



Compact Series pro

12 and 24 VDC, load up to 4500 N





Compact series pro

Simply the best

The Electrak Pro Series is not an actuator designed for the ordinary tasks. Instead the Pro Series stands alone when it comes to the toughest and most demanding applications. When space is scarce, where dust, dirt and water is abundant and when solid, reliable and maintenance free operation is a must - Electrak Pro is the answer.

What is special for most is standard for a pro

The Electrak Pro Series is packed with standard features developed for applications where performance is essential. Electronic load monitoring, electronic limit switches, dynamic braking, manual override and IP66 protection are all standard features.

Electronic load monitoring

A built-in micro processor continuously monitors the performance of the actuator. The processor will stop the movement at the end of stroke and also in case of mid stroke stall, at overload conditions or if the duty cycle is too high. It also eliminates the need of a clutch and provides dynamic braking.

Broad range of unique options

The Compact Series pro offer a broad range of options. Some or them are unique and have never before been seen on a linear actuator. Options include programmable limit switches, low voltage power switching, PWM speed control monitoring, signal follower input, analog or digital position feedback, end of stroke indication outputs, ELM indication outputs and longer stroke lengths, most being available without adding size to the standard optimized envelope.

Low voltage power switching

This option provides a host of benefits and cost savings. You can directly interface the actuator with programmable controllers, without risk of overloading sensitive low voltage components. It also allows you to use low cost switches to control the actuator instead of using heavy relays and permits smaller wire cross section for the control circuits. It all means easier, faster and more cost effective installation.

Programmable limit switches

Programmable limit switches is an option that allows you to easily teach and repeat unique end of stroke positions. The positions can be programmed over and over, using a hand held pendant which can be removed during operation to prevent unauthorized changes.

Signal follower input

This option provides the possibility to make the extension tube position follow the setting of a customer provided trim or adjustment potentiometer.

PWM speed control monitoring

The PWM speed control option allows a customer provided PWM input to interface with our electronic load monitoring system in applications requiring variable speed control of the actuator.



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Standard Features and Benefits

- Designed for heavy duty operation, IP66
- Optimized overall envelope with minimal retracted length
- Durable and corrosion resistant aluminum housing
- Cover tube and extension tube in stainless steel *2/*5/*6
- Acme or ball screw models
- Maintenance free
- Electronic load monitoring (ELM)
- Manual override
- Wide range of options

General Specifications

Screw type	acme or ball
Internally restrained	no / yes *1
Manual override	yes
Dynamic braking	yes
Holding brake acme screw models ball screw models	no, self-locking yes
End of stroke protection	electronic load monitoring
Mid stroke protection	
Motor protection	
Motor connection	connector integrated in housing
Motor connector	Delphi Metri- Pack 280
Certificates	CE
Options	<ul style="list-style-type: none"> • linear potentiometer *1/*2 • encoder *5 • programmable limit switches *1/*2 • low current power switching*3 • end of stroke indication outputs *1/*2 • ELM trip indication output • signal follower input *1/*2 • IP67 *3 • black paint

Leistungsdaten

Maximum load	dynamic / static [N]
SR • • 02-2A65 (acme screw)	1125 / 2250
SR • • 05-4A65 (acme screw)	2250 / 4500
SR • • 07-8A65 (acme screw)	3375 / 6750
SR • • 05-2B65 (ball screw)	2250 / 4500
SR • • 10-4B65 (ball screw)	4500 / 9000
Speed	no load / max. load [mm/s]
SR • • 02-2A65 (acme screw)	50 / 43
SR • • 05-4A65 (acme screw)	28 / 23
SR • • 07-8A65 (acme screw)	14 / 12
SR • • 05-2B65 (ball screw)	50 / 38
SR • • 10-4B65 (ball screw)	25 / 20
Available input voltages *6	12, 24 [VDC]
Standard stroke lengths *4	50, 100, 150, 200, 300 [mm]
Operating temperature limits	-40 bis +85 [°C]
Full load duty cycle @ 25 °C	25 [%]
End play, maximum	1,0 [mm]
Restraining torque, maximum	17 / 0 *1 [Nm]
Protection class	IP 66 (67) *3

*1 Without / with anti-rotation option. When the anti-rotation option is being used, the front adapter cross hole can't be freely rotated. Instead the front cross hole must be ordered in standard position (shown in the drawing) or rotated 90°.

*2 Control options with linear potentiometer (options "L", "P", "R" and "K") requires an aluminum cover tube. Also the anti-rotation option requires an aluminum cover tube. Anti-rotation is required for ball screw units with above options, but optional for acme screw units. Note that a programming unit is necessary for the programmable limit switch option.

*3 IP67 requires the mating connector be installed and the factory sealing, including the manual override cover, must not be compromised.

*4 For longer stroke length, contact customer support.

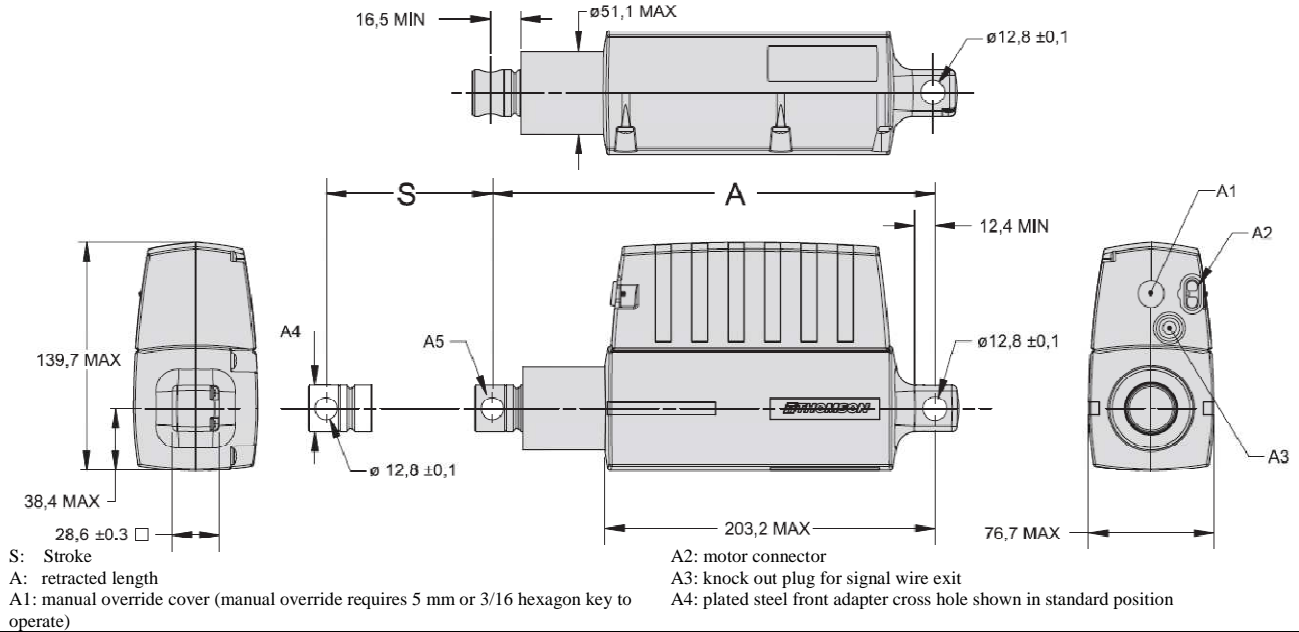
*5 Consult customer support for encoder output data..

*6 Compact series pro requires, besides the correct input voltage, at least a 600 W power supply or an automotive/marine battery to function properly.



Compact series pro

Dimensions

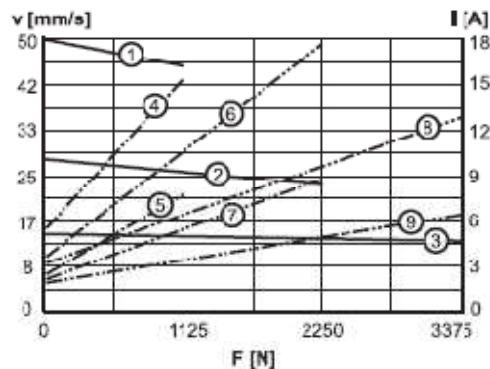


Stroke.(S).	[mm]	50	100	150	200	300
Retracted.length,.acme.screw.models.(A)	[mm]	240,3	257,5	307,5	357,5	457,5
Retracted.length,.ball.screw.models.(A)	[mm]	240,3	289,5	339,5	389,5	489,5
Weight,.acme.screw.models	[kg]	2,9	3,0	3,2	3,4	3,9
Weight,.ball.screw.models	[kg]	3,3	3,4	3,6	3,8	4,1
Potentiometer.approx..resistance.change*	[Ohm /	57,2	36,2	26,5	41,7	29,3

* Potentiometer is optional

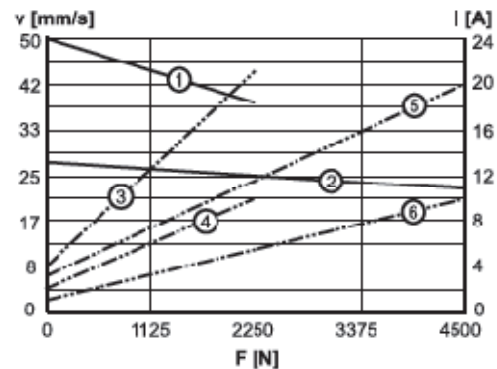
Performance Diagrams

Acme Screw Models
 Speed and Current vs. Load



- V: speed
- I: current
- F: load
- 1: speed SR • • 02-2A65
- 2: speed SR • • 05-4A65
- 3: speed SR • • 07-8A65
- 4: current 12 VDC, SR1202-2A65
- 5: current 24 VDC, SR2402-2A65
- 6: current 12 VDC, SR1205-4A65
- 7: current 24 VDC, SR2405-4A65
- 8: current 12 VDC, SR1207-8A65
- 9: current 24 VDC, SR2407-8A65

Ball Screw Models
 Speed and Current vs. Load



- V: speed
- I: current
- F: load
- 1: speed SR • • 05-2B65
- 2: speed SR • • 10-4B65
- 3: current 12 VDC, SR1205-2B65
- 4: current 24 VDC, SR2405-2B65
- 5: current 12 VDC, SR1210-4B65
- 6: current 24 VDC, SR2410-4B65



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Ordering Keys

1	2	3	4	5	6	7
SRP12	20-8B65	D	10	R	C	S

1. Modell und Eingangsspannung

SRP12 = Compact series pro 12 VDC
 SRP24 = Compact series pro 24 VDC

2. Dynamische Last und Gewindetyp

02-2A65 = 1100 N, acme screw
 05-4A65 = 2250 N, acme screw
 07-8A65 = 3375 N, acme screw
 05-2B65 = 2250 N, ball screw
 10-4B65 = 4500 N, ball screw

3. Schutzart

D = IP66 (Standard)
 G = IP67

4. Stroke

05 = 50 mm
 10 = 100 mm
 15 = 150 mm
 20 = 200 mm
 30 = 300 mm

5. Control.PCB.options

S = electronic load monitoring, ELM (standard)
 D = ELM + encoder
 L = ELM + linear potentiometer *1
 P = ELM + programmable limit switches *1
 T = ELM + low level power switching
 R = ELM + end of stroke indication outputs *1
 U = ELM + ELM trip indication output
 K = ELM + signal follower input *1

6. Front.adapter hole and anti-rotation options *2

C = freely rotatable cross hole, no anti-rotation
 S = adapter hole in standard position, anti-rotation *3
 M = adapter hole rotated 90°, anti-rotation *3
 R = rod end, anti-rotation *3

7. .Finish

S = no paint (standard)
 B = actuator painted black

*1 Ball screw units require anti-rotation, optional for acme screw units (specify option S, M, C or R in position 6).

*2 Other front adapters possible on request, contact customer support.

*3 Definition of adapter hole positions.

