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|---|--|---------------|--|-------------------------|----------|---------|----------|
|    | <h1 style="text-align: center;">INDUCTION MOTOR</h1> <h2 style="text-align: center;">DATA SHEET</h2> |               | PROJECT No.  | P42-4160-201904-1162    |          |         |          |
|   |  |               | HS No.   | 201904-6424_12000_003   |          |         |          |
|   |  |               | L-SPEC No.   | E00003089F007           |          |         |          |
| SHEET 1 OF 1  |  | CUSTOMER :    |  |                         |          |         |          |
| FOR PROPOSAL  |  | JOB No. : N/A |  | ITEM No. :              |          |         |          |
| SERVICE : N/A   |  | SITE :        |  | QUANTITY 1 SET          |          |         |          |
| GENERAL DATA  |  |               | PERFORMANCE DATA   |                         |          |         |          |
| FRAME No.   | 160L   |               | OUTPUT   | 18.5 kW                 |          |         |          |
| TYPE  | TEFC   |               | POLES  | 2 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  | 50 Hz                   |          |         |          |
| RES. METHOD   | 80 K (at S.F.:1.0)   |               | SPEED (AT FULL LOAD)   | 2945 r/min              |          |         |          |
| RATING  | S1   |               | PRIMARY  |                         |          |         |          |
| LOCATION  | INDOOR   |               | VOLTAGE  | 380 V                   |          |         |          |
| ALTITUDE  | LESS THAN 1000 m   |               | NO LOAD CURRENT  | 16.5 A                  |          |         |          |
| HUMIDITY  | LESS THAN 80 %   |               | FULL LOAD CURRENT  | 38.9 A                  |          |         |          |
| AMBIENT TEMP.   | 40 °C  |               | LOCKED-ROTOR CURRENT   | 690 %                   |          |         |          |
| EXPLOSION PROOF TYPE  | N/A  |               | EFFICIENCY   |                         |          |         |          |
| MOUNTING  | B3   |               | AT 1/2 LOAD  | 87.3 %                  |          |         |          |
| BEARING TYPE  | ANTI-FRICTION  |               | AT 3/4 LOAD  | 89.3 %                  |          |         |          |
| NDE/DE BRG. No.   | 6309ZZ / 6309ZZ  |               | AT FULL LOAD   | 90.3 %                  |          |         |          |
| BRG. LUBRICATION  | N/A  |               | POWER FACTOR   |                         |          |         |          |
| PROTECTION GRADE  | IP55   |               | AT 1/2 LOAD  | 65.0 %                  |          |         |          |
| SERVICE FACTOR  | 1.0  |               | AT 3/4 LOAD  | 75.0 %                  |          |         |          |
| DRIVE   | DIRECT COUPLED   |               | AT FULL LOAD   | 80.0 %                  |          |         |          |
| SHAFT   |  |               | TORQUE   |                         |          |         |          |
| EXTENSION   | SINGLE   |               | FULL LOAD  | 6.12 kg-m               |          |         |          |
| EXTERNAL THRUST   | N/A  |               |  | 60 N-m                  |          |         |          |
| NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR)  |  |               | LOCKED ROTOR   | 220 %                   |          |         |          |
| NO-LOAD   | STANDARD   |               | BREAKDOWN  | 270 %                   |          |         |          |
| VIBRATION   | 2.2 mm/s (r.m.s)   |               | MOTOR GD <sup>2</sup>  | 0.24 kg-m <sup>2</sup>  |          |         |          |
| NUMBER OF CONSECUTIVE STARTS  | COLD : 2 / HOT : 1 (2P)  |               | MAX LOAD GD <sup>2</sup> AT MOTOR SHAFT  | 10.2 kg-m <sup>2</sup>  |          |         |          |
| ROTATION(VIEWED FROM DE)  | C.C.W  |               | MOTOR APPROX. WEIGHT   | 161 kg                  |          |         |          |
|   |  |               | PAINTING   | 0.5PB 3.2/4.4 (ENAMEL)  |          |         |          |
| ACCESSORIES (OPTIONAL)  |  |               | SUBMITTAL DRAWINGS   |                         |          |         |          |
| TEMPERATURE DETECTOR  |  |               | OUTLINE DIMENSION  | ES1AS33109              |          |         |          |
| WINDING   | NO   |               | CONDUIT BOX & COVER  | ES1B100103              |          |         |          |
| TYPE  | N/A  |               | SPEED-TORQUE & CURRENT CURVE   | 1STP42-4160-201904-1162 |          |         |          |
| BEARING   | NO   |               | THERMAL LIMIT & TIME-CURRENT   | 1TLP42-4160-201904-1162 |          |         |          |
| TYPE  | N/A  |               | LOAD vs POWER & EFFICIENCY   | 1PEP42-4160-201904-1162 |          |         |          |
| SPACE HEATER  | NO   |               | <div>&lt;REMARKS&gt;</div> <div>1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.</div> <div>2. HIGH EFFICIENCY TYPE MOTOR</div> |                         |          |         |          |
| RATING  | N/A  |               |  |                         |          |         |          |
|   |  |               |  |                         |          |         |          |
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|   |  |               |  |                         |          |         |          |
| APPLICATION STANDARDS   |  |               |  |                         |          |         |          |
| IEC60034-1  |  |               |  |                         |          |         |          |
| <div>&lt; NOTE &gt; 1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARD.</div> <div>2. EXCEPT FOR STATEMENTS SPECIFIED ON THIS SHEET, ANYTHING ELSE SHALL BE IN ACCORDANCE WITH MAKER'S STANDARD.</div> <div>3. THE TEMPERATURE MEASURED AT BEARING HOUSING DOES NOT EXCEED 105</div> |  |               |  |                         |          |         |          |
|   |  |               |  |                         |          |         |          |
|   |  |               | 0  | 2019-05-09              | S.U.LEE  | J.H.CHA | T.H.KIM  |
|   |  |               | REV. NO  | DATE                    | PREPARED | CHECKED | APPROVED |
|   |  |               |  |                         |          |         |          |