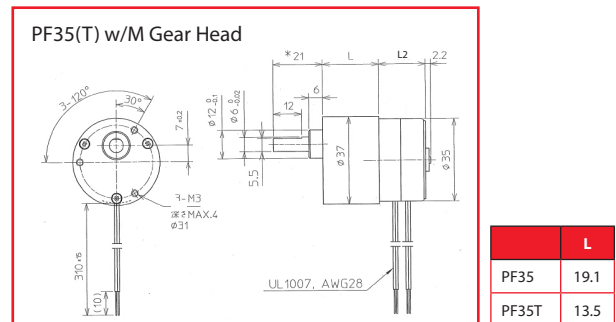


Specifications

| Specifications | Unit | PF35T-48 | | | |
|-----------------------|-------------------|------------------------|-----|---------|-----|
| Type of Winding | | Unipolar | | Bipolar | |
| Excitation Mode* | | Full step (2-2) | | | |
| Step Angle | ° | 7.5 ±5% | | | |
| Steps Per Revolution* | | 48 | | | |
| Winding | | C | D | R | Q |
| Rated Voltage | V | 12 | 5 | 12 | 5 |
| Resistance | Ω | 70 | 12 | 72 | 16 |
| Inductance | mH | 30 | 6.5 | 60 | 6.2 |
| Holding Torque | mN-m | 18 | 18 | 27 | 27 |
| Rotor Inertia | kg-m ² | 2.7 x 10 ⁻⁷ | | | |
| Starting Pulse Rate* | pps | 600 | | | |
| Slewing Pulse Rate* | pps | 610 | | | |
| Operating Temp. Range | °C | -10 to +50 | | | |
| Temperature Rise* | K | 70 | | | |
| Weight | g | 77 | | | |

Dimensions of Geared Model



| Gear Ratio | 1/5 | 1/6 | 1/10 | 1/12 | 1/15 | 1/18 | 1/25 | 1/30 |
|---------------------------|---------|-----|------|---------|------|------|------|------|
| Ordinary Gear Strength | 100mN-m | | | 200mN-m | | | | |
| Destruction Gear Strength | 300mN-m | | | 600mN-m | | | | |

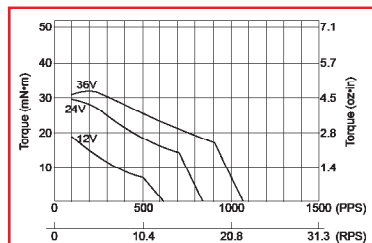
| Gear Ratio | 1/40 | 1/50 | 1/60 | 1/75 | 1/90 | 1/100 | 1/120 |
|---------------------------|---------|------|------|------|------|-------|-------|
| Ordinary Gear Strength | 300mN-m | | | | | | |
| Destruction Gear Strength | 900mN-m | | | | | | |

| Gear Ratio | 1/5 | 1/6 | 1/10 | 1/18 | 1/30 | 1/40 | 1/50 | 1/60 | 1/75 | 1/90 | 1/100 | 1/120 | 1/125 | 1/150 | 1/180 | 1/200 | 1/300 |
|------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| L | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 | 21.7 | 21.7 | 21.7 | 21.7 | 21.7 | 21.7 | 21.7 | 23.8 | 23.8 | 23.8 | 23.8 | 23.8 |

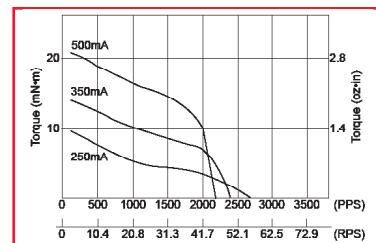
| Gear Ratio | 1/125 | 1/150 | 1/180 | 1/200 | 1/250 | 1/300 |
|---------------------------|----------|-------|-------|-------|-------|-------|
| Ordinary Gear Strength | 600mN-m | | | | | |
| Destruction Gear Strength | 1800mN-m | | | | | |

Torque Curve (pull-out torque)*

Bipolar Constant Voltage (48R1)

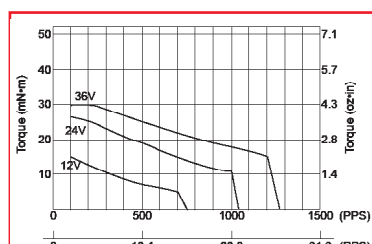


Bipolar Constant Current (48Q1)

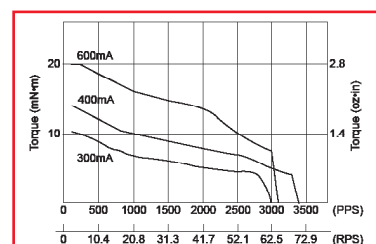


Available with H or M gearhead. See page 12 for H gearhead drawing.

Unipolar Constant Voltage (48C1)



Unipolar Constant Current (48D1)



*Torque curves are for reference only and are not guaranteed
All specifications are based on full-step constant voltage operation.
Magnet type: Anisotropic