

Company:   
 Address:   
 Phone:  Fax:  Department:   
 Name:  E-mail:

**ELECTROMECH. LINEAR ACTUATORS ELA**

**REQUIRED UNITS**

**Technical specifications:**

Force:  Compression dynamic:  N static:  N  
 Tension dynamic:  N static:  N

ELA 10.1<sup>5)</sup> Nominal stroke:  100  200  300  400 Special nominal stroke:   
 ZNr.A17.01.003 (4)  Bl.1+2 (de)  Bl.3+4 (en)  Bl.5+6 (fr)

ELA 20.1<sup>5) 17)</sup> Nominal stroke:  200  400  600 Special nominal stroke:   
 ZNr.A17.01.002 (4)  Bl.1+2 (de)  Bl.3+4 (en)  Bl.5+6 (fr)

ELA 30.1<sup>3)5)17)</sup> Nominal stroke:  200  400  600  800 Special nominal stroke:   
 ZNr.A17.01.011 (4)  Bl.1+2 (de)  Bl.3+4 (en)  Bl.5+6 (fr)

ELA 40.1<sup>5)8)17)</sup> Nominal stroke:  200  400  600  800 Special nominal stroke:   
 ZNr.A17.01.004 (4)  Bl.1+2 (de)  Bl.3+4 (en)  Bl.5+6 (fr)

Ratio:

Effective stroke:  mm  Ball screw  Tr screw

Lifting speed:  mm/sec Motor power:  W

Motor speed:  rpm at 50Hz Motor torque:  Nm

Load cycles related to 10min:  Distance covered by each load cycle:  mm

Intermittent duty:  % related to 10min

Ambient temperature:  Standard +0 °C up to +40 °C  Operation indoors  
 Special  °C up to  °C  Operation outdoors

Shocks or strokes:  no  yes Vibrations:  no  yes

Extraordinary operation conditions e.g.. Ex-protection (ATEX), stopping accuracy, etc.?

Three-phase motor 230/400 V – 50/60 Hz – IP 54  Brake, 230 VAC IP54 <sup>2)3)</sup>

Single-phase motor 230 V – 50 Hz – IP 54  Brake, 230 VAC IP54 <sup>2)3)</sup>

Direct-current motor 24 V – IP 54 <sup>17)</sup>  Brake, 24 VDC IP54 <sup>2)3)</sup>

Special motor

w/o Motor <sup>6)</sup>/with motor flange Ø  mm for motor shaft Ø  x   
 Dimensions motor flange: ELA 20.1: IEC 56-B14/ flange-Ø80mm; WE-Ø 9x20mm  
 ELA 30.1: IEC 63-B14/ flange-Ø90mm; WE-Ø 11x23mm  
 ELA 40.1: IEC 71-B14/ flange-Ø105mm; WE-Ø 14x30mm

Free shaft end (without Motor/without Motor flange) <sup>6)13)</sup>

Motor attachment / motor flange / free shaft end  right  left

Head 0 (with inside thread)  Head I  Head II  Head III<sup>9)</sup>(incl. anti-turn device)

## Accessories

- Electromechanical limit stop <sup>4/5/15)</sup>
- 2 Units Reed-contact limit stop <sup>4/5/7/8)</sup>
- ..... Unit(s) Pillow blocks per ELA
- Fastening plate <sup>7)</sup>
- Console
- Swivel device <sup>7)</sup>

## Options

- Anti-turn device <sup>6/8)</sup>
- 2nd shaft end at ELA <sup>6/14)</sup>
- Flexible protection boot <sup>10)</sup> Material: PN-xten (Standard -10°C up to +60°C)
- Flexible protection boot <sup>10)</sup> Material: PN-CSM (-15°C up to +100°C)
- Incremental encoder Type ID<sup>5)</sup>  Page1
- Absolute encoder Type AMD<sup>5)</sup>  Page2 Data output RS422/SSI  
 Page2 Data output Profibus-DP
- Special lubrication
- Monitoring relay for temperate monitoring of the motor winding  
(PTC Thermistor) Art.-No. 031630169  
suitable power module for monitoring relay 42VAC Art.-No. 031600461
- Control box
- Basic version for three-phase motor H1TM (TB65st1) suitable for DC side braking (fast braking)

When installing the ELA please make sure that there are no lateral forces on the piston (tube)!  
Lateral guides may be provided!

Comments:

## Index

- 1) Only available if ordered with a brake motor.
- 2) The brake must be connected D.C. sided (fast braking). With DC-Motor the brake must be connected separately (fast braking).
- 3) TB 6541: ELA 30.1 ratio „H“ only available if ordered with a brake motor (fast braking).
- 4) ELA 10.1/20.1/40.1 with ratio „H“ and ELA 30.1 with ratio „H“ and „V“ only available if ordered with brake motor (brake to connect D.C. sided). In combination with single-phase motor or DC-Motor (all ratios) only available with brake motor (fast braking).
- 5) TB 6542: We suggest using a brake motor in order to reduce after-running.
- 6) Not available for ELA 10.1
- 7) ELA 10.1: Combination of stroke 100, limit switch (reed-contact), fastening plate or stroke 100, limit switch (reed-contact), swivel device not available.
- 8) ELA 40.1 with ball screw not available in combination with anti-turn device and with limit switch (reed-contact)
- 9) ELA 10.1: Not available in combination with electromechanical limit stop. ELA 20.1/ 30.1/ 40.1 only available with anti-turn device.
- 10) Not available in combination with electromechanical limit switch.
- 11) TB 6544: When using frequency encoder take into account „slow start-up“. For nominal current please refer to instruction manual  $I_{N1} = \dots A$ .
- 12) TB 6530: Please note that our electromechanical linear actuator size 30 is no longer available. Size 30 has been replaced by 30.1 according to the mentioned drawing.
- 13) Not available in combination with 2<sup>nd</sup> shaft end at the ELA.
- 14) Not available in combination with free shaft end.
- 15) ELA 10.1: Not available in combination with head type III.
- 16) TB 6501 (sentence 1): Please investigate whether or not the planned installation is subject to specific.....
- 17) ELA 20.1/30.1/40.1 with ratio H and ELA 20.1/30.1 with ratiom V in combination with DC-Motor only available with brake.