

NAMEPLATE DATA ENTRY

ELWOOD dNameplate_N-3412-2-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: | 0.6 | kW | Pole Count: | 4 |
| Rated Voltage: | 230 | Volts (RMS) | | |
| Rated Speed: | 5500 | RPM | Max Speed: | 5500 RPM |
| Rated Current: | 3.7 | Amps (RMS) | Peak Current: | 11.1 Amps (RMS) |
| Rated Torque: | 1.4 | 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): | 29.00 | Volts(RMS)/KRPM |
| Resistance (Rs): | 2.7 | Ohms |
| Inductance (Ls): | 0.0086 | 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 | |
| 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.