

NAMEPLATE DATA ENTRY

ELWOOD dNameplate_N-5647-2-H

September 28, 2022

The screenshot shows the 'Axis Properties' dialog box with the 'Motor Device Specification' tab selected. The left sidebar lists various categories, with 'Motor' expanded. The main area contains fields for 'Data Source' (Nameplate Datasheet), 'Catalog Number' (<none>), 'Motor Type' (Rotary Permanent Magnet), and 'Units' (Rev). Below these is a section for 'Nameplate / Datasheet - Phase to Phase parameters' with two columns of input fields for power, voltage, speed, current, torque, pole count, max speed, peak current, and overload limit. At the bottom are buttons for 'Manual Tune...', 'OK', 'Cancel', 'Apply', and 'Help'.

Nameplate / Datasheet - Phase to Phase parameters				
Rated Power:	1.4	kW	Pole Count:	4
Rated Voltage:	230	Volts (RMS)		
Rated Speed:	3000	RPM	Max Speed:	3000 RPM
Rated Current:	8.5	Amps (RMS)	Peak Current:	25.5 Amps (RMS)
Rated Torque:	5.9	N-m	Motor Overload Limit:	100.0 % Rated

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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 contains a tree view with categories: 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 'Load' category is also expanded. The main area displays the following parameters:

Motor Model Phase to Phase Parameters		
Torque Constant (Kt):	0.89	N-m/Amps(RMS)
Voltage Constant (Ke):	54.44	Volts(RMS)/KRPM
Resistance (Rs):	1.2	Ohms
Inductance (Ls):	0.0070	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 'OK', 'Cancel', 'Apply', and 'Help' buttons 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 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:

Property	Value	Description
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.