

## NAMEPLATE DATA ENTRY

ELWOOD F-4030-Q-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:

Catalog Number:

Motor Type:

Units:

**Nameplate / Datasheet - Phase to Phase parameters**

Rated Power:	<input type="text" value="1.4"/>	kW	Pole Count:	<input type="text" value="8"/>
Rated Voltage:	<input type="text" value="230"/>	Volts (RMS)		
Rated Speed:	<input type="text" value="4000"/>	RPM	Max Speed:	<input type="text" value="4000"/> RPM
Rated Current:	<input type="text" value="5.6"/>	Amps (RMS)	Peak Current:	<input type="text" value="16.8"/> Amps (RMS)
Rated Torque:	<input type="text" value="3.5"/>	N-m	Motor Overload Limit:	<input type="text" value="100.0"/> % Rated

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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):	2.24	Ohms
Inductance (Ls):	0.0068	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 - Belt\_Drive' dialog box. 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 dialog are four buttons: 'Manual Tune...', 'OK', 'Cancel', and 'Apply'. A 'Help' button is also present in the bottom right corner.