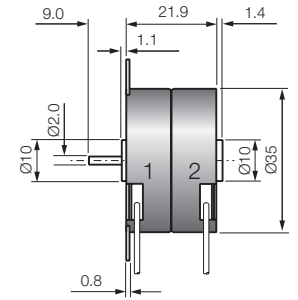
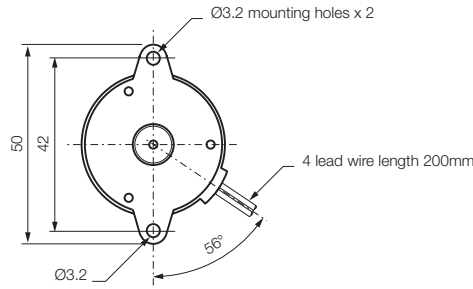


# Permanent Magnet Stepping Motors

SYB3520-048

Issue 01

Units: mm



Model Number	Phase voltage (V)	Phase current (A)	Phase resistance ( $\Omega$ )	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	

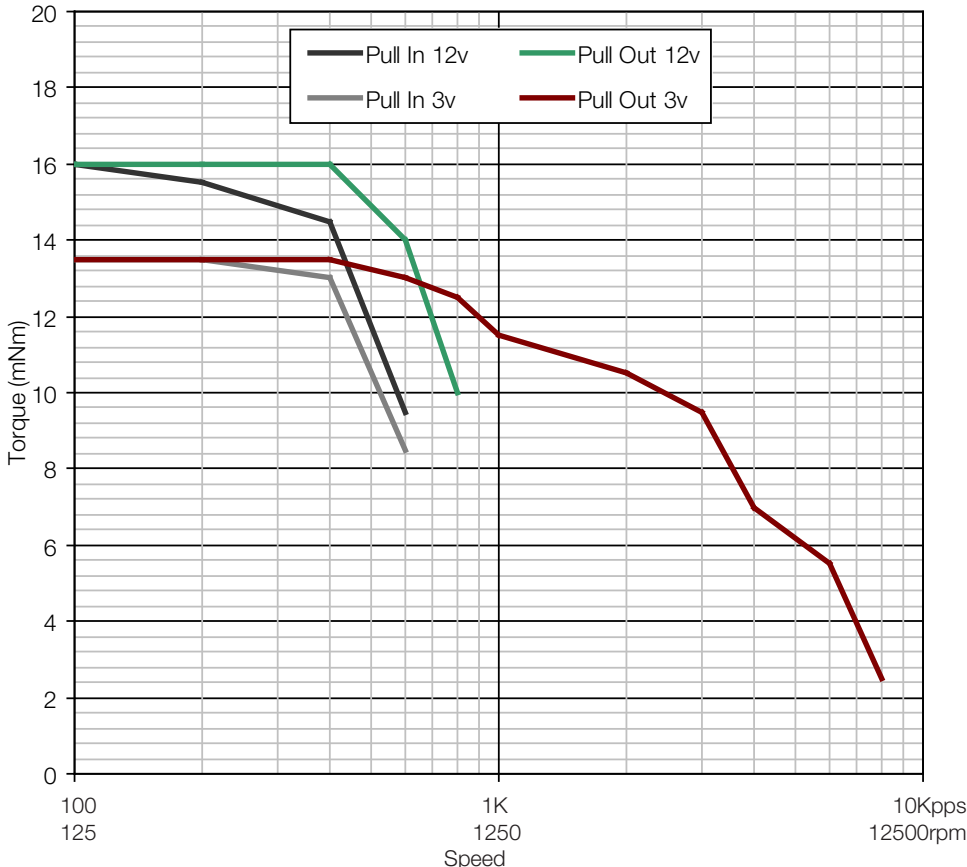
## General Specification

Holding torque	21mNm
Step angle	7.5°
Rotor Inertia	0.2 kgm <sup>2</sup> x10 <sup>-6</sup>
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

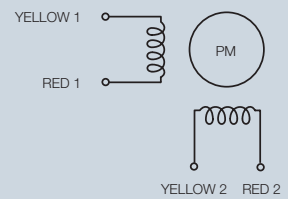
## Characteristics



Drive: SM03 full step bi-polar drive @ 40V & nominal phase current  
Load Inertia: 18.1x10<sup>-9</sup> kgm<sup>2</sup>

## Full step bi-polar sequence

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



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