

NAMEPLATE DATA ENTRY

ELWOOD F-4075-R-HXXXX

September 19, 2016

Axis Properties - Belt_Drive

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:	2.2	kW	Pole Count:	8
Rated Voltage:	230	Volts (RMS)		
Rated Speed:	3000	RPM	Max Speed:	3000 RPM
Rated Current:	11.2	Amps (RMS)	Peak Current:	24.1 Amps (RMS)
Rated Torque:	9.3	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):	1.03	N-m/Amps(RMS)
Voltage Constant (Ke):	62.9	Volts(RMS)/KRPM
Resistance (Rs):	0.98	Ohms
Inductance (Ls):	0.0034	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 a software window titled "Axis Properties - Belt_Drive". On the left is a "Categories:" tree with the following items: General, Motor (expanded), Model, Motor Feedback (selected), 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 main area is titled "Motor Feedback Device Specification" and contains the following fields:

- Device Function: Motor Mounted Feedback (with a "Parameters..." button)
- Feedback Channel: Feedback 1
- Type: Digital AqB with UVW (dropdown menu)
- Units: Rev (dropdown menu)
- Digital AqB with UVW** section:
 - Cycle Resolution: 2000 (text box) Feedback Cycles/Rev
 - Cycle Interpolation: 4 (text box) Feedback Counts per Cycle
 - Effective Resolution: 8000 (text box) Feedback Counts per Rev
 - Startup Method: Incremental (dropdown menu)
- Commutation** section:
 - Offset: 0.0 (text box) Degrees

At the bottom of the window are buttons for "Manual Tune...", "OK", "Cancel", "Apply", and "Help".