

# 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]	$\eta$ [%] 4/4	cos $\phi$ [-] 4/4	IE-CL [-]
380	Y	75	1.5	-/-	2.65	1500	9.5	90.4	0.95	IE5

IM V1 / IM 3011      FS 90 L      IEC, DIN, ISO, VDE, EN      n<sub>max</sub> 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	0.00226 kg m <sup>2</sup>		Thermal class	F
Bearing DE I NDE	6205 2ZC3	6004 2ZC3	Duty type	S9
<b>Bearing lifetime</b>	20000 h		Direction of rotation	bidirectional
L <sub>10min</sub> F <sub>Rad min</sub> 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	3.11 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	15.9 kg
Protection class IP	IP55	System efficiency class	IES5

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

1) L<sub>10min</sub> 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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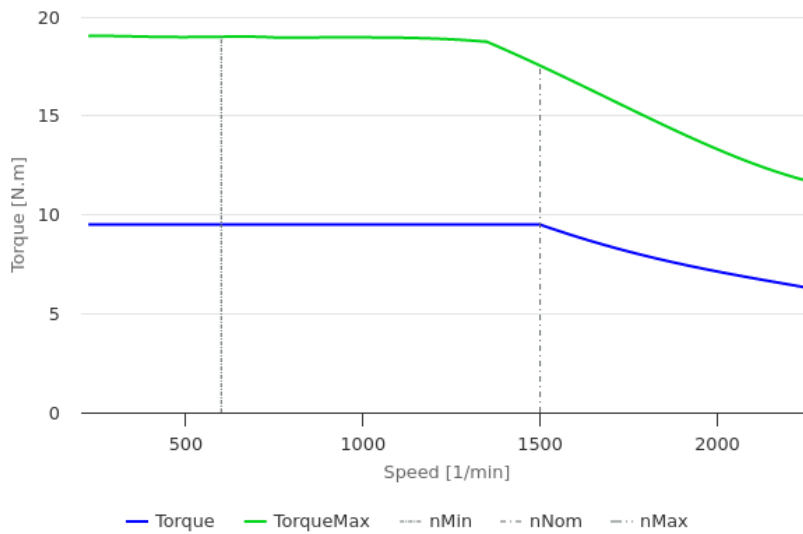
Responsible department IN LV	Technical reference	Created by IPC	Approved by	<b>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</b>	<a href="#">Link documents</a>
<b>INNOMOTICS</b>	Document type Technical data sheet	Document status Released			
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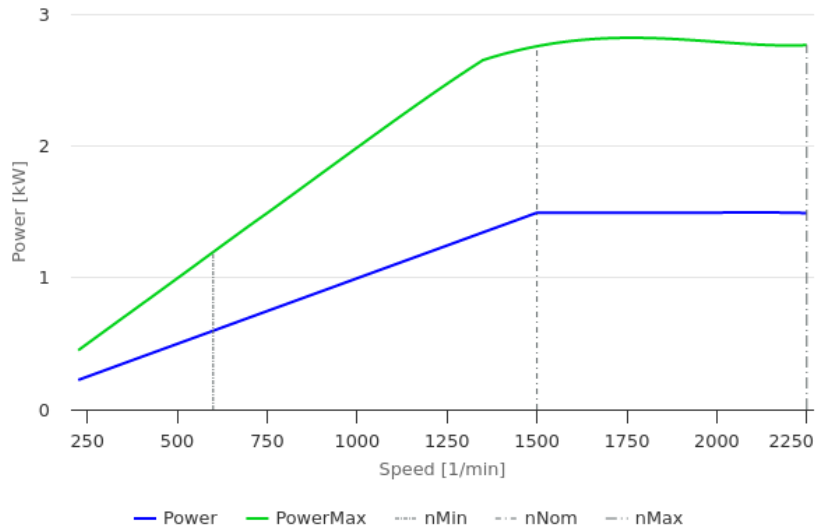
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General data

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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