |
|                                                                                 | Lubricant | Grease(SML4)                                                                                                                  |  |                                                                                   |  | Locked-rotor**                                                         |  | 180 %                 |  |          |  |          |  |
| External Thrust                                                                 |           | Not applicable                                                                                                                |  |                                                                                   |  | Breakdown**                                                            |  | 260 %                 |  |          |  |          |  |
| 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.)                                                             |  | 3.500 kg·m²           |  |          |  |          |  |
| Terminal Box                                                                    | Main      | <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron                                                  |  |                                                                                   |  | Motor                                                                  |  | 0.009 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                                                                                                      |  |                                                                                   |  | 60 dB(A)                                                               |  |                       |  |          |  |          |  |
| Application                                                                     |           |                                                                                                                               |  | Vibration                                                                         |  | 1.6 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-T1105B3PL001                                                        |  | 41 kg                 |  |          |  |          |  |
|                                                                                 |           |                                                                                                                               |  | Main T-Box Ass'y                                                                  |  | 3M-148549                                                              |  |                       |  |          |  |          |  |
|                                                                                 |           |                                                                                                                               |  |                                                                                   |  |                                                                        |  |                       |  |          |  |          |  |
|                                                                                 |           |                                                                                                                               |  |                                                                                   |  |                                                                        |  |                       |  |          |  |          |  |
|                                                                                 |           |                                                                                                                               |  |                                                                                   |  |                                                                        |  |                       |  |          |  |          |  |
|                                                                                 |           |                                                                                                                               |  | REMARK                                                                            |  |                                                                        |  |                       |  |          |  |          |  |
|                                                                                 |           |                                                                                                                               |  | *.Premium Efficiency(IE3)<br>*.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.

Above technical data are only design values and shall be guaranteed with tolerance of applicable standard.

Inspection and performance test shall be maker standard, if not mentioned.

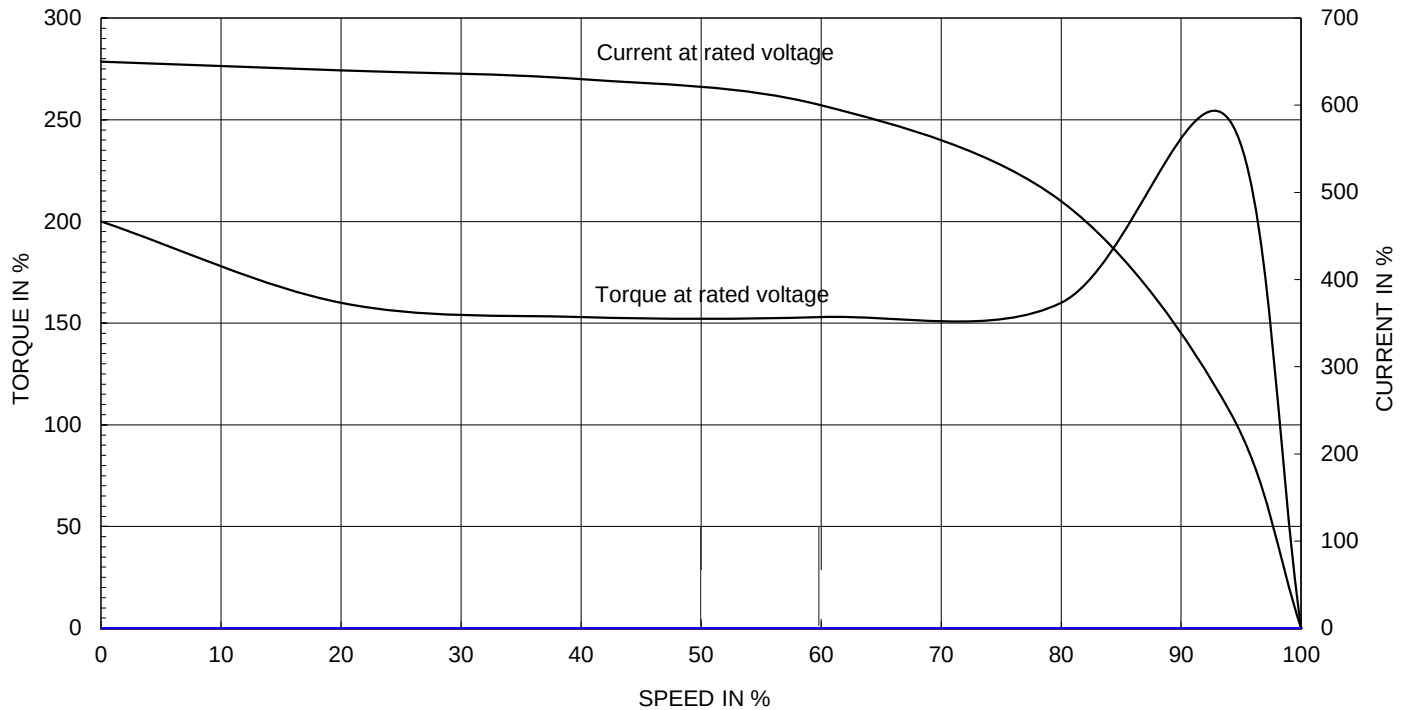
\* In case of Inverter-Fed Motor, performance data is based on sine wave tests.

\*\* The data are based on rated voltage & frequency, and data are expressed as a percentage of full load value.

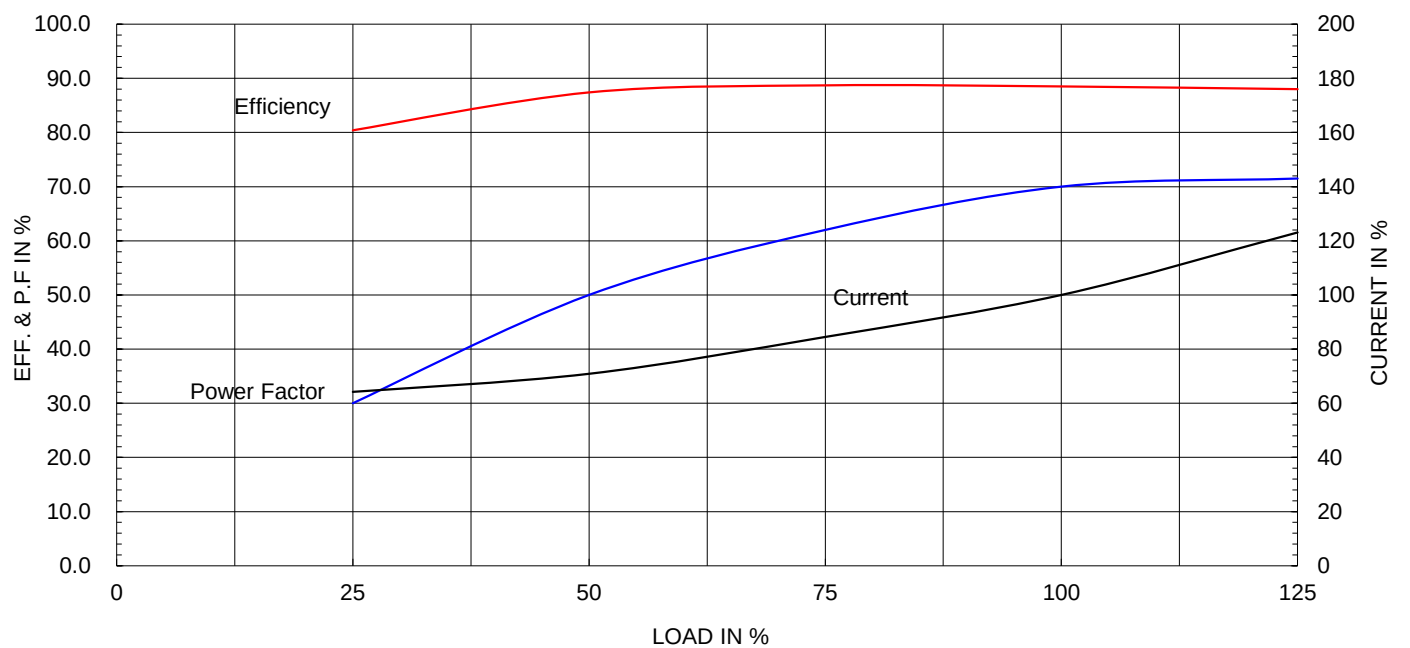
|                               |           |                   |
|-------------------------------|-----------|-------------------|
| Type :                        | HLP-1.5/6 |                   |
| Full Load Torque :            | 1.3       | kg.m              |
| Motor moment of Inertia (J) : | 0.009     | kg.m <sup>2</sup> |
| Load moment of Inertia (J) :  | 3.500     | kg.m <sup>2</sup> |

|                               |      |       |
|-------------------------------|------|-------|
| 1.5 kW                        | 6 P  | 60 Hz |
| Speed at Full Load : 1155 RPM |      |       |
| Rated Voltage                 | 460V |       |
| Full Load Current             | 3.0A |       |

SPEED VS TORQUE & CURRENT CURVE



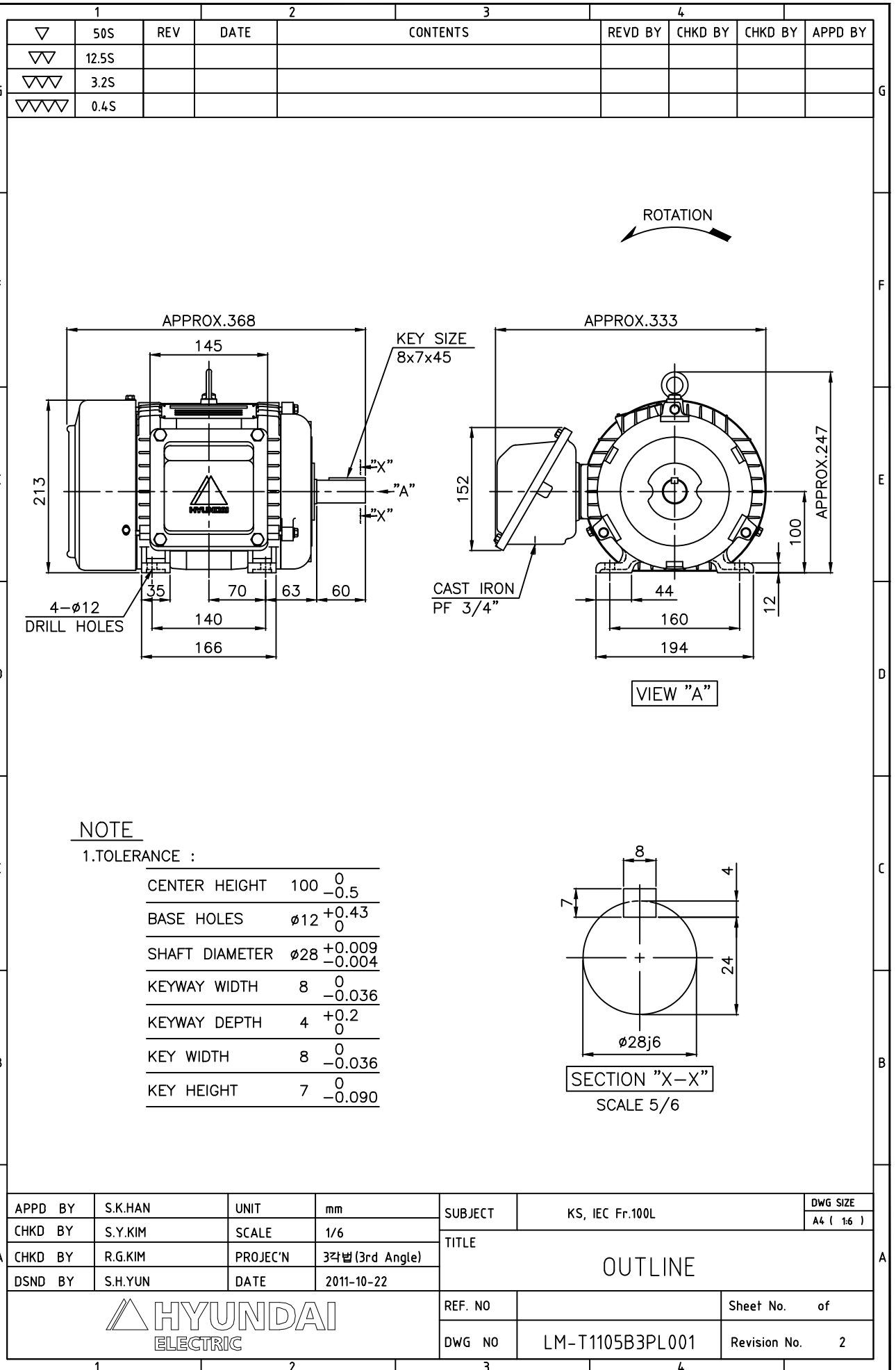
OUTPUT VS EFF., P.F & CURRENT CURVE

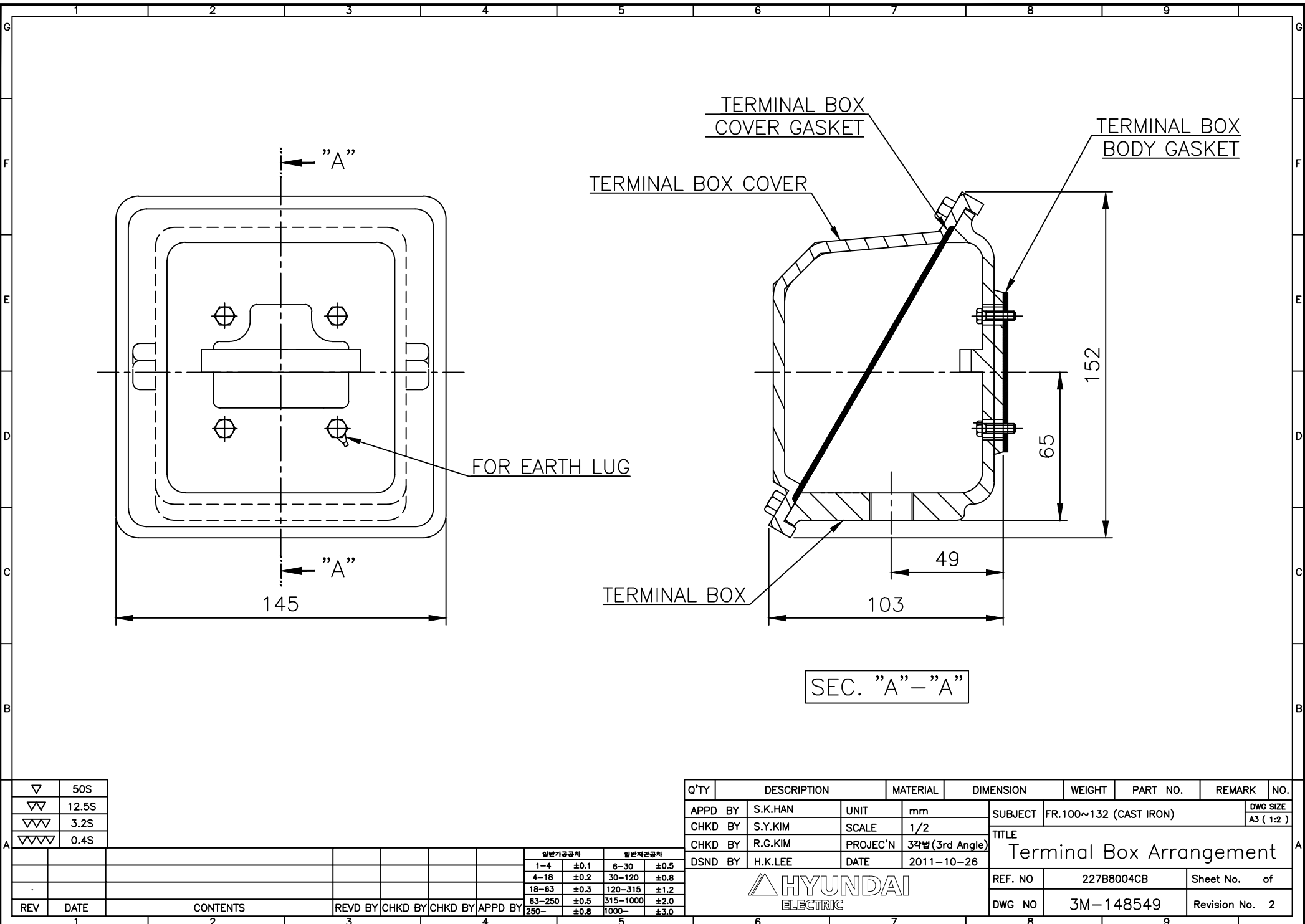


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|      |       |
|------|-------|
| ▽    | 50S   |
| ▽▽   | 12.5S |
| ▽▽▽  | 3.2S  |
| ▽▽▽▽ | 0.4S  |

| 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.K.HAN     | UNIT     | mm              | SUBJECT | FR.100~132 (CAST IRON)   | DWG SIZE     |     |
| CHKD BY | S.Y.KIM     | SCALE    | 1/2             | TITLE   | Terminal Box Arrangement | A3 (1:2)     |     |
| CHKD BY | R.G.KIM     | PROJEC'N | 3각법 (3rd Angle) | REF. NO | 227B8004CB               | Sheet No.    | of  |
| DSND BY | H.K.LEE     | DATE     | 2011-10-26      | DWG NO  | 3M-148549                | Revision No. | 2   |