

Linear actuator

CAT 32B

Benefits

- Compact
- Robust
- Modular
- Lubricated for service life
- High efficiency
- Digital encoder feedback



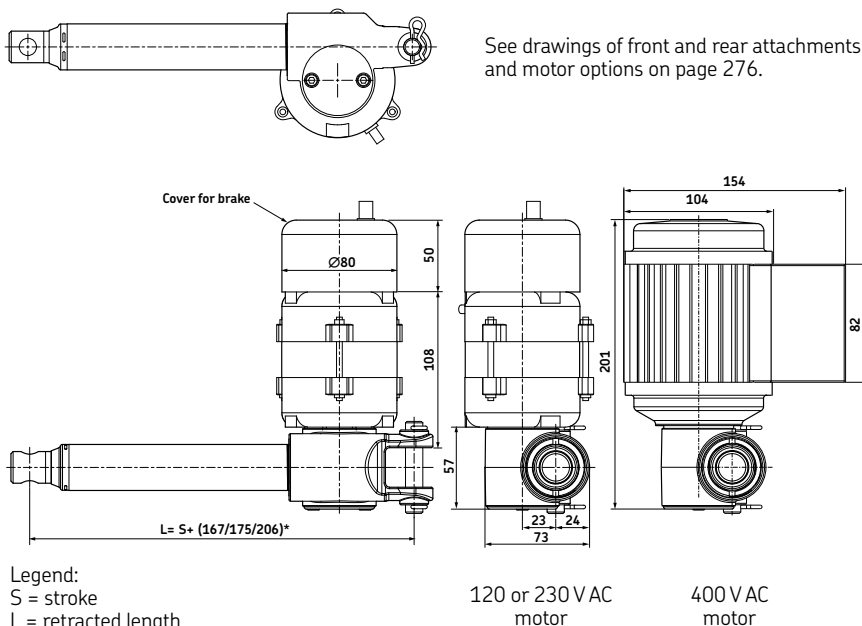
Suitable control units and accessories

	Control unit	Limit switch	Encoder
	CAEV 110/220	CAXB 32B ¹⁾	E2 ²⁾
E110C	•	•	•
E110CB	•	•	•
E220C	•	•	•
E220CB	•	•	•
E380C	•	•	•
CAES 31C	•		

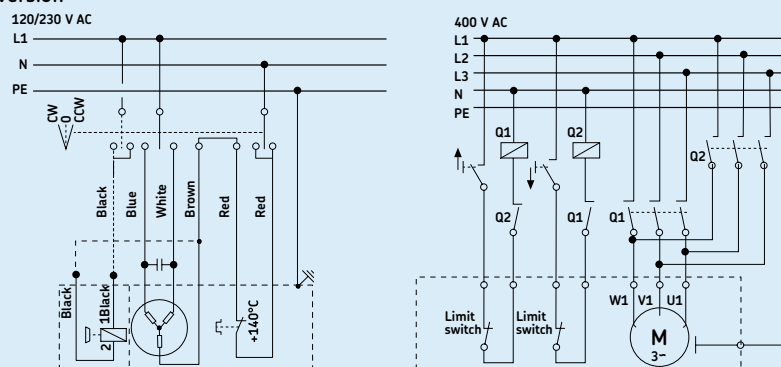
- Hand switch
- Foot switch
- Desk switch

¹⁾See page 379
²⁾See page 380

Dimensional drawing – AC version



Connecting diagrams – AC version



Technical data

	Unit	CAT 32B – AC version
Rated push load	N	1 500 to 3 500
Rated pull load	N	1 500 to 3 500
Speed (at full load)	mm/s	6,5 to 32 ¹⁾
Stroke	mm	50 to 700
Retracted length	mm	S+167/175/206 ²⁾
Voltage	V AC	120, 230 or 400
Power consumption	120 V AC W	98 (brake 133,2 W)
	230 V AC W	92 (brake 117,3 W)
	400 V AC W	80
Current consumption	120 V AC A	0,82 (brake +0,29 A)
	230 V AC A	0,4 (brake +0,11 A)
	400 V AC A	0,2
Duty cycle	%	30
Ambient temperature	°C	-20 to +50
Type of protection	IP	20/54/55
Weight	kg	2 to 3,5

¹⁾ Depending on selected motor
²⁾ Dimension depends on selected front attachment

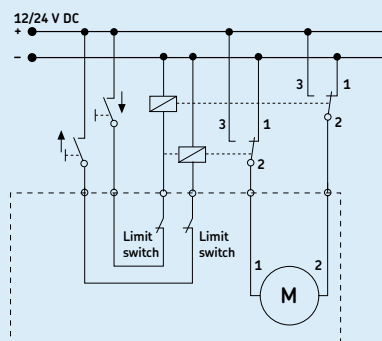
Suitable control units and accessories

	Control units	Limit switch	Encoder
	CAED 5-24R	CAED 9-24R	CAXB 32B ¹⁾
			E2 ²⁾
C12C		•	•
D12C		•	•
C24C	•	•	•
C24CW	•	•	•
D24C	•	•	•
D24CB	•	•	•
D24CS	•	•	•
D24CW	•	•	•
CAES 31C	•		

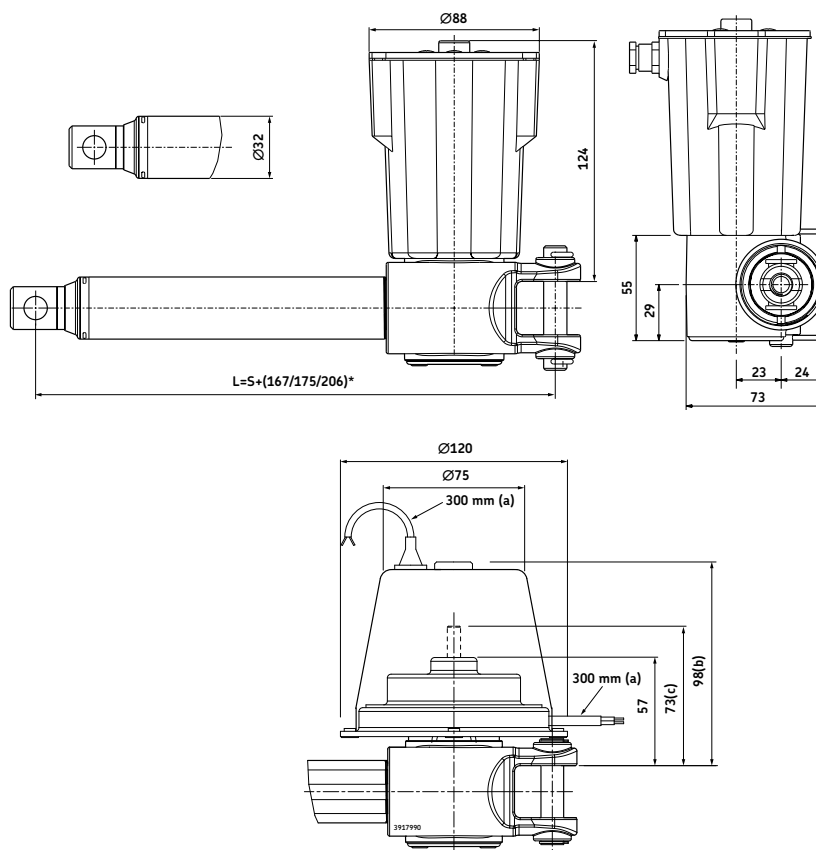
-  Hand switch
-  Foot switch
-  Desk switch

- ¹⁾ See page 379
²⁾ See page 380

Connecting diagram – DC version



Dimensional drawing – DC version



D12C, D24C, D24CB, D24CS, D24CW

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

See drawings of front and rear attachments and motor options on page 276.

* Dimension depends on selected front attachment

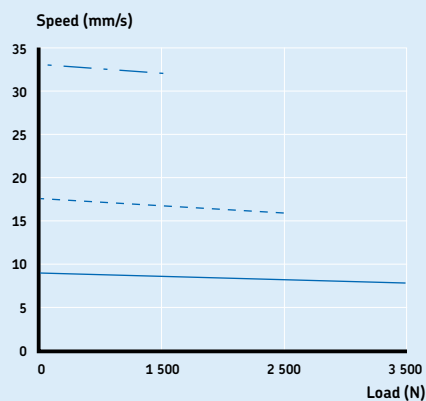
Technical data

	Unit	CAT 32B – DC version
Rated push load	N	1 000 to 4 000
Rated pull load	N	1 000 to 4 000
Speed (full load to no load)	mm/s	5 to 52 ¹⁾
Stroke	mm	50 to 700
Retracted length	mm	S+167/175/206 ²⁾
Voltage	V DC	12 or 24
Power consumption	W	N/A
Current consumption	12 V DC	18
	24 V DC	9
	24 V DC	5 (for motors C24CW and D24CW)
Duty cycle	%	20
Ambient temperature	°C	-20 to +50
Type of protection	IP	20/44/65
Weight	kg	2 to 3,5

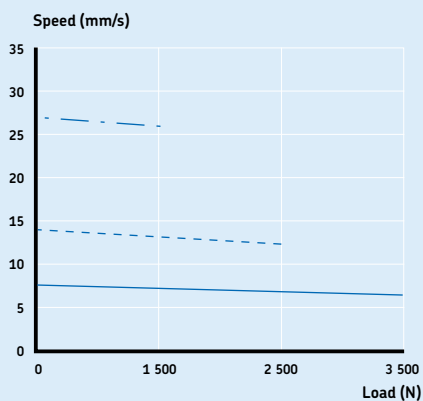
¹⁾ Depending on selected motor

²⁾ Dimension depends on selected front attachment

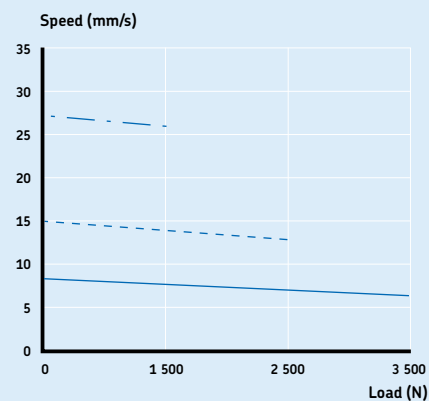
Performance diagrams – AC version



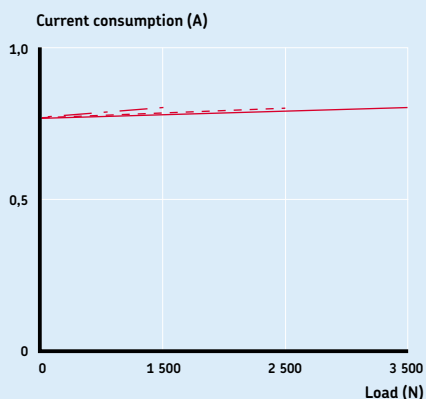
Speed-load diagram CAT 32B ... 120 VAC



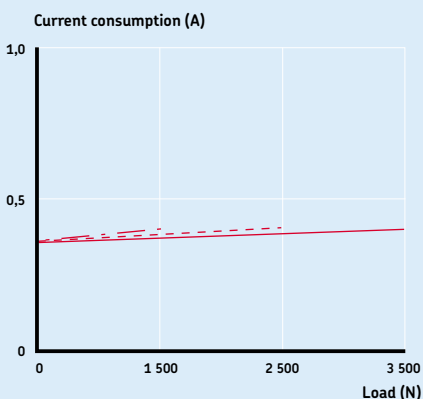
Speed-load diagram CAT 32B ... 230 VAC



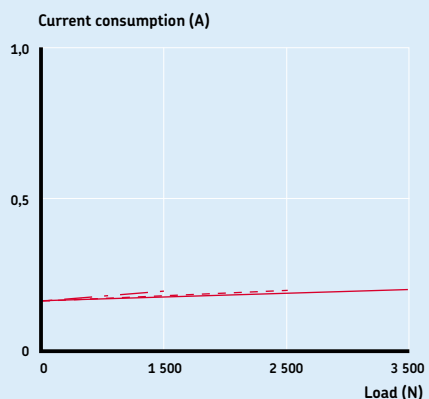
Speed-load diagram CAT 32B ... 400 VAC



Current-load diagram CAT 32B ... 120 VAC



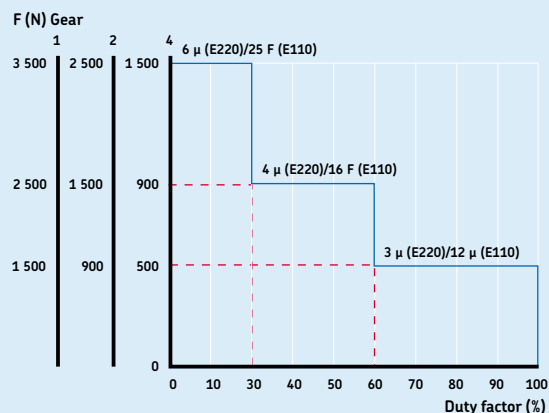
Current-load diagram CAT 32B ... 230 VAC



Current-load diagram CAT 32B ... 400 VAC

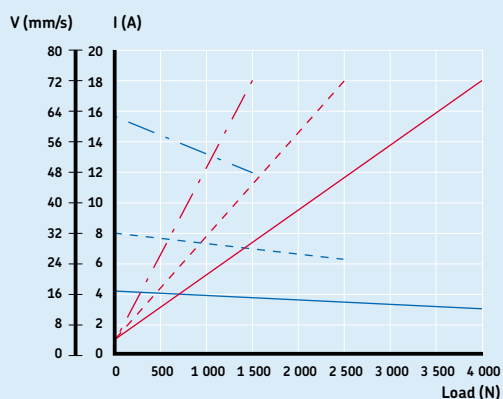
Gear 1 — V (mm/s)
— I (A)
Gear 2 - - - V (mm/s)
- - - I (A)
Gear 4 . . . V (mm/s)
- - - I (A)

Duty cycle

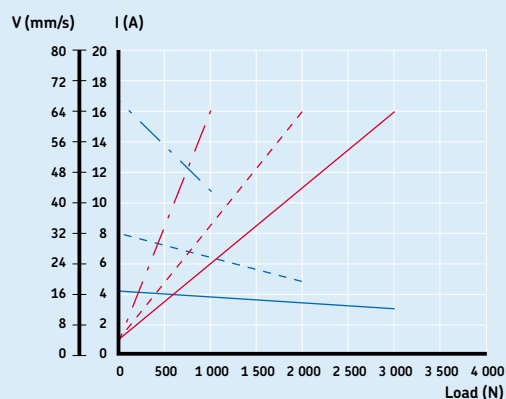


CAT 32B ... 230/120 VAC

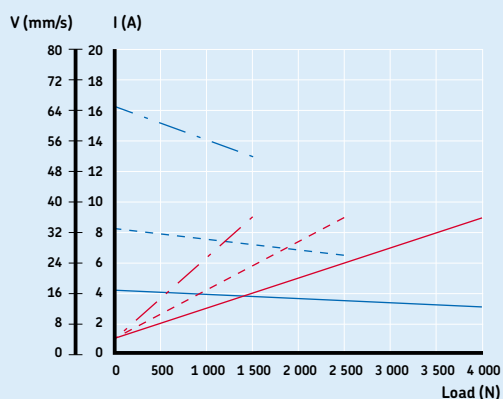
Performance diagrams – DC version



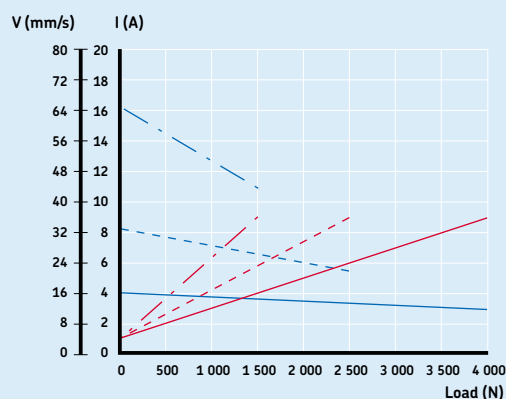
CAT 32B.../C12C



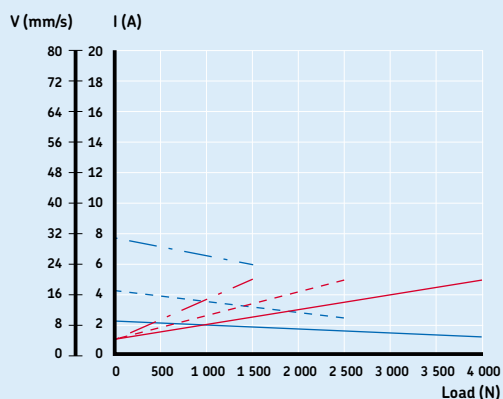
CAT 32B.../D12C



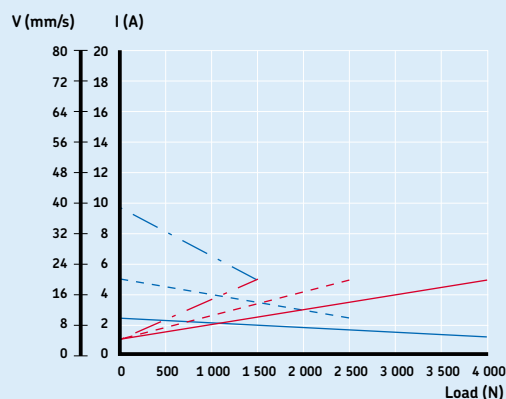
CAT 32B.../C24C



CAT 32B.../D24C/D24CB/D24CS



CAT 32B.../C24CW



CAT 32B.../D24CW

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

Ordering key

Dynamic load (N) / Speed (mm/s)			Motor options	
4 000/xx	2 500/xx	1 500/xx	No motor	0000
3 500/8	2 500/16	1 500/32	120 V AC/60 Hz, 1-phase, IP54	E110C
3 500/8	2 500/16	1 500/32	120 V AC/60 Hz, 1-phase, brake, IP20	E110CB
3 500/6,5	2 500/13	1 500/26	230 V AC/50 Hz, 1-phase, IP54	E220C
3 500/6,5	2 500/13	1 500/26	230 V AC/50 Hz, 1-phase, brake, IP20	E220CB
3 500/7	2 500/14	1 500/28	400 V AC/50 Hz, 3-phase, IP55	E380C
4 000/xx	2 500/xx	1 500/xx	No motor	0000
4 000/17-12	2 500/32-25	1 500/63-48	12 V DC, IP44 (65)	C12C
3 000/17-11	2 000/34-19	1 000/67-43	12 V DC, flat motor, IP44	D12C
4 000/17-13	2 500/33-26	1 500/65-52	24 V DC, IP44 (65)	C24C
4 000/9-5	2 500/17-10	1 500/31-24	24 V DC, low speed motor, IP44 (IP65)	C24CW
4 000/16-12	2 500/33-22	1 500/65-44	24 V DC, flat motor, IP44	D24C
4 000/16-12	2 500/33-22	1 500/65-44	24 V DC, flat motor, brake, IP20	D24CB
4 000/16-12	2 500/33-22	1 500/65-44	24 V DC, flat motor, ext.shaft, IP44	D24CS
4 000/10-5	2 500/20-10	1 500/39-20	24 V DC, flat motor, low speed, IP44	D24CW
1	2	4		

CAT 32BX /

Type

Motor assembly:

Right
Left

RL

Stroke (S):

50 mm
100 mm
200 mm
300 mm
400 mm
500 mm
700 mm

050
100
200
300
400
500
700

Other stroke lengths

700
- - -

Rear attachment (see page 276):

Fork ear, Ø=12,0 mm
Fork ear, Ø=12,7 mm
Single ear, Ø=12,0 mm
Single ear, Ø=12,7 mm

A1
A2
K1
K2

Front attachment (see page 276):

Hole, $\varnothing=12,0$ mm
Hole, $\varnothing=12,7$ mm
Male thread, M12
Female thread, M12
Fork ear, $\varnothing=10,1$ mm

G1
G2
G3
G4
G5

Feedback:

No encoder (no code)
Encoder (for all standard motors)

E2

Option:

Friction clutch (not available with option encoder)
No friction clutch
Back-up nut

F
Z
S

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

