## **BLDC ACTUATOR**

# HUSCO

### **Rotary Actuator with Internal Gearbox**

#### **Description:**

A rotary actuator that is capable of up to 0.3 Nm (2.7 in-lbs) continuous at 15 rpm and 1.0 Nm (8.9 in-lbs) boost torque at 133 RPM. This actuator provides high speed adjustment of on-engine phasing. A physical internal rotary sensor provides absolute position feedback, which is especially desirable for applications where accurate real-time position data is important for critical system-level protection and fail-safe functionality.

The actuator includes a BLDC motor and gearbox to generate and transmit torque, and features an on-board controller which includes CAN communication, on-board rotary position sensing, position control, bootloader capability, and diagnostics. Flexible mounting and output options are available, and a fail-safe position of the output shaft can be communicated in the event of communication loss or component failure.

#### \*Technical Data:

**Rotation Range:** 355°

Torque (nominal): ±0.33Nm Torque (boost^): ±1.0Nm

Speed: 133RPM Max

Current (continuous): 1.25A rms Current (boost^): 5.0A max

**NVH:** <50dbA

**CAN Communication:** CAN 2.0b

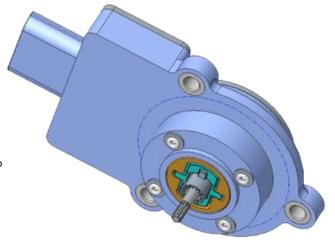
**Internal Rotary Sensor:** ±3% accuracy

^Duty cycle at Boost Torque Level expected to be <20%

#### **\*Operating Limits:**

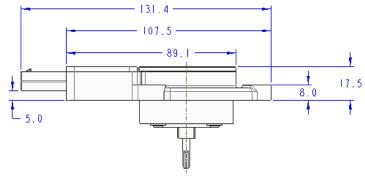
Supply voltage nominal:  $12 \pm 1 \text{ VDC}$ Supply voltage range: 9 to 16 VDCTemperature:  $-40^{\circ}\text{C}$  to  $150^{\circ}\text{C}$ 

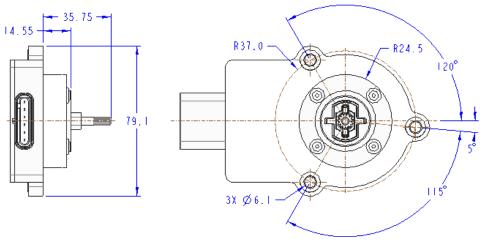
\*Contact Husco Engineering for customized performance, sensing, mounting, communication, diagnostics, ingress protection, or connectors.



## **Packaging Size**







## Manufacturing

Husco is a global company with facilities around the world. Options for manufacturing locations include North America, Europe, and Asia.

- USA
- China
- Mexico
- EasternEurope

