



MLFB-Ordering data: 1LE7503-0CA22-3AA4

Frame size: 71M

Client order no.:

Order no.:

Offer no.:

Remarks:

Item no.:

Consignment no.:

Project:

| 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 <sub>A</sub> /I <sub>N</sub> | M <sub>A</sub> /M <sub>N</sub> | M <sub>k</sub> /M <sub>N</sub> | IE-CL |
|--------------|-----|--------------|-----------|----------|--------------|--------------|-----------|----------------------------|------|------|----------------------------|------|------|--------------------------------|--------------------------------|--------------------------------|-------|
|              |     |              |           |          |              |              |           | 4/4                        | 3/4  | 2/4  | 4/4                        | 3/4  | 2/4  | I <sub>A</sub> /I <sub>N</sub> | T <sub>f</sub> /T <sub>N</sub> | T <sub>B</sub> /T <sub>N</sub> |       |
| 415          | Y   | 50           | 0.37      | 0.88     | 2800         | 0.1          | 1.3       | 74.8                       | 73.8 | 68.0 | 0.78                       | 0.69 | 0.56 | 4.5                            | 2.5                            | 2.5                            | IE3   |
|              |     |              |           |          |              |              |           |                            |      |      |                            |      |      |                                |                                |                                |       |
|              |     |              |           |          |              |              |           |                            |      |      |                            |      |      |                                |                                |                                |       |

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

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

SF: 1.00

\*sinusoidal feed

locked rotor withstand time (hot / cold) : 14.0 s / 20.0 s

| Mechanical data                            |                                         |                           |                            | Terminal box                   |                     |
|--------------------------------------------|-----------------------------------------|---------------------------|----------------------------|--------------------------------|---------------------|
| Sound pressure level 50Hz   60Hz           | 69 dB(A)                                | 74 dB(A)                  |                            | Terminal box position          | Top                 |
| Type of construction                       | IM B3 / IM 1001                         |                           |                            | Material of terminal box       | Aluminium           |
| Bearing DE   NDE                           | 6202 2ZC3                               | 6202 2ZC3                 |                            | Type of terminal box           | TB1 E04             |
| Type of bearing                            | Locating (fixed) bearing, NDE           |                           |                            | Contact screw thread           | M4                  |
| Lubricants                                 | Esso Unirex N3                          |                           |                            | Max. cross-sectional area      | 6.0 mm <sup>2</sup> |
| Regreasing device                          | - / -                                   |                           |                            | Cable diameter from ... to ... | 4.5 mm - 10.0 mm    |
| Grease nipple                              | - / -                                   |                           |                            | Cable entry                    | 1xM16x1,5+1xM25x1,5 |
| 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 | 11 kg                                   |                           |                            |                                |                     |
| Rotor weight in kg                         | 1,1 kg                                  |                           |                            |                                |                     |
| Moment of inertia                          | Rotor GD <sup>2</sup>                   | 0.00028 kg m <sup>2</sup> | 0.00112 kgf.m <sup>2</sup> |                                |                     |

| Notes                                                                   |                                                                     |  |  |
|-------------------------------------------------------------------------|---------------------------------------------------------------------|--|--|
| I <sub>A</sub> /I <sub>N</sub> = locked rotor current / nominal current | M <sub>k</sub> /M <sub>N</sub> = break down torque / nominal torque |  |  |
| M <sub>A</sub> /M <sub>N</sub> = locked rotor torque / nominal torque   |                                                                     |  |  |