

PRODUCT DATASHEET

ES-MT-C09-S044-V001

Cylindrical Series

Cylindrical Series | ES-VC-CY03 Cylindrical Voice Coil Motor Series

Product Overview

Cylindrical Series with continuous Force 6 N, peak Force 55 N and force Constant 6 N/A.

Key Specifications

PARAMETER	VALUE	UNIT
Continuous Force	6	N
Peak Force	55	N
Force Constant	6	N/A
Continuous Current	1 (coil at 100 °C)	A
Peak Current	9.2	A
Insulation Class	Class B	
Coil Assembly Mass	59	g
Coil Clearance	0.5	mm
Closed-Circuit Line-to-Line Inductance	5.04 ±20%	mH

Technical Specifications

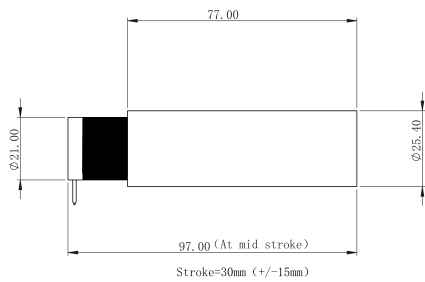
PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Continuous Force	6	N
Peak Force	55	N
Force Constant	6	N/A
ELECTRICAL		
Continuous Current	1 (coil at 100 °C)	A
Peak Current	9.2	A
Insulation Class	Class B	
Linear Back-EMF Constant	6	V/m/s
Closed-Circuit Line-to-Line Inductance	5.04 ±20%	mH
Motor Midpoint Resistance	17.4 ±10%	Ω
THERMAL		
Maximum Coil Temperature	100	°C
MECHANICAL		
Magnet Mass	225	g
Stroke	30	mm
Coil Clearance	0.5	mm
Coil Assembly Mass	59	g

Dimensional & Integration Overview

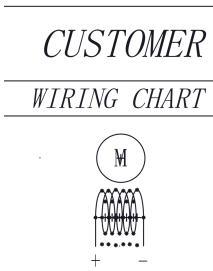
Mechanical Overview

PARAMETER	VALUE	UNIT
Magnet Mass	225	g
Stroke	30	mm
Coil Clearance	0.5	mm
Coil Assembly Mass	59	g

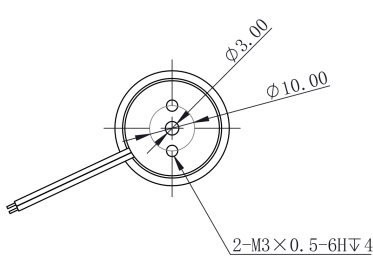
Dimensional Drawings



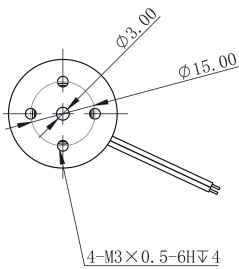
Mechanical View 1



Power Connector Pinout



Mechanical View 3



Mechanical View 4



Mechanical View 5

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01 Specifications are subject to change without notice. Verify the current product configuration before final design release.

02 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.