

## AC INDUCTION MOTOR DATA SHEET

| Model No. of RFQ No.            |                                       |   | Item No.  |                    |                   | ev. INO.      | լ Մ յ   |  |
|---------------------------------|---------------------------------------|---|---|--------------------|-------------------|---------------|---------|--|
| Project Name                    |                                       |   | Project No.   |                    | <b>\ </b>         |               | set     |  |
| GENERAL SPECIFICATION           |                                       |   | PERFORMANCE DATA  |                    |                   |               |         |  |
| Frame Size                      |                                       | 160M  | Rated Output  |                    | 11 kW             |               | 15 HP   |  |
| Type                            |                                       | HLP-11/4  |   | Number of Poles    |                   |               |         |  |
| Enclosure(Protection)           |                                       | Totally Enclosed (IP55)                             | Rotor Type  |                    | Squirrel Cage     |               |         |  |
| Method of Cooling               |                                       | IC411(FC)   | Starting Method*  |                    | ■ D.O.L □ Y-△     |               |         |  |
| Rated Frequency                 |                                       | 60 Hz   | Rated Voltage   |                    | 440 V             | 380 V         | 220 V   |  |
| Number of Phases                |                                       | 3   | Current   | Full Load          | 19.2 A            | 22.2 A        | 38.4 A  |  |
| Insulation Class                |                                       | ■ F □ B □ H   |   | Locked-rotor**     | 750 %             | 750 %         | 750 %   |  |
| Temp. Rise at full load (by res |                                       | resistance method)                                  | Efficiency  | Efficiency         |                   |               |         |  |
| at 1.0 S.F                      |                                       | 80 °C   | 1   | 50% Load           |                   | 91.4 %        |         |  |
| Motor Location                  |                                       | ■ Indoor □ Outdoor                                  | 75% Load  |                    | 92.5 %            |               |         |  |
| Altitude                        |                                       | Less than 1000m                                     | 100% Load   |                    | 92.4 %            |               |         |  |
| Relative Humidity               |                                       | Less than 80 %                                      | Power Factor(p.u)   |                    | )2.T /0           |               |         |  |
| Ambient Temp.                   |                                       | 40 °C MAX.  | 50% Load 0.642  |                    |                   |               |         |  |
| Duty Type                       |                                       | Continuous(S1)                                      | -   | 75% Load           |                   | 0.757         |         |  |
|                                 |                                       | 1.15  | -   -   | 100% Load          | 0.737             |               |         |  |
| Service Factor                  |                                       |   | Speed at Full Load  |                    |                   |               |         |  |
| Mounting                        |                                       |   | _   |                    |                   | r.p.m         |         |  |
| <i>-</i> .                      | Туре                                  | Anti-Friction                                       | Torque  |                    |                   |               |         |  |
| Bearing                         | DE/N-DE                               | 6309ZZC3 / 6309ZZC3                                 | 4   | Full Load          |                   | kg.m          |         |  |
|                                 | Lubricant                             | Grease(Polyrex-EM)                                  |   | Locked-rotor**     | 200               |               |         |  |
| External Thrust                 |                                       | Not applicable                                      |   | Breakdown**        | 240               | %             |         |  |
| Coupling Method                 |                                       | ■ Direct □ V-Belt                                   | Moment of Inertia (J)   |                    | 1                 |               |         |  |
| Shaft Exten                     | sion                                  | ■ Single □ Double                                   |   | Load(Max.)         | 9.054084507       |               |         |  |
| Terminal                        | Main                                  | ☐ Steel ☐ Cast Iron                                 |   | Motor              | 0.09              | kg·m²         |         |  |
|                                 | Aux.                                  | ☐ Yes ■ No  | Sound Pressure Level (No-load & mean value at 1m from motor)                    |                    |                   |               |         |  |
| DOX                             | Box Location Refer to Outline Drawing |   | 64 dB(A)  |                    |                   |               |         |  |
| Application                     |                                       |   | Vibration   |                    | 2.2 mm/sec(r.m.s) |               |         |  |
| Area classification             |                                       | Non-Hazardous                                       | Permissible number of   |                    | Cold 3            | times         |         |  |
| Type of Ex-Protection           |                                       | Not applicable                                      | consecutive   | consecutive starts |                   | times         |         |  |
| Applicable Standard             |                                       | KS, IEC, NEMA MG1 Part30(Vpeak)                     | Paint   | Munsell No.        | Panton279C        |               |         |  |
| ACCESSORIES                     |                                       | ,,,,,,,,,   | SUBMITTAL DRAWING   |                    |                   |               |         |  |
| 11002                           | 22011122                              | 1   | Outline Dimension Drawing \ Motor Weight(Approx.                                |                    |                   | pht(Approx )  |         |  |
|                                 |                                       |   | B3  |                    | LM-T1163B3P       |               | 118 kg  |  |
|                                 |                                       |   |   | B5                 | 200 11100201      | 2,01          | kg      |  |
|                                 |                                       |   |   | V1                 |                   |               | kg      |  |
|                                 |                                       |   | -   | B3/B5              |                   |               |         |  |
|                                 |                                       |   | Main T Roy  | Main T-Box Ass'y   |                   |               | kg      |  |
|                                 |                                       |   | Walii 1-Box Ass y   |                    | 3M-145860         |               |         |  |
|                                 |                                       |   |   |                    |                   |               |         |  |
|                                 |                                       | DI  |   |                    |                   |               |         |  |
|                                 |                                       |   |   | REMARK (F2)        |                   |               |         |  |
|                                 |                                       |   | *.Premium Efficiency(IE3)  *.For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise |                    |                   |               |         |  |
|                                 |                                       |   |   |                    |                   |               |         |  |
|                                 |                                       |   |   |                    |                   |               |         |  |
|                                 |                                       |   |   |                    |                   |               |         |  |
|                                 |                                       |   |   |                    |                   |               |         |  |
|                                 |                                       |   |   |                    |                   |               |         |  |
|                                 |                                       |   |   |                    |                   |               |         |  |
|                                 |                                       |   |   |                    |                   |               |         |  |
| SPAR                            | E PARTS                               |   | 1   |                    |                   |               |         |  |
|                                 |                                       |   |   |                    |                   |               |         |  |
|                                 |                                       |   | Date  | DSND               | CHKD              | CHKD          | APPD    |  |
|                                 |                                       |   |   |                    |                   |               | _       |  |
|                                 |                                       |   | 2018-11-23  | R.G. KIM           |                   | O.J. KIM      | S.K.HAN |  |
|                                 |                                       |   |   | 10.11111           |                   | C.0. 1111/1   | ~       |  |
| Note: Others not                | mentioned in this data                | a sheet shall be in accordance with maker standard. | 1   |                    | Mad               | le in Vietnam | l       |  |

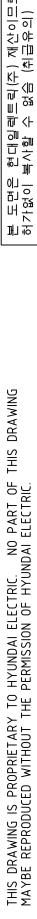
Note: Others not mentioned in this data sheet shall be in accordance with maker standard.

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.

 $<sup>\</sup>ensuremath{^{*}}$  In case of Inverter-Fed Motor, performance data is based on sine wave tests.

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



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