

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



Motor type : 1CV1205C

SIMOTICS SD - 200 L - 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] | $\eta^{3)}$ | | | $\cos\phi^{3)}$ | | | 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 | | | | |
| 400 | Δ | 50 | 22.00 | -/- | 45.00 | 980 | 215.0 | 89.2 | 90.0 | 89.6 | 0.79 | 0.74 | 0.62 | 6.8 | 2.8 | 2.9 | IE1 |
| 690 | Y | 50 | 22.00 | -/- | 26.00 | 980 | 215.0 | 89.2 | 90.0 | 89.6 | 0.79 | 0.74 | 0.62 | 6.8 | 2.8 | 2.9 | IE1 |
| 460 | Δ | 60 | 26.50 | -/- | 45.00 | 1180 | 215.0 | 91.7 | 92.4 | 92.1 | 0.81 | 0.77 | 0.67 | 6.9 | 2.7 | 2.7 | IE1 |

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|-----------------|----------|------|--------------|------------------------|
| IM B3 / IM 1001 | FS 200 L | IP55 | IEC/EN 60034 | IEC, DIN, ISO, VDE, EN |
|-----------------|----------|------|--------------|------------------------|

Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 9.27 s | 16.4 s

Mechanical data

| | | | | |
|--|-----------------------------|-----------------------------|---------------------------------|---|
| Sound level (SPL / SWL) at 50Hz 60Hz | 59 / 72 dB(A) ²⁾ | 61 / 74 dB(A) ²⁾ | Vibration severity grade | A |
| Moment of inertia | 0.3000 kg m ² | | Insulation | 155(F) to 130(B) |
| Bearing DE NDE | 6212 Z C3 | 6212 Z C3 | Duty type | S1 |
| bearing lifetime | | | Direction of rotation | bidirectional |
| L _{10mh} , F _{Rad} min 50 60Hz ¹⁾ for coupling operation | 40000 h | 32000 h | Frame material | cast iron |
| Lubricants | Unirex N3 | | Net weight of the motor (IM B3) | 220 kg |
| Regreasing device | No | | Coating (paint finish) | Standard paint finish C2 |
| Grease nipple | -/- | | Color, paint shade | RAL7030 |
| Type of bearing | Locating bearing NDE | | Motor protection | (A) without (Standard) |
| Condensate drainage holes | Yes (standard) | | Method of cooling | IC411 - self ventilated, surface cooled |
| External earthing terminal | Yes (standard) | | | |

Terminal box

| | | | |
|--------------------------|-----------|--------------------------------|--------------------|
| Terminal box position | top | Max. cross-sectional area | 25 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 | M6 | Cable gland | 2 plugs |

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

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