



LAKSHMI ELECTRICAL DRIVES PRIVATE LIMITED.,

Coimbatore - 641 004.

TECHNICAL DATA SHEET - 90 kW 2 POLE INDUCTION MOTOR

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| 1 | Customer: | |
| 2 | Product no: | LEH28023002 |
| 3 | Output power (kW) | 90 |
| 4 | Output power (HP) | 120 |
| 5 | Phase | 3 |
| 6 | Polarity | 2 |
| 7 | Frame | 280M |
| 8 | Voltage (V) | 415±10% |
| 9 | Frequency & it's variation (Hz) | 50±5% |
| 10 | Connection | DELTA |
| 11 | Insulation class | F |
| 12 | Ambient temp (Deg. C) | 50 |
| 13 | Duty | S1 |
| 14 | Mounting | B3 |
| 15 | Applicable code | IS12615/IEC 60034-1 |
| 16 | Type reference | Sq. Cage Induction motor |
| 17 | Full Load Current (Amps) | 145 |
| 18 | Full Load Torque -(Nm) | 289.3 |
| 19 | Full Load Speed (rpm) | 2970 |
| 20 | Starting Current as % of FLC | 770 |
| 21 | Starting Torque as % of FLT | 200 |
| 22 | Break down or Pull-out Torque % FLT | 280 |
| 23 | %Efficiency at 100% | 95.0 (IE3) |
| 24 | at 75% | 95 |
| 25 | at 50% | 94.1 |
| 26 | Power factor at 100% | 0.91 |
| 27 | at 75% | 0.89 |
| 28 | at 50% | 0.85 |
| 29 | Temperature Rise | B CLASS LIMIT |
| 30 | Service Factor | 1 |
| 31 | Moment of Inertia | 5.319 |
| 32 | Direction of Rotation | Bidirectional |
| 33 | Coupling/Pulley | Direct/Flexible |
| 34 | Method of Cooling | IC411 |
| 35 | Enclosure | TEFC |
| 36 | Protection | IP55 |
| 37 | Bearing type | Deep Groove Ball Bearing |
| 38 | Bearing no. DE/NDE | 6317 C3 / 6316 C3 |
| 39 | Paint/Coating | RAL 7046 |
| 40 | Material of Construction | CI FG200 |
| 41 | Shaft Material | EN8 |
| 42 | Relative Humidity | <90 |
| 43 | Terminal box position | TOP |
| 44 | No of terminals | 6 |
| 45 | Working Altitude level. | 1000 MT |
| 46 | Additional Requirement | As per customer requirement |

Efficiency Values are without seals.

Performance Data subject to tolerance as per IS: 12615:2018