

NAMEPLATE DATA ENTRY

ELWOOD dNameplate_F-4050-Q-H_Doc

December 16, 2016

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:	2.5	kW	Pole Count:	8	
Rated Voltage:	230	Volts (RMS)			
Rated Speed:	4000	RPM	Max Speed:	4000	RPM
Rated Current:	11.2	Amps (RMS)	Peak Current:	24.7	Amps (RMS)
Rated Torque:	6.9	N-m	Motor Overload Limit:	100.0	% Rated

Manual Tune...

OK Cancel Apply Help

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Motor Model Phase to Phase Parameters

Torque Constant (Kt):	0.76	N-m/Amps(RMS)
Voltage Constant (Ke):	46.7	Volts(RMS)/KRPM
Resistance (Rs):	0.89	Ohms
Inductance (Ls):	0.0033	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

Manual Tune...

OK Cancel Apply Help

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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:

Motor Feedback Device Specification		
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.