

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



Motor type : 1CV3130B

INNOMOTICS SD - 132 S - IM B3 - 4p

|                  |                 |           |
|------------------|-----------------|-----------|
| Client order no. | Item-No.        | Offer no. |
| Order no.        | Consignment no. | Project   |

Remarks **Safe Area**

**Electrical data**

-/-

| U<br>[V]  | $\Delta / Y$ | f<br>[Hz] | P<br>[kW] | P<br>[hp] | I<br>[A] | n<br>[1/min] | M<br>[Nm] | $\eta^{3)}$  |      |  | $\cos\phi^{3)}$ |      |      | $I_A/I_N$<br>$I_f/I_N$ | $M_A/M_N$<br>$T_f/T_N$ | $M_K/M_N$<br>$T_B/T_N$ | IE-CL |
|---|--------------|-----------|-----------|-----------|----------|--------------|-----------|--------------|------|--|-----------------|------|------|------------------------|------------------------|------------------------|-------|
|   |              |           |           |           |          |              |           | 4/4          | 3/4  | 2/4  | 4/4             | 3/4  | 2/4  |                        |                        |                        |       |
| <b>DOL duty (S1) - 155(F) to 130(B)</b>             |              |           |           |           |          |              |           |              |      |  |                 |      |      |                        |                        |                        |       |
| 400   | $\Delta$     | 50        | 5.50      | -/-       | 10.80    | 1470         | 35.5      | 89.6         | 90.0 | 89.4   | 0.82            | 0.77 | 0.67 | 8.5                    | 2.9                    | 3.7                    | IE3   |
| 690   | Y            | 50        | 5.50      | -/-       | 6.30     | 1470         | 35.5      | 89.6         | 90.0 | 89.4   | 0.82            | 0.77 | 0.67 | 8.5                    | 2.9                    | 3.7                    | IE3   |
| 460   | $\Delta$     | 60        | 6.30      | -/-       | 10.40    | 1770         | 34.0      | 91.7         | 92.0 | 91.3   | 0.83            | 0.79 | 0.69 | 8.7                    | 2.7                    | 3.7                    | IE3   |
| 460   | $\Delta$     | 60        | 5.50      | -/-       | 9.30     | 1775         | 29.5      | 91.7         | 91.6 | 90.5   | 0.81            | 0.76 | 0.65 | 10.0                   | 3.1                    | 4.2                    | IE3   |
| IM B3 / IM 1001                                     |              | FS 132 S  |           | IP55      |          | UKCA         |           | IEC/EN 60034 |      | IEC, DIN, ISO, VDE, EN                           |                 |      |      |                        |                        |                        |       |
| Environmental conditions : -20 °C - +40 °C / 1000 m |              |           |           |           |          |              |           |              |      | Locked rotor time (hot / cold) : 22.8 s   29.1 s |                 |      |      |                        |                        |                        |       |

**Mechanical data**

|   |                                |                                |                                 |   |
|---|--------------------------------|--------------------------------|---------------------------------|---|
| Sound level (SPL / SWL) at 50Hz 60Hz                                      | 64 / 76 dB(A) <sup>2) 3)</sup> | 68 / 80 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A   |
| Moment of inertia   | 0.0340 kg m <sup>2</sup>       |                                | Thermal class                   | F   |
| Bearing DE   NDE  | 6308 2Z C3                     | 6308 2Z C3                     | Duty type                       | S1  |
| <b>bearing lifetime</b>   |                                |                                | Direction of rotation           | bidirectional   |
| $L_{10mh}$ $F_{Rad, min}$ for coupling operation<br>50 60Hz <sup>1)</sup> | 40000 h                        | 32000 h                        | Frame material                  | cast iron   |
| Regreasing device   | Without                        |                                | Net weight of the motor (IM B3) | 74 kg   |
| Grease nipple   | -/-                            |                                | Coating (paint finish)          | Special paint finish C3                                       |
| Type of bearing   | Preloaded bearing DE           |                                | Color, paint shade              | RAL7030   |
| Condensate drainage holes   | With (standard)                |                                | Motor protection                | (B) 3 PTC thermistors - for tripping (standard) (2 terminals) |
| External earthing terminal  | Without                        |                                | Method of cooling               | IC411 - self ventilated, surface cooled                       |

**Terminal box**

|                          |           |                                |                     |
|--------------------------|-----------|--------------------------------|---------------------|
| Terminal box position    | top       | Max. cross-sectional area      | 6 mm <sup>2</sup>   |
| Material of terminal box | cast iron | Cable diameter from ... to ... | 11 mm - 21 mm       |
| Type of terminal box     | TB1 H01   | Cable entry                    | 2xM32x1,5-1xM16x1,5 |
| Contact screw thread     | M4        | Cable gland                    | 3 plugs             |

$I_A/I_N$  = locked rotor current / current nominal 1)  $L_{10mh}$  according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411  
 $M_A/M_N$  = locked rotor torque / torque nominal 2) at rated power / at full load  
 $M_K/M_N$  = break down torque / nominal torque

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|                                  |                                       |                                      |                                      |   |                                |
|----------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|---|--------------------------------|
| Responsible department<br>IN LVM | Technical reference                   | Created by<br>SPC                    | Approved by<br>Created automatically | <i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i> | <a href="#">Link documents</a> |
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