

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



Motor type : 1CV3222B

INNOMOTICS SD - 225 M - IM B3 - 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] | $\eta^{3)}$ | | | $\cos\phi^{3)}$ | | | I_A/I_N I_f/I_N | M_A/M_N T_f/T_N | M_K/M_N T_B/T_N | IE-CL |
|---|--------------|-----------|-----------|-----------|----------|--------------|-----------|--------------|------|--|-----------------|------|------|------------------------|------------------------|------------------------|-------|
| | | | | | | | | 4/4 | 3/4 | 2/4 | 4/4 | 3/4 | 2/4 | | | | |
| DOL duty (S1) - 155(F) to 130(B) | | | | | | | | | | | | | | | | | |
| 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 B3 / IM 1001 | | FS 225 M | | IP55 | | UKCA | | IEC/EN 60034 | | IEC, DIN, ISO, VDE, EN | | | | | | | |
| Environmental conditions : -20 °C - +40 °C / 1000 m | | | | | | | | | | Locked rotor time (hot / cold) : 33.7 s 53.2 s | | | | | | | |

Mechanical data

| | | | | |
|---|--------------------------------|--------------------------------|---------------------------------|---|
| Sound level (SPL / SWL) at 50Hz 60Hz | 65 / 78 dB(A) ^{2) 3)} | 68 / 82 dB(A) ^{2) 3)} | Vibration severity grade | A |
| Moment of inertia | 0.5200 kg m ² | | Thermal class | F |
| Bearing DE NDE | 6213 Z C3 | 6213 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) | 340 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 | (A) without (Standard) |
| External earthing terminal | With (standard) | | Method of cooling | IC411 - self ventilated, surface cooled |

Terminal box

| | | | |
|--------------------------|-----------|--------------------------------|--------------------|
| Terminal box position | top | Max. cross-sectional area | 35 mm ² |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 27 mm - 35 mm |
| Type of terminal box | TB1 L01 | Cable entry | 2xM50x1,5 |
| Contact screw thread | M8 | Cable gland | 2 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

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