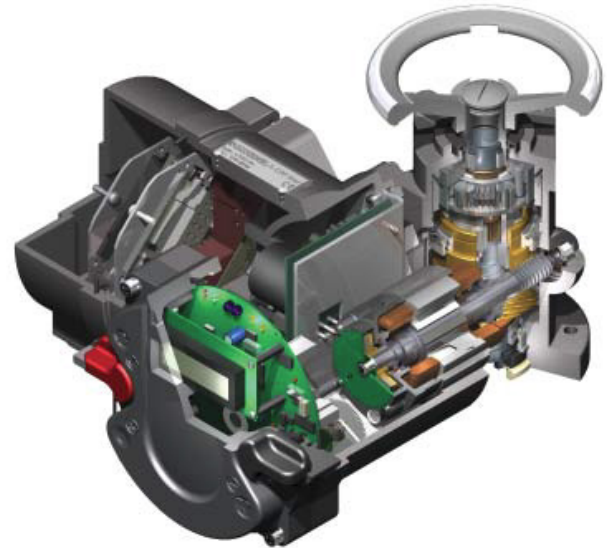
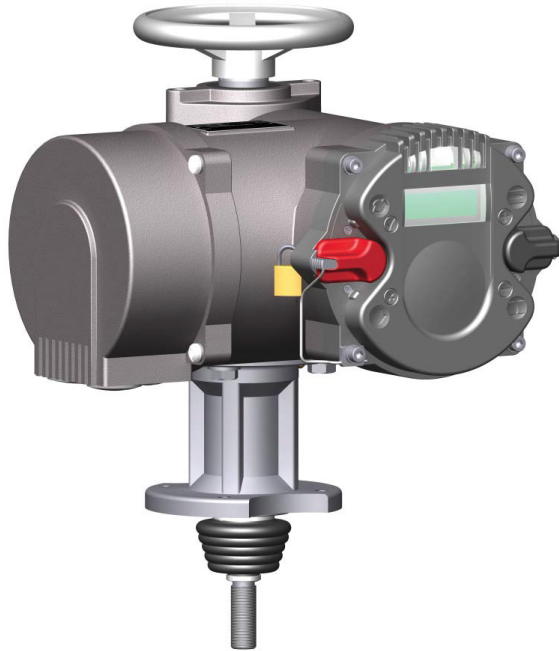


EIM RTS CL Compact Linear Actuator



Smart Compact Linear Actuator

Main Features

- CL Series of Icompact, linear actuators with maximum force up to 25 kN
- Control Unit: Integrated actuator control unit with frequency inverter technology and Brushless DC motor
- Reliable and highly accurate positioning control
- DC, single phase, three phase options
- Adjustable speed and torque
- On/off operation and modulating duty
- Non-intrusive setup
- Available in weatherproof and explosion proof construction
- Handwheel without declutch lever
- High efficiency planetary gear train
- Integrated SMARTCON controls with wireless Bluetooth capability for configuration, monitoring, and diagnostics of key parameters

- Data Logger for diagnostics
- SMARTCON Android application
- Optional PID Positioner
- Multi lingual user interface

Technical Details

- Maximum Thrust: 25 kN
- Maximum Modulating Thrust: 15 kN
- Adjustable Positioning Speed: 0.17 mm/s - 4.7mm/s
- Power Supply: 24 VDC, Single Phase 115V-230 V +/-10%, Three Phase 380V-480V +/-10%
- Housing Material: Aluminum
- Standard NEMA 4 enclosure
- Certification: ATEX, CSA, UL, IECEx

TYPE		CL-05	CL-15	CL-25
Maximum Thrust (Adjustable)	max. kN (max. lbs.)	5 (1124)	15 (3372)	25 (5620)
Maximum Modulating Force	max. kN (max. lbs.)	5 (1124)	8 (1798)	15 (3372)
Adjustable Positioning Speed	mm / sec	0.17 - 4.7	0.17 - 4.7	0.17 - 4.7
Maximum Stroke Length	max. mm (max. in)	50 (1.96)	100 (3.93)	100 (3.93)
Operation Mode	On/off duty	On/off duty S2-15 minutes		
	Modulating duty	Modulating duty S4 - 1200 cycles/hour - 40% duty cycle		
VALVE-MOUNTING				
Flange		F10 (ISO 5210)		
Stem Thread		M16 x 1.5		
Rotation		Stem of Linear-Unit extends with clockwise handwheel rotation		
OPERATING CONDITIONS				
Protection Degree		IP66, IP67		
Ambient Temperature		-40°C to + 60°C		
Corrosion Protection		K2 for installation in power plants, industries and waste water plants with aggressive atmosphere		
Painting / Color		2 components painting / RAL7024		
Weight		12.5 kg	16.5 kg	20 kg
MOTOR		Brushless DC Motor		
Isolation Class				
Power Supply		V 24 VDC *, Single Phase 115V-230V +/-10%, Three Phase 380V-480V +/-10% (* Restrictions apply)		
Current Consumption		A approx. 2.25		
Power		W approx. 250W		
ACTUATOR CONTROL				
Electronic with Frequency-Technology		Integrated processor control unit with frequency-technology for variable speed control		
Control Unit				
Control Elements		<ul style="list-style-type: none"> · Selector switch LOCAL - OFF- REMOTE (lockable) · Control switch OPEN - STOP - CLOSE contact less sensor technology · Language independent symbols 		
Local Display		Backlit LCD display, can be rotated in 90 degree steps		
LEDs		Programmable LED's for operation, readiness, warning and error messages		
Communication		Infrared communication interface for programming and saving operation data		
Control				
Inputs		<ul style="list-style-type: none"> · 5 configurable binary (discrete inputs) control inputs: OPEN - STOP - CLOSE - EMERGENCY OPEN - EMERGENCY CLOSE · Power supply: 24VDC (max. 30VDC) - current consumption with 24VDC: typical 5mA · Optically isolated inputs · Analog control 4-20 mA (2 wire) 		
Status Indication				
Outputs		<ul style="list-style-type: none"> · 8 configurable binary (relay) outputs: READY - OPEN - CLOSE - RUNNING OPEN - RUNNING CLOSE - TORQUE - LOCAL - REMOTE · Power supply 24VDC +/- 6V (per actuator or through control system) · Max. allowed current per output: 50mA (short-circuit-proof) · Max. allowed current for all outputs with power supplied by actuator: 150mA · Max. allowed current for all outputs with power supplied by control system: 250mA · All outputs are optical isolated if power is supplied by control system 		
Voltage Input and Output				
Power Supply - External		<ul style="list-style-type: none"> · Input power range: 20-30VDC max. current consumption 320mA or 100mA in current save mode · status indication also in case of a main power supply failure 		
Power Supply - By Actuator		<ul style="list-style-type: none"> · Output voltage: typical 22V, max. output current 200mA · Reference ground is the common ground of the control unit and of the analog inputs and outputs 		
Functions				
Standard		<ul style="list-style-type: none"> · Switch-off mode adjustable: travel or torque dependent to valve type · Torque/Force adjustable: 25-100% of max. torque/force · 4 intermediate positions between 0 and 100% in both directions parametrizable · Step-mode operation with adjustable STEP-START, STEP-STOP, RUNNING, and BREAK TIME in both directions · PID positioner for 2 input signals 0/4-20mA (setpoint, external actual value) · Writing and reading protection via password · Multi-lingual display indication: German , English, Czech, Russia and Danish · Status indication of binary inputs and outputs and also of the analog signals on LCD display · Data logging for analysis and service 		
Electric Connection				
Cable Entries		3 metric threaded holes for cable glands: M40x1.5 / M32x1.5 / M25x1.5		
OPTIONS				
Explosion proof Network - Modbus RTU, HART		Relay board for 250VAC, 2A with 4 or 8 outputs Analog position indication 0/4-20mA (2-wire)		