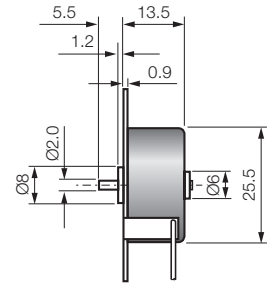
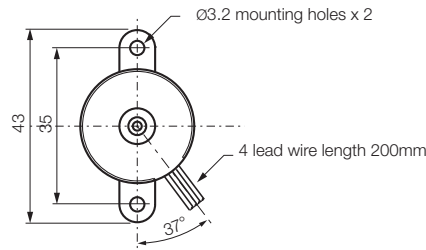


# Permanent Magnet Stepping Motors

SB2513-024

Issue 04:CN3815

Units: mm



Model Number	Phase voltage (V)	Phase current (A)	Phase resistance ( $\Omega$ )	Phase inductance (mH)	Winding
SB2513-024-021-06	6	0.285	21	11	Bi-polar
SB2513-024-085-12	12	0.150	85	44	

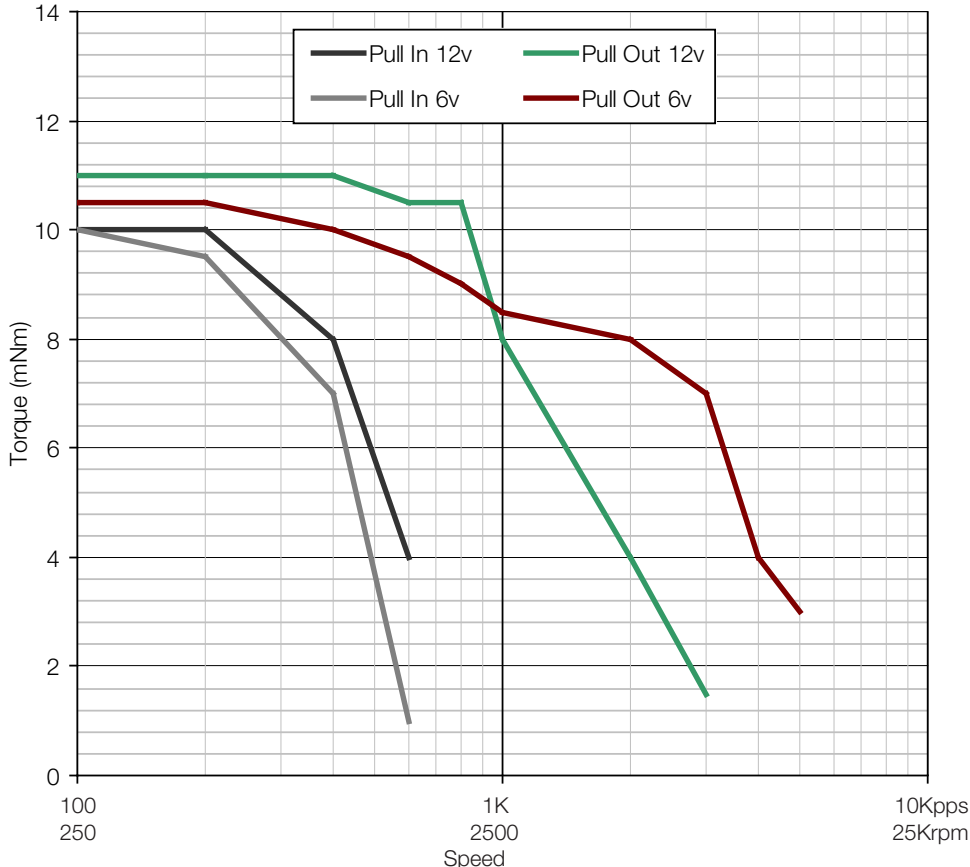
## General Specification

Holding torque	10mNm (6V) 12mNm (12V)
Step angle	15°
Rotor Inertia	0.07 kgm <sup>2</sup> x10 <sup>-6</sup>
Temperature rise	110°C
Ambient temp. range	-5°C to +40°C
Weight	28g

## Motor options

Alternative voltage/phase resistance  
Alternative shaft lengths  
Alternative lead lengths  
10 mm front bearing

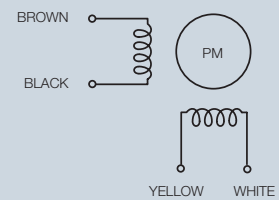
## Characteristics



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
Brown	-	+	+	-
Black	+	-	-	+
Yellow	+	+	-	-
White	-	-	+	+



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