


|  | | | DATA SHEET: FLAMEPROOF INDUCTION MOTOR | | | Motor Type 2FE2 163-08 | | | |
|---|--|--|---|-----------------------|---|----------------------------------|-----------------|-------------|---------------------------|
| No. of Phases | | | 3 | Reference | Performance | | IS:12615 | | |
| Frame Designation | | | 160L FLP | Standard | Enclosure | | IS:60079-1 | | |
| Rated Output | | | kW | 3.7 | Protection IS:4691 | | IP 55 | | |
| | | | HP | 5.0 | Vibration Standard | | IS:12075 | | |
| No. of Poles | | | 8 | Noise Standard | | IS:12065 | | | |
| Rated Voltage | | | V | 415 | Duty | | S1 | | |
| Rated Frequency | | | Hz | 50 | Insulation Class/Temp. Rise class | | F/B | | |
| Rated Current | | | A | 8.2 | Cooling IS:6362 | | IC411 | | |
| Rated Speed | | | rpm | 722 | Terminal Box Details | Terminal Size | | M6 | |
| Rated Torque | | | kgm | 4.99 | | No. of Terminal | | 6 | |
| Efficiency | | | Full load | % | | 81.4 | Max. cable size | | mm ² 2x3Cx25.0 |
| | | | 3/4 load | % | 81.4 | DE | | 6309ZZ | |
| | | | 1/2 load | % | 79.5 | NDE | | 6309ZZ | |
| Power factor | | | Full load | | 0.77 | Bearing Data | | Lubrication | Prelubricated |
| | | | 3/4 load | | 0.71 | Life L10 (Direct coupled) | | hrs. | 50,000 |
| | | | 1/2 load | | 0.59 | Regreasing Time | | hrs. | - |
| Temp. Rise (Res.) | | | °C | 70 | Lifting Eyebolt IS:4190 | | M12 | | |
| Acceleration Time | | | sec. | - | Motor Weight (approx) | | kg | 143 | |
| Stator Connection | | | D | Rotor GD ² | | kgm ² | 0.2625 | | |
| Tropicalised? (Yes/No) | | | Yes | Ambient Temp. | | °C | 50 | | |
| I _{st} / I _r | | | % | 6.0 | Overall Dimensions of Packed motor (LxBxH) (mm) | | | | |
| T _{st} / T _r | | | % | 2.2 | | | | | - |
| T _{po} / T _r | | | % | 2.4 | Voltage Variation ± | | % | 10 | |
| Locked rotor withstand time | | | Hot | sec | 6 | Frequency Variation ± | | % | 5 |
| | | | Cold | sec | 15 | Combiend Variation ± | | % | 10 |
| Customer Specific Requirements & Remarks | | | | | | | | | |
| (1) Efficiency Class : IE2 | | | | | | | | | |
| (2) Motor Construction : TEFC | | | | | | | | | |
| (3) Motor suitable for Gas Gr. IIA / IIB, Zone I & II | | | | | | | | | |
| (4) Temp Class: T5 & Explosion Protection : Ex 'd' | | | | | | | | | |
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| Data subject to tolerance as per IS:12615. | | | | | | | | | |
| Prep.: SK | | | Chkd.: SPJ | | | | | | |
| Date: 22/06/2020 | | | Date: 22/06/2020 | | | | | | |