

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



Motor type : 1AV3130B INNOMOTICS GP - 132 S - IM B5 - 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 <sup>3)</sup> |                                                  |                        | cosφ <sup>3)</sup> |      |      | I <sub>A</sub> /I <sub>N</sub> | M <sub>A</sub> /M <sub>N</sub> | M <sub>K</sub> /M <sub>N</sub> | IE-CL |
|-----------------------------------------------------|-------|----------|------|------|-------|---------|------|-----------------|--------------------------------------------------|------------------------|--------------------|------|------|--------------------------------|--------------------------------|--------------------------------|-------|
| [V]                                                 |       | [Hz]     | [kW] | [hp] | [A]   | [1/min] | [Nm] | 4/4             | 3/4                                              | 2/4                    | 4/4                | 3/4  | 2/4  | I <sub>I</sub> /I <sub>N</sub> | T <sub>I</sub> /T <sub>N</sub> | T <sub>B</sub> /T <sub>N</sub> |       |
| DOL duty (S1) - 155(F) to 130(B)                    |       |          |      |      |       |         |      |                 |                                                  |                        |                    |      |      |                                |                                |                                |       |
| 380                                                 | Δ     | 50       | 5.50 | -/-  | 11.40 | 1470    | 35.5 | 89.6            | 90.0                                             | 89.4                   | 0.82               | 0.77 | 0.67 | 8.5                            | 2.9                            | 3.7                            | IE3   |
|                                                     |       |          |      |      |       |         |      |                 |                                                  |                        |                    |      |      |                                |                                |                                |       |
| 440                                                 | Δ     | 60       | 6.30 | -/-  | 10.90 | 1770    | 34.0 | 91.7            | 92.0                                             | 91.3                   | 0.83               | 0.79 | 0.69 | 8.7                            | 2.7                            | 3.7                            | IE3   |
| 440                                                 | Δ     | 60       | 5.50 | -/-  | 9.70  | 1775    | 29.5 | 91.7            | 91.6                                             | 90.5                   | 0.81               | 0.76 | 0.65 | 10.0                           | 3.1                            | 4.2                            | IE3   |
| IM B5 / IM 3001                                     |       | 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 m²                   |                                | Thermal class                   | F                                       |
| Bearing DE   NDE                                                                       | 6208 2Z C3                     | 6208 2Z C3                     | Duty type                       | S1                                      |
| bearing lifetime                                                                       |                                |                                | Direction of rotation           | bidirectional                           |
| L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation<br>50 60Hz <sup>1)</sup> | 40000 h                        | 32000 h                        | Frame material                  | aluminum                                |
| Regreasing device                                                                      | Without                        |                                | Net weight of the motor (IM B3) | 54 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                | (A) without (Standard)                  |
| External earthing terminal                                                             | Without                        |                                | Method of cooling               | IC411 - self ventilated, surface cooled |

|                          |  |  |           |  |  |                                |  |  |               |  |  |  |  |  |  |  |  |
|--------------------------|--|--|-----------|--|--|--------------------------------|--|--|---------------|--|--|--|--|--|--|--|--|
| Terminal box             |  |  |           |  |  |                                |  |  |               |  |  |  |  |  |  |  |  |
| Terminal box position    |  |  | top       |  |  | Max. cross-sectional area      |  |  | 6 mm²         |  |  |  |  |  |  |  |  |
| Material of terminal box |  |  | Aluminium |  |  | Cable diameter from ... to ... |  |  | 11 mm - 21 mm |  |  |  |  |  |  |  |  |
| Type of terminal box     |  |  | TB1 H00   |  |  | Cable entry                    |  |  | 2xM32x1,5     |  |  |  |  |  |  |  |  |
| Contact screw thread     |  |  | M4        |  |  | Cable gland                    |  |  | 2 plugs       |  |  |  |  |  |  |  |  |

I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>K</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>B</sub>/M<sub>N</sub> = break down torque / nominal torque

1) L<sub>10mh</sub> 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<br>IN LVM | Technical reference                   | Created by<br>SPC           | Approved by<br>Created automatically | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. | <a href="#">Link documents</a> |                                      |
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