

|                                                                                                                                                                                                                                                                                                       |  |                               |                                                                                                    |                                         |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------|--|
| <div><div>HYOSUNG</div><div>HEAVY INDUSTRIES</div></div>                                                                                                                                                                                                                                              |  | INDUCTION MOTOR<br>DATA SHEET |                                                                                                    | PROJECT No. 2648                        |  |
|                                                                                                                                                                                                                                                                                                       |  |                               |                                                                                                    | MODEL No. 24EF-FFEB                     |  |
|                                                                                                                                                                                                                                                                                                       |  |                               |                                                                                                    | L-SPEC No. D1ML20601                    |  |
| SHEET 1 OF 1                                                                                                                                                                                                                                                                                          |  | CUSTOMER                      |                                                                                                    |                                         |  |
| FOR INFORMATION                                                                                                                                                                                                                                                                                       |  | JOB NO.                       |                                                                                                    | ITEM No.                                |  |
| SERVICE                                                                                                                                                                                                                                                                                               |  | SITE                          |                                                                                                    | QUANTITY                                |  |
| GENERAL DATA                                                                                                                                                                                                                                                                                          |  |                               | PERFORMANCE DATA                                                                                   |                                         |  |
| FRAME No.                                                                                                                                                                                                                                                                                             |  | 200L                          |                                                                                                    | OUTPUT 37 kW                            |  |
| TYPE                                                                                                                                                                                                                                                                                                  |  | EF-F                          |                                                                                                    | POLES 6 P                               |  |
| ENCLOSURE                                                                                                                                                                                                                                                                                             |  | TE                            |                                                                                                    | ROTOR TYPE SQUIRREL CAGE                |  |
| COOLING METHOD                                                                                                                                                                                                                                                                                        |  | FC(IC411)                     |                                                                                                    | STARTING METHOD DIRECT ON LINE          |  |
| INSULATION CLASS                                                                                                                                                                                                                                                                                      |  | F CLASS                       |                                                                                                    | PHASE 3 PHASE                           |  |
| TEMP. RISE AT FULL LOAD                                                                                                                                                                                                                                                                               |  |                               | FREQUENCY 60 Hz                                                                                    |                                         |  |
| RES. METHOD                                                                                                                                                                                                                                                                                           |  | 80 K (at S.F:1.0)             |                                                                                                    | SPEED (AT FULL LOAD) 1185 r/min         |  |
| RATING                                                                                                                                                                                                                                                                                                |  | S1                            |                                                                                                    | PRIMARY                                 |  |
| LOCATION                                                                                                                                                                                                                                                                                              |  | INDOOR                        |                                                                                                    | VOLTAGE 380 V                           |  |
| ALTITUDE                                                                                                                                                                                                                                                                                              |  | LESS THAN 1000 m              |                                                                                                    | NO LOAD CURRENT 40.1 A                  |  |
| HUMIDITY                                                                                                                                                                                                                                                                                              |  | LESS THAN 80 %                |                                                                                                    | FULL LOAD CURRENT 75.6 A                |  |
| AMBIENT TEMP.                                                                                                                                                                                                                                                                                         |  | 40 °C                         |                                                                                                    | LOCKED-ROTOR CURRENT 650 %              |  |
| EXPLOSION PROOF TYPE                                                                                                                                                                                                                                                                                  |  | Ex d IIB T4                   |                                                                                                    | EFFICIENCY                              |  |
| MOUNTING                                                                                                                                                                                                                                                                                              |  | V1                            |                                                                                                    | AT 1/2 LOAD 91.1 %                      |  |
| BEARING TYPE                                                                                                                                                                                                                                                                                          |  | ANTI-FRICTION                 |                                                                                                    | AT 3/4 LOAD 93.1 %                      |  |
| NDE/DE BRG. No.                                                                                                                                                                                                                                                                                       |  | 6212C3 / 6313C3               |                                                                                                    | AT FULL LOAD 94.1 %                     |  |
| BRG. LUBRICATION                                                                                                                                                                                                                                                                                      |  | MOBIL Polyrex EM              |                                                                                                    | POWER FACTOR                            |  |
| PROTECTION GRADE                                                                                                                                                                                                                                                                                      |  | IP55                          |                                                                                                    | AT 1/2 LOAD 64.0 %                      |  |
| SERVICE FACTOR                                                                                                                                                                                                                                                                                        |  | 1.0                           |                                                                                                    | AT 3/4 LOAD 74.0 %                      |  |
| DRIVE                                                                                                                                                                                                                                                                                                 |  | DIRECT COUPLED                |                                                                                                    | AT FULL LOAD 79.0 %                     |  |
| SHAFT                                                                                                                                                                                                                                                                                                 |  |                               | TORQUE                                                                                             |                                         |  |
| EXTENSION                                                                                                                                                                                                                                                                                             |  | SINGLE                        |                                                                                                    | FULL LOAD 30.4 kg-m                     |  |
| EXTERNAL THRUST                                                                                                                                                                                                                                                                                       |  | N/A                           |                                                                                                    | 298.2 N-m                               |  |
| NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)                                                                                                                                                                                                                                                              |  |                               | LOCKED ROTOR 130 %                                                                                 |                                         |  |
| NO-LOAD                                                                                                                                                                                                                                                                                               |  | N/A                           |                                                                                                    | BREAKDOWN 230 %                         |  |
| VIBRATION                                                                                                                                                                                                                                                                                             |  | N/A                           |                                                                                                    | MOTOR GD² 2.583 kg-m²                   |  |
| NUMBER OF CONSECUTIVE STARTS                                                                                                                                                                                                                                                                          |  | N/A                           |                                                                                                    | MAX LOAD GD² AT MOTOR SHAFT 263.5 kg-m² |  |
| ROTATION(VIEWED FROM DE)                                                                                                                                                                                                                                                                              |  | C.C.W                         |                                                                                                    | MOTOR APPROX. WEIGHT 405 kg             |  |
| ACCESSORIES (OPTIONAL)                                                                                                                                                                                                                                                                                |  |                               | PAINTING 0.5PB 3.2/4.4 (URETHANE)                                                                  |                                         |  |
| SUBMITTAL DRAWINGS                                                                                                                                                                                                                                                                                    |  |                               |                                                                                                    |                                         |  |
| TEMPERATURE DETECTOR                                                                                                                                                                                                                                                                                  |  |                               | OUTLINE DIMENSION ES1AS16714                                                                       |                                         |  |
| WINDING                                                                                                                                                                                                                                                                                               |  |                               | NO                                                                                                 |                                         |  |
| TYPE                                                                                                                                                                                                                                                                                                  |  |                               | -                                                                                                  |                                         |  |
| BEARING                                                                                                                                                                                                                                                                                               |  |                               | NO                                                                                                 |                                         |  |
| TYPE                                                                                                                                                                                                                                                                                                  |  |                               | -                                                                                                  |                                         |  |
| SPACE HEATER                                                                                                                                                                                                                                                                                          |  |                               | NO                                                                                                 |                                         |  |
| RATING                                                                                                                                                                                                                                                                                                |  |                               | -                                                                                                  |                                         |  |
| APPLICATION STANDARDS                                                                                                                                                                                                                                                                                 |  |                               | IEC60034-1, ISO 3746                                                                               |                                         |  |
| <NOTE><br>1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARD.<br>2. EXCEPT FOR STATEMENTS SPECIFIED ON THIS SHEET, ANYTHING ELSE SHALL BE IN ACCORDANCE WITH MAKER STANDARD<br>3. THE TEMPERATURE MEASURED AT BEARING HOUSING DOES NOT EXCEED 105°C. |  |                               | <REMARKS><br>1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.<br>2. PREMIUM EFFICIENCY TYPE MOTOR |                                         |  |
| REV. NO                                                                                                                                                                                                                                                                                               |  | DATE                          |                                                                                                    | PREPARED                                |  |
| 1                                                                                                                                                                                                                                                                                                     |  | 2025-09-23                    |                                                                                                    | S.U.LEE                                 |  |
| CHECKED                                                                                                                                                                                                                                                                                               |  | APPROVED                      |                                                                                                    |                                         |  |
| J.H.CHA                                                                                                                                                                                                                                                                                               |  | Y.J.PARK                      |                                                                                                    |                                         |  |

Data are subject to change without notice.(설계 개선 및 제작 환경에 따라 사전 공지 없이 특성 사양치 변경될 수 있음)

A4(210X297)