

"Servotorq™" Integrated Servo Motor

FEATURES

- All-In-One, Precision, Direct-Drive Motion
- Class-Leading Positional Accuracy and Repeatability
- Ultra Smooth and Silent
- Zero Backlash
- Low Size, Weight and Power
- 0.09Nm Output Torque
- Exceptional Repeatability



Compact, Smooth and Accurate Motion for Advanced Sensor Positioning

Part of the **Servotorq** series of Integrated Servo Motors and designed for applications requiring exceptional positional accuracy and repeatability, **Leto** delivers ultra-smooth, fast, silent and precise motion in a compact, standalone package. Its small footprint makes it ideal for integration in to a wide variety of sensor position applications including video conferencing cameras and CCTV PTZ applications utilising heavier 4K camera modules.

Fully Integrated Solution

Eliminating the need for a separate motor, servo controller and cabling, Leto combines a BLDC motor, advanced control electronics, a high-performance servo and a precision rotary position encoder into a fully integrated, direct-drive, motion control solution.

Easy Integration

Leto has been designed with simplicity for the integrator in mind and supported by its simple connectivity via a standard I²C interface and supply voltage, significantly reduces product development effort and overall system costs, which means that time-to-market and production efficiencies can be significantly improved for the integrator. Leto's compact design, just 65mm at its widest point, also supports integrators in the design of simpler and more attractive end products.

Best in Class Performance

Leto has a wide dynamic speed range of between 0.05°/s and 720°/s. Integrated drive control electronics and software provide closed-loop servo control, delivering velocity and acceleration control. Leto also provides rapid and precise positional control, with 0.0055° repeatability and zero backlash and is robust to external dynamic disturbances, especially impulses and vibrations.

Technical Specification

Part Number	OVU00243 (End Stop) OVU00244 (Continuous)
Electrical Specifications	
Nominal Voltage	24V DC
Current at max torque at 24v	600mA
Initialisation Current	600mA
Idle, no load, current	45mA
Position command & readback resolution	0.0055°
Maximum speed	720°/s
Min. non-zero speed	0.05°/s
Mechanical Specifications	
Weight	96g
Dimensions (LxWxH)	64.8mm x 56mm x 21.5mm (End-Stop) 64.8mm x 56mm x 18.5mm (Cont.)
Rotor moment of inertia	140gcm ²
Stall torque	0.09Nm
Moving Torque (at 360°s ⁻¹)	0.072Nm
Perpendicularity	<+/-0.5°
Maximum radial load	102N
Maximum axial load	19N
Bearing Type	Deep groove ball bearing (shielded)
Rotation Range	Configurations to provide continuous or limited rotation as required
Hollow Spindle bore internal dia.	8mm
Environmental Specifications	
Operational Temperature Range	-20°C to +70°C
Humidity Range (Standard Operation)	5% to 90% RH (non-condensing)

Note: Specifications subject to change without notice.

Leto is part of the Servotorq series of Integrated Servo Motors, designed, developed & manufactured by Overview Ltd. Other models in the range include: Juno™, Titan™, Miranda™, Atlas™ and Artemis™.