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General Linear Motor Attributes

These are the motor configuration attributes that apply specifically to linear motor types.

Linear Motor Pole Pitch

Usage	Access	Data Type	Default	Min	Max	Semantics of Values
Required	Set/GSV	REAL	50 DB	0		mm

The Linear Motor Pole Pitch attribute is a floating point value that specifies the pole pitch of a linear motor in units of meters, and is equivalent to the electrical cycle length.

Linear Motor Rated Speed

Usage	Access	Data Type	Default	Min	Max	Semantics of Values
Required	Set/GSV	REAL	0 DB	0		m/s

The Linear Motor Rated Speed attribute is a floating point value that specifies the nameplate rated speed of a linear motor. For PM motors, this is generally specified at rated voltage based on either rated current, rated force, or rated power. For induction motors this value is the speed of the motor driven at rated frequency under rated force load. This value is synonymous with the term base speed.

Linear Motor Mass

Usage	Access	Data Type	Default	Min	Max	Semantics of Values
Optional	Set/SSV#	REAL	0 DB	0		Mass Unit

Indicates the attribute cannot be set while the tracking command (Tracking Command bit in CIP Axis Status is true).

The Linear Motor Mass attribute is a floating point value that specifies the unloaded moving mass of a linear motor.

Linear Motor Max Speed

Usage	Access	Data Type	Default	Min	Max	Semantics of Values
Optional	Set/GSV	REAL	0 DB	0		m/s

The Linear Motor Max Speed attribute is a floating point value that specifies the absolute maximum operating speed of a linear motor in units of m/s. This speed may be determined by the limitations of the motor, limitations of the drive power structure, or by limitations of the mechanical system, whichever is less. Specifically, this value can represent the maximum safe operating speed, maximum continuous no-load speed, maximum continuous encoder speed, or maximum continuous bearing speed of the motor. This value can be used by the drive to determine the Linear Motor Overspeed

Factory Limit.

Linear Motor Damping Coefficient

Usage	Access	Data Type	Default	Min	Max	Semantics of Values
Optional	Set/GSV	REAL	0 DB	0		N/(m/s)

The Linear Motor Damping Coefficient attribute is a floating point value that specifies the damping, or viscous friction, associated with a linear motor.

Linear Motor Integral Limit Switch

Usage	Access	Data Type	Default	Min	Max	Semantics of Values
Optional	Set/GSV	USINT	0 DB	0	1	0 = No 1 = Yes

The Linear Motor Integral Limit Switch attribute specifies if the motor has integral limit switches.

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[General Permanent Magnet Motor Attributes](#)

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