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SMELA LE INTEGRATED ACTUATOR

Smela linear actuator with built in DSP drive

LE-IDIO-STO.A.50.T020.085.6B.G3
Compact SMELA LE-IDIO-STO G3 integrated electric linear actuator with 85 mm stroke, T020 screw and m6x16 external thread.



- Compact design – up to 80% space saving
- IP65-rated
- Integrated drive and actuator in one unit
- Compatible with any motion controller or bus system
- EtherCAT, CANopen and digital I/O control

PRODUCT DESCRIPTION

SMELA liteECO® LE-INTEGRATED Electric Linear Actuator

The SMELA liteECO® LE-INTEGRATED combines a compact electric linear actuator with a fully integrated drive controller, delivering a complete decentralised motion solution for modern automation systems. Designed as a high-performance alternative to pneumatic cylinders, the LE-INTEGRATED simplifies installation while providing precise positioning, reduced energy consumption and exceptional space savings.

Built around SMELA's patented liteECO® concept, the actuator integrates the servo motor, linear mechanics and drive electronics into a single compact package. Available with 24 VDC and optional 48 VDC operation, the actuator can be controlled directly via EtherCAT, CANopen or digital I/O, reducing cabinet space and eliminating the need for external motion controllers in many applications.

The LE-INTEGRATED offers maximum stroke lengths of 85 mm and 115 mm, with unrestricted positioning throughout the entire travel range. Its compact design can save up to 80% installation space compared to conventional electric solutions, while significantly reducing energy consumption compared to pneumatic systems.

Designed for demanding industrial environments, the actuator features IP65 protection, integrated M8 and M12 industrial connectors, high-resolution position feedback and daisy-chain capability via EtherCAT and CANopen. The result is a powerful, decentralised motion solution ideal for machine builders looking to simplify wiring and reduce control cabinet complexity.

Key Features

Integrated servo drive and actuator in one compact package
24 VDC operation with optional 48 VDC version
EtherCAT, CANopen and digital I/O control options
Up to 80% installation space saving
Up to 75% energy savings compared to pneumatic systems
Stroke lengths of 85 mm and 115 mm
IP65-rated enclosure for industrial environments
Daisy-chain communication capability via EtherCAT and CANopen
High-resolution positioning feedback for accurate motion control
Reduces wiring and control cabinet requirements

Typical Applications

Packaging machinery
Conveyor and material handling equipment
Assembly and production systems
Machine tools
Automated positioning and locking systems
Decentralised motion control architectures

TECHNICAL DATA

Acceleration	2.5 m/s²
Backlash	0.1 mm
Max internal temperature rise	45 °C
Max phase current	12 A
Max. speed	50 mm/s
Maximum force (static)	750 N
Nominal force (good thermal coupling)	625 N
Nominal phase current (good thermal coupling)	6 A
Nominal voltage	24
Operating temperature	90C
Positioning time	900 ms
Stroke max	85 mm
Weight	800 g