LÖNNE

# Data sheet for three-phase Squirrel-Cage-Motors

**Type:** 1TZ9 C 225M-4
L23+L25

**Motor type:** 1CV3222B

Customer: Date:
Order no.: Our order:
Remarks: Item no:

| U [V] | Δ / Y | f [Hz] | P [kW] | P [hp] | I [A] | n [1/min] | M [Nm] | NOM. EFF at ... load [%] 4/4 | 3/4 | 2/4 | Power factor at ... load 4/4 | 3/4 | 2/4 | $I_A/I_N$ $I_I/I_N$ | $M_A/M_N$ $T_I/T_N$ | $M_K/M_N$ $T_B/T_N$ | IE-CL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 400 | Δ | 50 | 45.00 | - / - | 80.00 | 1478 | 290.0 | 94.2 | 94.9 | 95.0 | 0.86 | 0.83 | 0.75 | 6.6 | 2.6 | 2.6 | IE3 |
| 690 | Y | 50 | 45.00 | - / - | 46.50 | 1478 | 290.0 | 94.2 | 94.9 | 95.0 | 0.86 | 0.83 | 0.75 | 6.6 | 2.6 | 2.6 | IE3 |
| 460 | Δ | 60 | 52.00 | - / - | 81.00 | 1778 | 280.0 | 94.1 | 94.7 | 94.8 | 0.86 | 0.84 | 0.77 | 6.8 | 2.6 | 2.6 | IE2 |
| 460 | Δ | 60 | 45.00 | - / - | 70.00 | 1782 | 240.0 | 95.0 | 95.3 | 95.1 | 0.85 | 0.81 | 0.73 | 7.7 | 3.0 | 3.0 | IE3 |
| IM B5 / IM 3001 | | | FS 225 M | | 340 kg | IP55 | | IEC/EN 60034 | | | IEC, DIN, ISO, VDE, EN | | | | | | |

## *Mechanical data*

| | | |
|---|---|---|
| Sound pressure level 50Hz/60Hz (load) | 65 dB(A) [1] | 68 dB(A) [1] |
| Moment of inertia | 0.52 kg m² | |
| Bearing DE \| NDE | 6313 C3 | 6313 C3 |
| Relubrication interval/quantity (AS\|BS) | 20 g \| 20 g<br>8000 h | |
| Lubricants | Unirex N3 | |
| Regreasing device | Yes | |
| Grease nipple | M10x1 DIN 3404 A | |
| Type of bearing | Locating bearing NDE | |
| Condensate drainage holes | Yes (standard) | |
| External earthing terminal | Yes (standard) | |
| Vibration severity grade | A | |
| Insulation | 155(F) 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 C2 | |
| Color, paint shade | RAL7030 | |
| Motor protection | (A) without (Standard) | |
| Method of cooling | IC411 - self ventilated, surface cooled | |

## *Environmental conditions*

| | |
|---|---|
| Ambient temperature | -20 °C - +40 °C |
| Altitude above sea level | 1000 m |

## *Terminal box*

| | |
|---|---|
| Terminal box position | top |
| Material of terminal box | cast iron |
| Type of terminal box | TB1 L01 |
| Contact screw thread | M8 |
| Max. cross-sectional area | 35.0 mm² |
| Cable diameter from ... to ... | 27.0 mm - 35.0 mm |
| Cable entry | 2xM50x1,5 |
| Cable gland | 2 plugs |

## *Special design (2)*

L23 Regreasing system

L25 Double sides reinforced bearings for DE and NDE, Type 63

**Notes**

$I_A/I_N$ = locked rotor current / current
$M_A/M_N$ = locked rotor torque / torque
$M_K/M_N$ = break down torque / nominal torque
1) at rated power

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.