



MLFB-Ordering data: 1LE7503-1BB23-5AA4

Frame size: 112M

Client order no.:

Item no.:

Order no.:

Consignment no.:

Offer no.:

Project:

Remarks:

| U<br>[V]±10% | Δ/Y<br>[Hz]±5% | f<br>[Hz]±5% | P<br>[kW] | I<br>[A] | n<br>[1/min] | M<br>[kgf.m] | M<br>[Nm] | NOM. EFF at ... load [%] * |      |      | Power factor at ... load * |      |      | I <sub>A</sub> /I <sub>N</sub><br>I/I <sub>N</sub> | M <sub>A</sub> /M <sub>N</sub><br>T <sub>A</sub> /T <sub>N</sub> | M <sub>K</sub> /M <sub>N</sub><br>T <sub>B</sub> /T <sub>N</sub> | IE-CL |
|--------------|----------------|--------------|-----------|----------|--------------|--------------|-----------|----------------------------|------|------|----------------------------|------|------|--|--|--|-------|
|              |                |              |           |          |              |              |           | 4/4                        | 3/4  | 2/4  | 4/4                        | 3/4  | 2/4  |  |  |  |       |
| 415          | Δ              | 50           | 3.70      | 7.30     | 1448         | 2.5          | 24.4      | 88.4                       | 88.4 | 87.0 | 0.80                       | 0.73 | 0.61 | 7.0  | 3.0  | 3.2  | IE3   |
|              |                |              |           |          |              |              |           |                            |      |      |                            |      |      |  |  |  |       |
|              |                |              |           |          |              |              |           |                            |      |      |                            |      |      |  |  |  |       |
|              |                |              |           |          |              |              |           |                            |      |      |                            |      |      |  |  |  |       |
|              |                |              |           |          |              |              |           |                            |      |      |                            |      |      |  |  |  |       |

Data subject to tolerance as per IS 12615 / IEC 60034-1

SF: 1.00

\*sinusoidal feed

Environmental conditions : -20 °C to +50 °C / 1000.0 m

locked rotor withstand time (hot / cold) : 8.0 s / 10.0 s

| Mechanical data                            |   | Terminal box                   |                            |
|--|---|--------------------------------|----------------------------|
| Sound pressure level 50Hz   60Hz           | 64 dB(A)                                | 67 dB(A)                       | Terminal box position      |
| Type of construction                       | IM B3 / IM 1001                         | Material of terminal box       | Aluminium                  |
| Bearing DE   NDE                           | 6206 2ZC3                               | Type of terminal box           | TB1 F04                    |
| Type of bearing                            | Locating (fixed) bearing, NDE           | Contact screw thread           | M5                         |
| Lubricants                                 | Esso Unirex N3                          | Max. cross-sectional area      | 16.0 mm <sup>2</sup>       |
| Regreasing device                          | - / -                                   | Cable diameter from ... to ... | 11.0 mm - 21.0 mm          |
| Grease nipple                              | - / -                                   | Cable entry                    | 2xM32x1,5                  |
| Bearing lifetime                           | 50000 h                                 | Cable gland                    | 2 Plugs                    |
| Degree of protection                       | IP55                                    |                                |                            |
| External earthing terminal                 | Yes (standard)                          |                                |                            |
| Vibration severity grade                   | A (Standard)                            |                                |                            |
| Insulation                                 | 155(F) utilized to 130(B)               |                                |                            |
| Duty type                                  | S1                                      |                                |                            |
| Direction of rotation                      | Bidirectional                           |                                |                            |
| Frame material                             | Cast iron                               |                                |                            |
| Data of anti condensation heating          | -/-                                     |                                |                            |
| Coating (paint finish)                     | Standard paint finish                   |                                |                            |
| Color, paint shade                         | RAL7030                                 |                                |                            |
| Motor protection                           | (A) without                             |                                |                            |
| Method of cooling                          | IC411 - Self ventilated, surface cooled |                                |                            |
| Forced ventilation motor details           | - / -                                   |                                |                            |
| Weight in kg, without optional accessories | 45 kg                                   |                                |                            |
| Rotor weight in kg                         | 9,3 kg                                  |                                |                            |
| Moment of inertia                          | Rotor GD <sup>2</sup>                   | 0.01137 kg m <sup>2</sup>      | 0.04548 kgf.m <sup>2</sup> |

### Notes

$I_A/I_N$  = locked rotor current / nominal current

$M_K/M_N$  = break down torque / nominal torque

$M_A/M_N$  = locked rotor torque / nominal torque