

# CARE 33



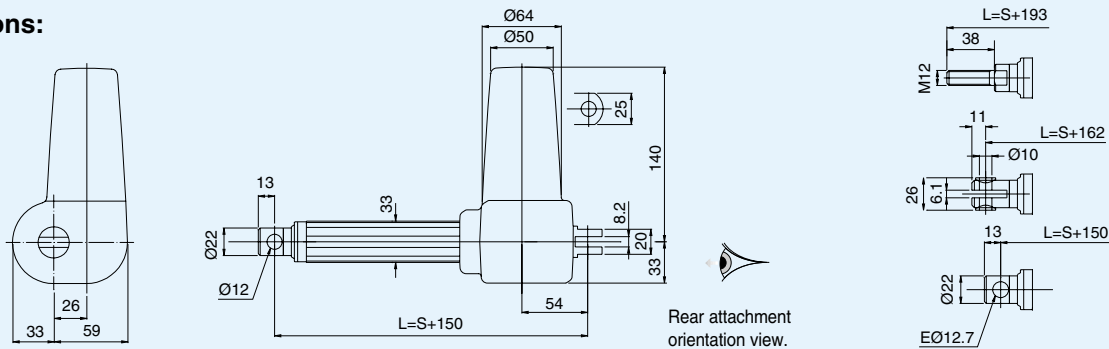
# CARE 33 Actuator Systems

The CARE 33 actuator system has primarily been designed and developed for Health Care & Ergonomic applications. Efficient design allows the CARE 33 actuators a high dynamic load capacity, silent operation and low current consumption. The safety features of the 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 ergonomic and/or industrial applications. The gearbox 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 minimizes the transmitted noise level. Design options are available to optimize safety in applications. The CARE 33 actuator system offers a wide range of extra

features such as power saving, overload protection, transformer cut-off, infrared remote control and CAXC limit switches. Since the motor is capable of generating greater torque than required to produce the rated thrust, our selected control units are configured to ensure proper function.



## Dimensions:



Technical data:	CARE 33A	CARE 33M	CARE 33H
Max. dynamic load:	2000N	1400N	800N
Max. static load:	6000N	3000N	3000N
Stroke length:	50-300mm	50-500mm	50-500mm
Speed:	8-12mm/sec.	16-22mm/sec.	32-45mm/sec.
Mains supply voltage:	12Vd.c. or 24Vd.c.	12Vd.c. or 24Vd.c.	12Vd.c. or 24Vd.c.
Max. power consumption:	12Vd.c./8A, 24Vd.c./3,5A	12Vd.c./8A, 24Vd.c./3,5A	12Vd.c./8A, 24Vd.c./3,5A
Duty factor:	20% at 2000N	20% at 1400N	20% at 800N
Cable:	Coiled or straight, 2.0m	Coiled or straight, 2.0m	Coiled or straight, 2.0m
Connection plug:	DIN 8-pole (VIF/xxx) Phono plug (CAFxxx)	DIN 8-pole (VIF/xxx) Phono (CAFxxx)	DIN 8-pole (VIF/xxx) Phono (CAFxxx)
No connector:	6 lead cable for encoder 2 lead cable (CAEDxxx)	6 lead cable for encoder 2 lead cable (CAEDxxx)	6 lead cable for encoder 2 lead cable (CAEDxxx)
Encoder:	Hall-effect element	Hall-effect element	Hall-effect element
Protection class:	IP44 or IP65	IP44 or IP65	IP44 or IP65
Housing material:	Polyamide PA-6	Polyamide PA-6	Polyamide PA-6
Manufactured acc. to:	EN 55 014, EN 55 011	EN 55 014, EN 55 011	EN 55 014, EN 55 011

Accessories:	CAF	CAED	VIF	CAXC
Suitable controls:				
CAF C 03				
CAED 3-24R				
VIF/MCT				
VIF/SCT				
Limit switches:				
CAXC 33				
	4921E	4838E	4881E	4963E

# Ordering key CARE 33

C	A	R	E	3	3													
<b>Screw</b>																		
low lead						A												
medium lead						M												
high lead						H												
<b>Stroke length (CARE33A max 300mm)</b>																		
50mm							050											
100mm							100											
150mm							150											
200mm							200											
300mm							300											
400mm							400											
500mm							500											
xxxmm							xxx											
<b>Front attachment</b>																		
hole 12mm								1										
hole 12.7mm								2										
hole 10mm, slot 6.1mm (retracted length, L=S+162mm)								3										
male thread M12x38 (retracted length, L=S+193mm)								4										
<b>Rear attachment</b>																		
hole 12mm									1									
hole 12.7mm									2									
hole 8mm									3									
hole 10mm									4									
<b>Protection class</b>																		
IP65										1								
IP44										2								
<b>Feed back</b>																		
no option											0							
encoder											1							
<b>Cable / connection plug</b>																		
straight, no connector												1						
coiled, phono plug												2						
straight, no connector (6 lead cable for 2-channel encoder)												3						
straight, phono plug												5						
straight, DIN 8-pole plug (for 1-channel encoder)												6						
straight, DIN 8-pole plug												7						
<b>Orientation of rear attachment</b>																		
0° (this orientation is shown on page 2)																000		
15° clockwise																015		
30° "																030		
45° "																045		
60° "																060		
75° "																075		
90° "																090		
105° "																105		
125° "																120		
135° "																135		
150° "																150		
165° "																165		
<b>Motor voltage</b>																		
24Vd.c.																	24	
12Vd.c.																	12	
<b>Self locking feature (necessary when selecting screw type "H" or "M")</b>																		
no self locking required																		0
self locking for pulling load																		1
self locking for pushing load																		2

The specifications and data in this publication are believed to be accurate and reliable. However, it is the responsibility of the product user to determine the suitability of all products selected for a specific application. Consult SKF for application support. The right is reserved to make changes without prior notice.



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### Austria

#### Linear Motion

SKF Österreich AG  
Phone: +43 22 36 6709-0  
Fax: +43 22 36 6709-270

### Benelux

#### SKF Multitec Benelux B.V.

Phone: +31 30 6029029  
Fax: +31 30 6029028  
Phone sales: +31 30 6029039  
Phone distributors: +31 30 6029049  
From Belgium/Luxembourg:  
Phone: +32 2 5024270  
Fax: +32 2 5027336

### France

#### SKF Equipements

Phone: +33 1 30 64 28 28  
Fax: +33 1 30 64 41 31

[www.linearmotion.skf.com](http://www.linearmotion.skf.com)

### Germany

#### SKF Linearsysteme GmbH

Phone: +49 9721 657-0  
Fax: +49 9721 657-111

### Italy

#### SKF Multitec S.p.A

Phone: +39 011 57 17 61  
Fax: +39 011 571 76 33

### Spain

#### SKF Productos Industriales S.A

Phone: +34 93 3 77 99 77  
+34 93 3 77 99 07  
Fax: +34 93 4 74 20 39

### Switzerland

#### Linear Motion & Precision Technologies

Phone: +41 1 825 81 81  
Fax: +41 1 825 82 82

### Nordic Area

#### SKF Multitec Sweden

Phone: +46 42 25 35 00  
Fax: +46 42 25 35 45/46

#### Norway, Sales Office

Phone: +47 22 30 71 70  
Fax: +47 22 30 28 14

#### Denmark Sales Office

Phone: +45 65 92 77 77  
Fax: +45 65 92 74 77

#### Finland Sales Office

Phone: +358 94 52 97 54  
Fax: +358 94 22 77 65

### United Kingdom

#### SKF Engineering Products Ltd.

Phone: +44 1582 490049  
Fax: +44 1582 496574

### USA

#### SKF Motion Technologies

Phone: +1 610 861-4800  
Fax: +1 610 861-4811

