

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



Motor type : 1CV3132B

SIMOTICS SD - 132 M - IM V1 - 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 | 7.50 | -/- | 15.00 | 1465 | 49.0 | 90.4 | 90.7 | 90.4 | 0.80 | 0.74 | 0.63 | 8.5 | 3.0 | 3.8 | IE3 |
| 690 | Y | 50 | 7.50 | -/- | 8.70 | 1465 | 49.0 | 90.4 | 90.7 | 90.4 | 0.80 | 0.74 | 0.63 | 8.5 | 3.0 | 3.8 | IE3 |
| 460 | Δ | 60 | 8.60 | -/- | 14.90 | 1765 | 46.5 | 89.5 | 90.0 | 89.4 | 0.81 | 0.76 | 0.65 | 8.8 | 3.0 | 3.8 | IE2 |
| 460 | Δ | 60 | 7.50 | -/- | 13.00 | 1770 | 40.5 | 91.7 | 91.6 | 90.6 | 0.79 | 0.73 | 0.61 | 9.8 | 3.4 | 4.3 | IE3 |
| IM V1 / IM 3011 | | FS 132 M | | IP55 | | UKCA | | IEC/EN 60034 | | IEC, DIN, ISO, VDE, EN | | | | | | | |

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

Locked rotor time (hot / cold) : 14.8 s | 20.1 s

Mechanical data

| | | | | |
|--|--------------------------------|--------------------------------|---------------------------------|---|
| Sound level (SPL / SWL) at 50Hz 60Hz | 72 / 80 dB(A) ^{2) 3)} | 68 / 76 dB(A) ^{2) 3)} | Vibration severity grade | A |
| Moment of inertia | 0.0334 kg m ² | | Thermal class | F |
| Bearing DE NDE | 6208 2Z C3 | 6208 2Z C3 | Duty type | S1 |
| bearing lifetime | | | Direction of rotation | bidirectional |
| L_{10mh} , $F_{Rad min}$ 50 60Hz ¹⁾ for coupling operation | 20000 h | 16000 h | Frame material | cast iron |
| Regreasing device | Without | | Net weight of the motor (IM B3) | 80 kg |
| Grease nipple | -/- | | Coating (paint finish) | Standard paint finish C2 |
| Type of bearing | Preloaded bearing DE | | Color, paint shade | RAL7030 |
| Condensate drainage holes | With (standard) | | Motor protection | (A) without (Standard) |
| External earthing terminal | Without | | Method of cooling | IC411 - self ventilated, surface cooled |

Terminal box

| | | | |
|--------------------------|-----------|--------------------------------|-------------------|
| Terminal box position | top | Max. cross-sectional area | 6 mm ² |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 11 mm - 21 mm |
| Type of terminal box | TB1 H01 | Cable entry | 2xM32x1,5 |
| Contact screw thread | M4 | Cable gland | 2 plugs |

Notes:

I_A/I_N = locked rotor current / current nominal
 M_K/M_N = locked rotor torque / torque nominal
 M_f/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 dep. IN LVM | technical reference | created by SPC | 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 | | | document number |
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