

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



Motor type : 1AV2073B INNOMOTICS GP - 71 M - IM B34 - 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)                    |       |         |      |      |      |         |      |                 |                                                  |                        |                    |      |      |                                |                                |                                |       |
| 230                                                 | Δ     | 50      | 0.37 | -/-  | 1.77 | 1380    | 2.5  | 72.7            | 73.2                                             | 69.9                   | 0.72               | 0.63 | 0.49 | 4.0                            | 2.5                            | 2.5                            | IE2   |
| 400                                                 | Y     | 50      | 0.37 | -/-  | 1.02 | 1380    | 2.5  | 72.7            | 73.2                                             | 69.9                   | 0.72               | 0.63 | 0.49 | 4.0                            | 2.5                            | 2.5                            | IE2   |
| 460                                                 | Y     | 60      | 0.43 | -/-  | 1.04 | 1680    | 2.5  | 72.0            | 72.4                                             | 69.4                   | 0.72               | 0.63 | 0.50 | 4.5                            | 2.6                            | 2.7                            | IE2   |
| 460                                                 | Y     | 60      | 0.37 | -/-  | 0.96 | 1705    | 2.0  | 72.0            | 71.2                                             | 66.9                   | 0.67               | 0.58 | 0.45 | 5.0                            | 3.0                            | 3.2                            | IE2   |
| IM B34 / IM 2101                                    |       | FS 71 M |      |      |      | IP55    | UKCA | IEC/EN 60034    |                                                  | IEC, DIN, ISO, VDE, EN |                    |      |      |                                |                                |                                |       |
| Environmental conditions : -20 °C - +40 °C / 1000 m |       |         |      |      |      |         |      |                 | Locked rotor time (hot / cold) : 38.6 s   49.4 s |                        |                    |      |      |                                |                                |                                |       |

| Mechanical data                                                                     |                                |                                |                                 |                                                   |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                | 44 / 55 dB(A) <sup>2) 3)</sup> | 47 / 58 dB(A) <sup>2) 3)</sup> | Vibration severity grade        | A                                                 |
| Moment of inertia                                                                   | 0.0009 kg m²                   |                                | Thermal class                   | F                                                 |
| Bearing DE   NDE                                                                    | 6202 2Z C3                     | 6202 2Z C3                     | Duty type                       | S1                                                |
| bearing lifetime                                                                    |                                |                                | 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) | 7 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           |

|                          |  |  |           |  |  |                                |  |  |                     |  |  |  |  |  |  |  |  |
|--------------------------|--|--|-----------|--|--|--------------------------------|--|--|---------------------|--|--|--|--|--|--|--|--|
| Terminal box             |  |  |           |  |  |                                |  |  |                     |  |  |  |  |  |  |  |  |
| Terminal box position    |  |  | top       |  |  | Max. cross-sectional area      |  |  | 1.5 mm²             |  |  |  |  |  |  |  |  |
| Material of terminal box |  |  | Aluminium |  |  | Cable diameter from ... to ... |  |  | 9 mm - 17 mm        |  |  |  |  |  |  |  |  |
| Type of terminal box     |  |  | TB1 B00   |  |  | Cable entry                    |  |  | 1xM25x1,5-1xM16x1,5 |  |  |  |  |  |  |  |  |
| Contact screw thread     |  |  | M4        |  |  | Cable gland                    |  |  | 2 plugs             |  |  |  |  |  |  |  |  |

I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>A</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>K</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> |
| INNOMOTICS                       | Document type<br>Technical data sheet |                   |                                      | Document status<br>Released                                                                                  |                                |
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