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|  | | <h1 style="text-align: center;">INDUCTION MOTOR</h1> <h2 style="text-align: center;">DATA SHEET</h2> | | PROJECT No. P42-4160-201904-1163 | | | |
| | | | | HS No. 201904-6426_11000_003 | | | |
| | | | | L-SPEC No. DSML20403F003M | | | |
| 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 | 15 kW | | | |
| TYPE | TEFC | | POLES | 4 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) | 1470 r/min | | | |
| RATING | S1 | | PRIMARY | | | | |
| LOCATION | INDOOR | | VOLTAGE | 380 V | | | |
| ALTITUDE | LESS THAN 1000 m | | NO LOAD CURRENT | 15.1 A | | | |
| HUMIDITY | LESS THAN 80 % | | FULL LOAD CURRENT | 31.8 A | | | |
| AMBIENT TEMP. | 40 °C | | LOCKED-ROTOR CURRENT | 600 % | | | |
| EXPLOSION PROOF TYPE | N/A | | EFFICIENCY | | | | |
| MOUNTING | B5 | | AT 1/2 LOAD | 86.7 % | | | |
| BEARING TYPE | ANTI-FRICTION | | AT 3/4 LOAD | 88.7 % | | | |
| NDE/DE BRG. No. | 6309ZZ / 6309ZZ | | AT FULL LOAD | 89.7 % | | | |
| 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 | 9.94 kg-m | | | |
| EXTERNAL THRUST | N/A | | | 97.5 N-m | | | |
| NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR) | | | LOCKED ROTOR | 170 % | | | |
| NO-LOAD | STANDARD | | BREAKDOWN | 220 % | | | |
| VIBRATION | 2.2 mm/s (r.m.s) | | MOTOR GD ² | 0.56 kg-m ² | | | |
| NUMBER OF CONSECUTIVE STARTS | COLD : 2 / HOT : 1 (4P) | | MAX LOAD GD ² AT MOTOR SHAFT | 54.9 kg-m ² | | | |
| 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 | 1STP42-4160-201904-1163 | | | |
| BEARING | NO | | THERMAL LIMIT & TIME-CURRENT | 1TLP42-4160-201904-1163 | | | |
| TYPE | N/A | | LOAD vs POWER & EFFICIENCY | 1PEP42-4160-201904-1163 | | | |
| SPACE HEATER | NO | | <REMARKS> 1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE. 2. HIGH EFFICIENCY TYPE MOTOR | | | | |
| RATING | N/A | | | | | | |
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| APPLICATION STANDARDS | | | | | | | |
| IEC60034-1 | | | | | | | |
| < NOTE > 1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARD. 2. EXCEPT FOR STATEMENTS SPECIFIED ON THIS SHEET, ANYTHING ELSE SHALL BE IN ACCORDANCE WITH MAKER'S STANDARD. 3. THE TEMPERATURE MEASURED AT BEARING HOUSING DOES NOT EXCEED 105 | | | | | | | |
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| | | | 0 | 2019-05-10 | S.U.LEE | J.H.CHA | T.H.KIM |
| | | | REV. NO | DATE | PREPARED | CHECKED | APPROVED |
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