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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_11000_003 | |
| | | | | L-SPEC No. | | E00003087F003 | |
| 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. | | 160M | | OUTPUT | | 15 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 | | 11.9 A | |
| HUMIDITY | | LESS THAN 80 % | | FULL LOAD CURRENT | | 31.2 A | |
| AMBIENT TEMP. | | 40 °C | | LOCKED-ROTOR CURRENT | | 650 % | |
| 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 | | 66.5 % | |
| SERVICE FACTOR | | 1.0 | | AT 3/4 LOAD | | 76.5 % | |
| DRIVE | | DIRECT COUPLED | | AT FULL LOAD | | 81.5 % | |
| SHAFT | | | | TORQUE | | | |
| EXTENSION | | SINGLE | | FULL LOAD | | 4.96 kg-m | |
| EXTERNAL THRUST | | N/A | | | | 48.7 N-m | |
| NOISE LEVEL(MEAN VALUE AT 1m FROM MOTOR) | | | | LOCKED ROTOR | | 160 % | |
| NO-LOAD | | STANDARD | | BREAKDOWN | | 210 % | |
| VIBRATION | | 2.2 mm/s (r.m.s) | | MOTOR GD ² | | 0.207 kg-m ² | |
| NUMBER OF CONSECUTIVE STARTS | | COLD : 2 / HOT : 1 (2P) | | MAX LOAD GD ² AT MOTOR SHAFT | | 5.7 kg-m ² | |
| ROTATION(VIEWED FROM DE) | | C.C.W | | MOTOR APPROX. WEIGHT | | 136 kg | |
| | | | | PAINTING | | 0.5PB 3.2/4.4 (ENAMEL) | |
| ACCESSORIES (OPTIONAL) | | | | SUBMITTAL DRAWINGS | | | |
| TEMPERATURE DETECTOR | | | | OUTLINE DIMENSION | | ES1AS33108 | |
| 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><REMARKS></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>< NOTE > 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 | |
| | | | | REV. NO | | DATE | |
| | | | | | | | |
| | | S.U.LEE | | J.H.CHA | | T.H.KIM | |
| | | PREPARED | | CHECKED | | APPROVED | |