

NAMEPLATE DATA ENTRY

ELWOOD dNameplate_F-6100-R-Q-H_Doc

December 16, 2016

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: | 3.5 | kW | Pole Count: | 8 |
| Rated Voltage: | 230 | Volts (RMS) | | |
| Rated Speed: | 3000 | RPM | Max Speed: | 3000 RPM |
| Rated Current: | 16.1 | Amps (RMS) | Peak Current: | 38.9 Amps (RMS) |
| Rated Torque: | 13.0 | N-m | Motor Overload Limit: | 100.0 % Rated |

NAMEPLATE DATA ENTRY

ELWOOD dNameplate_F-6100-R-Q-H_Doc

December 16, 2016

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 Model Phase to Phase Parameters

| | | |
|------------------------|--------|-----------------|
| Torque Constant (Kt): | 1.0 | N-m/Amps(RMS) |
| Voltage Constant (Ke): | 60.8 | Volts(RMS)/KRPM |
| Resistance (Rs): | 0.51 | Ohms |
| Inductance (Ls): | 0.0033 | 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

NAMEPLATE DATA ENTRY

ELWOOD dNameplate_F-6100-R-Q-H_Doc

December 16, 2016

The screenshot shows the 'Axis Properties' dialog box with the 'Motor Feedback Device Specification' tab selected. The left sidebar contains a tree view of categories: General, Motor, Model, Motor Feedback (selected), 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 is divided into sections: 'Motor Feedback Device Specification' and 'Commutation'. The 'Motor Feedback Device Specification' section includes fields for Device Function (Motor Mounted Feedback), Feedback Channel (Feedback 1), Type (Digital AqB with UVW), Units (Rev), Cycle Resolution (2000), Cycle Interpolation (4), Effective Resolution (8000), and Startup Method (Incremental). The 'Commutation' section includes an Offset field set to 0.0 Degrees. At the bottom, there are buttons for Manual Tune..., OK, Cancel, Apply, and Help.

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 Feedback Device Specification

Device Function: Motor Mounted Feedback Parameters...

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

Manual Tune... OK Cancel Apply Help