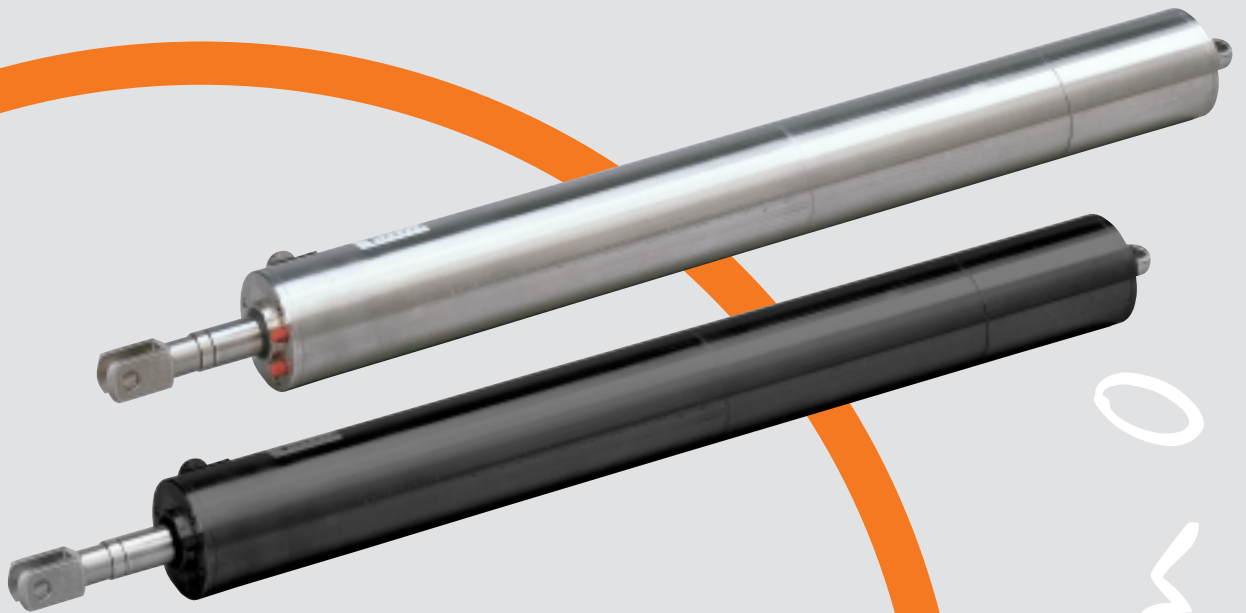


Linear actuator Econom 0



*Our intelligent model:
Econom 0*



Econom 0

Linear actuators Econom 0



Description · Applications · Facts

The users of the steel or stainless steel Econom 0 come from many different industries:
From architects and planners of contemporary façade architecture up to plant construction and mechanical engineering specialists.

One special Econom 0 model is UL certified and can be used without restrictions in the USA and Canada. You can find technical data about this model in a separate brochure.



Calculation example Econom 0 for dimension A

(based on the following requirements)

| | |
|---------------------------|--|
| Pushing and pulling force | 1400 N |
| Stroke | 230 mm |
| Operating voltage | 230 V 1 AC, rating: S3-15% |
| Fixing on piston end | fixed articulated lug |
| Fixing on housing end | standard articulated lug |
| Capacitor | external (standard wiring diagram WS 0500) |
| Option | potentiometer |

Selected version:

| | | |
|-------------------------|-----------------------------------|---|
| Force | → version E | 1500 N |
| Dimension G | → fixed articulated lug | 32 mm |
| Dimension F | → ver. E, stroke 50-300 mm, 230 V | 356 mm (Please observe the additional marks *, **, 1) |
| Inst. stroke** | → installed stroke length | 250 mm |
| Dimension L | → option, potentiometer | 75 mm |
| Dimension E | → standard articulated lug | 19 mm |
| Dimension A min. | | 732 mm |

* brake dimension (75 mm) included

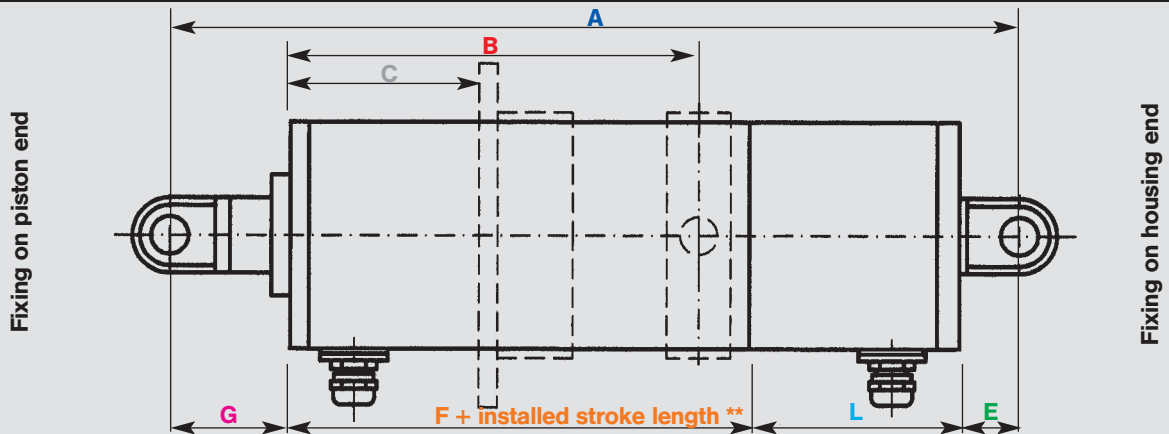
** installed stroke length at 50 mm intervals

1) including 50 mm guide extension

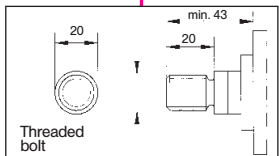
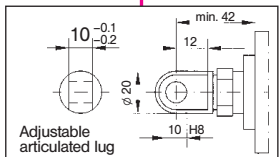
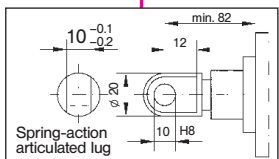
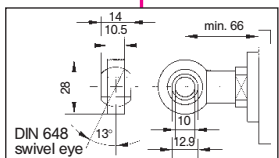
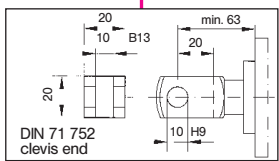
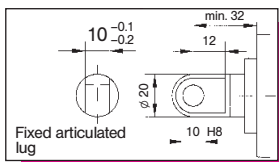
Load (N) and stroke speeds (mm/s)

| Version | Stroke speed mm/s | 400 V-3 AC Rating: S3 – 15% | | 230 V-1 AC Rating: S3 – 15% | | 24 V DC Rating: S3 – 15% | | | 24 V DC Rating: S1 | | | Number of add. planetary gear stages | Available with brake only |
|---------|----------------------|--------------------------------|----------------------|--------------------------------|----------------------|-----------------------------|-----------|----------------------|-----------------------|-----------|----------------------|--------------------------------------|---------------------------|
| | | Load N | Nominal current A | Load N | Nominal current A | Stroke speed mm/s | Load N | Nominal current A | Stroke speed mm/s | Load N | Nominal current A | | |
| A | 70 | 220 | 0.35 | 220 | 0.8 | 60 | 100 | 2.5 | – | – | – | – | x |
| B | 40 | 480 | 0.35 | 480 | 0.8 | 35 | 150 | 2.5 | – | – | – | – | x |
| C | 35 | 500 | 0.35 | 500 | 0.8 | 25 | 120 | 2.5 | – | – | – | – | x |
| D | 20 | 1000 | 0.35 | 1000 | 0.8 | 20 | 400 | 2.5 | – | – | – | – | x |
| E | 10 | 1500 | 0.35 | 1500 | 0.8 | 9 | 500 | 2.5 | 10 | 250 | 1.3 | 1 | x |
| F | 5 | 3000 | 0.35 | 3000 | 0.8 | 5 | 1200 | 2.5 | 6.5 | 500 | 1.3 | 1 | – |
| G | 3 | 3000 | 0.35 | 3000 | 0.8 | 3 | 2000 | 2.5 | 4 | 850 | 1.3 | 1 | – |
| H | 2.5 | 3000 | 0.35 | 3000 | 0.8 | 2 | 2500 | 2.5 | 3 | 1000 | 1.3 | 2 | – |
| I | 1.5 | 3000 | 0.35 | 3000 | 0.8 | 1.5 | 3000 | 2.0 | 1.8 | 1500 | 1.3 | 2 | – |
| J | 1 | 3000 | 0.35 | 3000 | 0.8 | – | – | – | 1 | 3000 | 1.3 | 2 | – |
| K | 0.6 | 3000 | 0.35 | 3000 | 0.8 | – | – | – | 0.7 | 3000 | 1.3 | 2 | – |

Technical data and dimensions



Dimension G Fixing on piston end



Dimension F

| Version | Stroke lengths 50–300 mm | | Stroke lengths 350 & 400 mm | |
|---------|--------------------------|-----------|-----------------------------|-------------------|
| | 24 V DC | 230/400 V | 24 V DC | 230/400 V |
| A* | 303 | 343 | 353 ¹⁾ | 393 ¹⁾ |
| B* | 303 | 343 | 353 ¹⁾ | 393 ¹⁾ |
| C* | 303 | 343 | 353 ¹⁾ | 393 ¹⁾ |
| D* | 303 | 343 | 353 ¹⁾ | 393 ¹⁾ |
| E* | 316 | 356 | 366 ¹⁾ | 406 ¹⁾ |
| F | 241 | 281 | 291 ¹⁾ | 331 ¹⁾ |
| G | 241 | 281 | 291 ¹⁾ | 331 ¹⁾ |
| H | 254 | 294 | 304 ¹⁾ | 344 ¹⁾ |
| I | 254 | 294 | 304 ¹⁾ | 344 ¹⁾ |
| J | 254 | 294 | 304 ¹⁾ | 344 ¹⁾ |
| K | 254 | 294 | 304 ¹⁾ | 344 ¹⁾ |

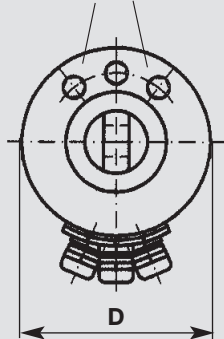
Dimension A Extension by addition of a protective sleeve

| Extension | Max. utilised stroke |
|-----------|----------------------|
| 50 mm | 0 mm - 200 mm |
| 100 mm | > 200 mm |

Dimension L Extension by addition of accessories

| | 24 V | 230 / 400 V |
|-----------------------------|---------------|---------------|
| Potentiometer | not available | + 75 mm |
| Encoder | not available | + 75 mm |
| Integrated capacitor | – | + 97 mm |
| Force limiter | not available | not available |

Limit switch adjustment screws

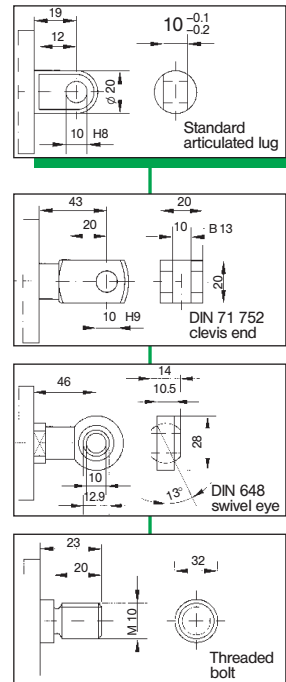


Dimension D
 \varnothing 62 mm
 (housing diameter)

Dimension B Pivot attachment

| Dimension | |
|-----------|--------------------------|
| B | > 60 mm max. = stroke |
| V | 68 mm |
| W | 93 mm |
| X | 10 mm |
| Y | \varnothing 10 mm |
| | - 0.03 - 0.05 |

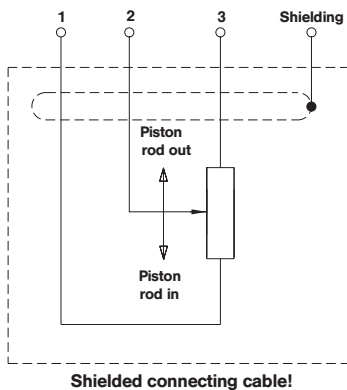
Dimension E Fixing on housing end



Dimension C Flange attachment

| Dimension | |
|-------------------------|-------------------------------|
| C | 0 or > 60 mm max. = stroke |
| P | \varnothing 95 mm |
| Q | 56 mm |
| R | \varnothing 5.5 mm |
| Flange thickness | 5 mm |

* brake dimension (75 mm) included ** installed stroke length at 50 mm intervals ¹⁾ including 50 mm guide extension



Terminal assignment:

| | | | | | | | | |
|--------------------|-----|-----------------|----|-----------|----|-----------|----|-----------|
| Signal: | 0 V | +U _B | A | \bar{A} | B | \bar{B} | 0 | $\bar{0}$ |
| Core colour: | WH | BN | GN | YE | GY | PK | BU | RD |
| Without inversion: | WH | BN | GN | | YE | | GY | |

Electrical characteristics:

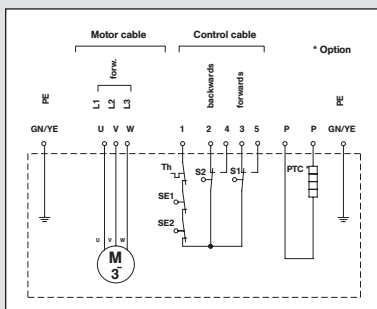
| | | | |
|------------------------------------|--------------|-----------------------------|----------------|
| Output circuit | Rail to rail | Signal level high | min. UB -2,5 V |
| Supply voltage | 5...24 V DC | Signal level low | max. 0.5 V |
| Current consumption (without load) | max. 50 mA | Rise time (t) | max. 1 ms |
| Admissible load / channel | max. 50 mA | Fall time (t) | max. 1 ms |
| Impulse frequency | max. 160 kHz | Short-circuit proof outputs | yes |

CE compliance according to EN 50081-2 and EN 55011 class B.

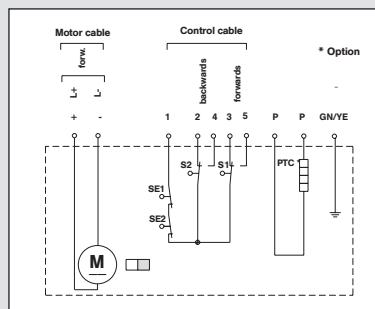
Wiring diagram – Potentiometer

Terminal assignment – Encoder

Standard wiring diagrams

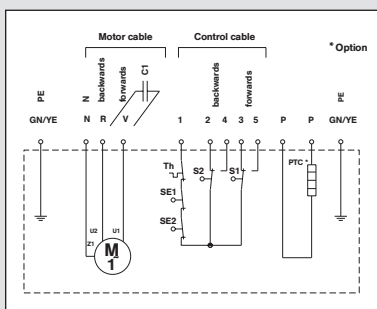


DS 0200 / 400 V 3AC



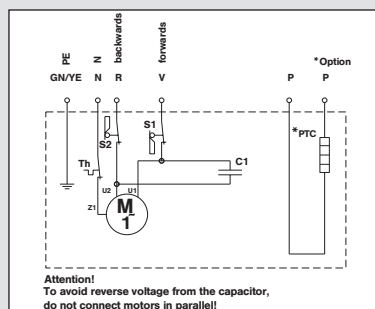
GS 0100 / 24 V DC

Th = Thermal protection contact
 SE = Safety limit switch
 S1 = Limit switch
 Piston rod out
 S2 = Limit switch
 Piston rod in
 PTC = Heating element



WS 0500 / 230 V 1AC

(especially for mechanical engineering)



WS 0800 / 230 V 1AC

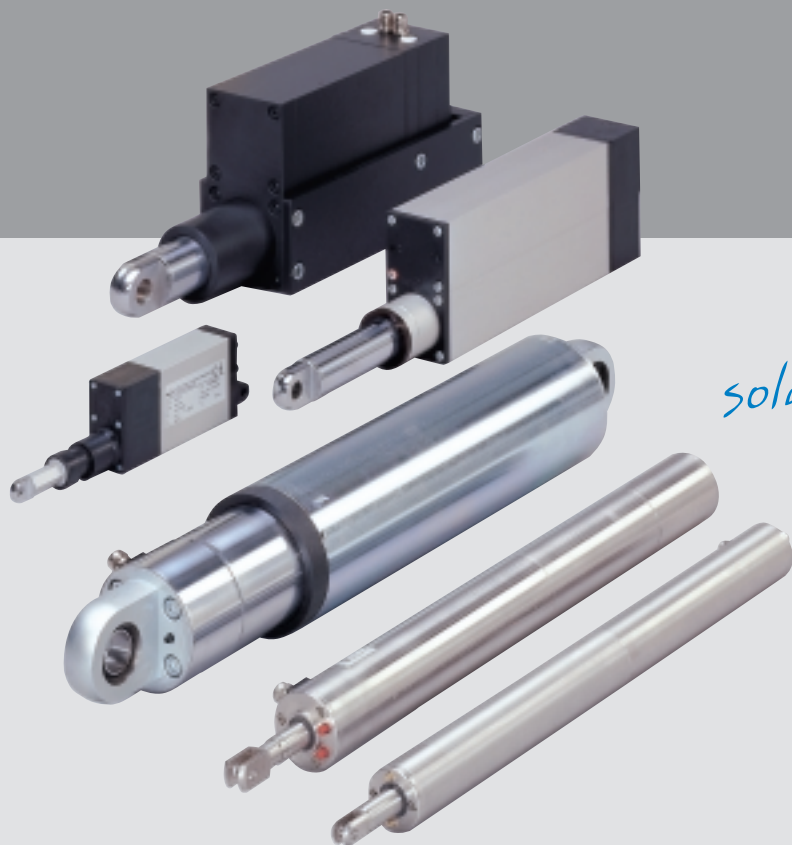
(especially for façade construction)

Options

(Please observe the availability notes in the table on page three)

- Standard potentiometers (1 kOhm, 5 kOhm, 10 kOhm, 100 kOhm)
- Precision potentiometers (1 kOhm, 5 kOhm, 10 kOhm)
- Encoders (especially 60 or 80 impulses per revolution)
- Internal capacitor
- Brake (supply voltages 24V DC, 230 V 1AC, 400V 1AC)
- Protective sleeve
- UL certified, stainless steel Econom 0 (technical data can be found in a separate brochure)

elero linear actuators



*Tailor-made
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