

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



Motor type : 1AV3073B

INNOMOTICS GP - 71 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>V</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)                    |       |           |           |           |          |              |           |                 |                                                    |      |                        |      |      |                                                                  |                                                                  |                                                                  |       |
| 230                                                 | Δ     | 50        | 0.37      | -/-       | 1.72     | 1410         | 2.5       | 77.3            | 76.8                                               | 73.2 | 0.70                   | 0.61 | 0.48 | 4.8                                                              | 3.1                                                              | 3.1                                                              | IE3   |
| 400                                                 | Y     | 50        | 0.37      | -/-       | 0.99     | 1410         | 2.5       | 77.3            | 76.8                                               | 73.2 | 0.70                   | 0.61 | 0.48 | 4.8                                                              | 3.1                                                              | 3.1                                                              | IE3   |
| 460                                                 | Y     | 60        | 0.43      | -/-       | 0.99     | 1710         | 2.4       | 78.2            | 77.5                                               | 74.1 | 0.70                   | 0.61 | 0.49 | 5.1                                                              | 3.0                                                              | 3.1                                                              | IE3   |
| 460                                                 | Y     | 60        | 0.37      | -/-       | 0.90     | 1720         | 2.0       | 78.2            | 76.9                                               | 72.5 | 0.66                   | 0.57 | 0.45 | 5.7                                                              | 3.6                                                              | 3.8                                                              | IE3   |
| IM B3 / IM 1001                                     |       | 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) : 47.50 s   55.70 s |      |                        |      |      |                                                                  |                                                                  |                                                                  |       |

Mechanical data

|                                                                                      |                                           |                                           |                                    |                                                   |
|--------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------|---------------------------------------------------|
| Sound level (SPL / SWL) at 50Hz 60Hz                                                 | 56.0 / 67.0 dB(A)<br><small>2) 3)</small> | 62.0 / 73.0 dB(A)<br><small>2) 3)</small> | Vibration severity grade           | A                                                 |
| Moment of inertia                                                                    | 0.0014 kg m²                              |                                           | Thermal class                      | F                                                 |
| Bearing DE   NDE                                                                     | 6202 2Z C3                                | 6202 2Z C3                                | Duty type                          | S1                                                |
| <b>Bearing lifetime</b>                                                              |                                           |                                           | Direction of rotation              | bidirectional                                     |
| L <sub>10min</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)    | 9 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           |
|                                                                                      |                                           |                                           | Carbon footprint (without options) | 50kg                                              |

Terminal box

|                           |           |                       |           |
|---------------------------|-----------|-----------------------|-----------|
| Terminal box position     | top       | Main cable entry      | 1xM25x1.5 |
| Material of terminal box  | Aluminium | Main cable gland      | 1 plug    |
| Type of terminal box      | TB1 B00   | Auxiliary cable entry | 1xM16x1.5 |
| Contact screw thread      | 6xM4      | Auxiliary cable gland | 1 plug    |
| Max. cross-sectional area | 4.0 mm²   |                       |           |

Implicit options

|     |                      |
|-----|----------------------|
| F74 | Sheet steel fan cowl |
|     |                      |
|     |                      |
|     |                      |

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 28110/2010  
2) at rated power / at full load

3) Value is valid only for DOL operation with motor design IC411

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

|                                 |                                       |                   |             |                                                                                                              |                             |                                                                                       |             |
|---------------------------------|---------------------------------------|-------------------|-------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|-------------|
| Responsible department<br>IN LV | Technical reference                   | Created by<br>IPC | Approved by | 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                                                                                  |                             |  |             |
|                                 | Document title<br>1LE1003-OCB32-2AB4  |                   |             | Document number<br>TDS-260512-130528                                                                         |                             |                                                                                       |             |
| Restricted<br>© Innomotics 2026 |                                       |                   |             | Revision<br>AA                                                                                               | Creation date<br>2026-05-12 | Language<br>en                                                                        | Page<br>1/1 |

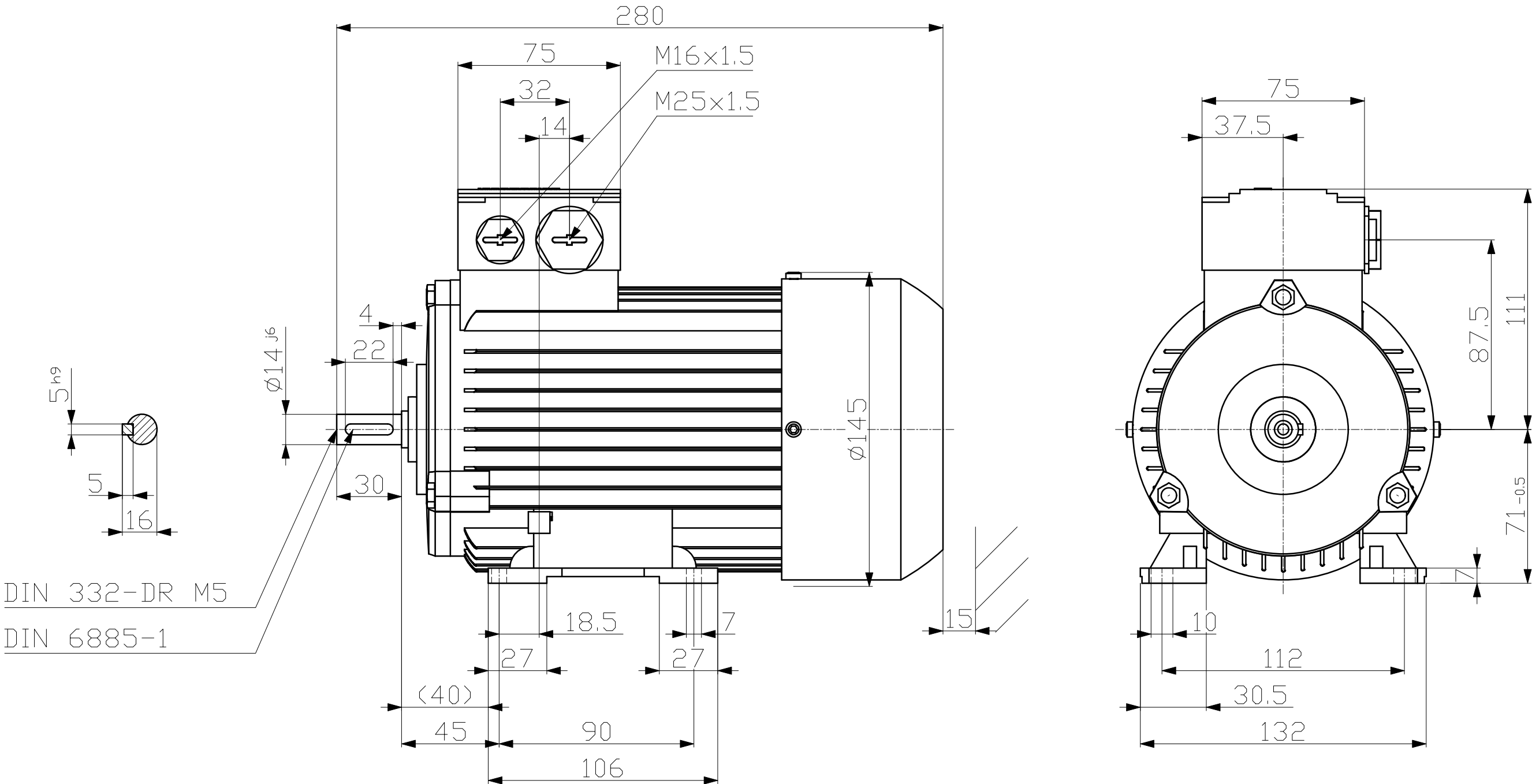
。此文件受法律保护。未经授权，不得复制或传播。

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment or damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

Weitergabe sowie Vervielfältigung, Verbreitung und/oder Bearbeitung dieses Dokumentes, Verwertung und Mitteilung seines Inhaltes sind verboten, soweit nicht ausdrücklich gestattet. Zuwiderhandlungen verpflichten zu Schadensersatz. Alle Rechte für den Fall der Patenterteilung, Gebrauchsmuster- oder Geschmacksmusterernteilung vorbehalten

Confite à titre de secret d'entreprise. Tous droits réservés. Comunicado como secreto empresarial. Reservados todos os direitos. Доверляется в качестве промисловое и торгового секрета. Все права сохраняются за нами. Confiado como secreto de empresa. Nos reservamos todos los derechos.

F



Technische Änderungen vorbehalten!  
Technical data are subject to change!

|                    |                                |                                     |                                    |             |
|--------------------|--------------------------------|-------------------------------------|------------------------------------|-------------|
| Tolerance          | Surface                        | Material                            | Weight                             | Scale<br>mm |
| 1LE1003-0CB32-2AB4 | Author                         | Dimensional drawing<br>Maßzeichnung |                                    |             |
|                    | Creator 12/05/2026 IPC         |                                     |                                    |             |
|                    | Approval Created automatically |                                     |                                    |             |
|                    | Department IN LVM              |                                     |                                    |             |
| INNOMOTICS         | Change Order                   | MLFB                                | Doc Type /                         |             |
|                    | Doc State Released             | Item No                             | Paper Size A3                      |             |
|                    | Revision AA Index RS           | Doc No                              | 1st Language en<br>2nd Language de |             |
|                    | Project No                     | Ref No                              | Sheet 1 of 1                       |             |

Restricted