



MLFB-Ordering data: **1LE7501-1BB23-5AA4**

Frame size: **112M**

Client order no.:

Item no.:

Order no.:

Consignment no.:

Offer no.:

Project:

Remarks:

| U<br>[V]±10%  | Δ/Y | 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 * |      |      | $I_A/I_N$<br>$I_A/I_N$ | $M_A/M_N$<br>$T_A/T_N$ | $M_B/M_N$<br>$T_B/T_N$ | IE-CL |
|---|-----|--------------|-----------|----------|--------------|--------------|-----------|---|------|------|----------------------------|------|------|------------------------|------------------------|------------------------|-------|
|   |     |              |           |          |              |              |           | 4/4   | 3/4  | 2/4  | 4/4                        | 3/4  | 2/4  |                        |                        |                        |       |
| 415   | Δ   | 50           | 3.70      | 7.40     | 1445         | 2.5          | 24.4      | 86.3  | 86.3 | 86.0 | 0.81                       | 0.74 | 0.61 | 6.5                    | 2.6                    | 2.9                    | IE2   |
| 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          | Top                  |
| Type of construction                       | IM B3 / IM 1001                         |                           |                           | Material of terminal box       | Aluminium            |
| Bearing DE   NDE                           | 6206 2ZC3                               | 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 | 43 kg                                   |                           |                           |                                |                      |
| Rotor weight in kg                         | 9 kg                                    |                           |                           |                                |                      |
| Moment of inertia                          | Rotor GD <sup>2</sup>                   | 0.01055 kg m <sup>2</sup> | 0.0422 kgf.m <sup>2</sup> |                                |                      |

### Notes

$I_A/I_N$  = locked rotor current / nominal current       $M_A/M_N$  = break down torque / nominal torque  
 $M_B/M_N$  = locked rotor torque / nominal torque