

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



Motor type : 1CV2082C

INNOMOTICS SD - 80 M - IM B5 - 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_V/I_N | M_A/M_N T_A/T_N | M_R/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) | | | | | | | | | | | | | | | | | |
| 230 | Δ | 50 | 0.37 | -/- | 1.99 | 925 | 3.8 | 67.6 | 67.9 | 64.4 | 0.69 | 0.60 | 0.47 | 4.0 | 2.1 | 2.4 | IE2 |
| 400 | Y | 50 | 0.37 | -/- | 1.14 | 925 | 3.8 | 67.6 | 67.9 | 64.4 | 0.69 | 0.60 | 0.47 | 4.0 | 2.1 | 2.4 | IE2 |
| 460 | Y | 60 | 0.43 | -/- | 1.22 | 1125 | 3.6 | 64.0 | 64.1 | 61.3 | 0.69 | 0.60 | 0.48 | 4.2 | 2.1 | 2.6 | IE2 |
| 460 | Y | 60 | 0.37 | -/- | 1.15 | 1140 | 3.1 | 64.0 | 63.0 | 59.1 | 0.63 | 0.54 | 0.42 | 4.6 | 2.3 | 2.9 | IE2 |
| IM B5 / IM 3001 | | FS 80 M | | IP55 | | UKCA | | IEC/EN 60034 | | IEC, DIN, ISO, VDE, EN | | | | | | | |
| Environmental conditions : -20 °C - +40 °C / 1000 m | | | | | | | | | Locked rotor time (hot / cold) : 18.90 s 31.60 s | | | | | | | | |

Mechanical data

| | | | | |
|---|---|---|------------------------------------|---|
| Sound level (SPL / SWL) at 50Hz 60Hz | 42.0 / 53.0 dB(A) <small>2) 3)</small> | 45.0 / 56.0 dB(A) <small>2) 3)</small> | Vibration severity grade | A |
| Moment of inertia | 0.0017 kg m ² | | Thermal class | F |
| Bearing DE NDE | 6204 2Z C3 | 6204 2Z C3 | Duty type | S1 |
| Bearing lifetime | | | Direction of rotation | bidirectional |
| L_{10mh} $F_{Rad min}$ for coupling operation 50 60Hz ¹⁾ | 40000 h | 32000 h | Frame material | cast iron |
| Regreasing device | Without | | Net weight of the motor (IM B3) | 16 kg |
| Grease nipple | -/- | | Coating (paint finish) | Standard paint finish C2 |
| Type of bearing | Preloaded bearing DE | | Color, paint shade | RAL7030 |
| Condensate drainage holes | Without | | Motor protection | (B) 1 PTC thermistor - for tripping (2 terminals) |
| External earthing terminal | Without | | Method of cooling | IC411 - self ventilated, surface cooled |
| | | | Carbon footprint (without options) | 41kg |

Terminal box

| | | | |
|---------------------------|---------------------|-----------------------|-----------|
| Terminal box position | top | Main cable entry | 1xM25x1.5 |
| Material of terminal box | cast iron | Main cable gland | 1 plug |
| Type of terminal box | TB1 D01 | Auxiliary cable entry | 1xM16x1.5 |
| Contact screw thread | 6xM4 | Auxiliary cable gland | 1 plug |
| Max. cross-sectional area | 2.5 mm ² | | |

I_A/I_N = locked rotor current / current nominal
 M_R/M_N = locked rotor torque / torque nominal
 M_V/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 LV | Technical reference | Created by IPC | Approved by | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. | Link documents |
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