

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



Motor type : 1AV3132B

INNOMOTICS GP - 132 M - IM B3 - 4p

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

Remarks

Electrical data

Safe Area

| U<br>[V]                                            | Δ / Y | f<br>[Hz] | P<br>[kW] | P<br>[hp] | I<br>[A] | n<br>[1/min] | M<br>[Nm] | η <sup>3)</sup> |                                                    |      | cosφ <sup>3)</sup>     |      |      | I <sub>A</sub> /I <sub>N</sub><br>I <sub>r</sub> /I <sub>N</sub> | M <sub>A</sub> /M <sub>N</sub><br>T <sub>I</sub> /T <sub>N</sub> | M <sub>K</sub> /M <sub>N</sub><br>T <sub>B</sub> /T <sub>N</sub> | IE-CL |
|-----------------------------------------------------|-------|-----------|-----------|-----------|----------|--------------|-----------|-----------------|----------------------------------------------------|------|------------------------|------|------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|-------|
| DOL duty (S1) - 155(F) to 130(B)                    |       |           |           |           |          |              |           |                 |                                                    |      |                        |      |      |                                                                  |                                                                  |                                                                  |       |
| 400                                                 | Δ     | 50        | 7.50      | -/-       | 15.00    | 1465         | 49.0      | 90.4            | 90.7                                               | 90.4 | 0.80                   | 0.74 | 0.63 | 8.5                                                              | 3.0                                                              | 3.8                                                              | IE3   |
| 690                                                 | Y     | 50        | 7.50      | -/-       | 8.70     | 1465         | 49.0      | 90.4            | 90.7                                               | 90.4 | 0.80                   | 0.74 | 0.63 | 8.5                                                              | 3.0                                                              | 3.8                                                              | IE3   |
| 460                                                 | Δ     | 60        | 8.60      | -/-       | 14.90    | 1765         | 46.5      | 89.5            | 90.0                                               | 89.4 | 0.81                   | 0.76 | 0.65 | 8.8                                                              | 3.0                                                              | 3.8                                                              | IE2   |
| 460                                                 | Δ     | 60        | 7.50      | -/-       | 13.00    | 1770         | 40.5      | 91.7            | 91.6                                               | 90.6 | 0.79                   | 0.73 | 0.61 | 9.8                                                              | 3.4                                                              | 4.3                                                              | IE3   |
| IM B3 / IM 1001                                     |       | FS 132 M  |           | IP55      |          |              |           | IEC/EN 60034    |                                                    |      | IEC, DIN, ISO, VDE, EN |      |      |                                                                  |                                                                  |                                                                  |       |
| Environmental conditions : -20 °C - +40 °C / 1000 m |       |           |           |           |          |              |           |                 | Locked rotor time (hot / cold) : 14.80 s   20.10 s |      |                        |      |      |                                                                  |                                                                  |                                                                  |       |

Mechanical data

|                                                                                     |                                           |                                           |                                 |                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|---------------------------------|-----------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 72.0 / 80.0 dB(A)<br><small>2) 3)</small> | 68.0 / 76.0 dB(A)<br><small>2) 3)</small> | Vibration severity grade        | A                                       |
| Moment of inertia                                                                   | 0.0334 kg m²                              |                                           | Thermal class                   | F                                       |
| Bearing DE   NDE                                                                    | 6208 2Z C3                                | 6208 2Z C3                                | Duty type                       | S1                                      |
| <b>Bearing lifetime</b>                                                             |                                           |                                           | Direction of rotation           | bidirectional                           |
| L <sub>10mh</sub> F <sub>rad min</sub> for coupling operation 50 60Hz <sup>1)</sup> | 40000 h                                   | 32000 h                                   | Frame material                  | aluminum                                |
| Regreasing device                                                                   | Without                                   |                                           | Net weight of the motor (IM B3) | 59 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 | 6.0 mm²   |
| Material of terminal box | Aluminium | Main cable entry          | 2xM32x1.5 |
| Type of terminal box     | TB1 H00   | Main cable gland          | 2 plugs   |
| Contact screw thread     | 6xM4      |                           |           |

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>r</sub>/M<sub>N</sub> = break down torque/ nominal torque  
<sup>1)</sup> L<sub>10mh</sub> according to DIN ISO 281 10/2010  
<sup>2)</sup> at rated power / at full load  
<sup>3)</sup> Value is valid only for DOL operation with motor design IC411

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|---------------------------------|---------------------------------------|-------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|-------------|
| Responsible department<br>IN LV | Technical reference                   | Created by<br>IPC | Approved by<br>Created automatically | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. |                             | Link documents                                                                        |             |
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