

# The CARE 33 Linear Actuators

The CARE 33 is a reliable, compact, and cost effective 24 V d.c. actuator, designed for intermittent use and dynamic loads up to 2000 N.

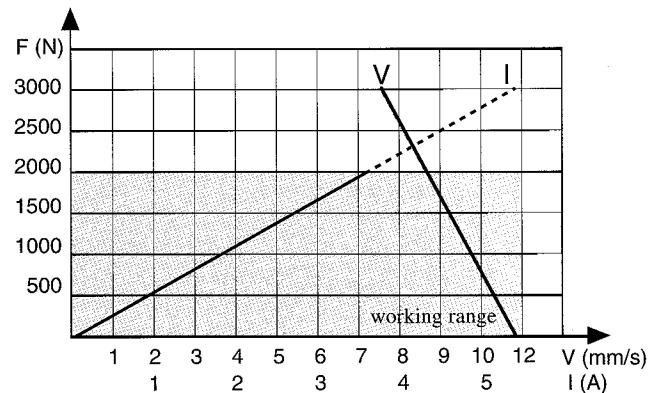
The virtually silent operation, low current consumption, and consideration taken of safety issues in its design make it particularly suitable for solving a large number of positioning needs in equipment for the elderly and disabled as well as for many industrial applications. Potentially dangerous stresses in the gear box housing are reduced to a minimum by a unique design of the drive train. The gear box is allowed to float so that the load path passes directly through a support bearing located in the rear attachment. This design offers a long operational life and minimises the transmitted noise level.

Collapse of the actuator following catastrophic failure of the main driving nut when exerting pushing loads is prevented by a metal back up nut.

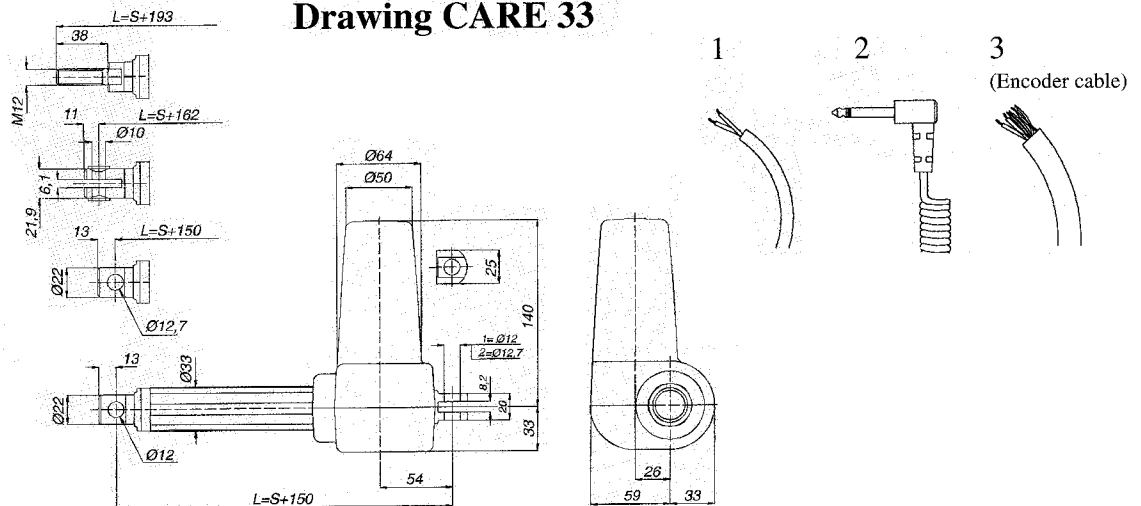
The motor is capable of generating greater torque than required to produce the rated thrust. This 'safety factor' ensures that the actuator can achieve an optimum operational life. The use of a current limited control circuit will protect the actuator from dynamic overload and also protect the motor from premature failure. The CARE 33 can be configured to meet individual application requirements. Front attachment type, rear attachment orientation, stroke lengths, cable types, etc., can all be selected in accordance with the ordering key below.

## Technical data

Dynamic load:	2000 N max., see diagram
Static load:	6000 N max.
Linear speed:	see diagram
Supply voltage:	24 Vd.c.
Power consumption:	3.5 A at max. dyn. load
Duty factor:	30% at max. dyn. load
Protection class:	IP54, IP65 optional
EMC standard:	EN 50081-1



## Drawing CARE 33



## Ordering Key

Description	CARE 33	A	100	1	1	0	0	1	0	0	120	24
Pos.	1	2	3	4	5	6	7	8	9	10	11	12
<b>Pos. 1: Actuator type</b>	CARE 33											
<b>Pos. 2: Screw</b>		A=12 x 3										
		B=12,7 x 12,7										
<b>Pos. 3: Stroke length</b>		(100-150-200-300 mm)										
<b>Pos. 4: Front attachment</b>		See drawing										
<b>Pos. 5: Rear attachment</b>		See drawing										
<b>Pos. 6: IP class</b>		0=IP 54										
		1=IP 65										
<b>Pos. 7: Feed back</b>		0=No option										
		1=Encoder										
<b>Pos. 8: Cable</b>		See drawing										
<b>Pos. 9-10: Customised information</b>		Specific customised information										
<b>Pos. 11: Orientation rear attachment</b>		0-165 degrees in steps of 15°, clockwise. (Orientation shows 0°)										
<b>Pos. 12: Motor voltage</b>												

*If incorrectly used, an actuator can be unsafe. Consult SKF for application support.*