



### MOTOR OVERVIEW

- AltusPro frameless BLDC torque motor
- 50 mm stator OD
- 12.7 mm stack length
- 0.347 Nm rated torque
- 0.864 Nm peak torque
- 7800 RPM rated speed
- 284 W rated power
- 48 VDC bus voltage

### FEATURES

- Highly Integrated
- High Torque
- High Efficiency
- Optional Hall Sensors

### OPTIONS

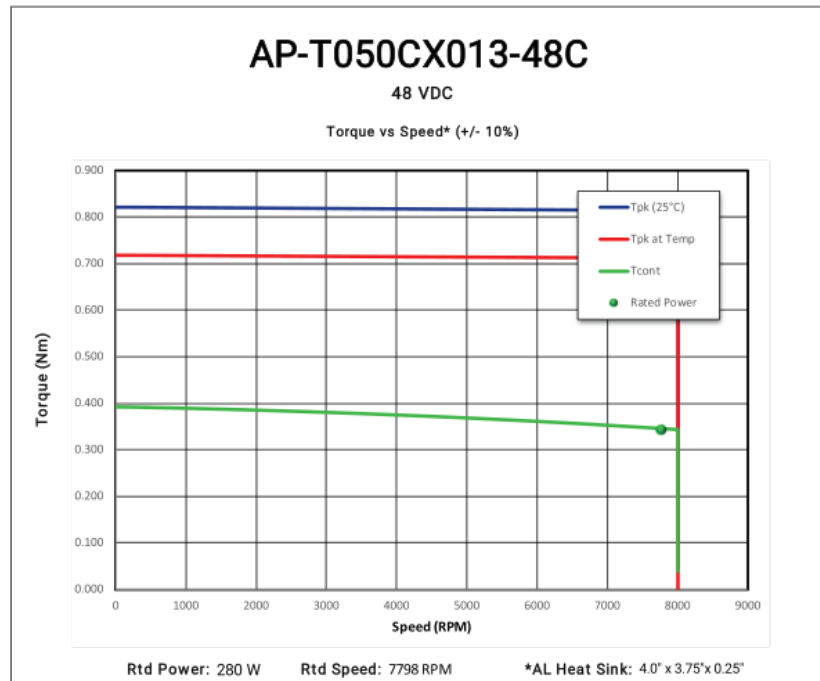
- Customized leads and connectors
- Redundant winding

Many more customizations are available upon request.

### MOTOR SPECIFICATIONS

|                         |                  |                     |                      |
|-------------------------|------------------|---------------------|----------------------|
| Part number             | AP-T050CH013-48C | Stator OD           | 50 mm                |
| Rotor ID                | 24.74 mm         | Stack length        | 12.7 mm              |
| Bus voltage             | 48 VDC           | Rated speed         | 7800 RPM             |
| Rated torque            | 0.347 Nm         | Peak torque         | 0.864 Nm             |
| Max continuous torque   | 0.395 Nm         | Rated power         | 284 W                |
| Max continuous current  | 9.16 Arms        | Peak current        | 18.35 Arms           |
| Resistance              | 0.222 Ohm        | Inductance          | 0.154 mH             |
| Back EMF                | 4.201 Vpk/kRPM   | Torque constant     | 0.043 Nm/Arms        |
| Commutation             | sine             | Poles               | 14                   |
| Weight                  | 0.136 kg         | Ambient temperature | 25 C                 |
| Winding temperature     | 155 C            | Heat sink           | 4.0" x 3.75" x 0.25" |
| No-load comm. frequency | 933 Hz           | Motor constant      | 0.085 Nm/sqrt(W)     |

## PERFORMANCE CURVE



## MOTOR DIMENSIONS

