

## NAMEPLATE DATA ENTRY

*ELWOOD dNameplate\_N-2302-1-F*

September 28, 2022

The screenshot shows the 'Axis Properties' dialog box with the 'Motor Device Specification' tab selected. The left sidebar contains a tree view with categories: General, Motor (selected), 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, and Tag. The main area displays the following fields:

**Motor Device Specification**

Data Source: Nameplate Datasheet (dropdown) [Parameters...]  
Catalog Number: <none> [Change Catalog...]  
Motor Type: Rotary Permanent Magnet (dropdown)  
Units: Rev (dropdown)

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

|                |      |             |                       |                |
|----------------|------|-------------|-----------------------|----------------|
| Rated Power:   | 0.09 | kW          | Pole Count:           | 4              |
| Rated Voltage: | 115  | Volts (RMS) |                       |                |
| Rated Speed:   | 6000 | RPM         | Max Speed:            | 6000 RPM       |
| Rated Current: | 1.9  | Amps (RMS)  | Peak Current:         | 5.7 Amps (RMS) |
| Rated Torque:  | 0.2  | N-m         | Motor Overload Limit: | 100.0 % Rated  |

At the bottom, there is a 'Manual Tune...' button on the left and 'OK', 'Cancel', 'Apply', and 'Help' buttons on the right.

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The image shows a software window titled "Axis Properties" with a tree view on the left and a main parameter area on the right. The tree view includes categories like General, Motor, 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, and Tag. The "Motor" category is expanded, and the "Model" sub-item is selected. The main area displays "Motor Model Phase to Phase Parameters" and a "Flux Saturation Profile" table.

| Motor Model Phase to Phase Parameters |        |                 |
|---------------------------------------|--------|-----------------|
| Torque Constant (Kt):                 | 0.11   | N-m/Amps(RMS)   |
| Voltage Constant (Ke):                | 7.78   | Volts(RMS)/KRPM |
| Resistance (Rs):                      | 3.2    | Ohms            |
| Inductance (Ls):                      | 0.0041 | 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:

| Motor Feedback Device Specification |                              |
|-------------------------------------|------------------------------|
| Device Function:                    | Motor Mounted Feedback       |
| Feedback Channel:                   | Feedback 1                   |
| Type:                               | Digital AqB with UVW         |
| Units:                              | Rev                          |
| <b>Digital AqB with UVW</b>         |                              |
| Cycle Resolution:                   | 1000 Feedback Cycles/Rev     |
| Cycle Interpolation:                | 4 Feedback Counts per Cycle  |
| Effective Resolution:               | 4000 Feedback Counts per Rev |
| Startup Method:                     | Incremental                  |
| <b>Commutation</b>                  |                              |
| Offset:                             | 0.0 Degrees                  |

Buttons at the bottom: Manual Tune..., OK, Cancel, Apply, Help.