

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



Motor type : 1CV1282B

SIMOTICS SD - 280 M - IM B3 - 4p

| | | |
|------------------|-----------------|-----------|
| 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_i/I_N | M_A/M_N T_i/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 | 90.00 | -/- | 161.00 | 1482 | 580.0 | 93.0 | 93.4 | 93.1 | 0.87 | 0.85 | 0.77 | 6.5 | 2.2 | 2.8 | IE1 |
| 690 | Y | 50 | 90.00 | -/- | 93.00 | 1482 | 580.0 | 93.0 | 93.4 | 93.1 | 0.87 | 0.85 | 0.77 | 6.5 | 2.2 | 2.8 | IE1 |
| 460 | Δ | 60 | 104.00 | -/- | 159.00 | 1782 | 560.0 | 93.5 | 93.8 | 93.4 | 0.88 | 0.86 | 0.80 | 6.5 | 2.2 | 2.6 | IE1 |

IM B3 / IM 1001 FS 280 M 560 kg 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 | 72.0 / 86.0 dB(A) ²⁾ | 76.0 / 90.0 dB(A) ²⁾ | External earthing terminal | Yes (standard) |
| Moment of inertia | 1.4000 kg m ² | | Vibration severity grade | A |
| Bearing DE NDE | 6317 C3 | 6317 C3 | Insulation | 155(F) to 130(B) |
| bearing lifetime | | | Duty type | S1 |
| L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾ | 40000 h | 32000 h | Direction of rotation | bidirectional |
| Relubrication interval/quantity (AS BS) | 30 g 30 g 8000 h | | Frame material | cast iron |
| Lubricants | Unirex N3 | | Coating (paint finish) | Standard paint finish C2 |
| Regreasing device | Yes (standard) | | Color, paint shade | RAL7030 |
| Grease nipple | M10x1 DIN 3404 A | | Motor protection | (A) without (Standard) |
| Type of bearing | Locating bearing NDE | | Method of cooling | IC411 - self ventilated, surface cooled |
| Condensate drainage holes | Yes (standard) | | | |

Terminal box

| | | | |
|--------------------------|-----------|--------------------------------|-----------------------|
| Terminal box position | top | Max. cross-sectional area | 120.0 mm ² |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 34.0 mm - 42.0 mm |
| Type of terminal box | TB1 N01 | Cable entry | 2xM63x1,5 |
| Contact screw thread | M10 | 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

| | | | | |
|-------------------------------|---------------------|-------------------------------|-------------|---|
| 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> |
|-------------------------------|---------------------|-------------------------------|-------------|---|

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| | | | | Page 1/1 |