

NAMEPLATE DATA ENTRY

ELWOOD dNameplate_N-4220-2-H

September 28, 2022

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:	0.8	kW	Pole Count:	4
Rated Voltage:	230	Volts (RMS)		
Rated Speed:	5000	RPM	Max Speed:	5000 RPM
Rated Current:	7.8	Amps (RMS)	Peak Current:	23.4 Amps (RMS)
Rated Torque:	2.7	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 Model Phase to Phase Parameters' tab selected. The left sidebar lists various categories, with 'Motor' expanded and 'Model' selected. The main area contains input fields for torque constant, voltage constant, resistance, inductance, and a flux saturation profile table. At the bottom, there are buttons for 'Manual Tune...', 'OK', 'Cancel', 'Apply', and 'Help'.

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Motor Model Phase to Phase Parameters

Torque Constant (Kt):	0.40	N-m/Amps(RMS)
Voltage Constant (Ke):	24.04	Volts(RMS)/KRPM
Resistance (Rs):	0.8	Ohms
Inductance (Ls):	0.0029	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 with categories: General, Motor (expanded), 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 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.