

Linear actuator

Matrix 1

Benefits

- Silent operation
- Full system with control unit, operating switch and accessories
- Synchronization possible
- Compact and aesthetic
- Back-up nut as standard

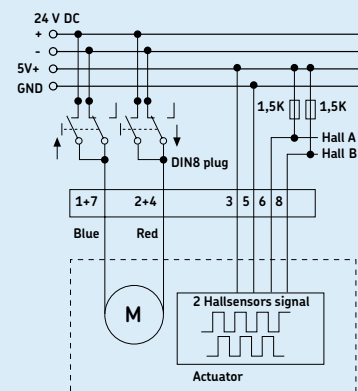


Suitable control units and accessories

Control units									
	SCU 1	SCU 5	SCU 9	VCU 5	VCU 8	VCU 9	BCU 5	BCU 8	MCU
MAX 1	•	•	•	•	•	•	•	•	•
EHA 1									•
EHA 3	•	•	•	•	•	•	•	•	•
STJ	•	•	•	•	•	•	•	•	•
STA									•
STE	•	•	•	•	•	•	•	•	•

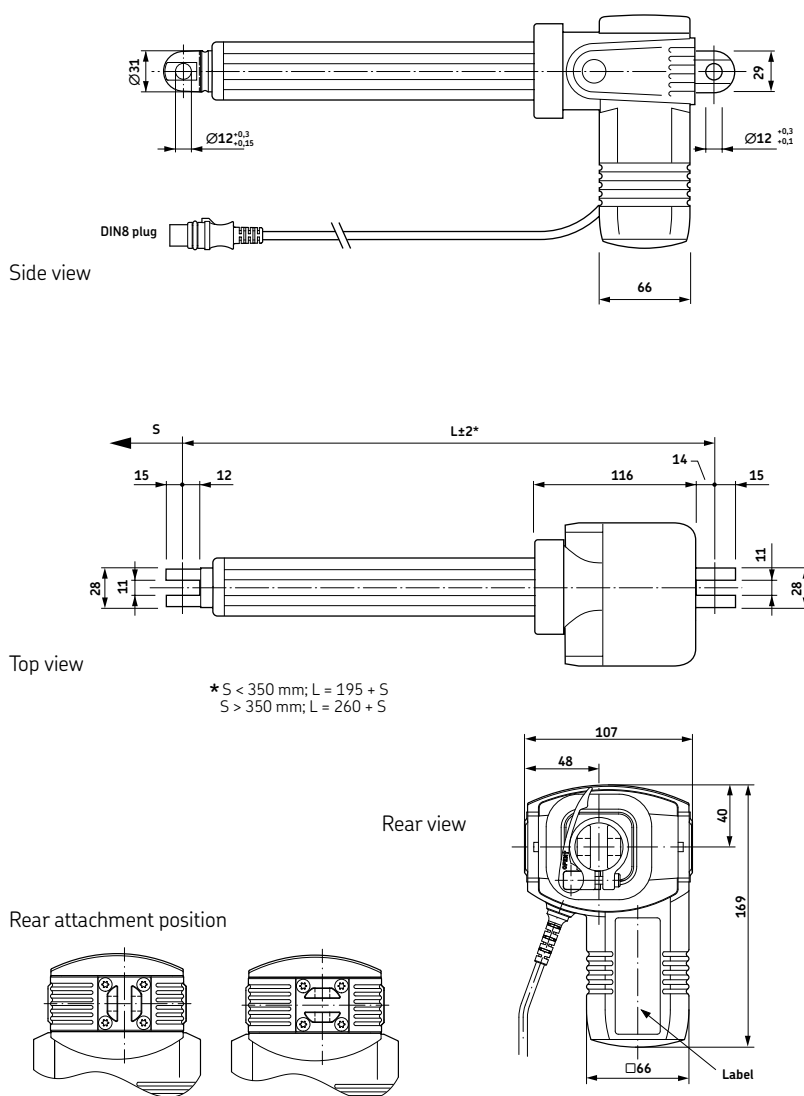
Hand switch
 Foot switch
 Desk switch

Connecting diagram*



* Only valid for MAX 11. MAX 10 must be operated by a BCU, MCU, SCU or VCU control unit.

Dimensional drawing

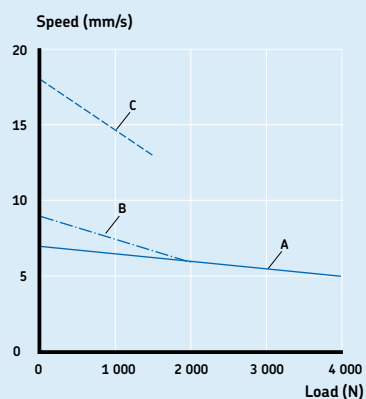


Technical data

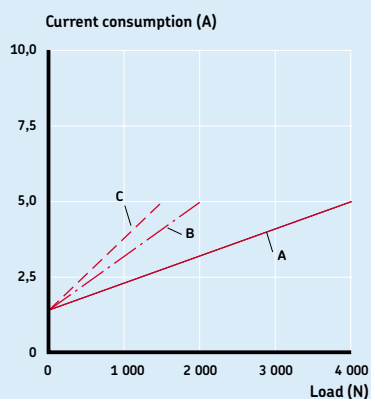
	Unit	MAX 1..A..	MAX 1..B..	MAX 1..C..
Rated push load	N	4 000	2 000	1 500
Rated pull load	N	4 000	2 000	1 500
Speed (full load to no load)	mm/s	5 to 7	6 to 9	12,7 to 18
Stroke	mm	50 to 700	50 to 700	50 to 700
Retracted length	mm	S + 195/260*	S + 195/260*	S + 195/260*
Voltage	V DC	24	24	24
Power consumption	W	120	120	120
Current consumption	A	5	5	5
Duty cycle	%	10 (1/9)	10 (1/9)	10 (1/9)
Ambient temperature	°C	0 to +40	0 to +40	0 to +40
Type of protection	IP	66S	66S	66S
Weight (at 200 mm stroke)	kg	4,0	3,7	3,6
Color	—	Grey	Grey	Grey

* S < 350 mm, L = 195 + S
S > 350 mm, L = 260 + S

Performance diagrams

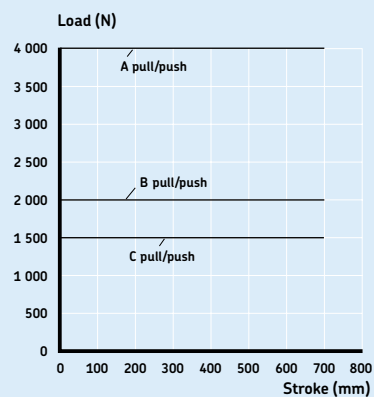


Speed-load diagram

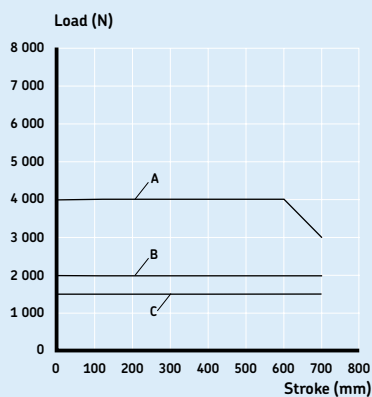


Current-load diagram

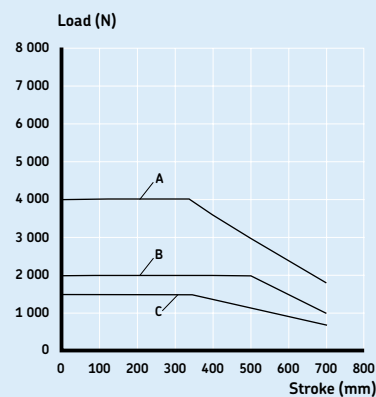
Safety factor load conditions



Push load reduction static
 Safety factor S=1



Push load reduction static
 Safety factor S=2



Push load reduction static
 Safety factor S=4 (EN60601)

Ordering key

MAX1 - [] [] [] [] [] [] A [] [] [] [] [] 000

Type

Voltage:

24 V DC
24 V DC with integrated current cut-off

0
1

Load:

4 000 N
2 000 N
1 500 N

A
B
C

Stroke (S):

50 mm
100 mm
150 mm
200 mm
250 mm
300 mm
350 mm
400 mm
450 mm
500 mm
550 mm
600 mm
650 mm
700 mm

050 245
100 295
150 345
200 395
250 445
300 495
350 545
400 660
450 710
500 760
550 810
600 860
650 910
700 960

Other stroke lengths; 50<S<700 mm

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Cable / Connecting plug:

Coiled, 0,75 m (not stretched) / DIN8 plug
Straight, 2,5 m / DIN8 plug
Special cable length on request

0B
C5
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Orientation of rear attachment:

No fork head (customized option)
Standard (as drawing)
Turned 90°

0
1
2

Option 1:

No option, only valid for actuator "A" (push and pull)
Quick-release +EKZm, push, fork head bore parallel to button (for actuator design "C" is L= +115 mm)*
Quick-release +EKZm, push, fork head bore 90° to button (for actuator design "C" is L= +115 mm)*
Mechanical anti-pinching, motor direction pull, no fixing in term. position (for load "A", L= +45 mm; "B" and "C", L= +30 mm)
Mechanical anti-pinching, motor direction push, no fixing in term. position (for load "A", L= +45 mm; "B" and "C", L= +30 mm)
Push load, for actuator version "B" and "C"
Pull load, for actuator version "B" and "C"

0
E
F
I
J
M
N

EKZm: mechanical anti-pinching

*min. stroke 150 mm up to 300 mm

Option 2:

No option
2-Hall encoder, DIN8 plug
Lifetime monitoring
Lifetime monitoring, 2-Hall encoder, DIN8 plug

0
F
M
P

Option 3:

No option
Emergency lowering, fork head bore parallel to clamping lever (for actuator design "A", L+30 mm)
Emergency lowering, fork head bore 90° to clamping lever (for actuator design "A", L+30 mm)

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V
W

Options shown in italics are only available on demand. Contact SKF for more information on minimum quantities and additional costs.

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