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

**Motor type : 1CV3252B** **INNOMOTICS SD - 250 M - IM B5 - 4p**

| Client order no. | Item-No. | Offer no. |
|---|---|---|
| Order no. | Consignment no. | Project |

Remarks

**Safe Area**

**Electrical data** **-/-**

| U [V] | Δ / Y | f [Hz] | P [kW] | P [hp] | I [A] | n [1/min] | M [Nm] | η 3) 4/4 | η 3) 3/4 | η 3) 2/4 | cosφ 3) 4/4 | cosφ 3) 3/4 | cosφ 3) 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **DOL duty (S1)** - 155(F) to 130(B) | | | | | | | | | | | | | | | | | |
| 400 | Δ | 50 | 55.00 | -/- | 96.00 | 1482 | 355.0 | 94.6 | 95.1 | 95.0 | 0.87 | 0.84 | 0.76 | 6.8 | 2.5 | 2.9 | IE3 |
| | | | | | | | | | | | | | | | | | |
| 460 | Δ | 60 | 63.00 | -/- | 97.00 | 1782 | 340.0 | 94.1 | 94.5 | 94.4 | 0.87 | 0.84 | 0.77 | 6.7 | 2.4 | 2.8 | IE2 |
| 460 | Δ | 60 | 55.00 | -/- | 84.00 | 1786 | 295.0 | 95.4 | 95.6 | 95.1 | 0.86 | 0.83 | 0.74 | 7.6 | 2.8 | 3.2 | IE3 |
| IM B5 / IM 3001 | | | FS 250 M | | | IP55 | UKCA | IEC/EN 60034 | | IEC, DIN, ISO, VDE, EN | | | | | | | |

Environmental conditions : -20 °C - +40 °C / 1000 m | Locked rotor time (hot / cold) : 34.9 s | 55 s

## Mechanical data

| | | | |
|---|---|---|---|
| Sound level (SPL / SWL) at 50Hz\|60Hz | 66 / 79 dB(A) 2) 3) | Vibration severity grade | A |
| Moment of inertia | 0.8500 kg m² | Thermal class | F |
| Bearing DE \| NDE | 6215 Z C3 / 6215 Z C3 | Duty type | S1 |
| **bearing lifetime** | | Direction of rotation | bidirectional |
| $L_{10mh}$ $F_{Rad\ min}$ for coupling operation 50\|60Hz 1) | 40000 h / 32000 h | Frame material | cast iron |
| Regreasing device | Without | Net weight of the motor (IM B3) | 420 kg |
| Grease nipple | -/- | Coating (paint finish) | Standard paint finish C2 |
| Type of bearing | Locating bearing NDE | Color, paint shade | RAL7030 |
| Condensate drainage holes | With (standard) | Motor protection | (B) 3 PTC thermistors - for tripping (2 terminals) |
| External earthing terminal | With (standard) | Method of cooling | IC411 - self ventilated, surface cooled |

## Terminal box

| | | | |
|---|---|---|---|
| Terminal box position | top | Max. cross-sectional area | 120 mm² |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 34 mm - 42 mm |
| Type of terminal box | TB1 N01 | Cable entry | 2xM63x1,5-2xM20x1,5 |
| Contact screw thread | M10 | Cable gland | 4 plugs |

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

1) $L_{10mh}$ according to DIN ISO 281 10/2010
2) at rated power / at full load
3) Value is valid only for DOL operation with motor design IC411



| Responsible department | Technical reference | Created by | Approved by | *Technical data are subject to change! There may be discrepancies between calculated and rating plate values.* | Link documents |
|---|---|---|---|---|---|
| IN LVM | | SPC | Created automatically | | |

INNOMOTICS

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