

Linear actuator CARE 33

Benefits

- Silent operation
- Multiple speed/load variants
- Easy to adjust limit switches
- Different attachment options
- Digital encoder feedback



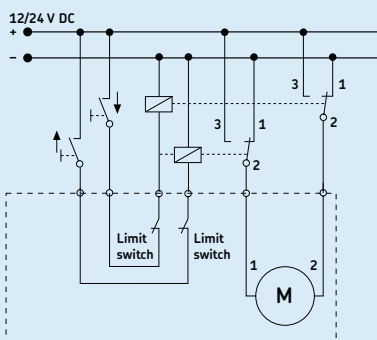
Suitable control units and accessories

Control units						Limit switch	Feed-back
	VCU 5	VCU 8	VCU 9	BCU 5	BCU 8	CAED 5-24R	
CARE 33A 24V	•	•	•	•	•	•	•
CARE 33M 24V	•	•	•	•	•	•	•
CARE 33H 24V	•	•	•	•	•	•	•
CAES 31C	•	•	•	•	•	•	•
EHA 3	•	•	•	•	•	•	•
STJ	•	•	•	•	•	•	•
STE	•	•	•	•	•	•	•

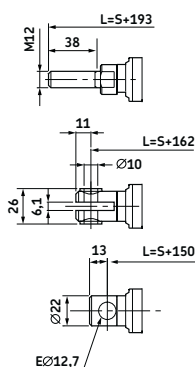
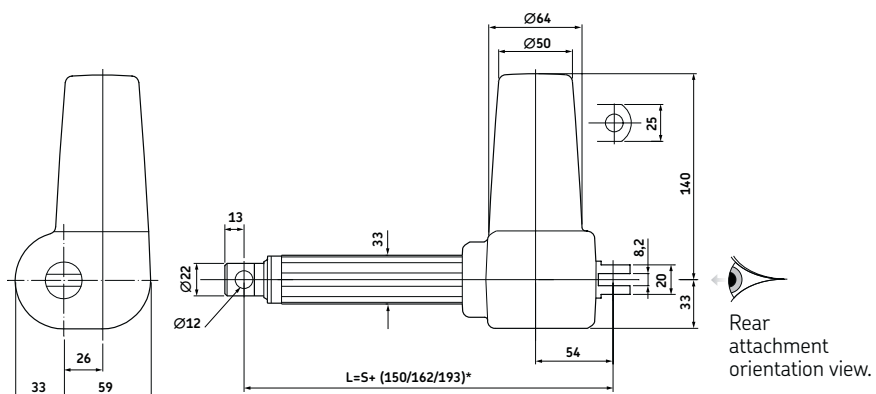
 Hand switch
 Foot switch
 Desk switch

¹⁾ See page 378
²⁾ See page 381

Connecting diagram



Dimensional drawing



* Dimension depends on selected front attachment

Legend:
 S = stroke
 L = retracted length

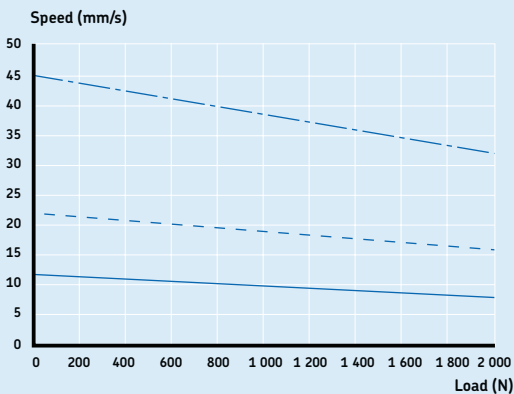
Technical data

	Unit	CARE 33A	CARE 33M	CARE 33H
Rated push load	N	2 000	1 400	800
Rated pull load	N	2 000	1 400	800
Speed (full load to no load)	mm/s	8 to 12 ¹⁾	16 to 22 ¹⁾	32 to 45 ¹⁾
Stroke	mm	50 to 300	50 to 500	50 to 500
Retracted length	mm	S+150/162/193 ²⁾	S+150/162/193 ²⁾	S+150/162/193 ²⁾
Voltage	V DC	24	24	24
Power consumption	W	N/A	N/A	N/A
Current consumption	A	3,5	3,5	3,5
Duty cycle	%	15	20	30
Ambient temperature	°C	-10 to +50	-10 to +50	-10 to +50
Type of protection	IP	44/65	44/65	44/65
Weight	kg	1,5 to 2,0	1,5 to 2,0	1,5 to 2,0
Color	—	Black	Black	Black

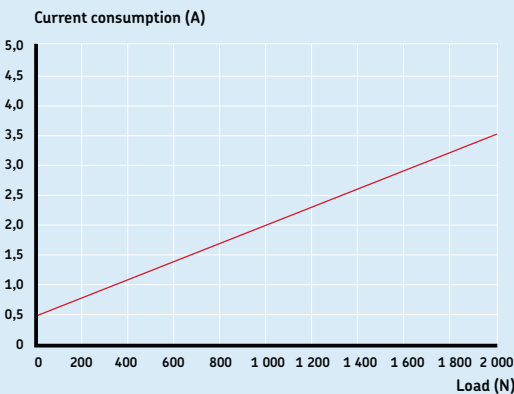
¹⁾ Depending on selected motor

²⁾ Dimension depends on selected front attachment

Performance diagrams



Speed-load diagram



Current-load diagram

A ——— V (mm/s)
M - - - - V (mm/s)
H ····· V (mm/s)
——— I (A)

Ordering key

	C	A	R	E	3	3													
Type																			
Load:																			
2 000 N																			
1 400 N																			
800 N																			
Stroke (S):																			
50 mm																			
100 mm																			
150 mm																			
200 mm																			
300 mm																			
400 mm (not possible for CARE 33A)																			
500 mm (not possible for CARE 33A)																			
Other stroke lengths																			
Front attachment:																			
Hole, Ø=12,0 mm																			
Hole, Ø=12,7 mm																			
Hole 10 mm, slot 6,1 mm (retracted length, L=S+162 mm)																			
Male thread M12 (retracted length, L=S+193 mm)																			
Rear attachment:																			
Hole, Ø=12,0 mm																			
Hole, Ø=12,7 mm																			
Hole, Ø=8,0 mm																			
Hole, Ø=10,0 mm																			
Type of protection:																			
IP65																			
IP44																			
Feedback:																			
No option																			
2-Hall encoder																			
Cable/Connection plug:																			
Straight, 2,0 m, no plug																			
Coiled, 2,0 m, jack plug																			
Straight, 2,0 m, DIN 8 plug (for 2-Hall encoder)																			
Straight, 2,0 m, jack plug																			
Straight, 2,5 m, DIN8 plug BCU/VCU (ONLY available for CARE 33A)																			
Orientation of rear attachment:																			
0°																			
15° clockwise																			
30° clockwise																			
45° clockwise																			
60° clockwise																			
75° clockwise																			
90° clockwise																			
105° clockwise																			
120° clockwise																			
130° clockwise																			
150° clockwise																			
165° clockwise																			
Voltage:																			
24 V DC																			
Self locking feature (mandatory when selecting load version "H" or "M"):																			
No self locking required																			
Self locking for pull load																			
Self locking for push load																			

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