

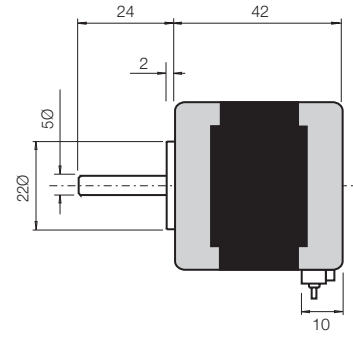
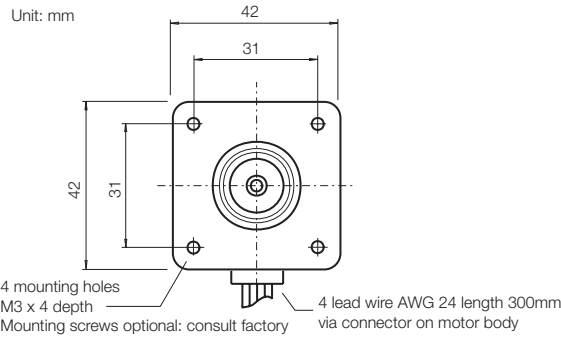
# Hybrid Stepping Motors

M174218K46

Issue 03

# Rotalink

Miniature Motors, Transmission and Control

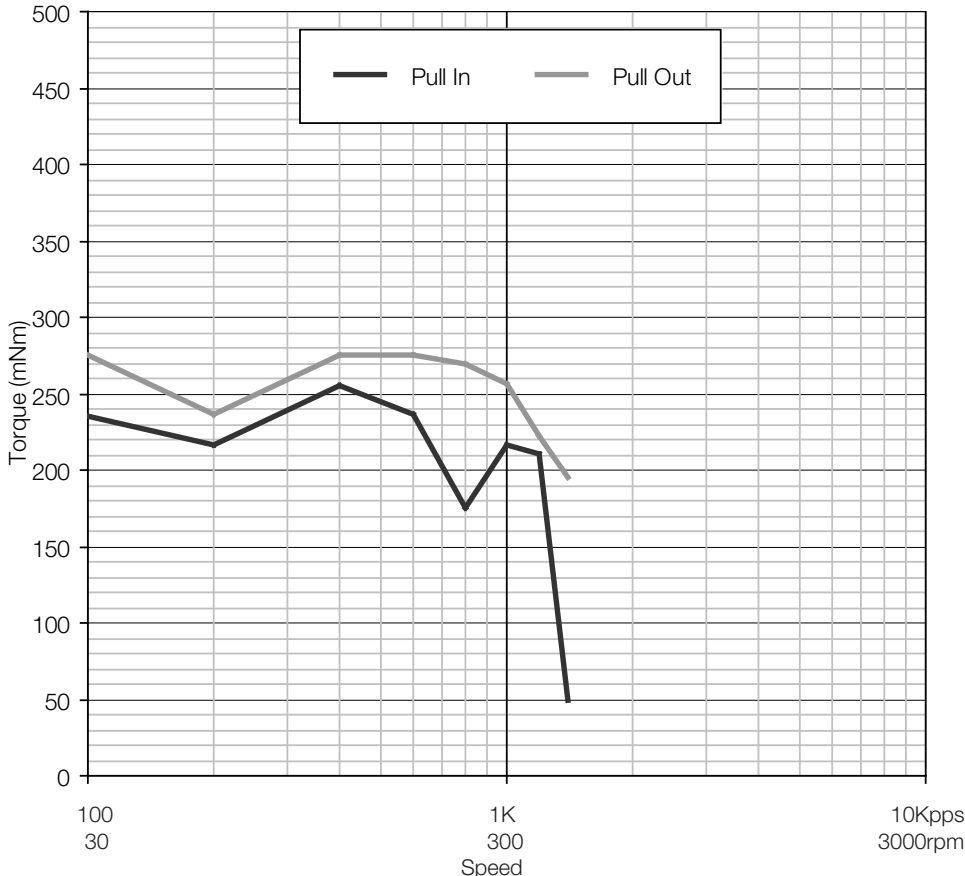


Model Number	Phase voltage (V)	Phase current (A)	Phase resistance ( $\Omega$ )	Phase inductance (mH)	Detent torque (mNm)	Winding
M174218K46	5.8	0.85	6.8	17.6	10.0	Bi-polar

## General Specification

Holding Torque	320.0mNm
Step angle	1.8°
Step accuracy	± 5%
Rotor Inertia	5.6 kgm <sup>2</sup> x10 <sup>-6</sup>
Temperature rise	80°C (max.)
Ambient temp. range	-20°C to +50°C
Insulation resistance	100M $\Omega$ (min) at 500V DC
Dielectric strength	500V AC 1min
Radial play	0.02mm (max.) with 450g load
Weight	300g

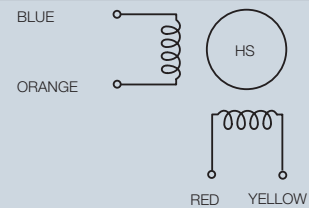
## Characteristics



Drive: Full step bi-polar drive @ 30V & nominal phase current  
Load Inertia: 9.7x10<sup>-6</sup> kgm<sup>2</sup>

## Full step bi-polar sequence

CW dir.	Step 1	Step 2	Step 3	Step 4
Blue	-	+	+	-
Orange	+	-	-	+
Red	+	+	-	-
Yellow	-	-	+	+



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