



Stepper Motors Size 05

This miniature stepping motor, incorporating samarium cobalt permanent magnets, was initially developed for use in a specialised missile guidance system and has successfully survived acceleration tests up to 15,000g.

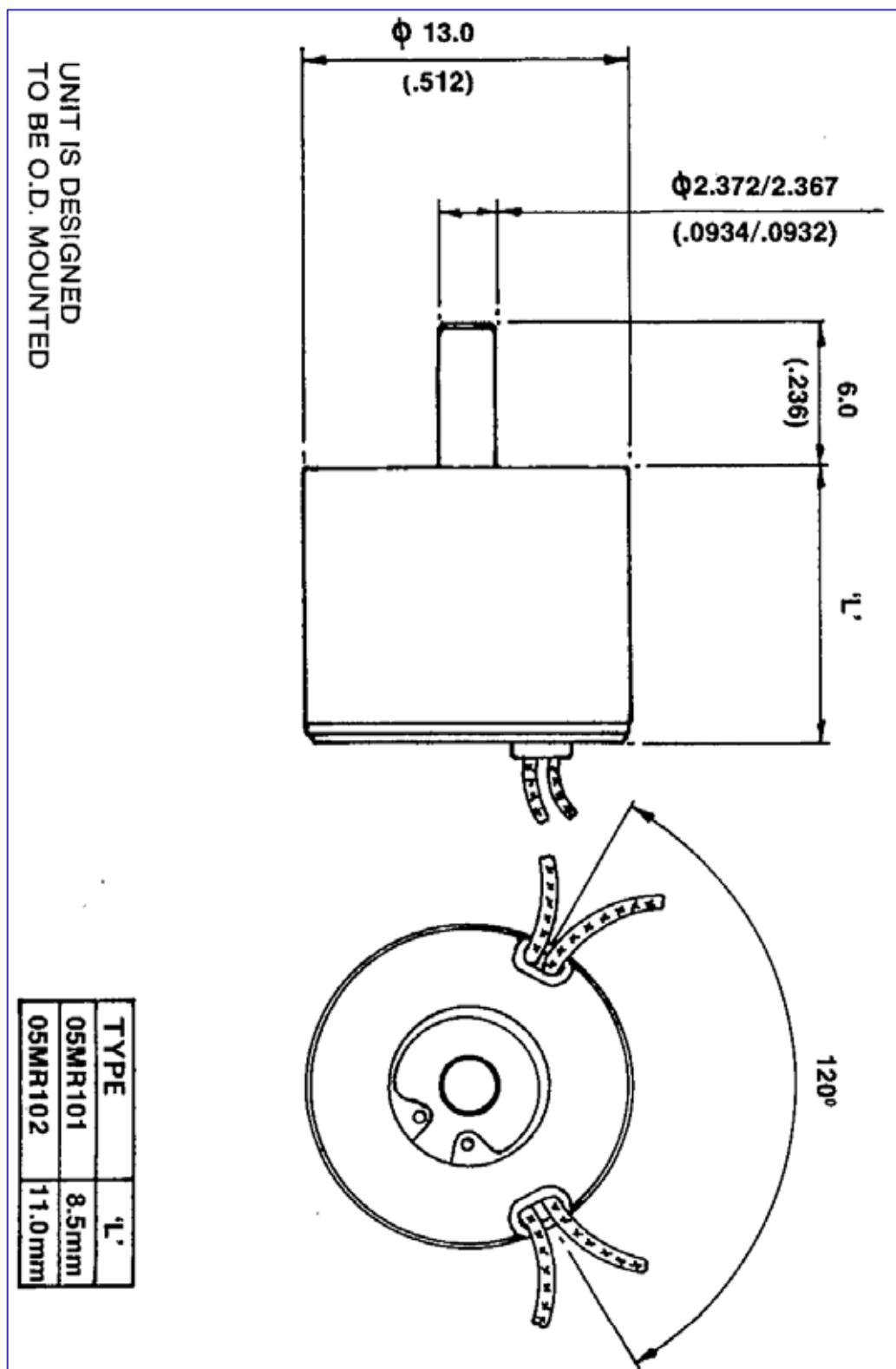
The size 05 stepping motor is available in two standard lengths, with the longer 11 mm version producing a higher holding torque of 7 g.cm. The motor produces four steps of 90° with each revolution and has a nominal speed capability up to 9,000 rpm.



05MR Series Specification

	05MR101	05MR102
Type	05MR101	05MR102
Length	8.5mm	11mm
Input	12V nominal	12V nominal
Step Angle	90°	90°
Steps Per Rev	4	4
Operating Temp Range	-40°C to +80°C	-40°C to +80°C
Holding Torque	3 g.cm (0.04 oz in)	7 g.cm (0.097 oz in)
Phases	2	2
Leads	4	4
Phase Resistance	92 ohms	114 ohms
No Load Pull-in	145pps (2175 rpm)	330pps (4,950 rpm)
Rotor Inertia	0.03 g.cm ² (1.65 x 10 ⁻⁴ oz in ²)	0.06 g.cm ² (3.28 x 10 ⁻⁴ oz in ²)
Operating Speed	9,000 rpm	9,000 rpm
Weight	7g	9g

Stepper Motors Size 05



AMETEK
MUIRHEAD AEROSPACE
www.muirheadaerospace.com

A business unit of AMETEK AEROSPACE & DEFENSE

Muirhead Aerospace
 Oakfield Road Penge
 London SE20 8EW – UK
 Tel : +44 (0) 20 8659 9090
 Fax : +44 (0) 20 8659 9906
 Email : muirheadaerospace.sales@ametek.co.uk