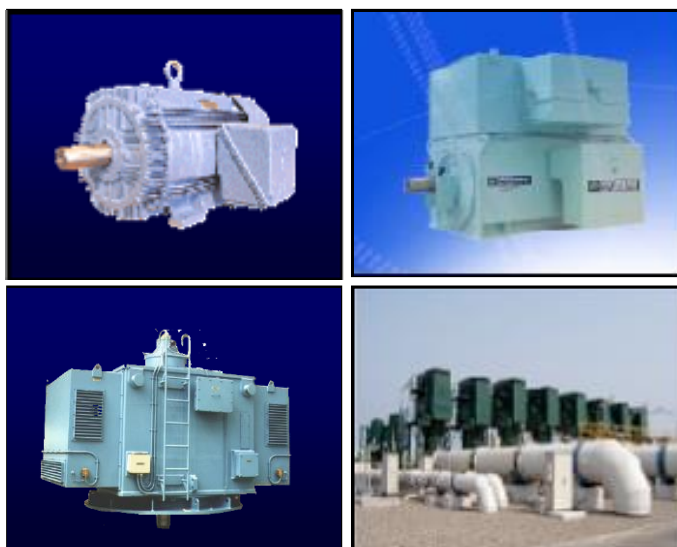


Customer :  
Project Name :  
Project No. :  
Revision No. :

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## SPECIFICATION for INDUCTION MOTOR



# Contents

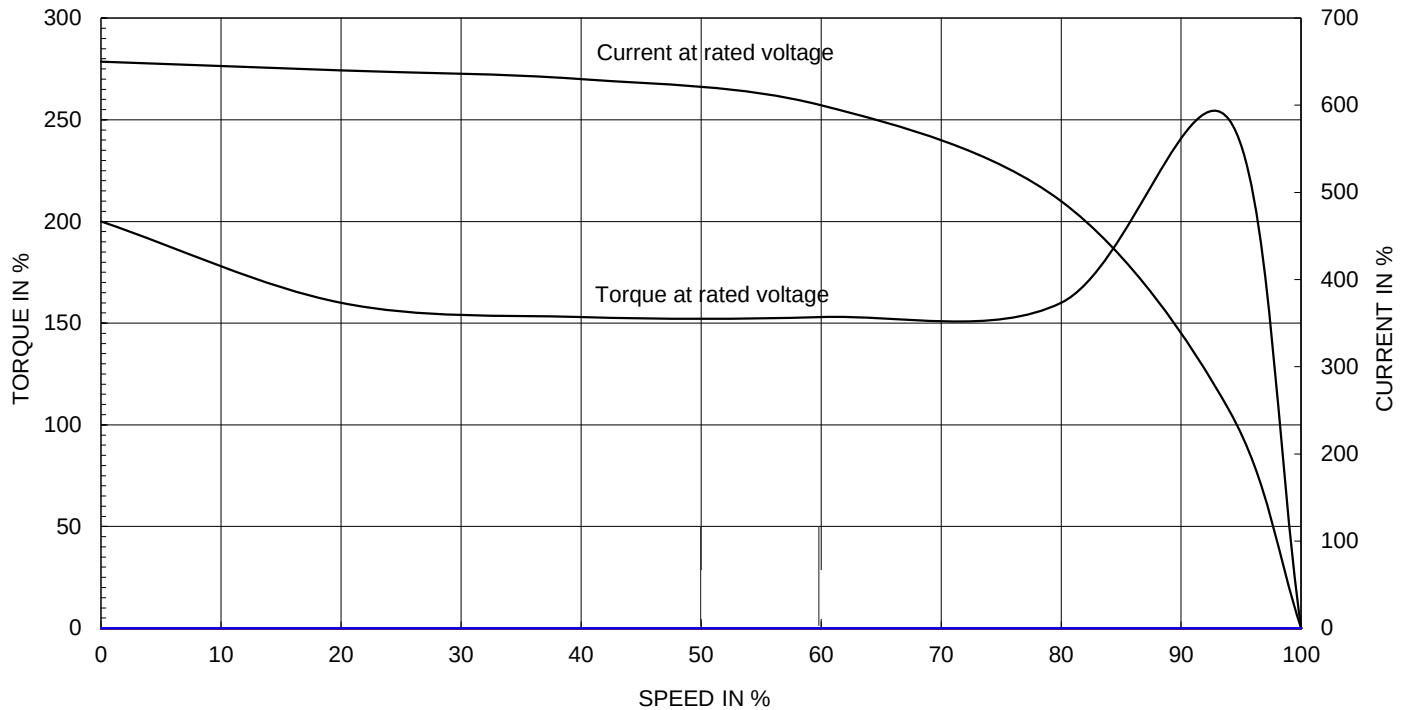
|                                      |           |
|--------------------------------------|-----------|
| 1 . Data Sheet of AC Induction Motor | - 1Sheets |
| 2 . Speed-Torque & Current Curve     | - 1Sheets |
| 3 . Outline Dimension Drawing        | - 1Sheets |
| 4 . Main Terminal Box Drawing        | - 1Sheets |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  |                                                              |             |                                                                        |          |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|-------------|------------------------------------------------------------------------|----------|----------|
|                                                                                                                                                                                                                                                                                                                                                                                                            |           | AC INDUCTION MOTOR DATA SHEET                                                                                                 |  |                                                              |             |                                                                        |          |          |
| Model No.or RFQ No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 3806KSTD40SSDS1STFE3351DL0SDS                                                                                                 |  | Item No.                                                     |             | Rev. No.                                                               | [      ] |          |
| Project Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                                               |  | Project No.                                                  |             | Quantity                                                               |          |          |
| GENERAL SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                                                                                                               |  | PERFORMANCE DATA                                             |             |                                                                        |          |          |
| Frame Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 80M                                                                                                                           |  | Rated Output                                                 |             | 0.75 kW      1 HP                                                      |          |          |
| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | HLP-0.75/2                                                                                                                    |  | 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                                                |             | 380 V                                                                  |          |          |
| Number of Phases                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | 3                                                                                                                             |  | Current                                                      |             | Full Load      1.8 A                                                   |          |          |
| Insulation Class                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | <input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H                                   |  | Locked-rotor**                                               |             | 900 %                                                                  |          |          |
| Temp. Rise at full load (by resistance method)                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                                               |  | Efficiency                                                   |             |                                                                        |          |          |
| at 1.0 S.F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 80 deg. C                                                                                                                     |  | 50% Load                                                     |             | 73.5 %                                                                 |          |          |
| Motor Location                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | <input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor                                                   |  | 75% Load                                                     |             | 77.2 %                                                                 |          |          |
| Altitude                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Less than 1000                                                                                                                |  | 100% Load                                                    |             | 77.0 %                                                                 |          |          |
| Relative Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Less than 80 %                                                                                                                |  | Power Factor(p.u)                                            |             |                                                                        |          |          |
| Ambient Temp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 40 deg. C (Max.)                                                                                                              |  | 50% Load                                                     |             | 0.610                                                                  |          |          |
| Duty Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Continuous(S1)                                                                                                                |  | 75% Load                                                     |             | 0.740                                                                  |          |          |
| Service Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 1.15                                                                                                                          |  | 100% Load                                                    |             | 0.820                                                                  |          |          |
| Mounting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | <input type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input checked="" type="checkbox"/> B3/B5 |  | Speed at Full Load                                           |             | 3500 r.p.m                                                             |          |          |
| Bearing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Type      | Anti-Friction                                                                                                                 |  | Torque                                                       |             |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DE/N-DE   | 6204ZZ      /    6203ZZ                                                                                                       |  | Full Load                                                    |             | 0.2 kg·m                                                               |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lubricant | Grease(HIFLEX L-3)                                                                                                            |  | Locked-rotor**                                               |             | 240 %                                                                  |          |          |
| External Thrust                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | Not applicable                                                                                                                |  | Breakdown**                                                  |             | 300 %                                                                  |          |          |
| 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.)                                                   |             | 0.150 kg·m²                                                            |          |          |
| Terminal Box                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Main      | <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Cast Iron                                                  |  | Motor                                                        |             | 0.001 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                                                                                                      |  |                                                              |             | 73 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/B5                                                        |             | LM-A1080B4P1001                                                        | 14 kg    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  | Main T-Box Ass'y                                             |             | 3M-148548                                                              |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  |                                                              |             |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  |                                                              |             |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  |                                                              |             |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  |                                                              |             |                                                                        |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                               |  | 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. |           |                                                                                                                               |  |                                                              |             |                                                                        |          |          |

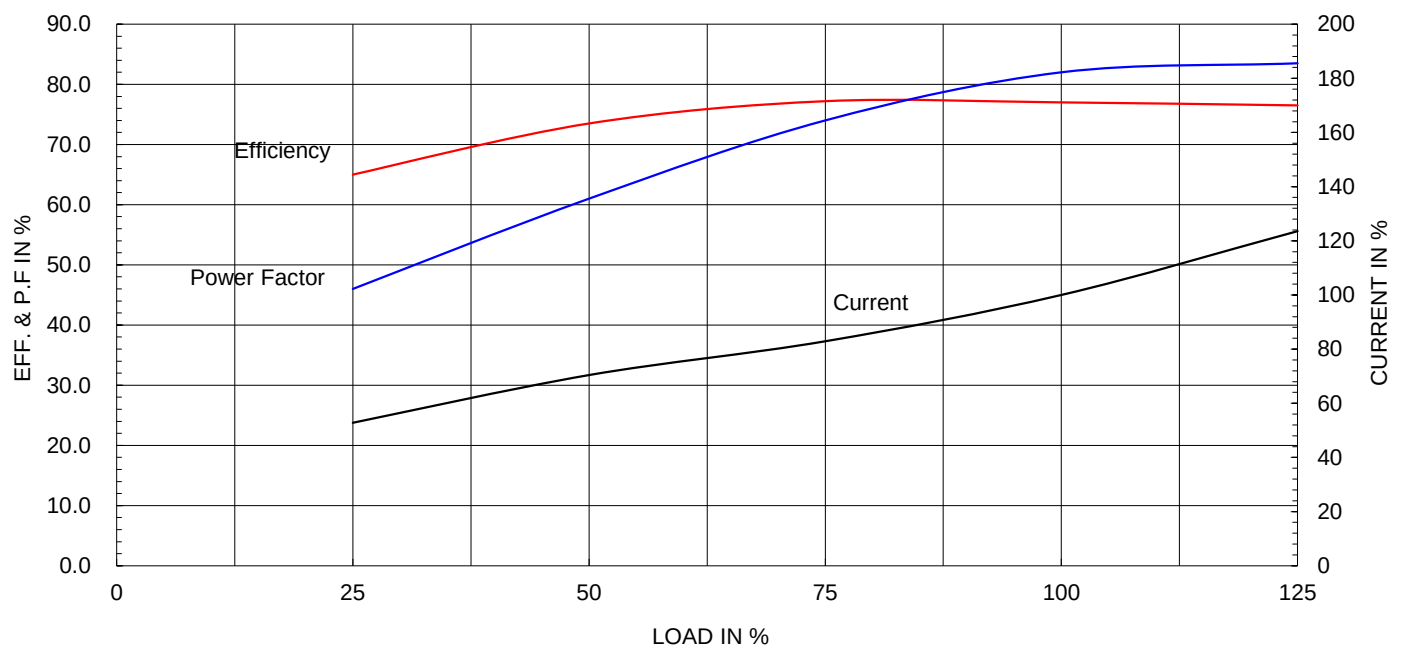
|                               |            |                   |
|-------------------------------|------------|-------------------|
| Type :                        | HLP-0.75/2 |                   |
| Full Load Torque :            | 0.2        | kg.m              |
| Motor moment of Inertia (J) : | 0.001      | kg.m <sup>2</sup> |
| Load moment of Inertia (J) :  | 0.150      | kg.m <sup>2</sup> |

|                               |      |       |
|-------------------------------|------|-------|
| 0.75 kW                       | 2 P  | 60 Hz |
| Speed at Full Load : 3500 RPM |      |       |
| Rated Voltage                 | 380V |       |
| Full Load Current             | 1.8A |       |

SPEED VS TORQUE & CURRENT CURVE



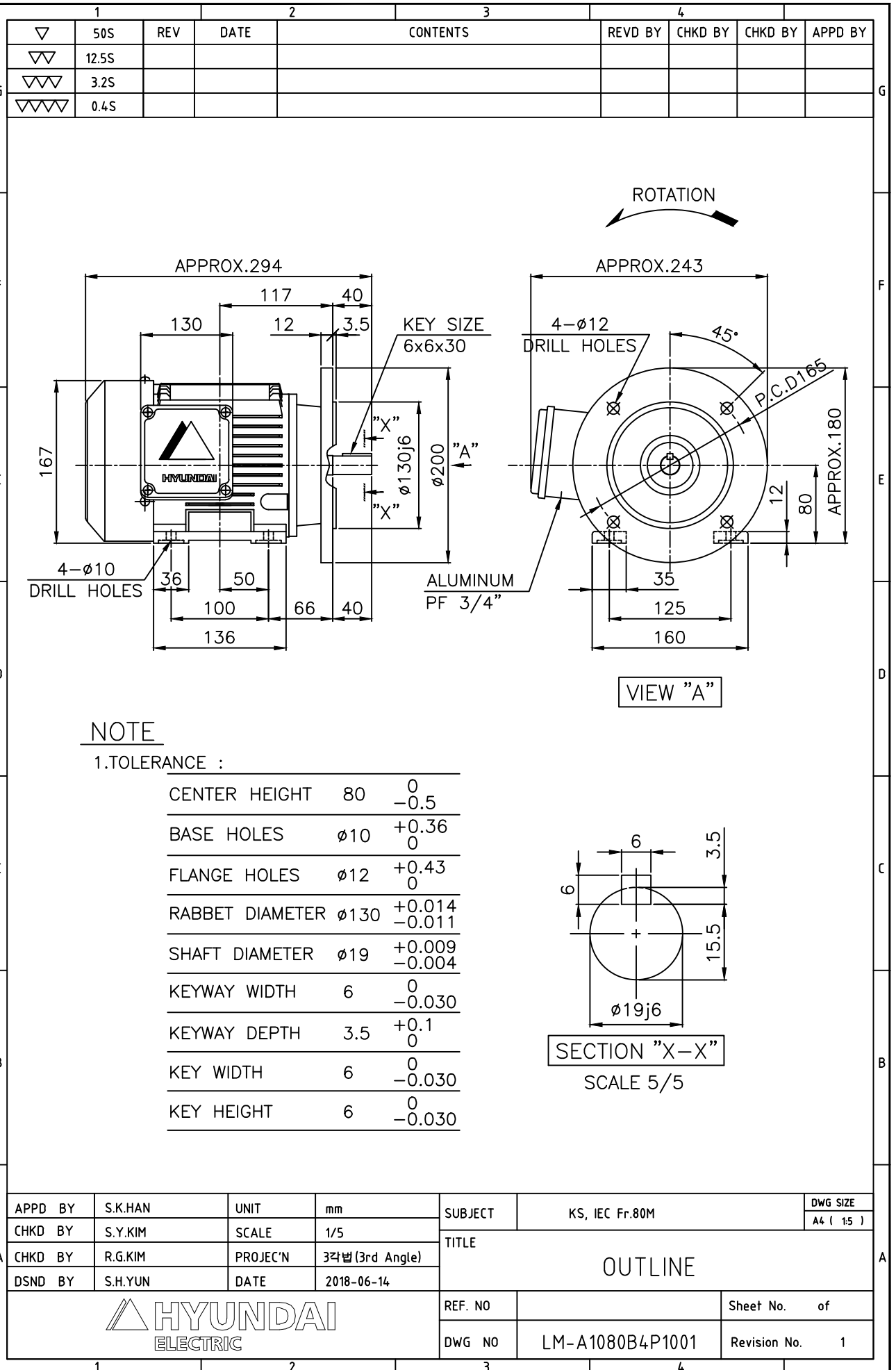
OUTPUT VS EFF., P.F & CURRENT CURVE



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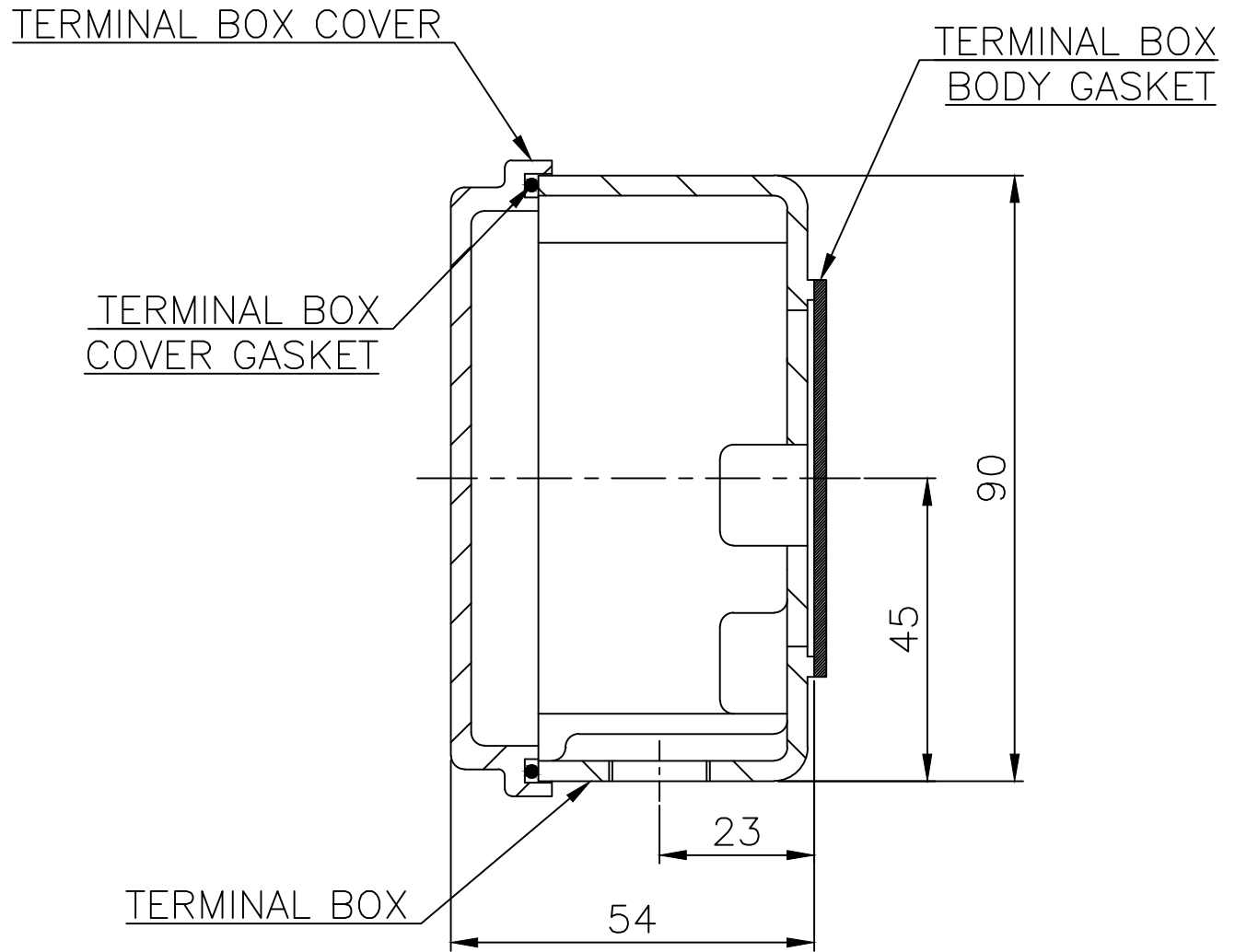
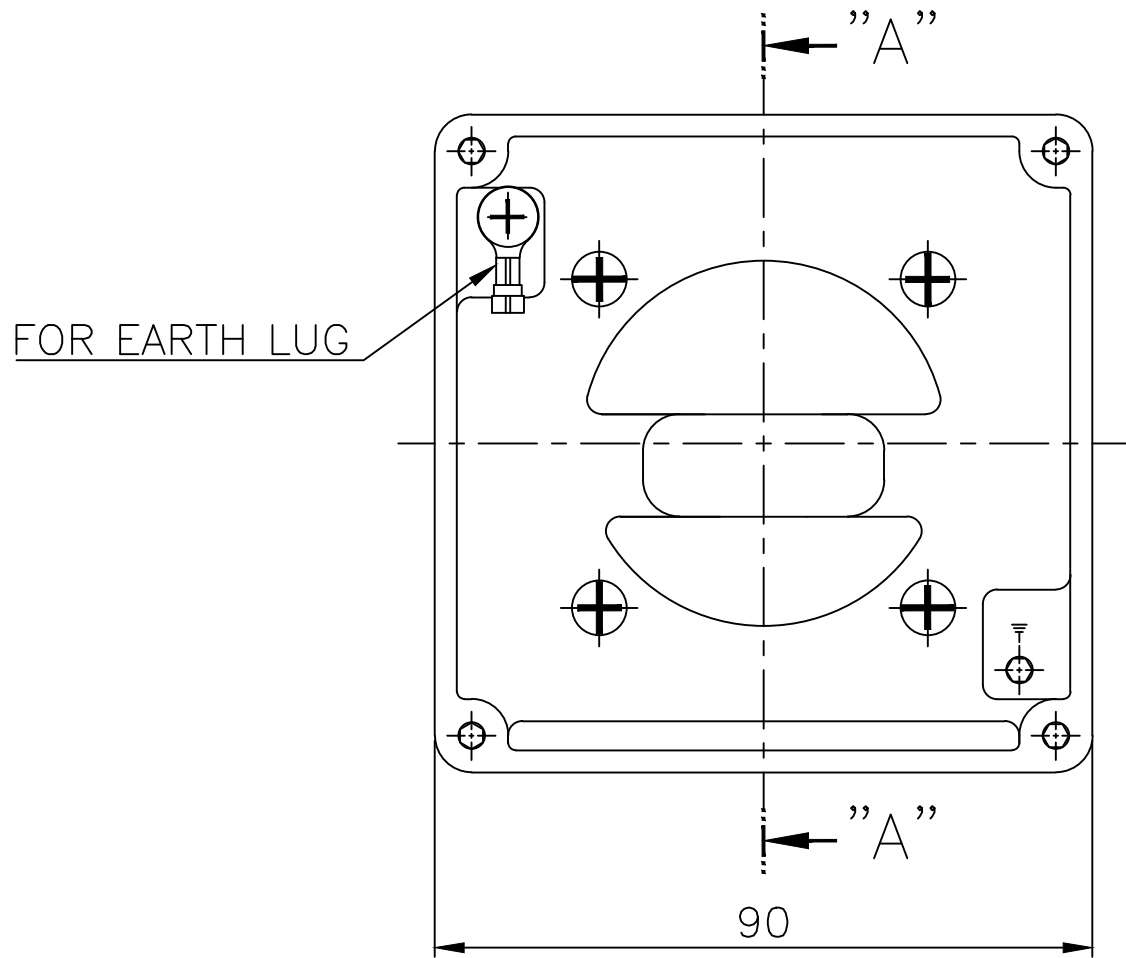
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SEC. "A" - "A"

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

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

| 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.71~90 (AL)            | DWG SIZE     |     |
| CHKD BY             | S.Y.KIM     | SCALE    | 1/1             |         |                          | A3 ( 1:1 )   |     |
| CHKD BY             | R.G.KIM     | PROJEC'N | 3각법 (3rd Angle) | TITLE   | Terminal Box Arrangement |              |     |
| DSND BY             | 이혜경R        | DATE     | 2011-10-26      | REF. NO | 227B1537AA               | Sheet No.    | of  |
| HYUNDAI<br>ELECTRIC |             |          |                 | DWG NO  | 3M-148548                | Revision No. | 2   |