

Linear actuator

CAR 40

Benefits

- Industrial reliable and robust actuator
- Wide range of components
- Right- and left-hand version



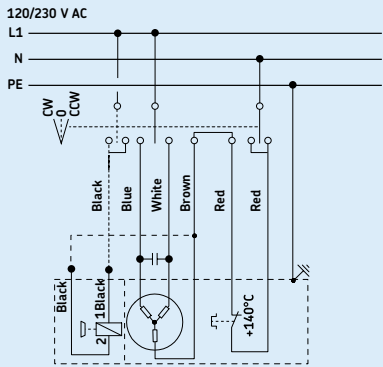
Suitable control units and accessories

		Control unit	Limit switch
		CAEV 110/220	CAXB 40*
	E110D		
	E110DB		
	E220D		
	E220DB		
	CAES 31C		

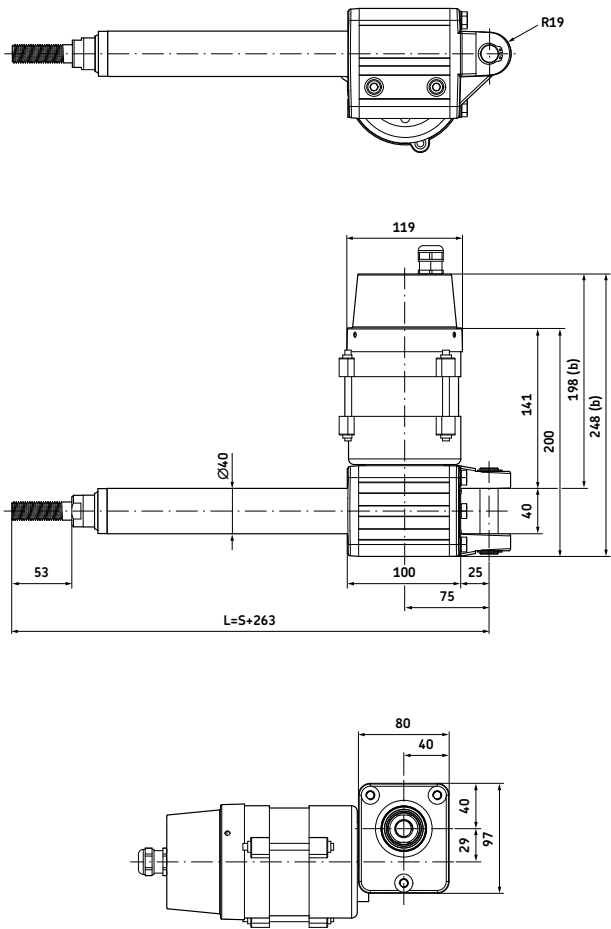
Hand switch
 Foot switch
 Desk switch

* See page 379

Connecting diagram – AC version



Dimensional drawing – AC version



Legend:
S = stroke
L = retracted length
(b) = cover for brake (D24CB)

Technical data

		Unit	CAR 40 – AC version
Rated push load		N	2 000 to 6 000
Rated pull load		N	2 000 to 6 000
Speed (at full load)		mm/s	9 to 40*
Stroke		mm	100 to 700
Retracted length		mm	S+263
Voltage		V AC	120 or 230
Power consumption	120 V AC	W	360
	230 V AC	W	299
Current consumption	120 V AC	A	3 (brake +0,29 A)
	230 V AC	A	1,3 (brake +0,11 A)
Duty cycle		%	40
Ambient temperature		°C	–20 to +70
Type of protection		IP	20/54
Weight		kg	5,8 to 8,4

* Depending on selected motor

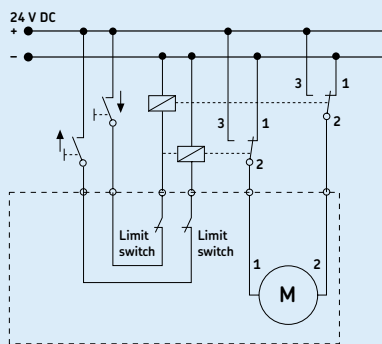
Suitable control units and accessories

	Limit switch
	CAXB 40+
	D24D
	D24DS
	D24DB

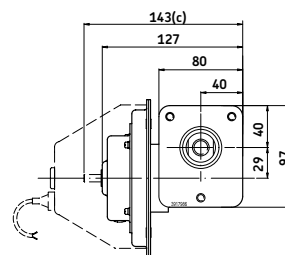
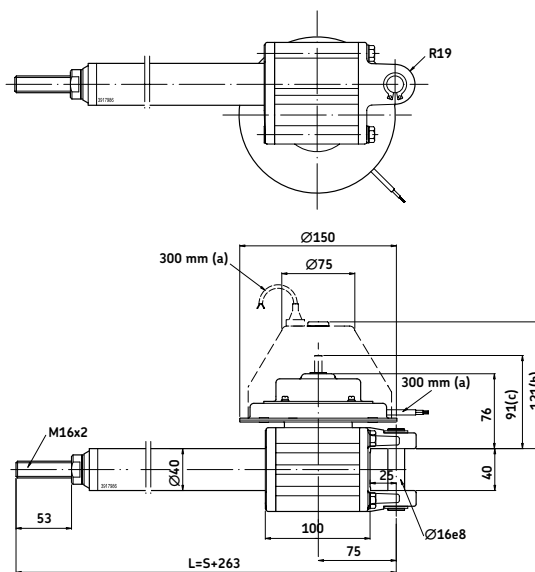
-  Hand switch
-  Foot switch
-  Desk switch

★ See page 379

Connecting diagram – DC version



Dimensional drawing – DC version

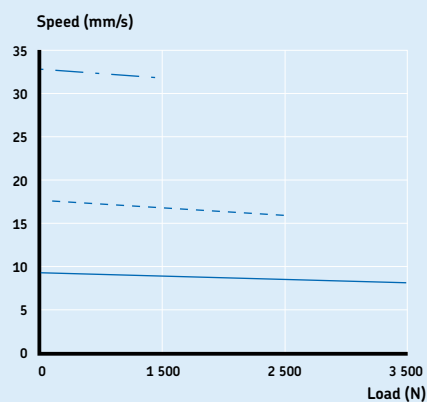


Legend:
 S = stroke
 L = retracted length
 (a) = cable length
 (b) = cover for brake (D24CB)
 (c) = extended shaft (D24CS)

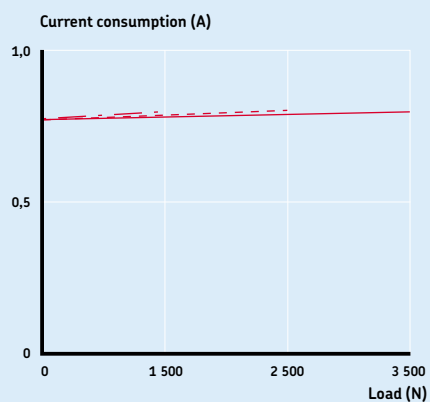
Technical data

	Unit	CAR 40 – DC version
Rated push load	N	2 000 to 6 000
Rated pull load	N	2 000 to 6 000
Speed (full load to no load)	mm/s	10 to 60
Stroke	mm	100 to 700
Retracted length	mm	S+263
Voltage	V DC	24
Power consumption	W	N/A
Current consumption	A	16
Duty cycle	%	25
Ambient temperature	°C	-20 to +70
Type of protection	IP	20/44
Weight	kg	5,8 to 8,4

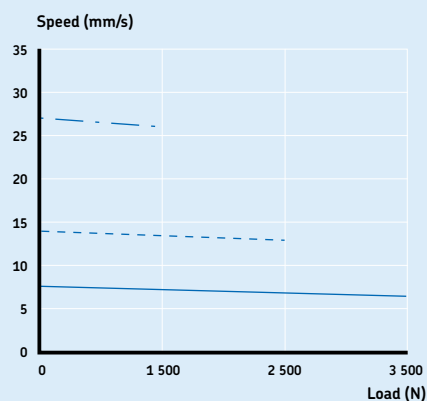
Performance diagrams – AC version



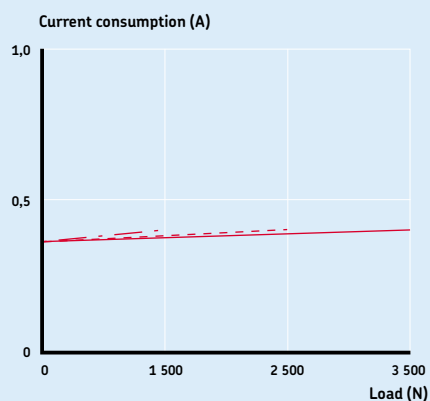
Speed-load diagram CAR 32 ... 120 VAC



Current-load diagram CAR 32 ... 120 VAC



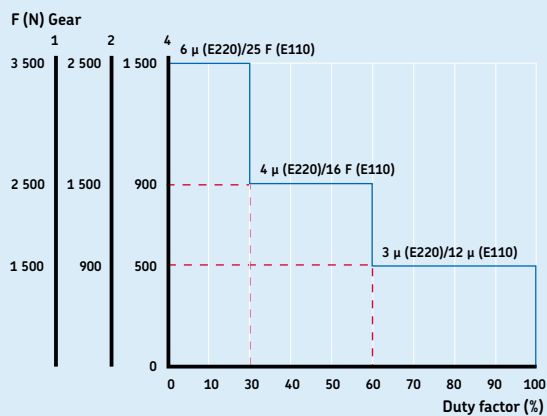
Speed-load diagram CAR 32 ... 230 VAC



Current-load diagram CAR 32 ... 230 VAC

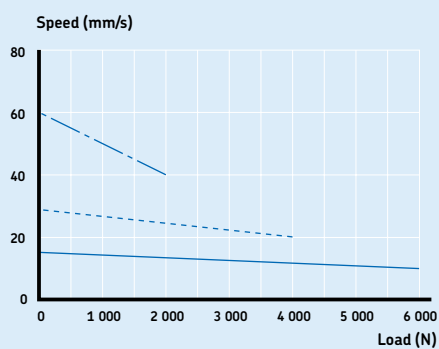
Gear 1 — V (mm/s)
 — I (A)
 Gear 2 - - V (mm/s)
 - - I (A)
 Gear 4 · · V (mm/s)
 · · I (A)

Duty cycle

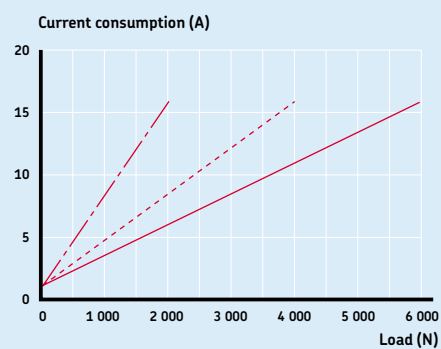


CAR 32 ... 230/120 VAC

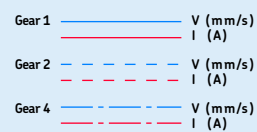
Performance diagrams – DC version



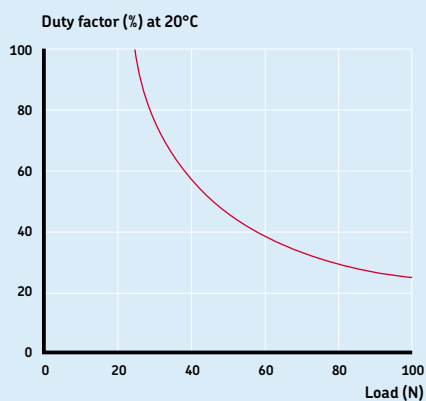
Speed-load diagram CAR 40 ... 24 V DC

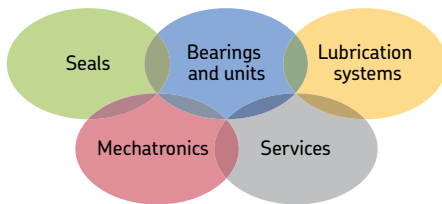


Current-load diagram CAR 40 ... 24 V DC



Duty cycle





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Ordering key

Dynamic load (N) / Speed (mm/s)			Motor options	
6 000/xx	4 000/xx	2 000/xx	No motor	0000
6 000/10	4 000/20	2 000/40	120 V AC/60 Hz, 1-phase, IP54	E110D
6 000/10	4 000/20	2 000/40	120 V AC/60 Hz, 1-phase, brake, IP20	E110DB
6 000/9	4 000/17	2 000/34	230 V AC/50 Hz, 1-phase, IP54	E220D
6 000/9	4 000/17	2 000/34	230 V AC/50 Hz, 1-phase, brake, IP20	E220DB
6 000/xx	4 000/xx	2 000/xx	No motor	0000
6 000/15-10	4 000/30-20	2 000/60-40	24 V DC, flat motor, IP44	D24D
6 000/15-10	4 000/30-20	2 000/60-40	24 V DC, flat motor, extended shaft, IP44	D24DS
6 000/15-10	4 000/30-20	2 000/60-40	24 V DC, flat motor, brake, IP20	D24DB
1	2	4		

Type

Motor assembly:

Right
Left

R
L

Stroke (S):

100 mm
300 mm
500 mm
700 mm

Other stroke lengths

100
300
500
700

Option:

Friction clutch
Back-up nut

F
S

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

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