

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



Motor type : 1CV3186A

INNOMOTICS SD - 180 L - IM B3 - 2p

| | | |
|------------------|-----------------|-----------|
| 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] | η ³⁾ | | | cosφ 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 | | | | |
| DOL duty (S1) - 155(F) to 130(B) | | | | | | | | | | | | | | | | | |
| 400 | Δ | 50 | 30.00 | -/- | 53.00 | 2950 | 97.0 | 93.3 | 93.6 | 93.1 | 0.88 | 0.85 | 0.77 | 8.6 | 2.6 | 3.9 | IE3 |
| 690 | Y | 50 | 30.00 | -/- | 30.50 | 2950 | 97.0 | 93.3 | 93.6 | 93.1 | 0.88 | 0.85 | 0.77 | 8.6 | 2.6 | 3.9 | IE3 |
| 460 | Δ | 60 | 33.50 | -/- | 51.00 | 3550 | 90.0 | 93.0 | 93.4 | 92.7 | 0.88 | 0.85 | 0.77 | 8.6 | 2.6 | 4.0 | IE3 |
| 460 | Δ | 60 | 30.00 | -/- | 47.00 | 3560 | 80.0 | 92.4 | 92.9 | 92.2 | 0.87 | 0.83 | 0.73 | 8.8 | 2.9 | 4.5 | IE3 |
| IM B3 / IM 1001 | | FS 180 L | | IP55 | | UKCA | | IEC/EN 60034 | | IEC, DIN, ISO, VDE, EN | | | | | | | |
| Environmental conditions : -20 °C - +40 °C / 1000 m | | | | | | | | | | Locked rotor time (hot / cold) : 13.6 s 23.7 s | | | | | | | |

Mechanical data

| | | | | |
|--|--------------------------------|--------------------------------|---------------------------------|---|
| Sound level (SPL / SWL) at 50Hz 60Hz | 67 / 80 dB(A) ^{2) 3)} | 77 / 89 dB(A) ^{2) 3)} | Vibration severity grade | A |
| Moment of inertia | 0.0940 kg m ² | | Thermal class | F |
| Bearing DE NDE | 6210 2Z C3 | 6210 2Z 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 |
| Regreasing device | Without | | Net weight of the motor (IM B3) | 175 kg |
| Grease nipple | -/- | | Coating (paint finish) | Standard paint finish C2 |
| Type of bearing | Locating bearing NDE | | Color, paint shade | RAL7030 |
| Condensate drainage holes | With (standard) | | Motor protection | (A) without (Standard) |
| External earthing terminal | With (standard) | | Method of cooling | IC411 - self ventilated, surface cooled |

Terminal box

| | | | |
|---------------------------|--------------------|--------------------------------|---------------|
| Terminal box position | top | Cable diameter from ... to ... | 19 mm - 28 mm |
| Material of terminal box | cast iron | Cable entry | 2xM40x1,5 |
| Type of terminal box | TB1 J01 | Cable gland | 2 plugs |
| Contact screw thread | M5 | Cable length | |
| Max. cross-sectional area | 16 mm ² | | |

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) 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

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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 |
| INNOMOTICS | Document type Technical data sheet | Document status Released | | | |
| | Document title 1LE1503-1EA63-4AA4 | Document number TDS-250306-165344 | | | |
| Restricted © Innomotics 2025 | | Revision AA | Creation date 2025-03-06 | Language en | Page 1/1 |