

## NAMEPLATE DATA ENTRY

*ELWOOD dNameplate\_H-6300-Q-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:	5.1	kW	Pole Count:	8
Rated Voltage:	230	Volts (RMS)		
Rated Speed:	3000	RPM	Max Speed:	3000 RPM
Rated Current:	46.0	Amps (RMS)	Peak Current:	138.0 Amps (RMS)
Rated Torque:	36.7	N-m	Motor Overload Limit:	100.0 % Rated

Manual Tune...

OK Cancel Apply Help

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The image shows a software window titled "Axis Properties" with a gear icon. On the left is a "Categories:" tree view with the following items: General, Motor (expanded), Motor Feedback, Scaling, Hookup Tests, Polarity, Autotune, Load (expanded), Backlash, Compliance, Position Loop, Velocity Loop, Torque/Current Loop, Planner, Homing, Actions, Drive Parameters, Parameter List, Status, Faults & Alarms, and Tag. The "Motor" category is expanded, and the "Model" sub-item is selected. The main area of the dialog is titled "Motor Model Phase to Phase Parameters". It contains two sections: "Motor Model Phase to Phase Parameters" and "Flux Saturation Profile".

Motor Model Phase to Phase Parameters		
Torque Constant (Kt):	0.99	N-m/Amps(RMS)
Voltage Constant (Ke):	60.1	Volts(RMS)/KRPM
Resistance (Rs):	0.12	Ohms
Inductance (Ls):	0.0024	Henries

  

Flux Saturation Profile		
Flux Saturation @ 12.5%:	100.0	% Nominal Inductance
Flux Saturation @ 25.0%:	100.0	% Nominal Inductance
Flux Saturation @ 37.5%:	100.0	% Nominal Inductance
Flux Saturation @ 50.0%:	100.0	% Nominal Inductance
Flux Saturation @ 62.5%:	100.0	% Nominal Inductance
Flux Saturation @ 75.0%:	100.0	% Nominal Inductance
Flux Saturation @ 87.5%:	100.0	% Nominal Inductance
Flux Saturation @ 100%:	100.0	% Nominal Inductance

At the bottom of the dialog, there is a "Manual Tune..." button on the left and four buttons (OK, Cancel, Apply, Help) 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	
<b>Digital AqB with UVW</b>		
Cycle Resolution:	2000	Feedback Cycles/Rev
Cycle Interpolation:	4	Feedback Counts per Cycle
Effective Resolution:	8000	Feedback Counts per Rev
Startup Method:	Incremental	
<b>Commutation</b>		
Offset:	0.0	Degrees

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