

EM1-S-0

EDGE Motor

ORDERING INFORMATION

Part Number: EM1-S-0
EDGE Standard Motor

Part Number: EM1-V-0
EDGE-Vacuum Rated Motor

RELATED PRODUCTS/

ACCESSORIES

Nm Asic Blank

Part Number: ASIC-1E-00 ASIC Edge X 1 Driver Component Open Loop

EAE00009

Part Number: ASIC-1E-BD-00

Asic Edge X 1

Part Number:

Driver Board Open Loop

Part Number: EDGE150001-01 ASIC-1e-00 Motherboard Part Number: ASIC-E2-00

Asic Edge X 2 Dual Axis
Controller/Driver

Part Number: ASIC-E2-BD-00

ASIC Edge X 2 Dual Axis

Controller/Driver Board Closed Loop

Part Number: XCD-EDGE-BD-00
Xcd Edge Controller/Driver Board
Part Number: XCDE150100-00
XCD-EDGE-BD-00 Motherboard
Part Number: XCD-EVAL-EDGE

XCD Eval Kit W/Edge Stage

Part Number: EDGE-EVAL-LS-RE EDGE Evaluation Kit

L/Slide & 0.1um Encoder

Part Number: EDGE-EVAL-LS-0E EDGE Evaluation Kit L/Slide -

Open Loop

Part Number: EDGE-EVAL-RS-0E EDGE Evaluation Kit Rotary Slide -

Open Loop

Application Recommendations

The EDGE motor is well suitable for a large range of applications, excelling in those where weight, form factor and power consumption are of prominence, such as:

- NUC Shutters
- Shutter & Aperture Control Components
- · Filter Changer Components
- Auto Focus Modules
- Unattended Ground Sensor Modules
- Optical Image Stabilization Modules
- Mirrors Positioning

Product Description

Nanomotion's Edge motor is the smallest industrial motor of its kind available in the marketplace today. Providing unlimited linear or rotary motion, the Edge motor offers extensive opportunities in applications that suit a wide range of industries. The Edge motor works with a uniquely designed, compact ASIC-based driver, and can be operated with any servo controller. The Edge can be easily integrated into most bearing structures, and is ideal for mass production opportunities.

Edge Motor Key Features:

- Extremely small dimensions
- Excellent move and settle characteristics
- Mil-rated
- ASIC drive and control
- Wide dynamic velocity range
- High resolution
- Zero backlash
- Holds position at power off
- Silent operation
- Negligible EMI



Example of EDGE Motor/Shutter



EM1-S-0

EDGE Motor

TECHNICAL SPECIFICATIONS

Mechanical

Weight/Mass: 0.55 gr

Dimensions: 13.5 x 7.6 x 3.15 mm

DYNAMIC

Driving Force (max): 0.32N Velocity (max): 200 mm/sec

ENVIRONMENTAL

Operation Temperature: $-40 \,^{\circ}\text{C} \div 80 \,^{\circ}\text{C}$ Vibrations: 10 g rms Shock: 350 g

ELECTRICAL

Motor Voltage (max): $8.5 \div 11 \text{ V AC}$ Motor Current (max): 130 mA AC

Nanomotion Ltd. Worldwide Headquarters

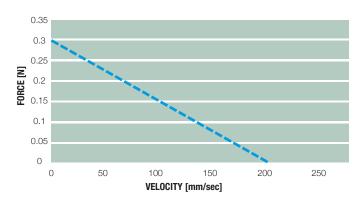
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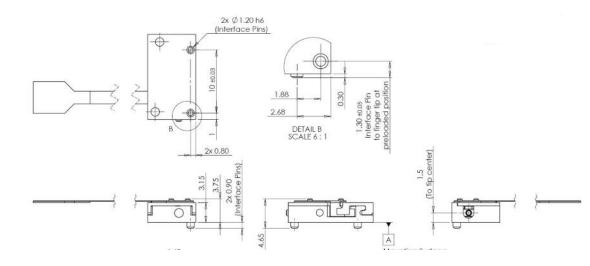
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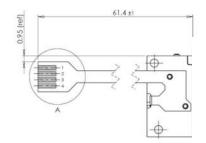
VELOCITY/LOAD CHARACTERISTICS

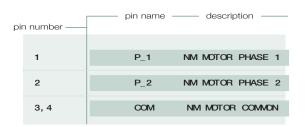


MECHANICAL DRAWINGS AND INTERFACE



ELECTRICAL INTERFACE







www.nanomotion.com