

BALL SCREW LINEAR ACTUATOR

La =Lc + Stroke La = Lc + StrokeLc Stroke Lc Т Т Rear bracket 45.5 91.5 98 Capacitor SP Ø 45 Ø30 3 Piņ Ø10h7 ň Ø Φ Ð 25 Ж Ш 80 108 Ø10F7 Ø10H7 Standard head 1 with threaded 91 hollow bore Attachment A1 Attachment A2 Ф? ΒA 2 f∏ 48 \oplus Ч 1 Ē 1 1 Ø 25 depth 17 Ð æ 27 M12 28 13.5 (brake motor) 12 46 194 220 Ø 110 1. STROKE END SWITCHES BOX AND POTENTIOMETER 2. MOTOR SHAFT EXTENSION for: Attachment A1 Attachment A2 Q Emergency manual activation Stroke end switches and potentiometer adjustment [mm] 239 246 Actuator - Attachment A1 Actuator - Attachment A2 MASS [Kg] STROKE LENGTH LENGTH STROKE т STROKE т standard brake CODE [mm] Lc [mm] La [mm] [mm] Lc [mm] La [mm] [mm] motor motor [mm] C100 100 336 436 300 100 343 443 307 5.3 5.8

OVERALL DIMENSIONS



C150

C200

C300

C400

C500

150

200

300

400

500

386

436

536

636

736

536

636

836

1036

1236

350

400

500

600

700

150

200

300

400

500

393

443

543

643

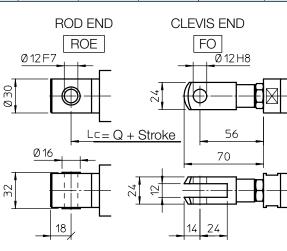
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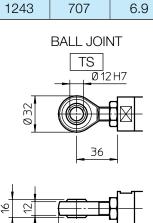
543

643

843

1043





52

357

407

507

607

5.5

5.7

6.1

6.5

6.0

6.2

6.6

7.0

7.4





BALL SCREW LINEAR ACTUATOR

CLB 27

PERFORMANCES AND FEATURES

- Push load up to 7 000 N
- Pull load up to 4 000 N
- Linear speed up to 58 mm/sStandard stroke lengths:
- 100, 150, 200, 300, 400, 500 mm
- Ball screw BS 16 x 5 (technical details on page 66)
- Aluminium alloy housing
- Anodized aluminium outer tube
- Chrome-plated steel push rod
- Rear attachment:
 - A1: zinc-plated steel rod end with bronze bushA2: aluminium alloy with bronze bush
- Standard head BA or rod end ROE in stainless steel AISI 303 with bronze bush
- AC 3-phase or 1-phase motor (motor features details on page 70)
- Duty cycle with max load: 100% over 10 min at (-10 ... +40) °C
- Standard protection IP 55 (IP 54 with brake)
- Standard motor mounting position as per sketch (right-hand, code RH)
- Long-life lubrication, maintenance free

ACCESSORIES

- Different front attachments
- Stainless steel push rod (code SS)
- Rear bracket (code SP) with rear attachment A2
- Mechanical overload protection: safety clutch (code FS)
- Brakemotor
- Adjustable electric stroke end switches (code FC2)
- Adjustable electric stroke end switches, switching off the motor (code FC2X) (not available with AC 3-phase motor)
- Extra switch for intermediate position (code FC)
- Rotative potentiometer 5kOhm for positioning control (code POR5K)

NOTE: Extra limit switch and rotative potentiometer cannot be selected together

OPTIONS

- Motor mounting position on opposite side (left-hand, code LH)
- Fixing attachment turned at 90° (code RPT 90)

Ball screw BS 16 x 5					
	0.09 kW - 4	pole motor	0.12 kW - 2 pole motor		
RATIO	LOAD	SPEED	LOAD	SPEED	
	[N]	[mm/s]	[N]	[mm/s]	
RH1	2160	29	1480	58	
RV1	3260	19	2300	37	
RN1	5990	9.5	4170	19	
RL1	7000	4.5	7000	9.5	

PERFORMANCES with AC 3-phase 50 Hz 230/400 V or 1-phase 50 Hz 230 V motor

Self-locking conditions

Self-locking condition is achievable with brake motor only. Information about statically self-locking conditions with pull or push load on page 68.

ORDERING CODE EXAMPLE

CLB 27	RL1	C200	CA 400 V	FC2	POR 5K				
Actuator	Selected ratio	Required stroke	Motor	Stroke end switches	ļ	Accessorie	S	Opt	ions

Linear-Mec

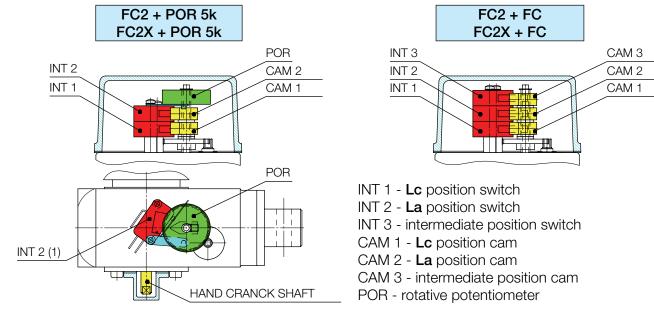
13.4 Electric cam-operated stroke end switches (linear actuators CLA and CLB Series)

Code **FC2**: two electric cam-operated switches, wired on contact NC (to be connected into the external control circuit). On request, the switches can be wired on the contact NO or on the switch-over contact CS. (For available configurations please contact our Technical Dpt).

Code **FC2X**: two electric cam-operated switches, internally wired between power supply and electric motor, in order to switch off the power supply directly, without relays. Available for actuators with Dc or AC 1-phase motor.

Code **FC2 + FC** or **FC2X + FC**: Stroke end switches FC2 or FC2X with a third switch for any intermediate position. The third switch can be wired on contact NC or NO on request. (For different configurations please contact our Technical Dpt).

SWITCH RATED VALUES						
Valtaga	Max current					
Voltage	Resistive load	Inductive load				
250 Vac	21 A	12 A				
30 Vdc	14 A	12 A				
125 Vdc	0.8 A	0.6 A				



Lc = actuator retracted length, La = Lc + Stroke - actuator extended length

13.4 Rotative potentiometer for positioning control (linear actuators CLA and CLB Series)

Code **POR 5k**: rotative potentiometer, single turn (340°), 5 kOhm \pm 20 %, linearity \pm 2 % The rotative potentiometer is an absolute transducer, whose output signal is proportional to the current position of the actuator push rod. Analogic output signal.

Standard cable: 4 x 0.25 mm2 + shield, 1.5 m length (for different configurations please contact us). POR 5k standard wiring diagram:

