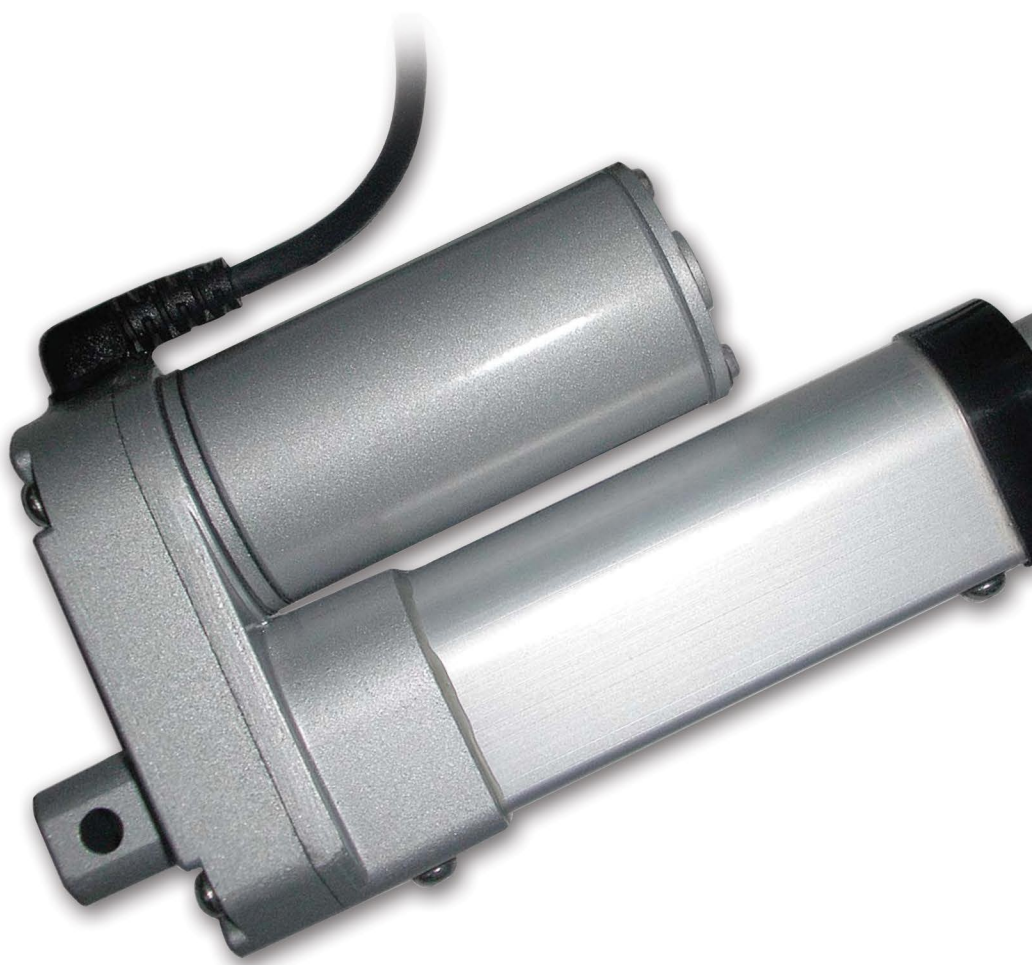




Linear actuators

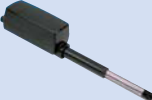


***Mechanical and
Electrical Division***

Content

3	Selection guide
5	MD3 series
8	MD4 series
10	FD series
12	LD4 series
14	LD6 series
16	M series
18	IMD3 series
20	ID8A series
22	ID8B series
24	IA4A series
26	IA4B series
28	SJ series
30	Control box CB200
31	Control box CB300
32	Control box CB800
33	Operating devices HS series

Selection guide

Linear actuators	Type (series)	Max. force		Max. speed		Stroke (S) standard	Features	Page
		push	pull	no load	full load			
		N	N	mm/s	mm/s	mm		No.
	MD3-A1	2 000	0	10,5	6,0	100-400	EN 60601-1	4
	MD4-A1	3 000	0	6,7	3,7	100-400	EN 60601-1	8
	MD4-A2	2 000	0	13	6,4	100-400	EN 60601-1	8
	MD4-A3	1 200	0	25	13,4	100-400	EN 60601-1	8
	MD4-A4	1 000	0	32	20	100-400	EN 60601-1	8
	MD4-A5	3 000	0	8,5	5,0	100-400	EN 60601-1	8
	MD4-A6	3 000	0	5,0	3,0	100-400	EN 60601-1	8
	FD-A1	6 000	4 000	4,2	2,6	50-300	Silent operation	10
	FD-A2	3 000	2 000	8,2	6,2	50-300	Silent operation	10
	LD4-A1	3 000	0	6,7	3,7	100-400	Silent operation	12
	LD4-A2	2 000	0	13	6,4	100-400	Silent operation	12
	LD4-A3	1 200	0	25	13,4	100-400	Silent operation	12
	LD4-A4	1 000	0	32	20	100-400	Silent operation	12
	LD4-A5	3 000	0	8,5	5,0	100-400	Silent operation	12
	LD4-A6	3 000	0	5,0	3,0	100-400	Silent operation	12
	LD6-A1	4 000	0	7	5	100-400	Universal use	14
	LD6-A2	2 000	0	13	11	100-400	Universal use	14
	M24V-S	800	800	10,5	7,0	100-300	Compact	16
	M24V-D	500	500	20	15	100-300	Compact	16
	IMD3-05	120	120	57	45	50-300	Silent operation	18
	IMD3-10	240	240	30	24	50-300	Silent operation	18
	IMD3-20	500	500	17	13	50-300	Silent operation	18
	IMD3-30	750	750	10	9	50-300	Silent operation	18
	IMD3-40	1 000	1 000	8	6	50-300	Silent operation	18
	ID8A-10	1 500	1 500	38	25	100-600	Robust	20
	ID8A-20	2 500	2 500	20	13	100-600	Robust	20
	ID8B-05	2 300	2 300	65	45	100-600	Robust	22
	ID8B-10	3 500	3 500	36	22	100-600	Robust	22
	ID8B-20	4 500	4 500	22	13	100-600	Robust	22
	IA4A-10	1 500	1 500	29	25	100-600	Robust	24
	IA4A-20	2 300	2 300	16	14	100-600	Robust	24
	IA4B-05	2 300	2 300	57	46	100-600	Robust	26
	IA4B-10	4 500	4 500	29	25	100-600	Robust	26
	IA4B-20	6 000	6 000	15	12	100-600	Robust	26

Selection guide

Linear actuators	Type (series)	Max. force		Max. speed		Stroke (S) standard	Features	Page
		push	pull	no load	full load			
		N	N	mm/s	mm/s	mm		No.
	SJ-255	2 000	2 000	7,2	6,6	100-600	AC-actuator	28
	SJ-256	2 500	2 500	6,0	5,5	100-600	AC-actuator	28
	SJ-257	3 000	3 000	4,5	4,0	100-600	AC-actuator	28
	SJ-355	3 000	3 000	7,2	6,6	100-600	AC-actuator	28
	SJ-356	3 500	3 500	6,0	5,5	100-600	AC-actuator	28
	SJ-358	4 000	4 000	4,5	4,0	100-600	AC-actuator	28
	SJ-455	4 000	4 000	7,2	6,6	100-600	AC-actuator	28
	SJ-456	4 500	4 500	6,0	5,5	100-600	AC-actuator	28
	SJ-458	5 000	5 000	4,5	4,0	100-600	AC-actuator	28

Control units	Type	Control	Max. motor connections		Output	Protection class	Features	Page
			n°	VAC	VDC/A	IP		
								No.
	CB200S	Basic functions	3	(100 - 240)*	24/3	51	Standard	30
	CB200A	Encoder processing	1	(100 - 240)*	24/3	51	An ti-pinching	30
	CB300S	Basic functions	2	(100 - 240)*	24/3	51	Standard	31
	CB300A	Encoder processing	2	(100 - 240)*	24/3	51	An ti-pinching	31
	CB800S	Basic functions	4	(100 - 240)*	24/6	51/65	Standard	32
	CB800B	Basic functions	4	(100 - 240)*	24/6	51/65	Battery	32
	CB800E	Basic functions	4	(100 - 240)*	24/6	51/65	Ext ernal DC input	32

* See type key for available voltage

Hand switch	Type	Operating power	Max. operating motors		Protection class	Colour	Page
		VDC/mA	n°				
					IP		No.
	HS112	40/50	1		51	Black	33
	HS124	40/50	2		51	Black	33
	HS126	40/50	2		51	Black	33
	HS138	40/50	3		51	Black	33
	HS148	40/50	4		51	Black	33

Linear actuators

MD3 series

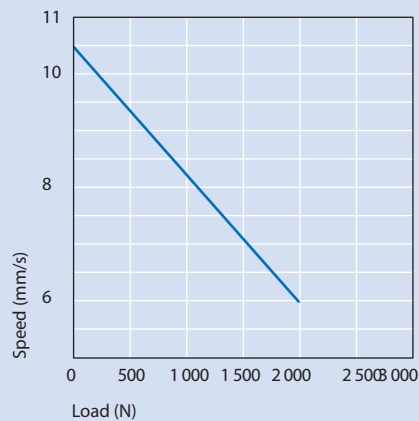
Features / Benefits

- Ambient temperature +5 °C to +40 °C
- Compact DC-actuator
- Space saving installation
- Protection class IP66
- Rear clevis (plastic)
- Mechanical end stop
- Low noise level
- Duty cycle max. 10 % or 6 min./hour at continuous use
- Certified (EN60601-1)

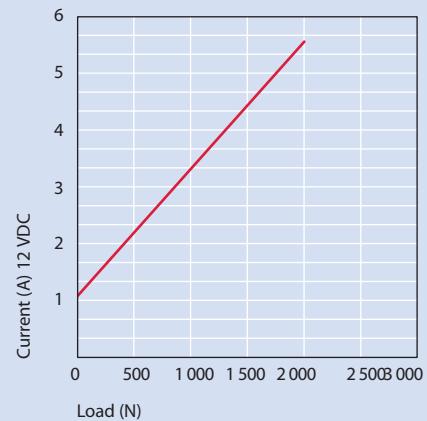


Performance diagram:

Speed vs Load (force)



Current vs Load (force)

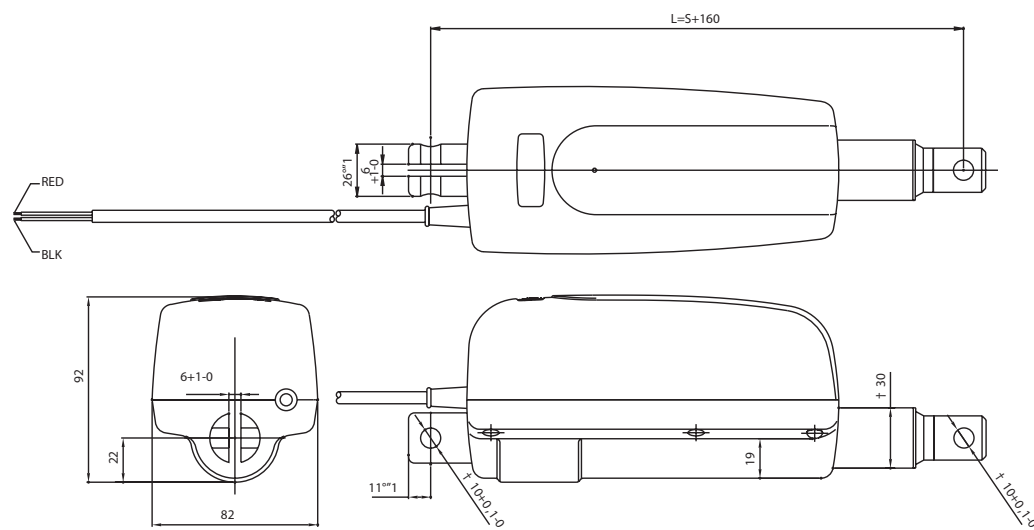


Type	Force push	pull	Max. speed no load	full load	Stroke (S)	Retr. length* (L)	Voltage	Protection class	Weight
	N	N	mm/s	mm/s	mm	mm	VDC	IP	kg
MD3-A1	2 000	0	10,5	6,0	100-400	S+160	12	66	3,5

* See type key on next page.

Linear actuators

MD3



Type	MD3	A	1	-		-	
Stroke							
100 mm							100
150 mm							150
200 mm							200
250 mm							250
300 mm							300
400 mm							400
Other stroke lengths: $100 < S < 400$ mm							XXX
Customized cable length options: Specify requested cable length in dm							XX

Linear actuators

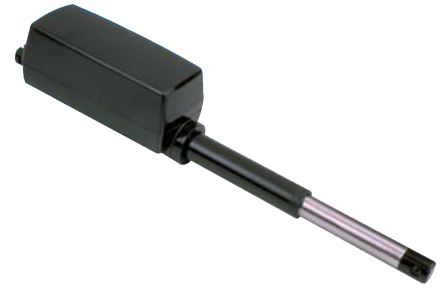
MD4 series

Features / Benefits

- Ambient temperature +5 °C to +40 °C
- Compact DC-actuator
- Space saving installation
- Protection class IP66
- Rear clevis end (metal)
- Self-locking brake for "A3" and "A4" versions
- Two way integrated limit switch protection
- Low noise level
- Duty cycle max. 10 % or 6 min./hour at continuous use
- Comply with EN60601-1

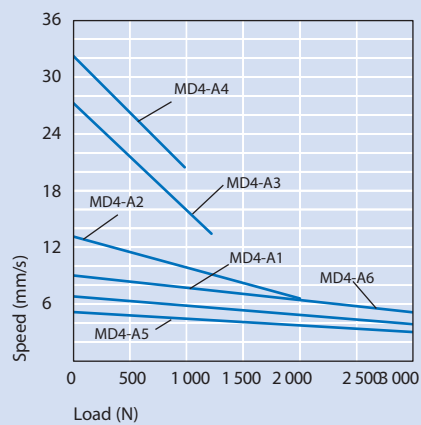
Options

- Hall effect sensor

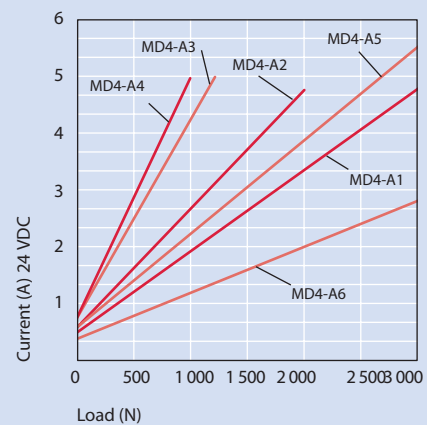


Performance diagram:

Speed vs Load (force)



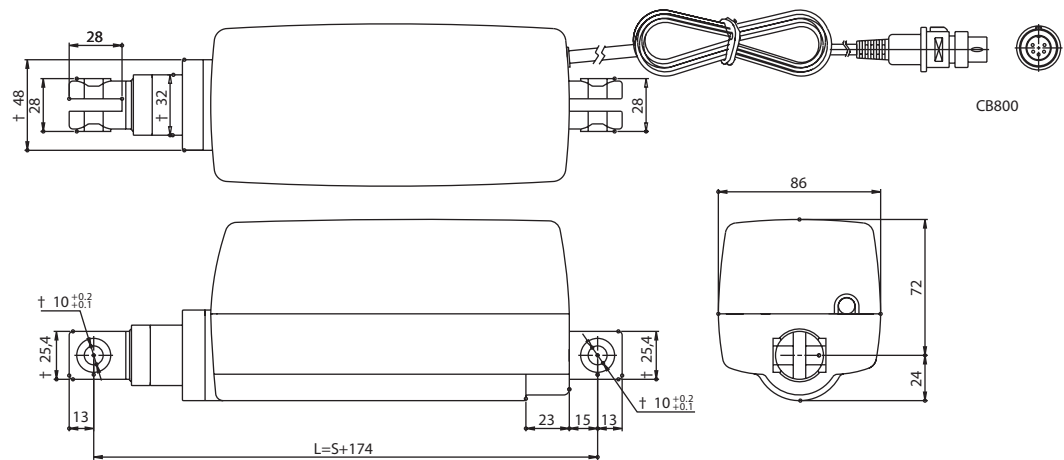
Current vs Load (force)



Type	Force push	pull	Max. speed no load	full load	Stroke (S)	Retr. length* (L)	Voltage	Protection class	Weight
	N	N	mm/s	mm/s	mm	mm	VDC	IP	kg
MD4-A1	3 000	0	6,7	3,7	100-400	S+174	24	66	3,5
MD4-A2	2 000	0	13	6,4	100-400	S+174	24	66	3,5
MD4-A3	1 200	0	25	13,4	100-400	S+174	24	66	3,5
MD4-A4	1 000	0	32	20	100-400	S+174	24	66	3,5
MD4-A5	3 000	0	8,5	5,0	100-400	S+174	24	66	3,5
MD4-A6	3 000	0	5,0	3,0	100-400	S+174	24	66	3,5

* See type key on next page.

MD4



Type	MD4	A					
Load (N) / Speed							
3 000 / 6,7						1	
2 000 / 13						2	
1 200 / 25						3	
1 000 / 32						4	
3 000 / 8,5						5	
3 000 / 5,0						6	
Stroke							
100 mm							100
150 mm							150
200 mm							200
250 mm							250
300 mm							300
400 mm							400
Other stroke lengths; 100 < S < 400 mm							XXX
Option 1							
Hall effect sensor							HS
Customized cable length options: Specify requested cable length in dm							XX

FD series

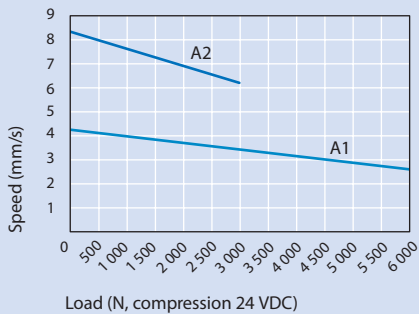
Features / Benefits

- Ambient temperature -26 °C to ~+65 °C
- Protection class IP52
- Build in limit switches (factory pre-set)
- Hall effect/Reed sensors
- Rear clevis can be turned 90 °
- Compatible control boxes: CB200/300/800
- Duty cycle max. 10 % or 6 min./hour at continuous use

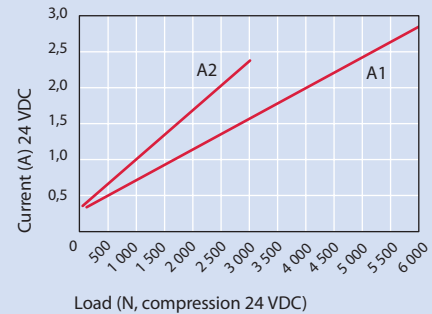


Performance diagram:

Speed vs Load (force)



Current vs Load (force)



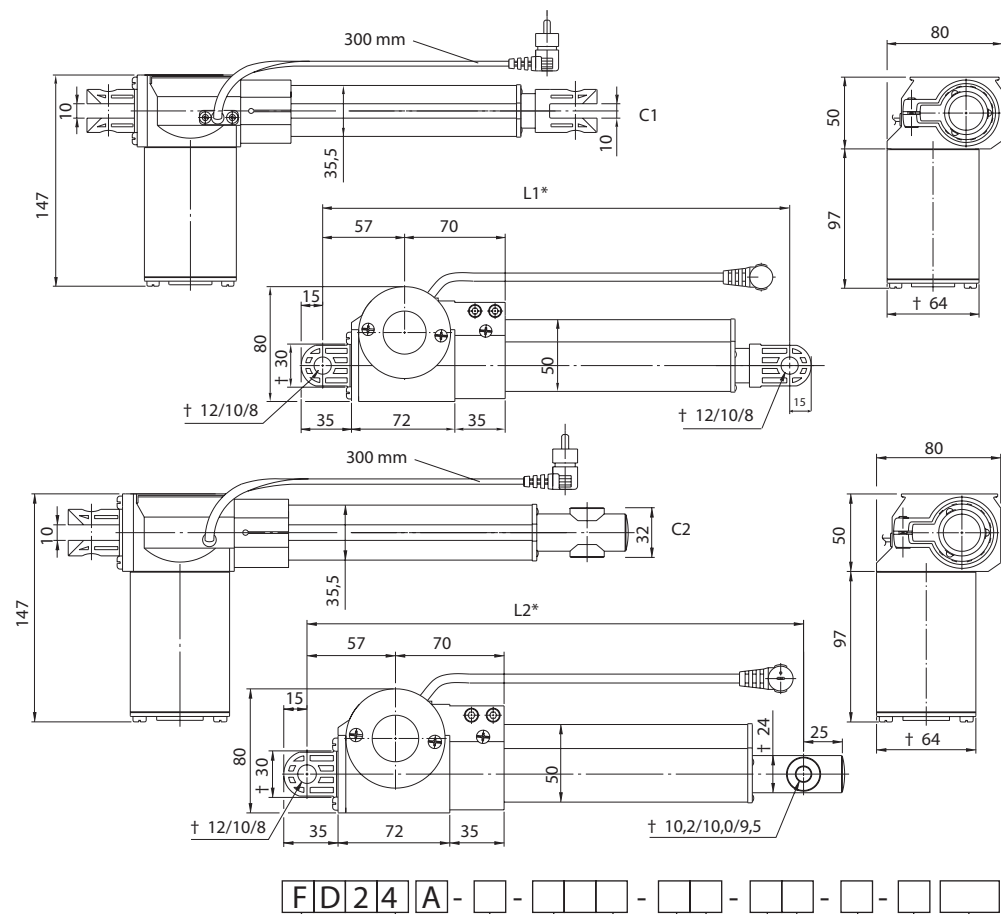
Type	Force push	pull	Max. speed no load	full load	Stroke (S)	Retr. length* (L1;L2)	Voltage	Protection class	Weight
	N	N	mm/s	mm/s	mm	mm	VDC	IP	kg
FD A1	6 000	4 000	4,2	2,6	50-300	~*	24	52	2,5
FD A2	3 000	2 000	8,2	6,2	50-300	~*	24	52	2,5

Dimensions in mm*

Stroke	50	100	150	200	250	300
Retracted length (L1)	250	300	360	410	470	520
Retracted length (L2)	210	260	320	370	430	480

Linear actuators

FD



Type

Load - push/pull (N)

6 000 / 4 000

3 000 / 2 000

Stroke

50 mm

100 mm

150 mm

200 mm

250 mm

300 mm

Other stroke lengths; 50 < S < 300 mm

Front attachment

Plastic, $\pm$ = 8,0, 10,0, or 12,0 mm

Metal, $\pm$ = 9,5, 10,0 or 10,2 mm

Option 2

Hall effect sensor (resolution pulses/mm; A1=10, A2=5)

Reed sensor (resolution pulses/mm; A1=1,25, A2=0,625)

Option 3

Connector for CB200S, CB300S

Connector for CB800

Connector for CAJC

Connector for MCU

No connector, open wires

Customized connector - contact SKF

Option 4 (front attachment)

Attachment type C1 $\pm$ = 12,0 mm; type C2 $\pm$ = 10,2 mm

Attachment type C1 and C2 $\pm$ = 10,0 mm

Attachment type C1 $\pm$ = 8,0 mm; type C2 $\pm$ = 9,5 mm

Customized cable length options:

Specify requested cable length in dm

XX

Linear actuators

LD4 series

Features / Benefits

- Ambient temperature +5 °C to +40 °C
- Compact DC-actuator
- Protection class IP51
- Space saving installation
- Actuator and converter for universal applications
- Clevis ends (metal)
- Self-locking brake for "A3" and "A4" versions
- Low noise level
- Duty cycle max. 10 % or 6 min./hour at continuous use

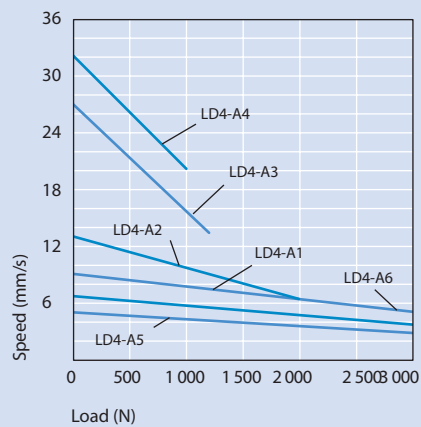
Options:

- Hall effect sensor

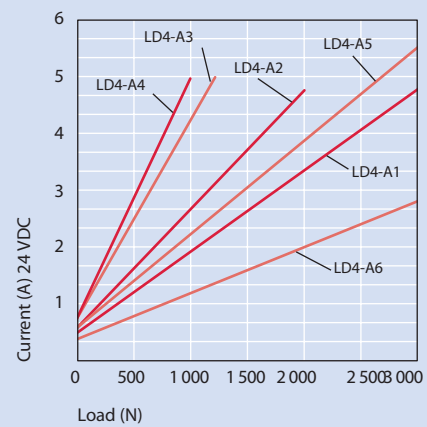


Performance diagram:

Speed vs Load (force)



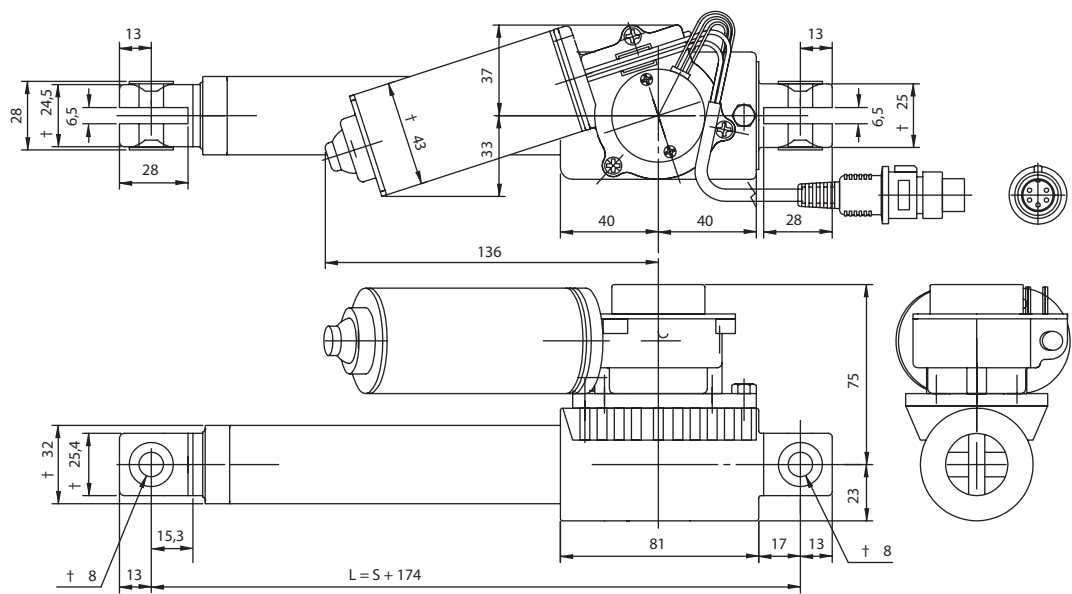
Current vs Load (force)



Type	Force push	pull	Max. speed no load	full load	Stroke (S)	Retr. length* (L)	Voltage	Protection class	Weight
	N	N	mm/s	mm/s	mm	mm	VDC	IP	kg
LD4-A1	3 000	0	6,7	3,7	100-400	S+174	24	51	2,5
LD4-A2	2 000	0	13	6,4	100-400	S+174	24	51	2,5
LD4-A3	1 200	0	25	13,4	100-400	S+174	24	51	2,5
LD4-A4	1 000	0	32	20	100-400	S+174	24	51	2,5
LD4-A5	3 000	0	8,5	5,0	100-400	S+174	24	51	2,5
LD4-A6	3 000	0	5,0	3,0	100-400	S+174	24	51	2,5

* Other retracted length - contact SKF

LD4



Type	LD4	A	-	-	-	-	-	-	-
Load (N) / Speed (mm/s)									
3 000 / 6,7									1
2 000 / 13									2
1 200 / 25									3
1 000 / 32									4
3 000 / 8,5									5
3 000 / 5,0									6
Stroke									
100 mm									100
150 mm									150
200 mm									200
250 mm									250
300 mm									300
400 mm									400
Other stroke lengths; 100 < S < 400 mm									XXX
Option 1									
Hall effect sensor									HS
Customized cable length options:									
Specify requested cable length in dm									XX

Linear actuators

LD6 series

Features / Benefits

- Ambient temperature +5 °C to +40 °C
- Compact DC-actuator
- Space saving installation
- Protection class IP51
- Actuator and converter for universal applications
- Clevis end (metal), die-cast
- Brake
- Low noise level
- Duty cycle max. 10 % or 6 min./hour at continuous use

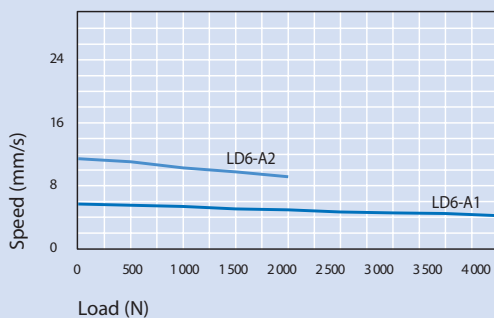
Options:

- Limit switch
- Potentiometer (for S = 100-200 mm)

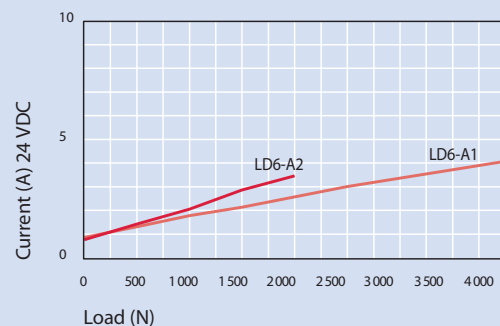


Performance diagram:

Speed vs Load (force)



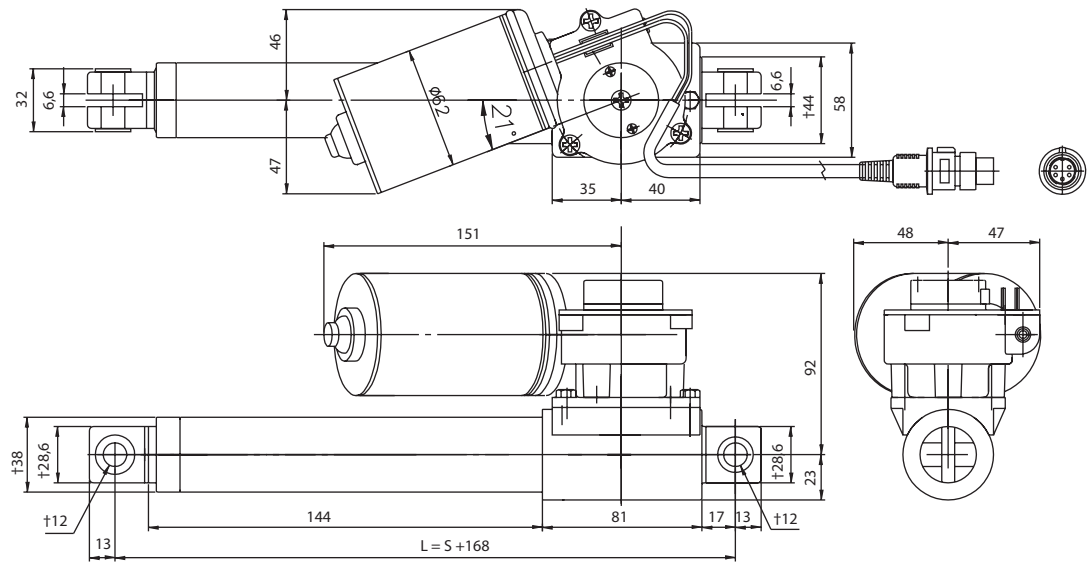
Current vs Load (force)



Type	Force push	pull	Max. speed no load	full load	Stroke (S)	Retr. length (L)	Voltage	Protection class	Weight
	N	N	mm/s	mm/s	mm	mm	VDC	IP	kg
LD6-A1	4 000	0	7	5	100-400	S+168	24	51	3,5
LD6-A2	2 000	0	13	11	100-400	S+168	24	51	3,5

Linear actuators

LD6



Type	LD 6	-	-	-	-
Load (N)					
4 000					A1
2 000					A2
Stroke					
100 mm					100
150 mm					150
200 mm					200
250 mm					250
300 mm					300
400 mm					400
Other stroke lengths; 100 < S < 400 mm					XXX
Option					
Limit switch + potentiometer (only for S=100-200 mm)					P
Customized cable length options:					
Specify requested cable length in dm					XX

Linear actuators

M series

Features / Benefits

- Designed for horizontal/vertical mounting
- Push or pull load
- Extension tube (stainless steel)
- Protection tube (aluminium)
- Anodized coating (natural)
- Duty cycle 20 %

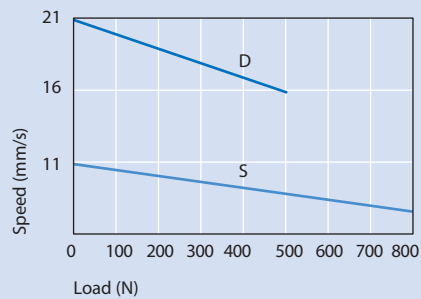
Options

- Hall effect/Reed sensors

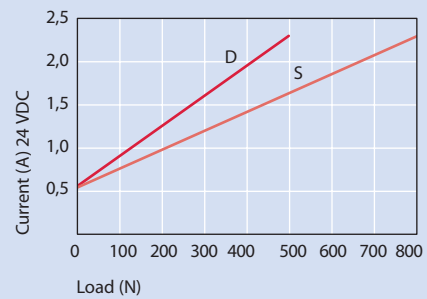


Performance diagram:

Speed vs Load (force)



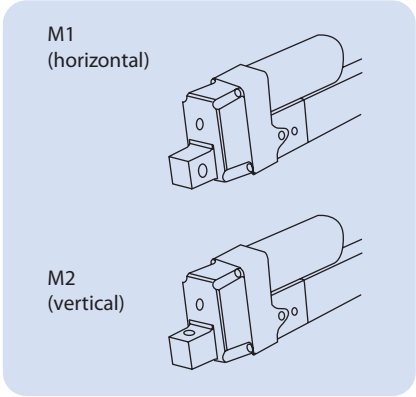
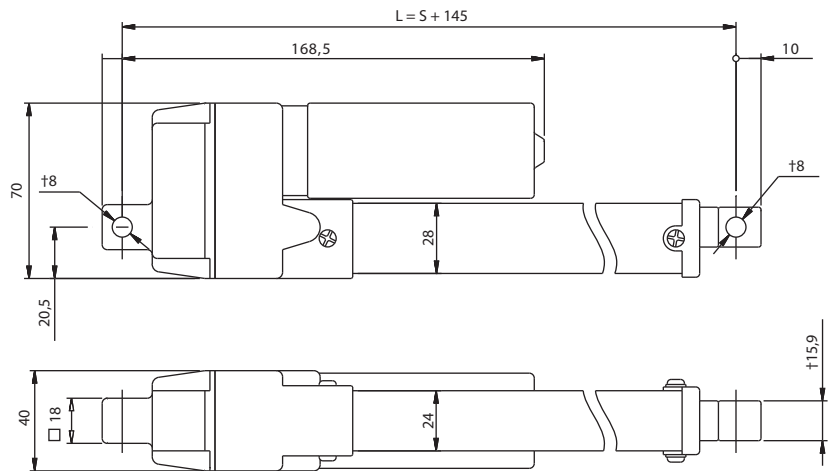
Current vs Load (force)



Type	Force push	pull	Max. speed no load	full load	Stroke* (S)	Retr. length (L)	Voltage	Protection class	Weight
	N	N	mm/s	mm/s	mm	mm	VDC	IP	kg
M24V-S	800	800	10,5	7,0	100-300	S+145	24	N/A	2,0
M24V-D	500	500	20	15	100-300	S+145	24	N/A	2,0

*Tolerance; S = +0 / -0,6 mm

M



	M	2	4	-		-		-		-		
Type												
Voltage												
24 VDC												
Mounting												
Horizontal												
Vertical												
Feedback												
No feedback												
Hall effect sensor												
Reed sensor												
Stroke												
100 mm												
200 mm												
300 mm												
Other stroke lengths; 100 < S < 300 mm												
Load (N)												
800												
500												
Customized cable length options:												
Specify requested cable length in dm												

Linear actuators

IMD3 series

Features / Benefits

- Ambient temperature -15 °C to +65 °C
- Lubrication for longer life time
- Extension tube (aluminium)
- Protection tube (aluminium)
- Zinc alloy housing
- Powder metal gears
- Integrated limit switches
- Duty cycle 25 %

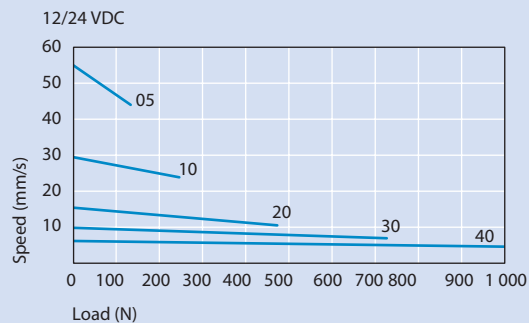
Options

- Potentiometer
- Attachments, † 6,4 or 8,0 mm
- Protection class IP65

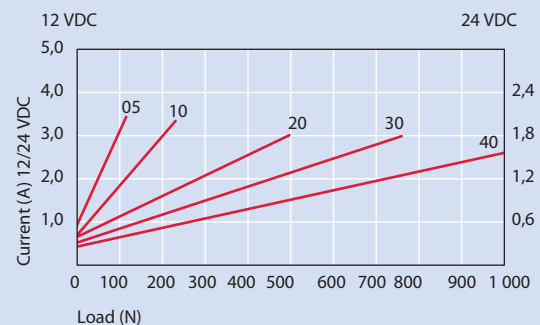


Performance diagram: (load versions; "05", "10", "20", "30" and "40" - see type key on next page)

Speed vs Load (force)



Current vs Load (force)



Type	Force**		Max. speed		Stroke	Retr. length*	Voltage	Protection class	Weight
	push	pull	no load	full load	(S)	(L1;L2)			
	N	N	mm/s	mm/s	mm	mm	VDC	IP	kg
IMD3 05	120	120	57	45	50-300	-*	12/24	53/65	1,5
IMD3 10	240	240	30	24	50-300	-*	12/24	53/65	1,5
IMD3 20	500	500	17	13	50-300	-*	12/24	53/65	1,5
IMD3 30	750	750	10	9	50-300	-*	12/24	53/65	1,5
IMD3 40	1 000	1 000	8	6	50-300	-*	12/24	53/65	1,5

* See table on below

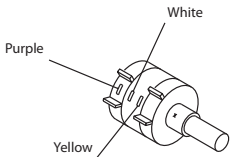
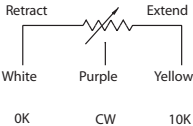
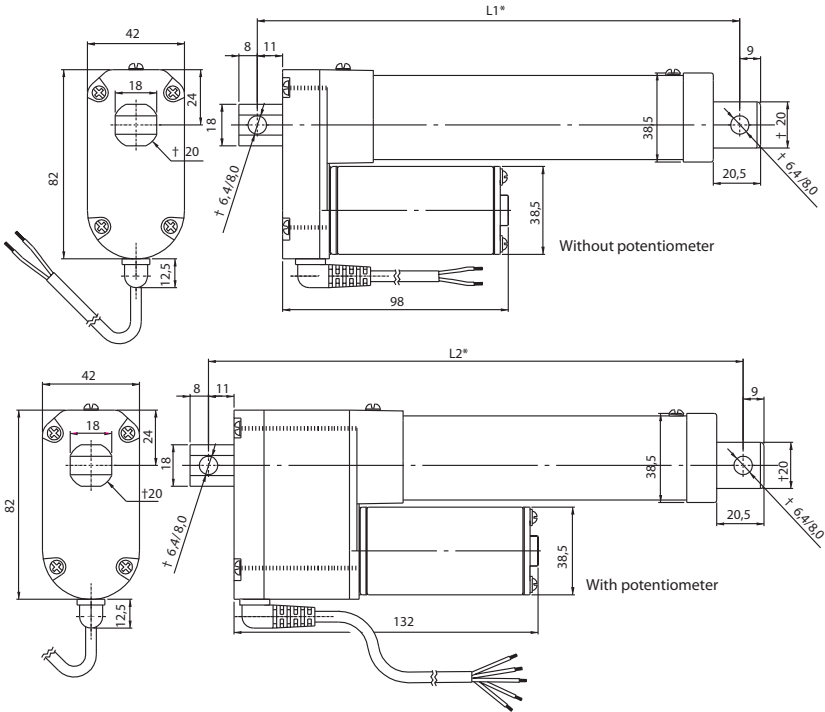
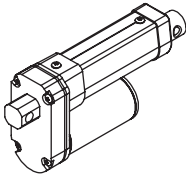
** Max. static load is 2 500 N

Dimensions in mm*

Stroke	50	100	150	200	250	300
Retracted length (L1)	158	209	260	311	362	413
Retracted length (L2)	192	243	294	345	396	447

Linear actuators

IMD3



Potentiometer***						
Stroke	50	100	150	200	250	300
Ohm/mm	94,4	94,4	47,2	47,2	15,72	15,72

Type

Voltage
12 VDC
24 VDC

Load (N)
120
240
500
750
1 000

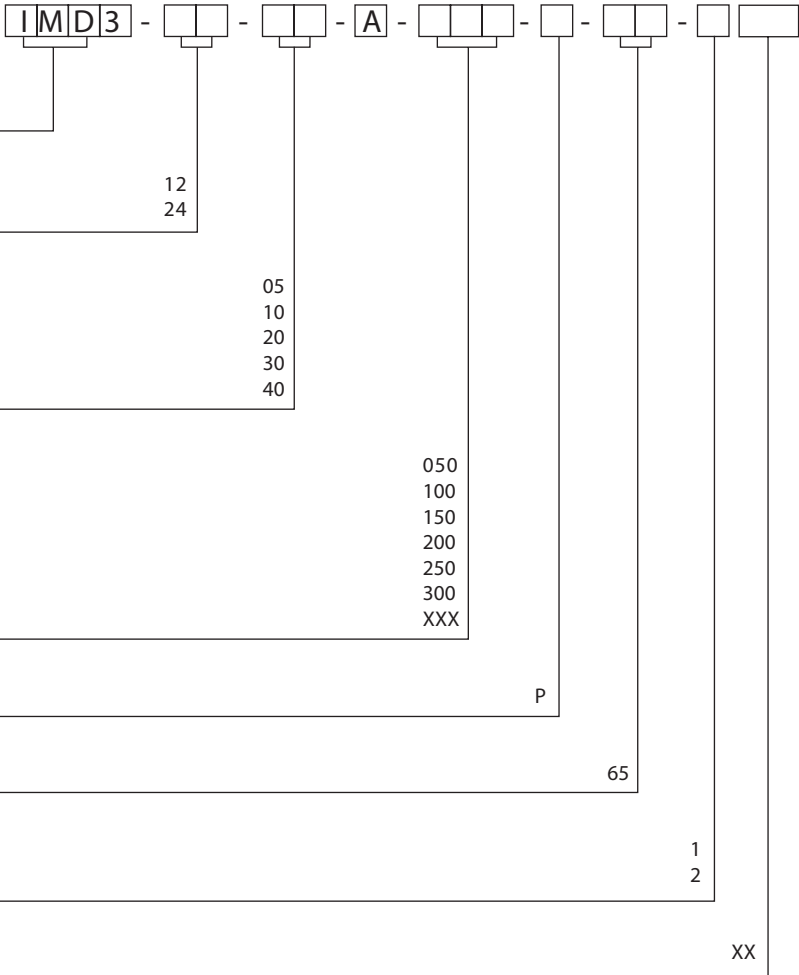
Stroke
50 mm
100 mm
150 mm
200 mm
250 mm
300 mm
Other stroke lengths; 50 < S < 300 mm

Option 1
Potentiometer (10 kΩ)***

Option 2
Protection class IP65

Option 3 (attachments)
Hole $\varnothing$ =6,4 mm (standard)
Hole $\varnothing$ =8,0 mm

Customized cable length options:
Specify requested cable length in dm



ID8A series

Features / Benefits

- Ambient temperature -26 °C to +65 °C
- Well sealed (O-ring)
- Extension tube (steel), powder coated
- Protection tube (steel), powder coated
- Powder coated aluminium alloy housing
- Powder metal gears
- Enhanced corrosion resistance
- Overload protection (clutch)
- Lubricated for service life
- Robust, designed for tough environment
- Static load capacity 4 500 N
- Self-locking
- Duty cycle 25 %
- Certified (CE 55011)

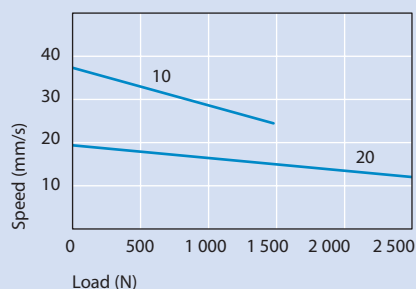


Options

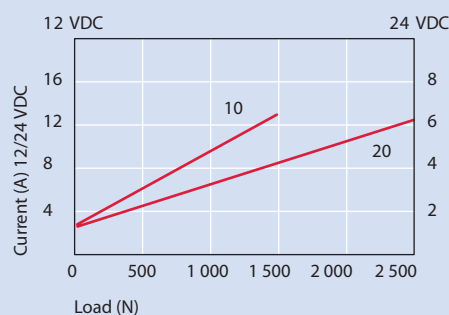
- Thermo protection

Performance diagram: (load versions; "10" and "20" - see type key on next page)

Speed vs Load (force)



Current vs Load (force)



Type	Force push	pull	Max. speed no load	full load	Stroke (S1)	Retr. length* (L1)	Voltage	Protection class	Weight
	N	N	mm/s	mm/s	mm	mm	VDC	IP	kg
ID8A 10	1 500	1 500	38	25	100-600	~*	12/24	52/65	6,0
ID8A 20	2 500	2 500	20	13	100-600	~*	12/24	52/65	6,0

With limit switch*								Without limit switch**						
Stroke (mm)	100	150	200	300	450	600		100	150	200	300	450	600	
L1 (Retracted length in mm)*	338	389	440	540	772	924		262	313	364	465	696	848	
L2 (Retracted length in mm)*	376	427	473	578	810	962		300	351	402	503	734	886	
S (Maximum travel in mm)*	102	153	203	305	457	610		102	153	203	305	457	610	

* Tolerance; S and L = ± 5,0 mm

** Tolerance; L = ± 3,8 mm, S = ± 2,5 mm

Potentiometer***						
Stroke	100	150	200	300	450	600
Ohm/mm	60,0	60,0	30,0	30,0	10,0	10,0

ID8B series

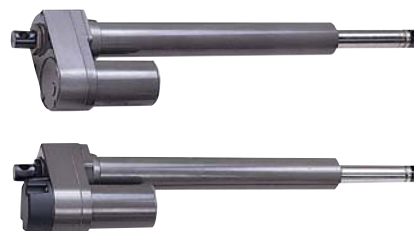
Features / Benefits

- Ambient temperature -26 °C to +65 °C
- High efficiency ball screw
- Well sealed (O-ring)
- Extension tube (stainless steel)
- Protection tube (steel), powder coated
- Powder coated aluminium alloy housing
- Powder metal gears
- Enhanced corrosion resistance
- Overload protection (clutch)
- Lubrication for service life
- Robust, designed for tough environment

- Static load capacity 13 600 N
- No back driving
- Duty cycle 25 %
- Certified (CE 55011)

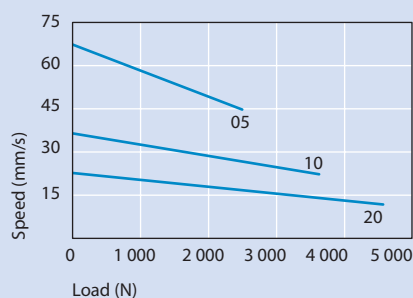
Option

- Thermo protection
- Adjustable limit switches

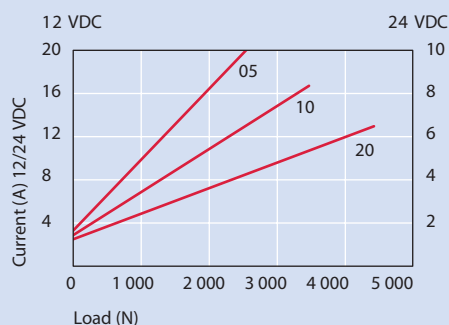


Performance diagram: (load versions; "05", "10" and "20" - see type key on next page)

Speed vs Load (force)



Current vs Load (force)



Type	Force push	pull	Max. speed no load	full load	Stroke (S1)	Retr. length* (L1)	Voltage	Protection class	Weight
	N	N	mm/s	mm/s	mm	mm	VDC	IP	kg
ID8B 05	2 300	2 300	65	45	100-600	-*	12/24	52/65	6,5
ID8B 10	3 500	3 500	36	22	100-600	-*	12/24	52/65	6,5
ID8B 20	4 500	4 500	22	13	100-600	-*	12/24	52/65	6,5

With limit switch							Without limit switch**					
Stroke (mm)	100	150	200	300	450	600	100	150	200	300	450	600
L1 (Retracted length in mm)*	378	429	479	580	810	962	302	353	404	505	735	887
L2 (Retracted length in mm)*	416	467	517	618	848	1 000	340	391	442	543	773	925
S (Maximum travel in mm)*	98	150	201	302	457	610	98	150	201	302	457	610

* Tolerance; S and L = ± 5,0 mm

** Tolerance; L = ± 3,8 mm, S = ± 2,5 mm

Potentiometer***						
Stroke	100	150	200	300	450	600
Ohm/mm	60,0	60,0	30,0	30,0	10,0	10,0

IA4A series

Features / Benefits

- Ambient temperature -26 °C to +65 °C
- Motor with thermal protection
- Well sealed by O-ring
- Extension tube (stainless steel)
- Protection tube (steel), powder coated
- Powder coated aluminium alloy housing
- Powder metal gears
- Enhanced corrosion resistance
- Overload protection (clutch)
- Lubricated for service life
- Robust, designed for tough environment
- Static load capacity 4 500 N
- Self-locking
- Duty cycle 25 %

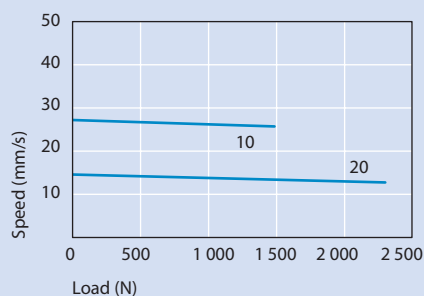
Option

- Adjustable limit switches

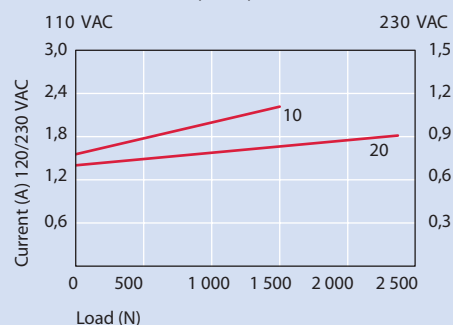


Performance diagram: (load versions; "10" and "20" - see type key on next page)

Speed vs Load (force)



Current vs Load (force)



Type	Force push	pull	Max. speed no load	full load	Stroke (S)	Retr. length* (L)	Voltage	Protection class	Weight
	N	N	mm/s	mm/s	mm	mm	VAC	IP	kg
IA4A 10	1 500	1 500	29	25	100-600	—*	110/230	51	8,5
IA4A 20	2 300	2 300	16	14	100-600	—*	110/230	51	8,5

With limit switch*							Without limit switch**					
Stroke (mm)	100	150	200	300	450	600	100	150	200	300	450	600
L1 (Retracted length in mm)*	456	506	556	658	810	962	380	431	481	583	735	887
L2 (Retracted length in mm)*	494	544	594	696	848	1 000	418	469	519	621	773	925
S (Maximum travel in mm)*	102	153	203	305	457	610	102	153	203	305	457	610

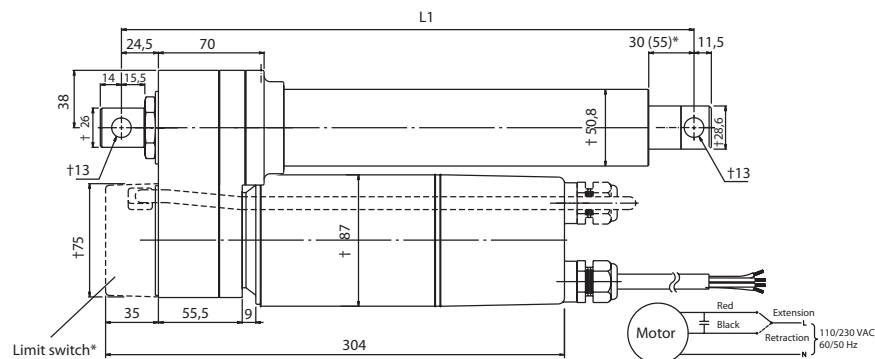
* Tolerance; S and L = ± 5,0 mm

** Tolerance; L = ± 3,8 mm, S = ± 2,5 mm

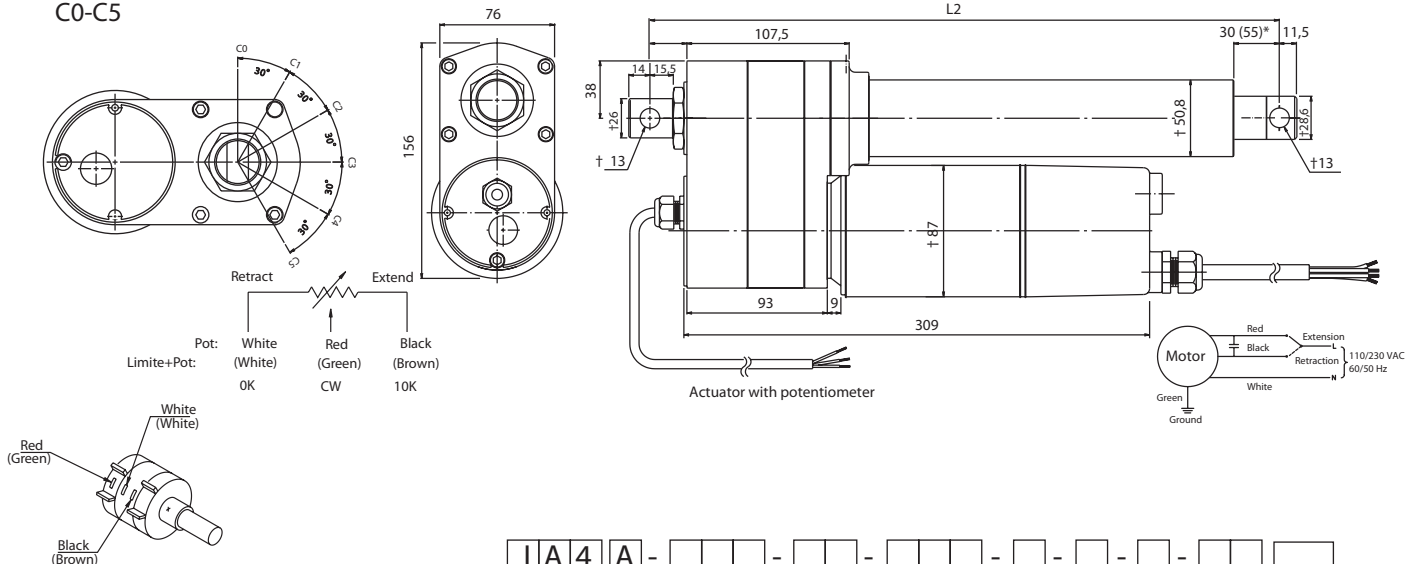
Potentiometer***						
Stroke	100	150	200	300	450	600
Ohm/mm	60,0	60,0	30,0	30,0	10,0	10,0

Linear actuators

IA4A



Different rear clevis mounting: C0-C5



Type

Voltage
110 VAC
230 VAC

Load (N)
1 500
2 300

Stroke
100 mm
150 mm
200 mm
300 mm
450 mm
600 mm
Other stroke lengths; $100 < S < 600$ mm

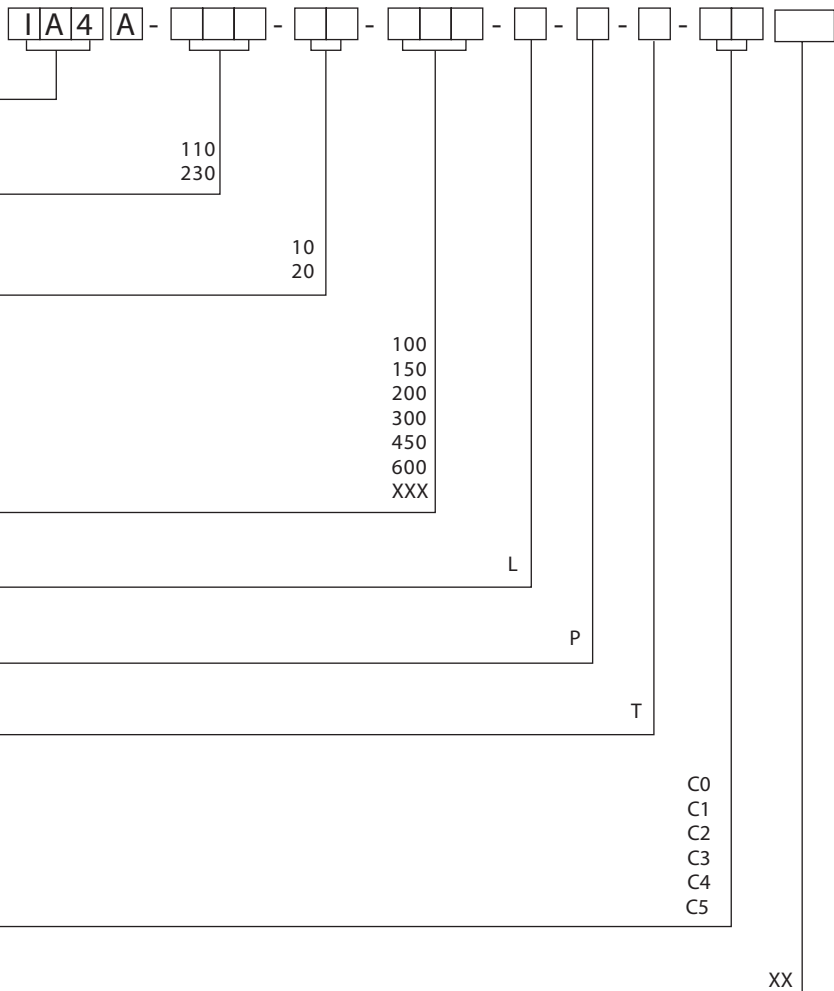
Option 1
Limit switches (only for load version 20)

Option 2
Potentiometer

Option 3
Thermo protection

Orientation rear attachment
0°
30°
60°
90°
120°
150°

Customized cable length options:
Specify requested cable length in dm



IA4B series

Features / Benefits

- Ambient temperature -26 °C to +65 °C
- High efficiency ball screw
- Motor with thermal protection
- Well sealed by O-ring
- Extension tube (stainless steel)
- Protection tube (steel), powder coated
- Powder coated aluminium alloy housing
- Powder metal gears
- Enhanced corrosion resistance
- Overload protection (clutch)
- Lubricated for service life
- Robust, designed for tough environment
- Static load capacity 13 600 N
- No back driving
- Duty cycle 25 %

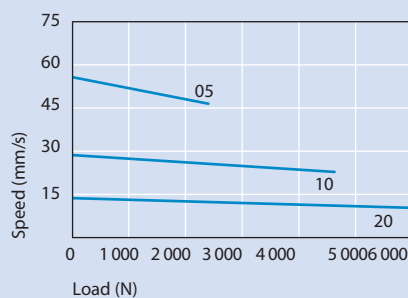
Option

- Adjustable limit switches

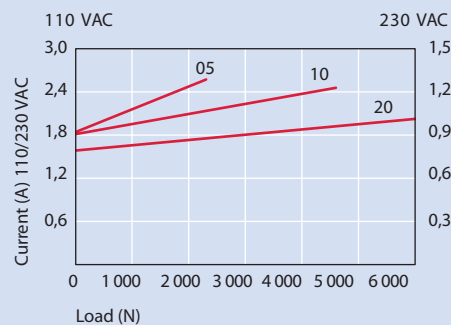


Performance diagram: (load versions - see type key)

Speed vs Load (force)



Current vs Load (force)



Type	Force push	pull	Max. speed no load	full load	Stroke (S)	Retr. length* (L)	Voltage	Protection class	Weight
	N	N	mm/s	mm/s	mm	mm	VAC	IP	kg
IA4B 05	2 300	2 300	57	46	100-600	~*	110/230	51	9,0
IA4B 10	4 500	4 500	29	25	100-600	~*	110/230	51	9,0
IA4B 20	6 000	6 000	15	12	100-600	~*	110/230	51	9,0

With limit switch*

Stroke (mm)	100	150	200	300	450	600	100	150	200	300	450	600
L1 (Retracted length in mm)*	456	506	556	658	810	962	380	431	481	583	735	887
L2 (Retracted length in mm)*	494	544	594	696	848	1 000	418	469	519	621	773	925
S (Maximum travel in mm)*	102	153	203	305	457	610	102	153	203	305	457	610

* Tolerance; S and L = ± 5,0 mm

Without limit switch**

Stroke (mm)	100	150	200	300	450	600
L1 (Retracted length in mm)*	380	431	481	583	735	887
L2 (Retracted length in mm)*	418	469	519	621	773	925
S (Maximum travel in mm)*	102	153	203	305	457	610

** Tolerance; L = ± 3,8 mm, S = ± 2,5 mm

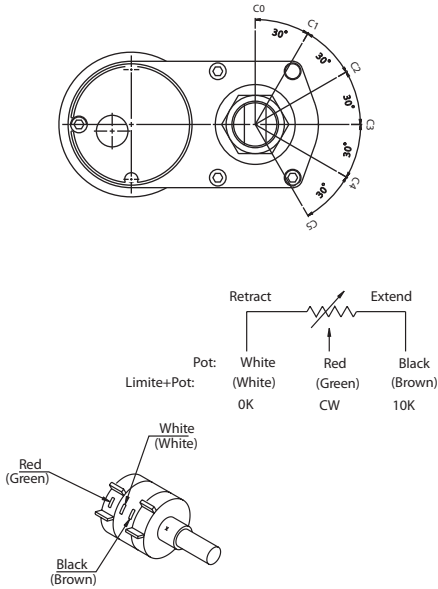
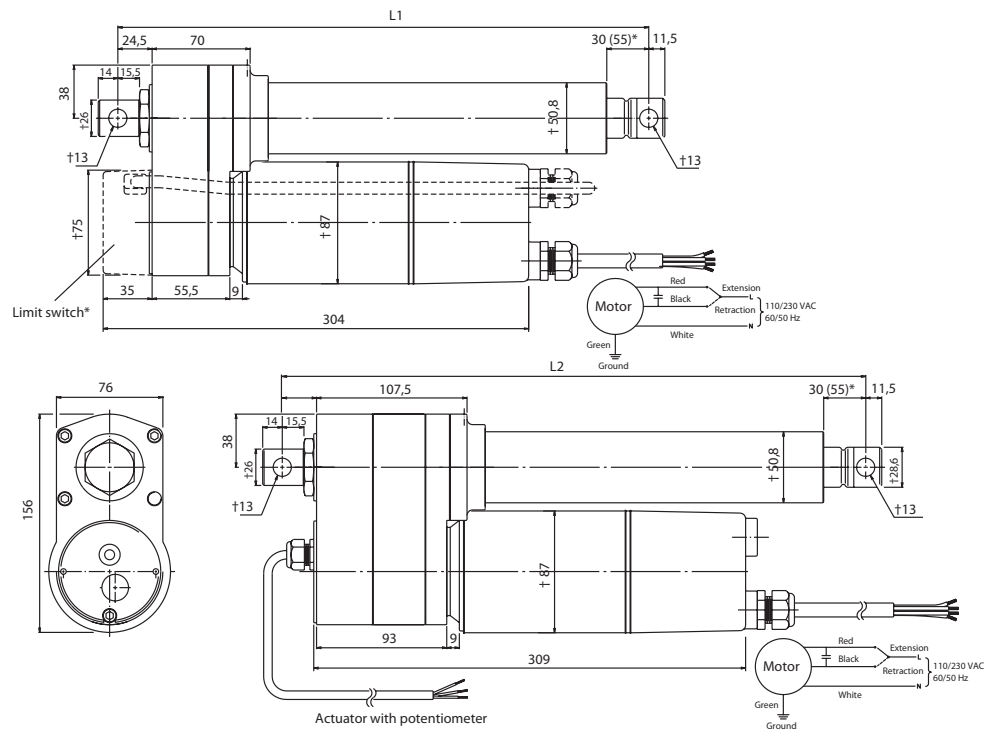
Potentiometer***

Stroke	100	150	200	300	450	600
Ohm/mm	60,0	60,0	30,0	30,0	10,0	10,0

Linear actuators

IA4B

Different rear clevis mounting:
C0-C5



Type

Voltage
110 VAC
230 VAC

Load (N)
2 300
4 500
6 000

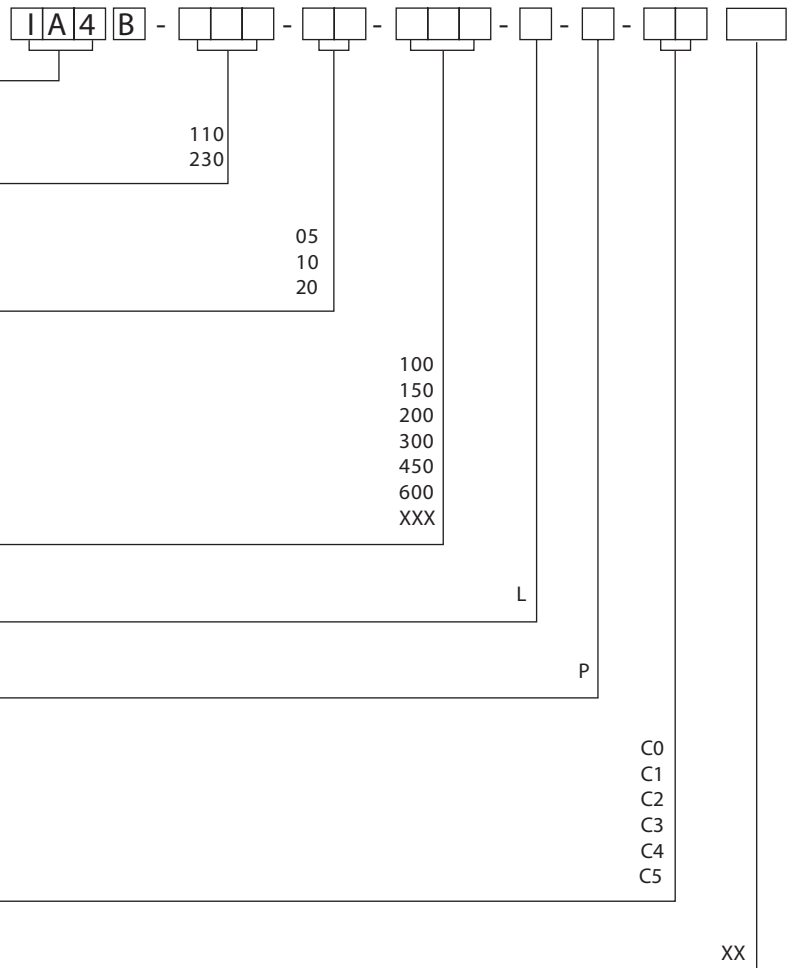
Stroke
100 mm
150 mm
200 mm
300 mm
450 mm
600 mm
Other stroke lengths; $100 < S < 600$ mm

Option 1
Limit switches (only for load version 20)

Option 2
Potentiometer

Orientation rear attachment
0°
30°
60°
90°
120°
150°

Customized cable length options:
Specify requested cable length in dm



Linear actuators

SJ 25, 35, 45 series (AC-actuator)

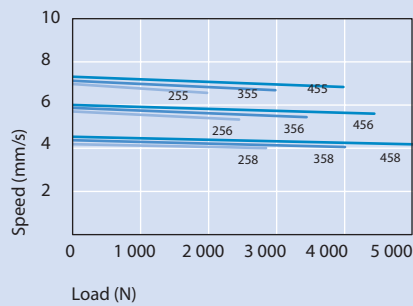
Features / Benefits

- Motor with thermal protection ($+120 \pm 5$ °C)
- Acme screw
- Self-locking
- Integrated limit switches
- Gear box (metal)
- Duty cycle 17%
- UL approved E128837 CSA certificate:
LR92531 (115 VAC), E226168 (230 VAC)

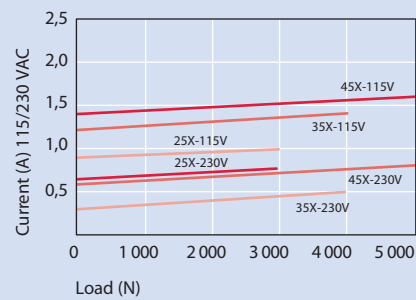


Performance diagram: (load versions - see type key)

Speed vs Load (force)



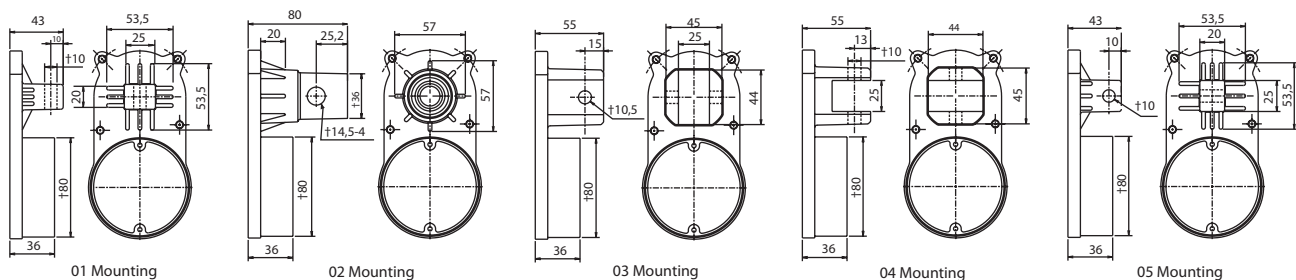
Current vs Load (force)



Type	Force push	pull	Max. speed no load	full load	Stroke* (S)	Retr. length** (L)	Voltage	Protection class	Weight
	N	N	mm/s	mm/s	mm	mm	VAC	IP	kg
SJ 255	2 000	2 000	7,2	6,6	100-600	S + 190/200/215	115/230	N/A	4,0
SJ 256	2 500	2 500	6,0	5,5	100-600	S + 190/200/215	115/230	N/A	4,0
SJ 258	3 000	3 000	4,5	4,0	100-600	S + 190/200/215	115/230	N/A	4,0
SJ 355	3 000	3 000	7,2	6,6	100-600	S + 190/200/215	115/230	N/A	4,5
SJ 356	3 500	3 500	6,0	5,5	100-600	S + 190/200/215	115/230	N/A	4,5
SJ 358	4 000	4 000	4,5	4,0	100-600	S + 190/200/215	115/230	N/A	4,5
SJ 455	4 000	4 000	7,2	6,6	100-600	S + 190/200/215	115/230	N/A	5,0
SJ 456	4 500	4 500	6,0	5,5	100-600	S + 190/200/215	115/230	N/A	5,0
SJ 458	5 000	5 000	4,5	4,0	100-600	S + 190/200/215	115/230	N/A	5,0

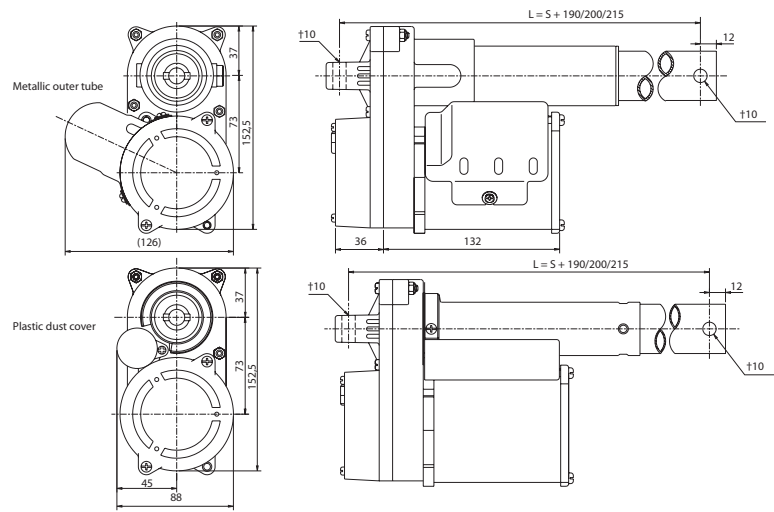
* Max. stroke for the tube version "I" is 250 mm.

** For clevis mounting; "01" and "05" L=S+190 mm, "02" L=S+215 mm, "03" and "04" L=S+200 mm.



Linear actuators

SJ 25, 35, 45 series



Type	SJ - - - - -									
Load (N) / Speed (mm/s)										
2 000 / 7,2		255								
2 500 / 6,0		256								
3 000 / 4,5		258								
3 000 / 7,2		355								
3 500 / 6,0		356								
4 000 / 4,5		358								
4 000 / 7,2		455								
4 500 / 6,0		456								
5 000 / 4,5		458								
Voltage										
115 VAC								115		
230 VAC								230		
Tube type										
With outer and inner tube										
Inner tube with plastic dust protection cover										
Inner tube only										
Mounting										
Square mounting										
Tube mounting with 4 holes										
Clevis mounting										
Clevis mounting										
Square mounting										
Cable connector										
No connector										
1x4C to control box										
1x3C to AC plug, 1x3C to pedant										
With one motor controller										
Feedback										
Potentiometer										
No sensor										
Stroke										
100 mm										
150 mm										
200 mm										
250 mm (250 mm is also the maximum stroke for tube version "I")*										
300 mm										
350 mm										
400 mm										
450 mm										
500 mm										
550 mm										
600 mm										

Customized cable length options:
Specify requested cable length in dm

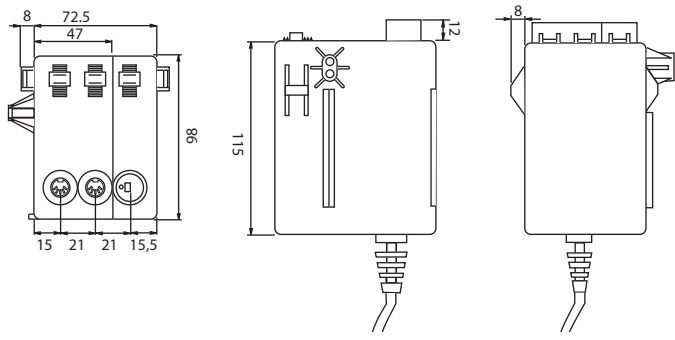
XX

Control units

Control box CB200

Features / Benefits

- Compact design
- CB200S with integrated overload protection
- CB200A with anti-pinching function
- Can be fitted to FD series actuator
- Duty cycle 10 %



Type	Control	Max. motor connections	Input	Output	Protection	Features
		n°	VAC	VDC/A	IP	
CB200S	Basic functions	3	(100 - 240)*	24/3	51	Standard
CB200A	Encoder processing	1	(100 - 240)*	24/3	51	Anti-pinching

* See type key for available voltage

Control box suitable for:

Actuator type/series: M, IMD3, FD, (CB200S/A)
Hand sets: HS-112, HS-124, HS-126, HS-138 (CB200S)
HS-112 (CB200A)

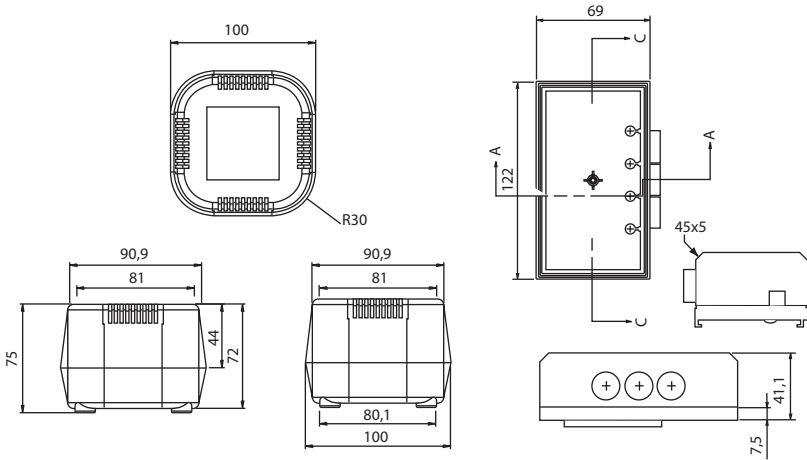
Model	CB 200 - - -
Type	
Standard version	S
Encoder processing version with anti-pinching function	A
Number of actuators	
1	1
2	2
3 (only for control box type "S")	3
Voltage (VAC)	
100	100
110-115	120
230	230
240	240

Control units

Control box CB300

Features / Benefits

- CB300S controls up to 2 actuators individually
- CB300A with anti-pinching function
- Control box can be fitted to FD series actuator
- Control box with separate external power supply box which can be placed on the floor next to the mains.
- Low voltage connection from the power supply to control box enables safety and low EMI/EMC operation
- Integrated overload protection
- Duty cycle 10 %



Type	Control	Max. motor connections n°	Input VAC	Output VDC/A	Protection IP	Features
CB300S	Basic functions	2	(100 - 240)*	24/3	51	Standard
CB300A	Encoder processing	2	(100 - 240)*	24/3	51	Anti-pinching

* See type key for available voltage

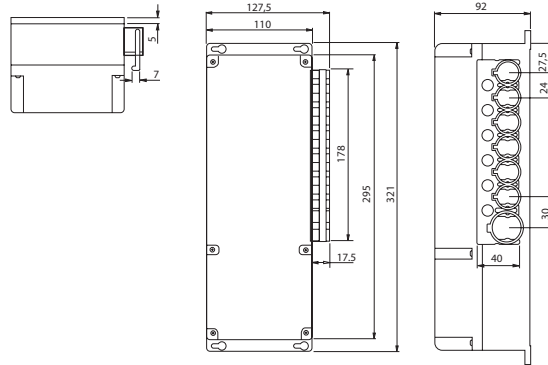
Control box suitable for:

Actuator type/series: M, IMD3, FD
Hand sets: HS-112, HS-124

Model	CB300	-	-	-	-
Type	Standard version	S	A	1	2
Encoder processing version with anti-pinching function + 1 safety strip					
Number of actuators	1				
	2				
Voltage (VAC)	100				100
	110-115				120
	230				230
	240				240

Control box CB800

- Controls up to 4 actuators individually
- Can be connected with external DC-power/battery
- With locking mechanism for DIN-plug and mains socket
- Integrated overload protection
- Duty cycle 10 %
- Protection class, IP51



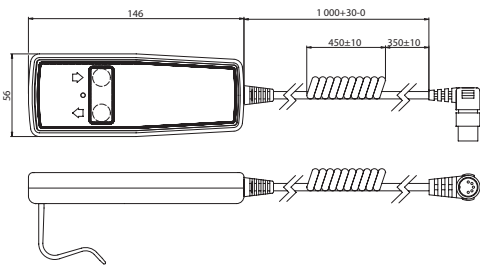
- Backup battery (CB800B only)
- Protection class, IP65

* See type key for available voltage

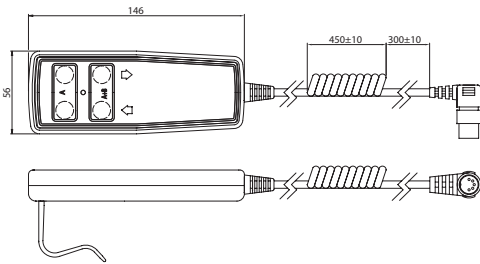
Hand sets: HS-138, HS-148

Model							
Type							
Standard version						S	
Standard version with backup battery						B	
Standard version with external DC- power input (only with 1 handset)						E	
Number of actuators							
1							1
2							2
3							3
4							4
Number of hand sets							
1							1
2 (not available for type "E")							2
Voltage (VAC)							
100							100
110-115							120
230							230
240							240
Option							
Protection class, IP65							

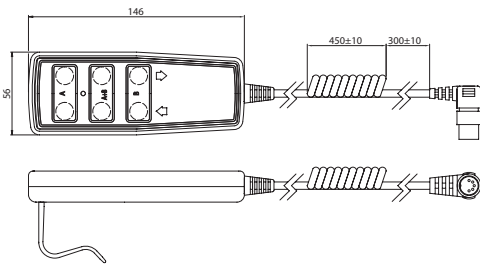
Hand switch



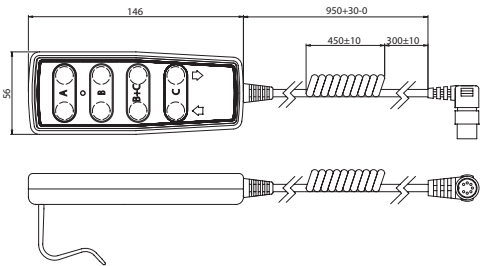
HS 112



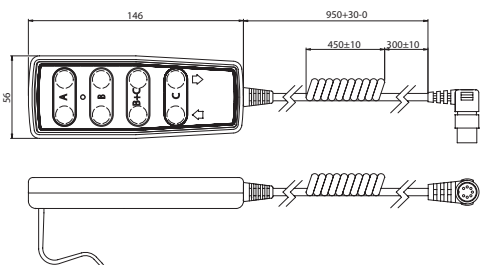
HS 124



HS 126

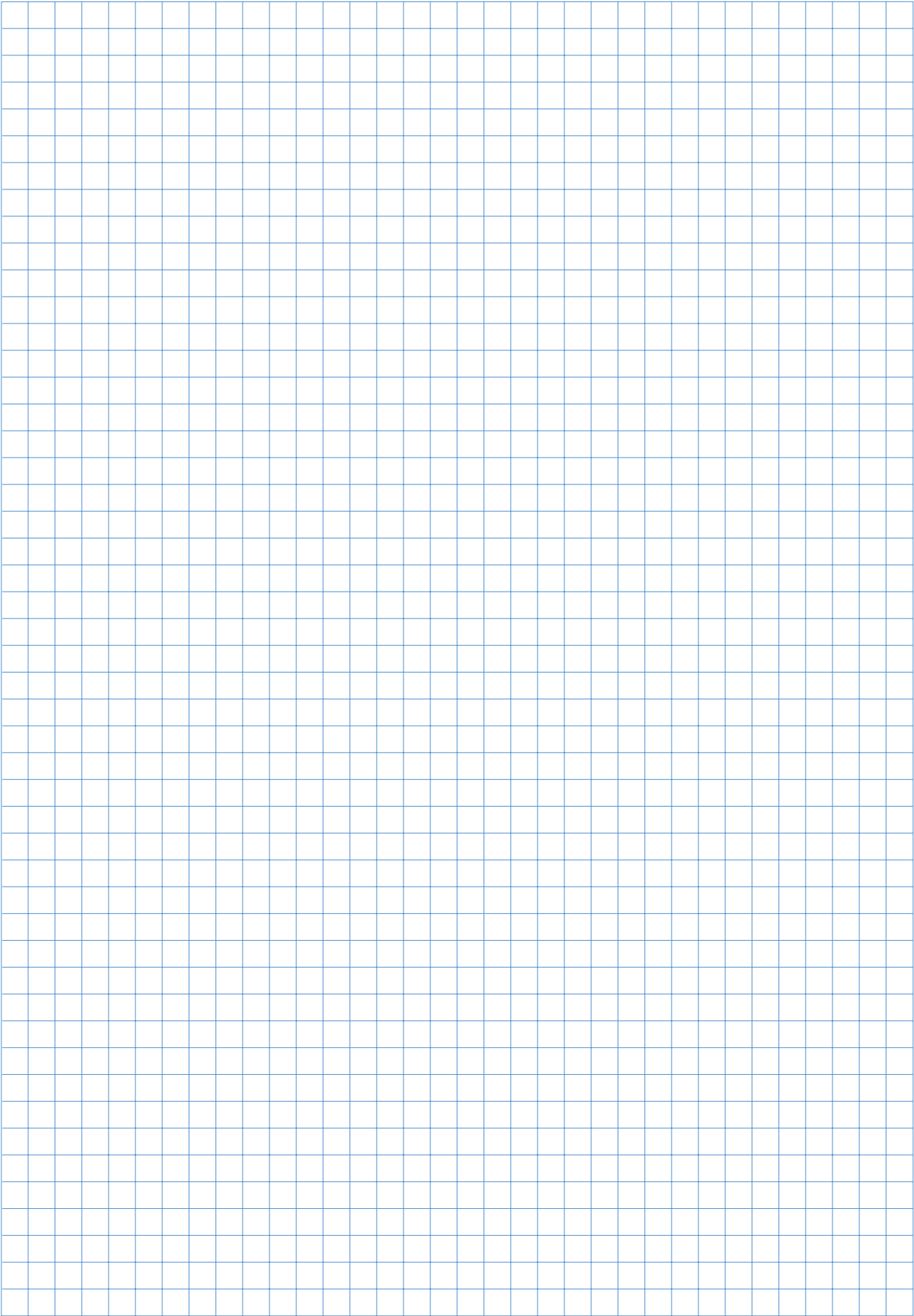


HS 138



HS 148





Engineering Creativity



LOGISTICS



ENGINEERING



QUALITY
CONTROL
SYSTEM



MANUFACTURING

Reliability



GLOBAL SOURCING

Innovation



Canimex Inc., 285, Saint-Georges, Drummondville (Québec) J2C 4H3 Canada
☎ 819 477-1335 📠 819 477-7212 📧 mec@canimex.com 🌐 www.canimex.com