

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 | Safe Area |
| Electrical data | -/- |

| U | Δ / Y | f | P | P | I | n | M | η ³⁾ | | | cosφ ³⁾ | | | I _A /I _N | M _A /M _N | M _K /M _N | IE-CL |
|-----------------------------------------------------|-------|----------|--------|------|--------|---------|-------|-----------------|--------------------------------------------------|------------------------|--------------------|------|------|--------------------------------|--------------------------------|--------------------------------|-------|
| [V] | | [Hz] | [kW] | [hp] | [A] | [1/min] | [Nm] | 4/4 | 3/4 | 2/4 | 4/4 | 3/4 | 2/4 | I _I /I _N | T _I /T _N | T _B /T _N | |
| DOL duty (S1) - 155(F) to 130(B) | | | | | | | | | | | | | | | | | |
| 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 | | | | IP55 | UKCA | IEC/EN 60034 | | IEC, DIN, ISO, VDE, EN | | | | | | | |
| Environmental conditions : -20 °C - +40 °C / 1000 m | | | | | | | | | Locked rotor time (hot / cold) : 19.3 s 36.9 s | | | | | | | | |

Mechanical data


| | | | | |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz | 72 / 86 dB(A) ^{2) 3)} | 76 / 90 dB(A) ^{2) 3)} | External earthing terminal | With (standard) |
| Moment of inertia | 1.4000 kg m ² | | Vibration severity grade | A |
| Bearing DE NDE | 6317 C3 | 6317 C3 | Thermal class | F |
| 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 DE NDE | 30 g 30 g | 8000 h | Frame material | cast iron |
| Lubricants | Unirex N3 | | Net weight of the motor (IM B3) | 560 kg |
| Regreasing device | With (standard) | | Coating (paint finish) | Standard paint finish C2 |
| Grease nipple | M10x1 DIN 3404 A | | Color, paint shade | RAL7030 |
| Type of bearing | Locating bearing NDE | | Motor protection | (A) without (Standard) |
| Condensate drainage holes | With (standard) | | Method of cooling | IC411 - self ventilated, surface cooled |

Terminal box

| | | | |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position | top | Max. cross-sectional area | 120 mm ² |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 34 mm - 45 mm |
| Type of terminal box | TB1 N01 | Cable entry | 2xM63x1,5 |
| Contact screw thread | M10 | Cable gland | 2 plugs |

I_A/I_N = locked rotor current / current nominal
M_K/M_N = locked rotor torque / torque nominal
M_B/M_N = break down torque / nominal torque
1) L_{10mh} according to DIN ISO 281 10/2010
2) at rated power I 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 | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. | | Link documents | |
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