

# Datasheet for Motor Mounted Line INNOMOTICS



## INNOMOTICS MD - 71 M - IM V1 - 6p - motor including a mounted frequency converter

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

Remarks

| Motor data |                  |        |        |        |       |           |        | Safe Area      |                    |           |
|------------|------------------|--------|--------|--------|-------|-----------|--------|----------------|--------------------|-----------|
| U [V]      | $\Delta / Y [-]$ | F [Hz] | P [kW] | P [hp] | I [A] | n [1/min] | M [Nm] | $\eta$ [%] 4/4 | cos $\phi$ [-] 4/4 | IE-CL [-] |
| 380        | Y                | 150    | 0.75   | -/-    | 1.39  | 3000      | 2.4    | 86.3           | 0.95               | IE5       |

IM V1 / IM 3011      FS 71 M      IEC, DIN, ISO, VDE, EN       $n_{max}$  4500 1/min      IEC/EN TS 60034-30-2

These values are calculated. The final rating plate data will be calculated when the order is placed  
The efficiency values and efficiency class according to Eup directive are valid for standard power ratings under standard conditions.

|  |                           |           |                          |   |
|--|---------------------------|-----------|--------------------------|---|
| Sound level (SPL / SWL) 3000 1/min                         | dB(A)                     | dB(A)     | Vibration severity grade | A   |
| Moment of inertia  | 0.00043 kg m <sup>2</sup> |           | Thermal class            | F   |
| Bearing DE I NDE   | 6202 2ZC3                 | 6202 2ZC3 | Duty type                | S9  |
| <b>Bearing lifetime</b>                                    |                           |           | Direction of rotation    | bidirectional   |
| $L_{10mh}$ $F_{Rad min}$ according catalogue<br>3000 1/min | 20000 h                   |           | Frame material           | aluminum  |
| Regreasing device  | Without                   |           | Coating (paint finish)   | Standard paint finish C2                                      |
| Type of bearing  | Floating bearings         |           | Color, paint shade       | RAL7030   |
| Condensate drainage holes                                  | Without                   |           | Motor protection         | (B) 3 PTC thermistors - for tripping (standard) (2 terminals) |
| External earthing terminal                                 | Without                   |           | Method of cooling        | IC411 - self-ventilated surface-cooled                        |

|                                   |                  |                                    |            |
|-----------------------------------|------------------|------------------------------------|------------|
| <b>Converter data</b>             |                  |                                    |            |
| Input voltage                     | 400-480V +/- 10% | Number of digital inputs / outputs | 2DI/1DO    |
| Input frequency                   | 50/60Hz +/- 6%   | EMC (DIN-EN-61800-3)               | C2         |
| Input current                     | 2.03 A           | Fieldbus                           | Modbus RTU |
| Overload capability               | 150%             | Network configuration              | TN / TT    |
| Efficiency acc. IEC61800-9-2      | IE2              | Frame material                     | Aluminium  |
| Switching frequency               | 4.0 kHz          | Color, paint shade                 | RAL9005    |
| Number of analog inputs / outputs | 1AI/AO           |                                    |            |

|                          |                       |                         |        |
|--------------------------|-----------------------|-------------------------|--------|
| <b>System data</b>       |                       |                         |        |
| Environmental conditions | -20°C - 40°C / 1000 m | Total weight            | 8.9 kg |
| Protection class IP      | IP55                  | System efficiency class | IES5   |

**Implicit options**

D24      CE mark on the nameplate (Declarations acc. to the EU Directives)      F74      Sheet steel fan cowl

1)  $L_{10mh}$  according to DIN ISO 28110/2010      4) The curves were created using calculated data.  
2) at rated power / at full load      Note: Values are given for rated point currents.  
3) Both values are used for motor control to optimize efficient operation.

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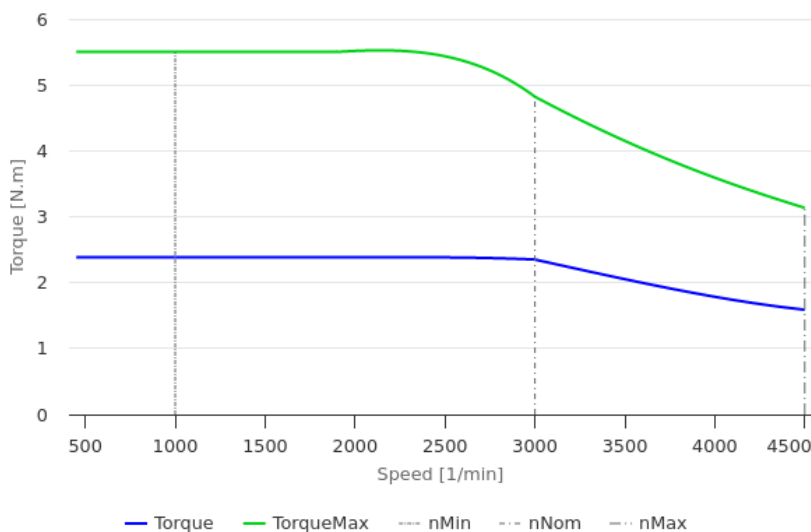
|                                 |   |                                      |                |   |                                |
|---------------------------------|---|--------------------------------------|----------------|---|--------------------------------|
| Responsible department<br>IN LV | Technical reference                         | Created by<br>IPC                    | Approved by    | <b>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</b> | <a href="#">Link documents</a> |
| <b>INNOMOTICS</b>               | Document type<br>Technical data sheet       | Document status<br>Released          |                |   |                                |
|                                 | Document title<br><b>1UZ1005-OCL42-1GB0</b> | Document number<br>TDS-260121-082311 |                |   |                                |
| Restricted<br>© Innomotics 2026 | Revision<br>AA                              | Creation date<br>2026-01-21          | Language<br>en |   | Page<br>1/2                    |



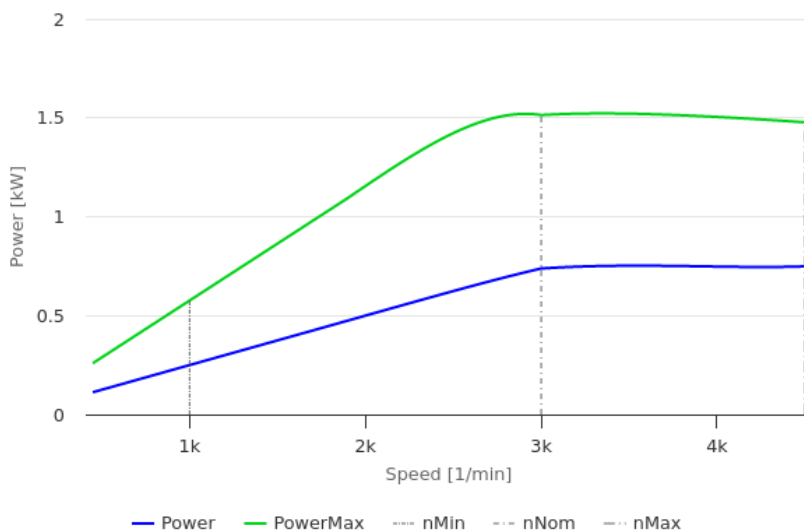
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General data

Torque-Speed-Curves<sup>4)</sup>



Power-Speed-Curves<sup>4)</sup>



1) L<sub>0min</sub>, according to DIN ISO 28110/2010

2) at rated power / at full load

3) Both values are used for motor control to optimize efficient operation.

4) The curves were created using calculated data.

Note: Values are given for rated point currents.

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