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

**Motor type : 1CV3352C** **INNOMOTICS SD - 355 L - IM B3 - 6p**

| 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) 4/4 | η 3) 3/4 | η 3) 2/4 | cosφ 3) 4/4 | cosφ 3) 3/4 | cosφ 3) 2/4 | $I_A/I_N$ $I_I/I_N$ | $M_A/M_N$ $T_I/T_N$ | $M_K/M_N$ $T_B/T_N$ | IE-CL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **DOL duty (S1)** - 155(F) to 130(B) | | | | | | | | | | | | | | | | | |
| 380 | Δ | 50 | 315.00 | -/- | 610.00 | 993 | 3050.0 | 95.8 | 95.8 | 95.3 | 0.82 | 0.77 | 0.66 | 7.8 | 2.9 | 3.2 | IE3 |
| 660 | Y | 50 | 315.00 | -/- | 350.00 | 993 | 3050.0 | 95.8 | 95.8 | 95.3 | 0.82 | 0.77 | 0.66 | 7.8 | 2.9 | 3.2 | IE3 |
| 440 | Δ | 60 | 315.00 | -/- | 530.00 | 1194 | 2500.0 | 95.8 | 95.7 | 95.0 | 0.82 | 0.77 | 0.65 | 9.2 | 3.2 | 3.6 | IE3 |
| 440 | Δ | 60 | 380.00 | -/- | 620.00 | 1192 | 3050.0 | 95.8 | 95.9 | 95.5 | 0.84 | 0.80 | 0.70 | 8.2 | 2.6 | 3.0 | IE3 |
| | | | | | | | | | | | | | | | | | |
| IM B3 / IM1001 | | | FS 355 L | | | IP55 | UKCA | IEC/EN 60034 | | | IEC, DIN, ISO, VDE, EN | | | | | | |

Environmental conditions : -20 °C - +40 °C / 1000 m | Locked rotor time (hot / cold) : 35.3 s | 54.7 s

## Mechanical data

| | | | |
|---|---|---|---|
| Sound level (SPL / SWL) at 50Hz\|60Hz | 75 / 90 dB(A) 2) 3) | 78 / 94 dB(A) 2) 3) | |
| Moment of inertia | 11.6000 kg m² | | |
| Bearing DE \| NDE | 6320 C4 | 6320 C4 | |
| permissible lateral force on (N) *(N)* | $x_0$: 11200 | $x_{0,5}$: 10500 | $x_{max}$: 9800 |
| **bearing lifetime** | | | |
| $L_{10mh}$ $F_{Rad\ min}$ for coupling operation 50\|60Hz 1) | 40000 h | 32000 h | |
| Relubrication interval/quantity DE \| NDE | 60 g \| 60 g 6000 h | | |
| Lubricants | UNIREX N3 | | |
| Regreasing device | Flat type lubricating nipple | | |
| Grease nipple | M10x1 DIN 3404 A | | |
| Type of bearing | Locating bearing NDE | | |
| Condensate drainage holes | (Standard) Yes | | |

| | |
|---|---|
| External earthing terminal | (Standard) Yes |
| Vibration severity grade | Grade A |
| Thermal class | F |
| Duty type | S1 |
| Direction of rotation | bidirectional |
| Frame material | cast iron |
| Net weight of the motor | kg |
| Coating (paint finish) | Special paint finish C3 |
| Color, paint shade | RAL7030 |
| Motor protection | 1 temperature sensor KTY84-130 (2 terminals) |
| Method of cooling | IC411 - self ventilated, surface cooled |

## Terminal box

| | | | |
|---|---|---|---|
| Terminal box position | box at the angle 45°, socket right | Max. cross-sectional area | 300 mm² |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 63 mm - 70 mm |
| Type of terminal box | TB3R01 | Cable entry | 2xM80x2 - 2xM20x1,5 |
| Contact screw thread | 6xM16 | Cable gland | -/- |

$I_A/I_N$ = 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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## Special design

| | | | |
|---|---|---|---|
| G03 | Mounting of rotary pulse encoder HOG 86E, 1024 I | Q02 | Anti-condensation heating for 230 V (2 terminals) |

## Additional information:

**Space heaters**

Technical data: 1-phase, 230V, 218W