

Datasheet for Motor Mounted Line INNOMOTICS



INNOMOTICS MD - 90 L - 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] | η [%] 4/4 | $\cos\phi$ [-] 4/4 | IE-CL [-] |
| 380 | Y | 75 | 4 | -/- | 6.9 | 1500 | 25.5 | 92.8 | 0.95 | IE5 |

IM V1 / IM 3011 FS 90 L IEC, DIN, ISO, VDE, EN n_{max} 2250 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) 1500 1/min | dB(A) | dB(A) | Vibration severity grade | A |
| Moment of inertia | 0.00485 kg m ² | | Thermal class | F |
| Bearing DE I NDE | 6205 2ZC3 | 6004 2ZC3 | Duty type | S9 |
| Bearing lifetime | 20000 h | | Direction of rotation | bidirectional |
| L_{10min} $F_{Rad min}$ according catalogue 1500 1/min | | | 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 |

| | | | |
|-----------------------------------|------------------|------------------------------------|------------|
| Converter data | | | |
| 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 | 7.53 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 | | |

| | | | |
|--------------------------|-----------------------|-------------------------|---------|
| System data | | | |
| Environmental conditions | -20°C - 40°C / 1000 m | Total weight | 24.0 kg |
| Protection class IP | IP55 | System efficiency class | IES5 |

Implicit options

D24 CE mark on the nameplate (Declarations acc. to the EU Directives)

1) L_{10min} 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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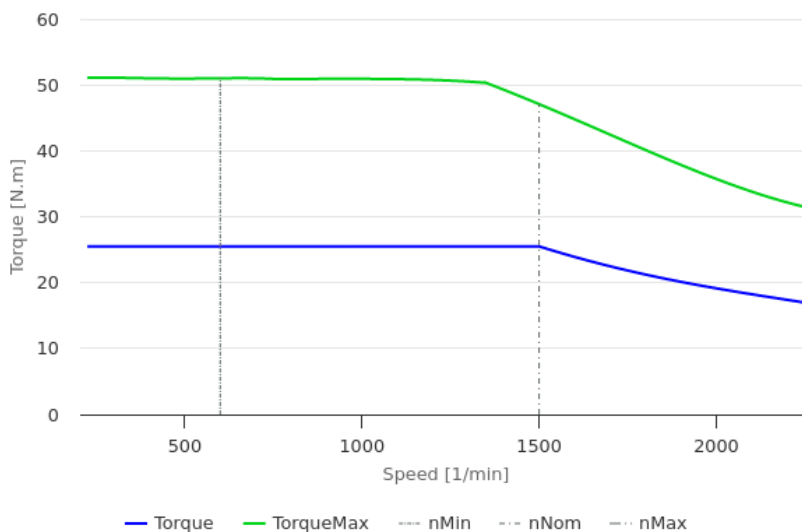
| | | | | | |
|---------------------------------|---|--------------------------------------|----------------|---|--------------------------------|
| Responsible department IN LV | Technical reference | Created by IPC | Approved by | Technical data are subject to change! There may be discrepancies between calculated and rating plate values. | Link documents |
| INNOMOTICS | Document type Technical data sheet | Document status Released | | | |
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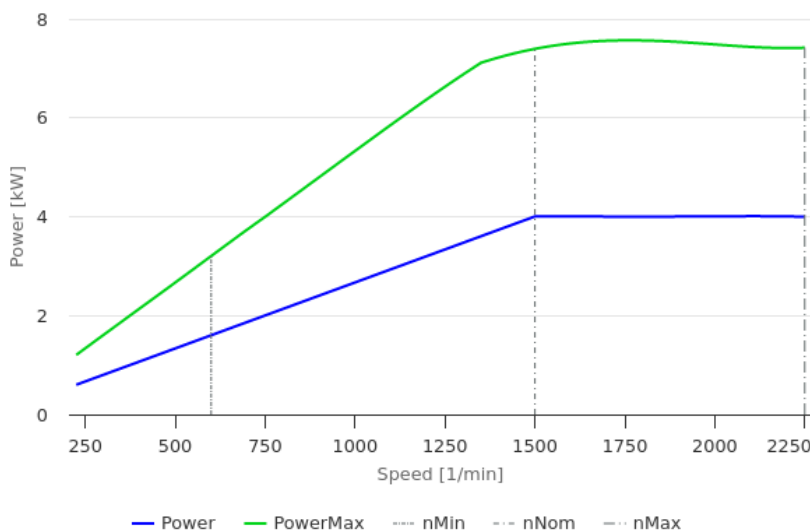
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General data

Torque-Speed-Curves⁴⁾



Power-Speed-Curves⁴⁾



1) L_{0min}, 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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