

## NAMEPLATE DATA ENTRY

*ELWOOD dNameplate\_N-4214-2-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:   | 0.75 | kW          | Pole Count:           | 4               |
| Rated Voltage: | 230  | Volts (RMS) |                       |                 |
| Rated Speed:   | 4500 | RPM         | Max Speed:            | 4500 RPM        |
| Rated Current: | 4.6  | Amps (RMS)  | Peak Current:         | 13.8 Amps (RMS) |
| Rated Torque:  | 2.0  | 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):  | 0.47  | N-m/Amps(RMS)   |
| Voltage Constant (Ke): | 32.52 | Volts(RMS)/KRPM |
| Resistance (Rs):       | 2.8   | Ohms            |
| Inductance (Ls):       | 0.011 | 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:

| Property                    | Value                  | Description               |
|-----------------------------|------------------------|---------------------------|
| Device Function:            | Motor Mounted Feedback |                           |
| Feedback Channel:           | Feedback 1             |                           |
| Type:                       | Digital AqB with UVW   |                           |
| Units:                      | Rev                    |                           |
| <b>Digital AqB with UVW</b> |                        |                           |
| Cycle Resolution:           | 2000                   | Feedback Cycles/Rev       |
| Cycle Interpolation:        | 4                      | Feedback Counts per Cycle |
| Effective Resolution:       | 8000                   | Feedback Counts per Rev   |
| Startup Method:             | Incremental            |                           |
| <b>Commutation</b>          |                        |                           |
| Offset:                     | 0.0                    | Degrees                   |

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