

NAMEPLATE DATA ENTRY

ELWOOD dNameplate_H-3007-N-H_Doc

February 14, 2017

Axis Properties -

Categories:

- General
- Motor**
 - Model
 - Motor Feedback
 - Scaling
 - Hookup Tests
 - Polarity
 - Autotune
- Load
 - Backlash
 - Compliance
- Position Loop
- Velocity Loop
- Torque/Current Loop
- Planner
- Homing
- Actions
- Drive Parameters
- Parameter List
- Status
- Faults & Alarms
- Tag

Motor Device Specification

Data Source: Nameplate Datasheet Parameters...

Catalog Number: <none> Change Catalog...

Motor Type: Rotary Permanent Magnet

Units: Rev

Nameplate / Datasheet - Phase to Phase parameters

Rated Power:	0.35	kW	Pole Count:	6
Rated Voltage:	230	Volts (RMS)		
Rated Speed:	5000	RPM	Max Speed:	5000 RPM
Rated Current:	2.5	Amps (RMS)	Peak Current:	7.5 Amps (RMS)
Rated Torque:	0.8	N-m	Motor Overload Limit:	100.0 % Rated

Manual Tune...

OK Cancel Apply Help

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The screenshot shows the 'Axis Properties' dialog box with the 'Motor' category selected. The 'Model' sub-category is active, displaying the 'Motor Model Phase to Phase Parameters' and 'Flux Saturation Profile' sections.

Motor Model Phase to Phase Parameters

Parameter	Value	Units
Torque Constant (Kt):	0.4	N-m/Amps(RMS)
Voltage Constant (Ke):	24.0	Volts(RMS)/KRPM
Resistance (Rs):	6.60	Ohms
Inductance (Ls):	0.012	Henries

Flux Saturation Profile

Flux Saturation @	Value	Units
12.5%	100.0	% Nominal Inductance
25.0%	100.0	% Nominal Inductance
37.5%	100.0	% Nominal Inductance
50.0%	100.0	% Nominal Inductance
62.5%	100.0	% Nominal Inductance
75.0%	100.0	% Nominal Inductance
87.5%	100.0	% Nominal Inductance
100%	100.0	% Nominal Inductance

At the bottom of the dialog, there is a 'Manual Tune...' button on the left and 'OK', 'Cancel', 'Apply', and 'Help' buttons on the right.

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The screenshot shows the 'Axis Properties' dialog box with the 'Motor Feedback Device Specification' tab selected. The left sidebar contains a tree view of categories: General, Motor, Model, Motor Feedback (selected), Scaling, Hookup Tests, Polarity, Autotune, Load, Backlash, Compliance, Position Loop, Velocity Loop, Torque/Current Loop, Planner, Homing, Actions, Drive Parameters, Parameter List, Status, Faults & Alarms, and Tag. The main area displays the following settings:

Property	Value	Description
Device Function:	Motor Mounted Feedback	
Feedback Channel:	Feedback 1	
Type:	Digital AqB with UVW	
Units:	Rev	
Digital AqB with UVW		
Cycle Resolution:	2000	Feedback Cycles/Rev
Cycle Interpolation:	4	Feedback Counts per Cycle
Effective Resolution:	8000	Feedback Counts per Rev
Startup Method:	Incremental	
Commutation		
Offset:	0.0	Degrees

Buttons at the bottom: Manual Tune..., OK, Cancel, Apply, Help.