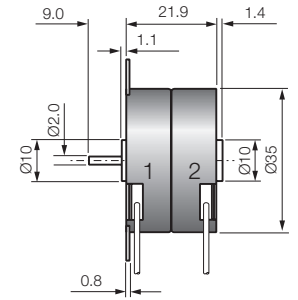
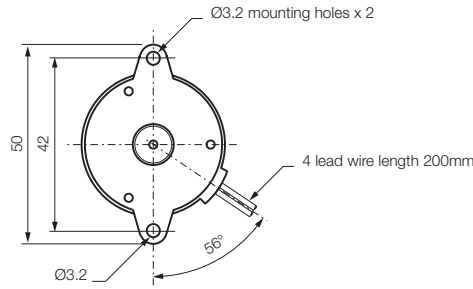


Permanent Magnet Stepping Motors

SYB3520-048

Issue 02:CN3815

Units: mm



| Model Number | Phase voltage (V) | Phase current (A) | Phase resistance (Ω) | Phase inductance (mH) | Winding |
|--------------------|-------------------|-------------------|-------------------------------|-----------------------|----------|
| SYB3520-048-008-03 | 3 | 0.40 | 8 | 8 | Bi-polar |
| SYB3520-048-030-06 | 6 | 0.20 | 30 | 15 | |
| SYB3520-048-120-12 | 12 | 0.10 | 120 | 60 | |
| SYB3520-048-480-24 | 24 | 0.05 | 480 | 240 | |

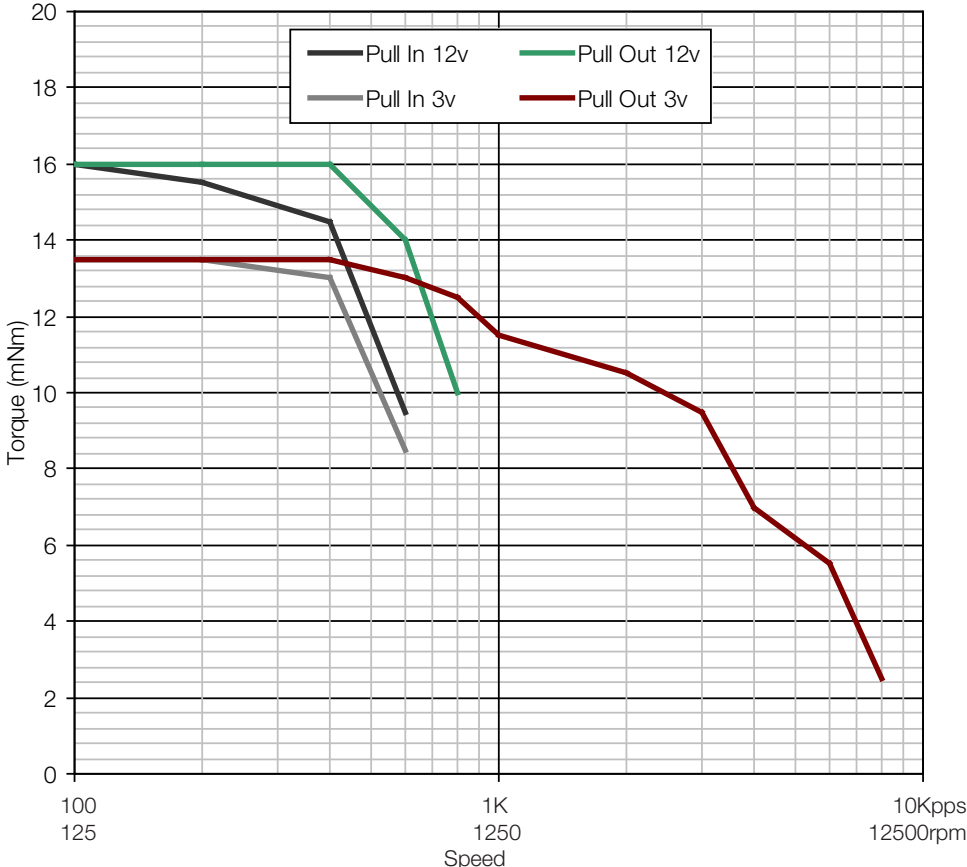
General Specification

| | |
|---------------------|--|
| Holding torque | 21mNm |
| Step angle | 7.5° |
| Rotor Inertia | 0.2 kgm ² x10 ⁻⁶ |
| Temperature rise | 80°C |
| Ambient temp. range | -5°C to +40°C |
| Dielectric strength | 500V AC 1sec |
| Weight | 72g |

Motor options

- Alternative voltage/phase resistance
- Alternative shaft lengths
- Alternative lead lengths

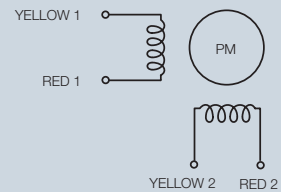
Characteristics



Drive: SM03 full step bi-polar drive @ 40V & nominal phase current
Load Inertia: 18.1x10⁻⁹ kgm²

Full step bi-polar sequence

| CW dir. | Step 1 | Step 2 | Step 3 | Step 4 |
|---------|--------|--------|--------|--------|
| Yellow1 | - | + | + | - |
| Red1 | + | - | - | + |
| Yellow2 | + | + | - | - |
| Red2 | - | - | + | + |



Contact:

www.rotalink.com
info@rotalink.com
T: +44 (0)1460 72000

Rotalink Limited
Cropmead, Crewkerne
Somerset TA18 7HQ, UK

www.rotalink.com