

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



Motor type : 1CV3222C

SIMOTICS SD - 225 M - IM B3 - 6p

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

Electrical data

Safe Area

| U [V] | Δ / Y | f [Hz] | P [kW] | P [hp] | I [A] | n [1/min] | M [Nm] | η 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 | 30.00 | -/- | 56.00 | 982 | 290.0 | 92.9 | 93.6 | 93.5 | 0.83 | 0.79 | 0.70 | 6.6 | 2.6 | 3.0 | IE3 |
| 690 | Y | 50 | 30.00 | -/- | 32.50 | 982 | 290.0 | 92.9 | 93.6 | 93.5 | 0.83 | 0.79 | 0.70 | 6.6 | 2.6 | 3.0 | IE3 |
| IM B3 / IM 1001 | | | FS 225 M | | IP55 | | IEC/EN 60034 | | IEC, DIN, ISO, VDE, EN | | | | | | | | |

Environmental conditions : -20 °C - +40 °C / 1,000 m

Mechanical data

| | | | | |
|---|-----------------------------|-----------------------------|---------------------------------|---|
| Sound level (SPL / SWL) at 50Hz 60Hz | 64 / 77 dB(A) ²⁾ | 66 / 80 dB(A) ²⁾ | Vibration severity grade | A |
| Moment of inertia | 0.6700 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 50 60Hz Lubricants | 40000 h | 32000 h | Frame material | cast iron |
| Regreasing device | Unirex N3 | | Net weight of the motor (IM B3) | 325 kg |
| Grease nipple | No | | Coating (paint finish) | Standard paint finish C2 |
| Type of bearing | Locating bearing NDE | | Color, paint shade | RAL7030 |
| Condensate drainage holes | Yes (standard) | | Motor protection | (A) without (Standard) |
| External earthing terminal | Yes (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 |

Notes:

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) L10mh 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 dep. DI MC LVM | technical reference | created by DT Configurator | approved by | <i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i> | Link documents |
| | document type datasheet | document status released | | | |
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