

Linear actuator

CAHM-35

Benefits

- Modular
- Robust
- Reliable
- High speed and/or high load
- All metal design



Picture CAHM-3510-BN0300-A2-F00



Technical data

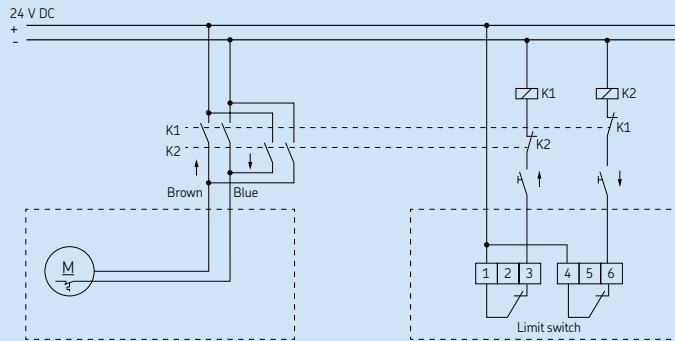
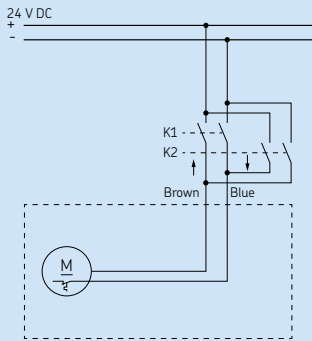
	Unit	CAHM-3507-LS0XXX-D2	CAHM-3510-LS0XXX-D2	CAHM-3520-LS0XXX-D2	CAHM-3540-LS0XXX-D2	CAHM-3510-BN0XXX-D2	CAHM-3520-BN0XXX-D2	CAHM-3540-BN0XXX-D2
Motor	–	D2	D2	D2	D2	D2	D2	D2
Voltage	V DC	24	24	24	24	24	24	24
Screw type	–	LS	LS	LS	LS	BN	BN	BN
Rated push load	N	10 000	12 000	15 000	15 000	10 000	13 000	15 000
Rated pull load	N	10 000	12 000	15 000	15 000	10 000	13 000	15 000
Speed (at full load)	mm/s	14	11	5	3	27	15	8
Stroke	mm	100 to 700	100 to 700	100 to 700	100 to 700	100 to 700	100 to 700	100 to 700
Power consumption	W	840	840	768	528	720	672	–
Current consumption	A	35	35	32	22	30	28	–
Duty cycle	%	10 (1/9)	10 (1/9)	10 (1/9)	10 (1/9)	10 (1/9)	10 (1/9)	10 (1/9)
Ambient temperature	°C	-10 to +40	-10 to +40	-10 to +40	-10 to +40	-10 to +40	-10 to +40	-10 to +40
Type of protection	IP	54	54	54	54	54	54	54
Weight (at 200 mm stroke)	kg	14,6	14,6	14,6	14,6	14,6	14,6	14,6
Color	–	Silver	Silver	Silver	Silver	Silver	Silver	Silver

	Unit	CAHM-3507-LS0XXX-A4	CAHM-3510-LS0XXX-A4	CAHM-3520-LS0XXX-A4	CAHM-3540-LS0XXX-A4	CAHM-3507-BN0XXX-A4	CAHM-3510-BN0XXX-A4	CAHM-3520-BN0XXX-A4	CAHM-3540-BN0XXX-A4
Motor	–	A4	A4	A4	A4	A4	A4	A4	A4
Voltage	V AC	3x400	3x400	3x400	3x400	3x400	3x400	3x400	3x400
Screw type	–	LS	LS	LS	LS	BN	BN	BN	BN
Rated push load	N	10 000	12 000	15 000	15 000	10 000	12 000	15 000	15 000
Rated pull load	N	10 000	12 000	15 000	15 000	10 000	12 000	15 000	15 000
Speed (at full load)	mm/s	10	7	4	2	25	18	11	5
Stroke	mm	100 to 700	100 to 700	100 to 700	100 to 700	100 to 700	100 to 700	100 to 700	100 to 700
Power consumption	W	920	800	700	500	920	800	750	600
Current consumption	A	1,8	1,7	1,6	1,4	1,8	1,7	1,6	1,5
Duty cycle	%	25 (2,5/7,5)	10 (1/9)	10 (1/9)	10 (1/9)	25 (2,5/7,25)	10 (1/9)	10 (1/9)	10 (1/9)
Ambient temperature	°C	-10 to +40	-10 to +40	-10 to +40	-10 to +40	-10 to +40	-10 to +40	-10 to +40	-10 to +40
Type of protection	IP	54	54	54	54	54	54	54	54
Weight (at 200 mm stroke)	kg	14,6	14,6	14,6	14,6	14,6	14,6	14,6	14,6
Color	–	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver

	Unit	CAHM-3507-LS0XXX-A2	CAHM-3510-LS0XXX-A2	CAHM-3520-LS0XXX-A2	CAHM-3540-LS0XXX-A2
Motor	–	A2	A2	A2	A2
Voltage	V AC	230	230	230	230
Screw type	–	LS	LS	LS	LS
Rated push load	N	5 000	7 000	10 000	15 000
Rated pull load	N	5 000	7 000	10 000	15 000
Speed (at full load)	mm/s	12	8	4	2
Stroke	mm	100 to 700	100 to 700	100 to 700	100 to 700
Power consumption	W	700	710	710	750
Current consumption	A	3,3	3,5	3,5	3,5
Duty cycle	%	15 (1,5/8,5)	10 (1/9)	10 (1/9)	10 (1/9)
Ambient temperature	°C	-10 to +40	-10 to +40	-10 to +40	-10 to +40
Type of protection	IP	54	54	54	54
Weight (at 200 mm stroke)	kg	14,6	14,6	14,6	14,6
Color	–	Silver	Silver	Silver	Silver

Connecting diagrams

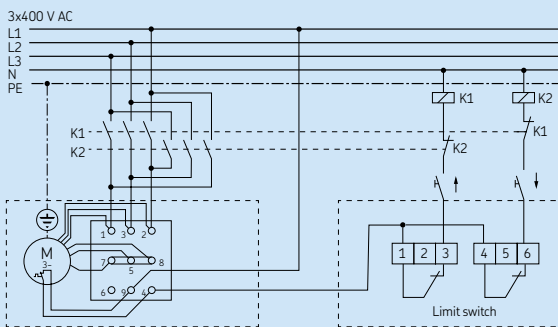
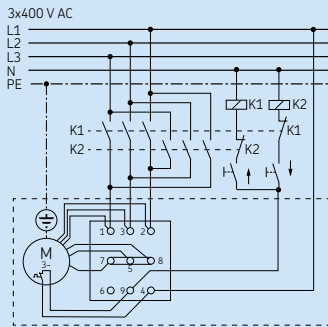
Motor:
D2 - 24 V DC



Option 2:
L - Limit switch

Connecting diagrams

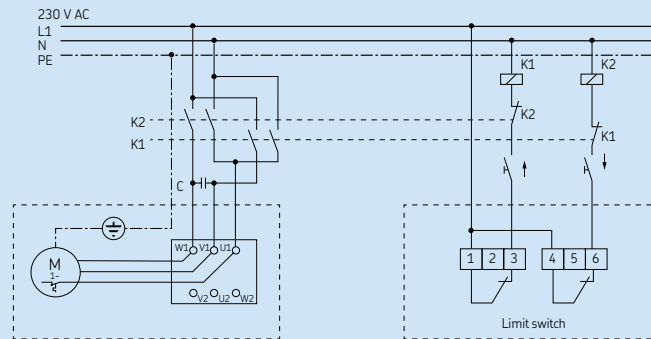
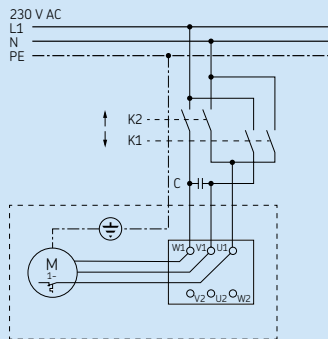
Motor:
A4 - 3x400 V AC



Option 2:
L - Limit switch

Connecting diagrams

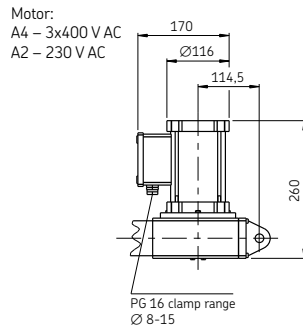
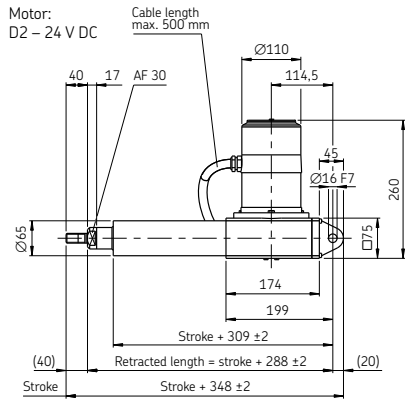
Motor:
A2 - 230 V AC



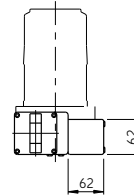
Option 2:
L - Limit switch

CAHM-35

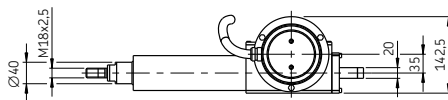
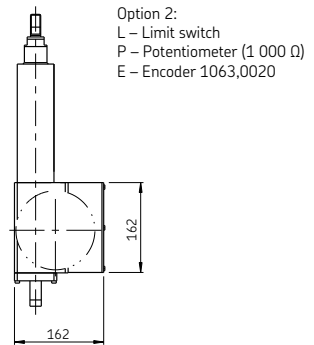
Dimensional drawing



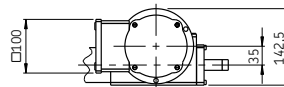
Rear view



Top view

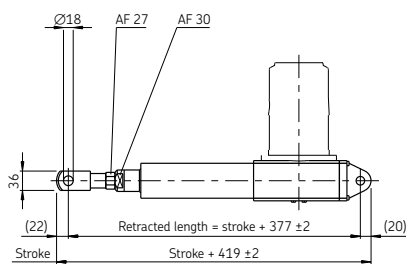
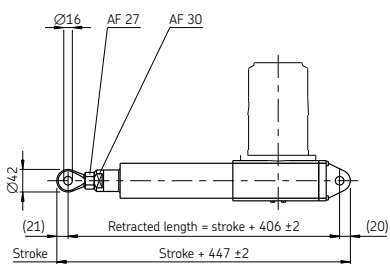


Front attachment:
0 = No option (standard – thread M18x2,5-40)

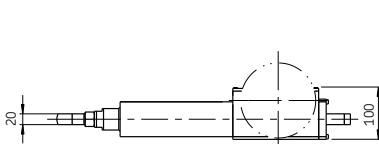


Dimensional drawing

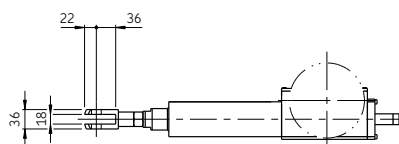
Side view



Top view

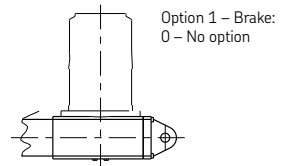


Front attachment:
R = Rod end

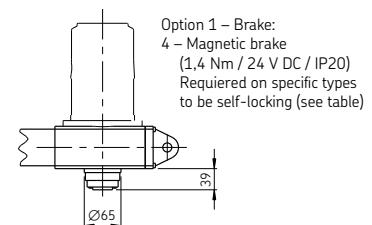


Front attachment:
F = Fork head

Rear view

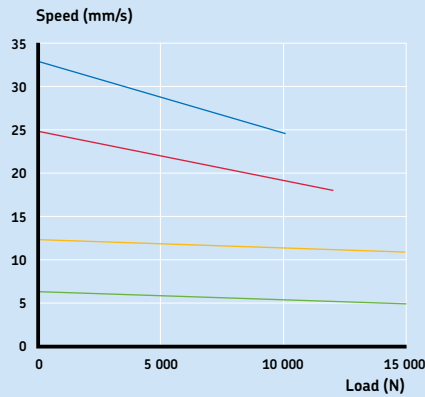


Rear view

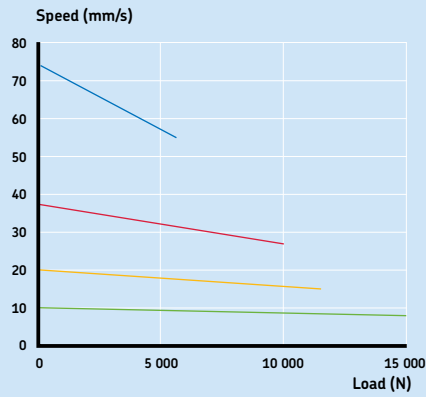


Performance diagram

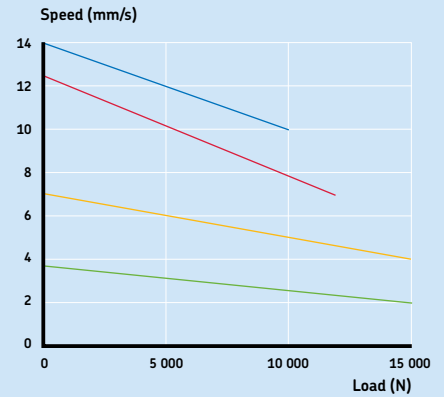
Motor:
A4 - 3x400 V AC
BN - Ball screw 25x10



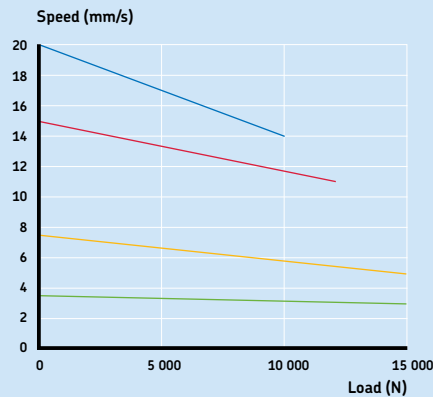
Motor:
D2 - 24 V DC
BN - Ball screw 25x10



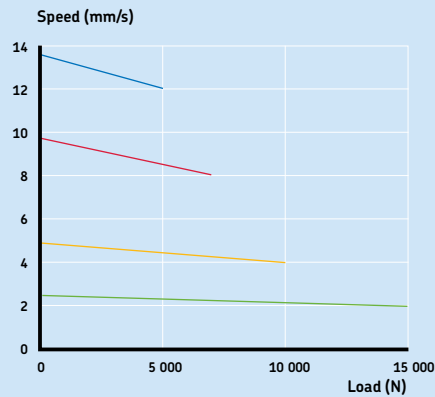
Motor:
A4 - 3x400 V AC
LS - Lead screw 25x10



Motor:
D2 - 24 V DC
LS - Lead screw 20x4



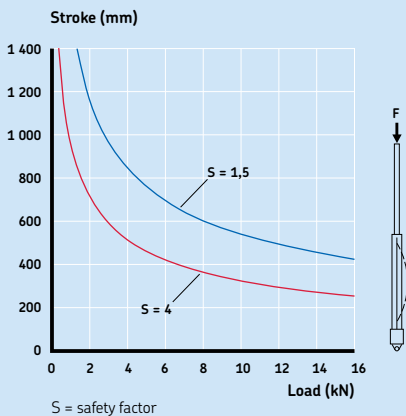
Motor:
A2 - 230 V AC
LS - Lead screw 20x4



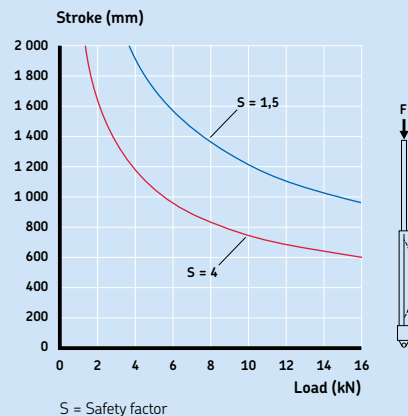
- CAHM-3507
- CAHM-3510
- CAHM-3520
- CAHM-3540

Safety factor load conditions

Screw type:
LS - Lead screw 20x4



Screw type:
BN - Ball screw 25x10



Ordering key

Performance and self locking table

Load [N] / Full Load Speed [mm/s]								Screw		Motor	
10 000 / 14	NSL	12 000 / 11	NSL	15 000 / 5	NSL	15 000 / 3	SL	L	S	D2	24 V DC
TBD	NSL	10 000 / 27	NSL	13 000 / 15	NSL	15 000 / 8	SL	B	N	D2	24 V DC
5 000 / 12	SL	7 000 / 8	SL	10 000 / 4	SL	15 000 / 2	SL	L	S	A2	230 V AC
TBD	NSL	TBD	NSL	TBD	NSL	TBD	SL	B	N	A2	230 V AC
10 000 / 10	SL	12 000 / 7	SL	15 000 / 4	SL	15 000 / 2	SL	L	S	A4	3x400 V AC
10 000 / 25	NSL	12 000 / 18	NSL	15 000 / 11	NSL	15 000 / 5	SL	B	N	A4	3x400 V AC
07		10		20		40					

NLS = Not self-locking: Brake Option required to be self locking
 SL = Self locking: No Brake Option required to be self locking, brake optional possible

C A H M - 3 5 - 0 0 0 0 0 0 0 0 0 0

Type

Size (Gear Center Distance)
 35 mm 3 5

Gear Ratio

7	0 7
10	1 0
20	2 0
40	4 0

Screw Type

Lead screw 20x4 L S
 Ball screw 25x10 B N

Stroke

100 mm	0 1 0 0
200 mm	0 2 0 0
300 mm	0 3 0 0
400 mm	0 4 0 0
500 mm	0 5 0 0
600 mm	0 6 0 0
700 mm	0 7 0 0

Motor

24 V DC D 2
 3x400 V AC A 4
 230 V AC A 2

Front Attachment

No option = standard - thread M18x2,5-40
 Fork head F
 Rod end R

Option 1 - Brake

No option 0
 Magnetic brake (1.4Nm / 24 VDC / IP20) → Required on specific types to be self-locking (see table) 4

Option 2

No option
 Limit switch
 Potentiometer (1 000 Ω)
 Encoder 1063.0020 O L P E

Customer option

0 0 0

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