

Technical data



Available input voltages [Vac]	1 × 230 or 3 × 400
Input frequency [Hz]	50
Available screw types	Acme or Ball
Max. static load at fully retracted [N]	
Acme screw models	11 350
Ball screw models	18 000
Min. / max. standard stroke [inch]	4 / 24
Duty cycle @ 25° C [%]	25
Max. operation time [s]	45
Temperature limits at operation [°C]	- 25 to + 65
Protection degree	IP45
Max. end play [mm]	1
Restraining torque [Nm]	12
Wire cross section [mm ²]	1,5
Wire length [mm]	600
Connector included	no

Features

- Rugged and robust
- Overload clutch (set to 1,2 – 1,5 × max. permissible load)
- Motor with auto reset thermal overload protection
- Acme or ball screw drive
- Holding brake prevents back driving on ball screw models
- Acme screw models are self-locking
- Anti coast brake on all ball screw models (optional on acme models)
- Safety nut on all ball screw models
- Can operate in a large temperature range
- Accepts large input voltage variations
- Maintenance free

Options

- Potentiometer feedback
- Hand wind
- Custom RAL color

Engineering notes

- Capacitor (10 µF) necessary on 230 Vac models, p/no. D9200-448-003

Performance table

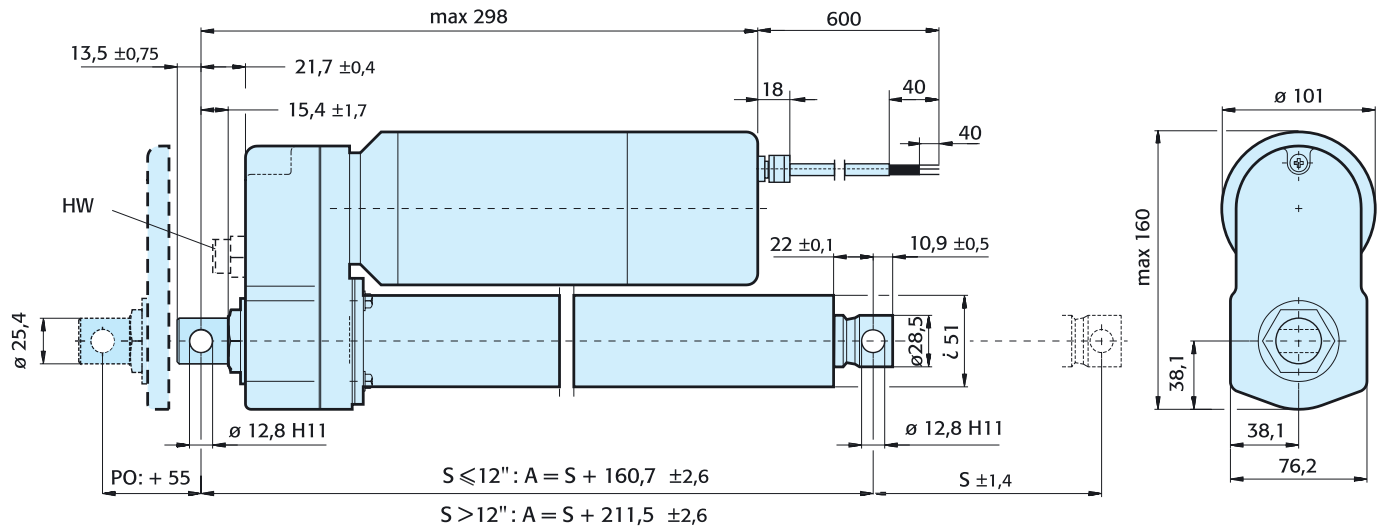
Model	Max. dynamic load [N]	Speed @ min. load [mm/s]	Speed @ max. load [mm/s]
A22-05A5	1100	48	38
A22-05B5	2250	61	37
A42-05B5	2250	61	37
A22-10A5	2250	30	18
A42-10A5	2250	30	18
A22-10B5	4500	30	19
A42-10B5	4500	30	19
A22-20A5	2250	15	12
A42-20A5	2250	15	12
A22-20B5	4500	15	12
A42-20B5	4500	15	12
A22-21B5	6800	15	11
A42-21B5	6800	15	11

Standard strokes

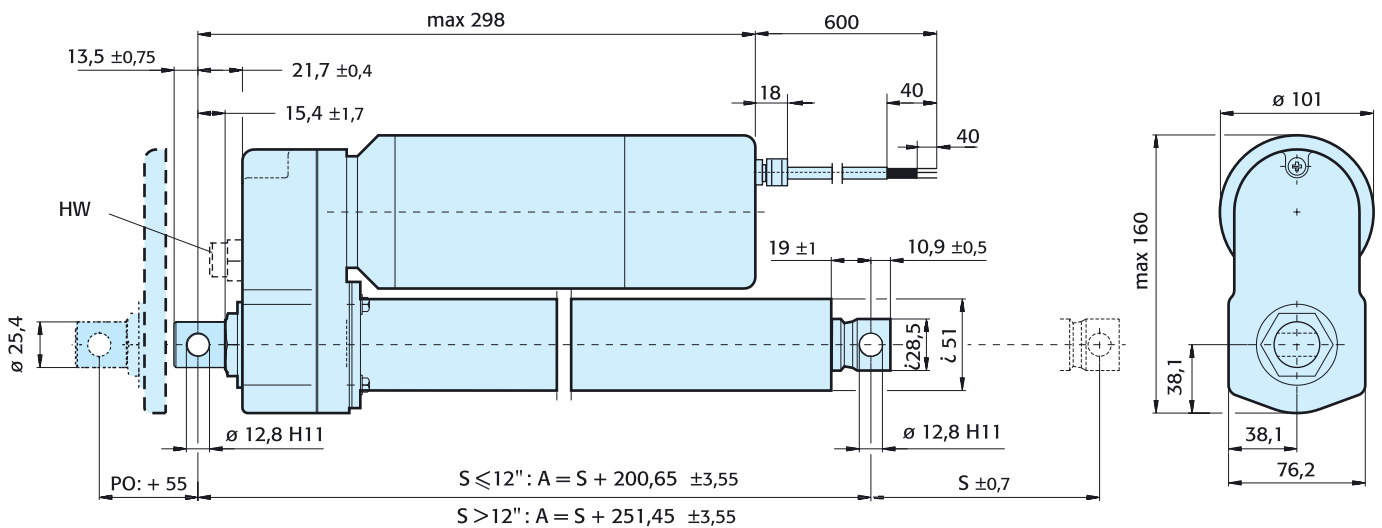
Ordering stroke [inch]	Actual stroke S [mm]
4	101,6
6	152,4
8	203,2
10	254,0
12	304,8
14	355,6
16	406,4
18	457,2
20	508,0
24	609,6

Dimensions

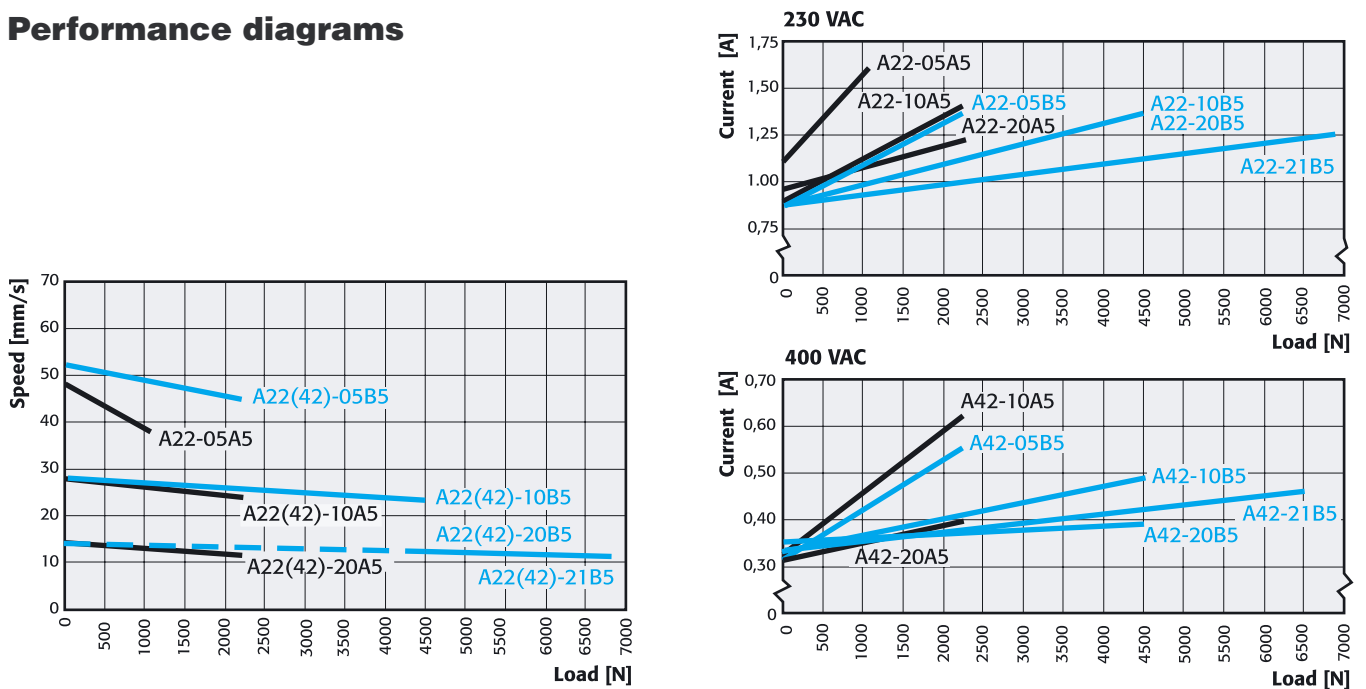
Acme screw driven models



Ball screw driven models



Performance diagrams

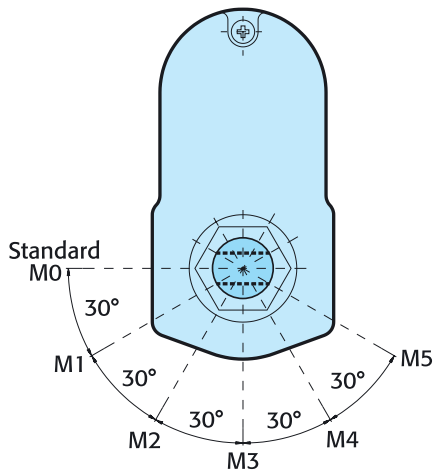


Electrak LA5

Designation example	A	22	-	10B5	-	02	M0	N	
Actuator type LA5	A								
Supply voltage 1 × 230 Vac, 50 Hz 3 × 400 Vac, 50 Hz		22 42							
Hyphen			-						
Gear ratio / screw type / screw diameter / screw lead 5:1 / acme screw / 15,88 mm / 5,08 mm (not possible with 400 Vac motor) 10:1 / acme screw / 15,88 mm / 5,08 mm 20:1 / acme screw / 15,88 mm / 5,08 mm 5:1 / ball screw / 15,88 mm / 5,08 mm 10:1 / ball screw / 15,88 mm / 5,08 mm 20:1 / ball screw / 15,88 mm / 5,08 mm 20:1 / ball screw / 15,88 mm / 5,08 mm with hardened gear				05A5 10A5 20A5 05B5 10B5 20B5 21B5					
Engineering unit Inch					-				
Stroke 4 inch (101,6 mm) 6 inch (152,4 mm) 8 inch (203,2 mm) 10 inch (254,0 mm) 12 inch (304,8 mm) 14 inch (355,6 mm) 16 inch (406,4 mm) 18 inch (457,2 mm) 20 inch (508,0 mm) 24 inch (609,6 mm)						04 06 08 10 12 14 16 18 20 24			
Adaptor hole position (for definition see page 26) Rear adaptor 0° (standard position) Rear adaptor 30° Rear adaptor 60° Rear adaptor 90° Rear adaptor 120° Rear adaptor 150°							M0 M1 M2 M3 M4 M5		
Anti coast brake No anti coast brake Anti coast brake								N B	
Options No option - leave position blank Feedback potentiometer Hand wind									PO HW

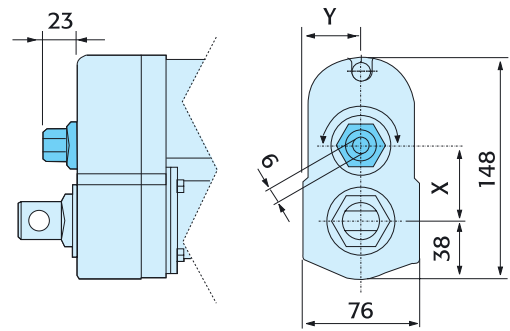
Rear adaptor hole position

LA5
LA10
LA14
LA24
FA14



Hand wind

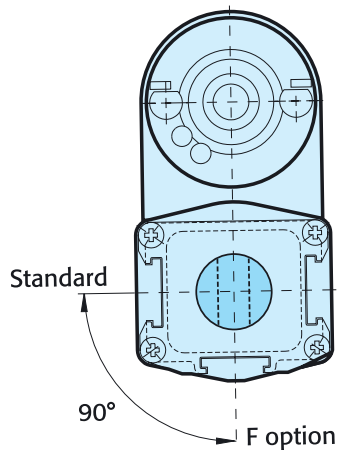
LA5
LA10
LA14
LA24
FA14



Gear ratio	X	Y
5:1	49,6	38,0
10:1	43,3	43,2
20:1	38,9	38,0

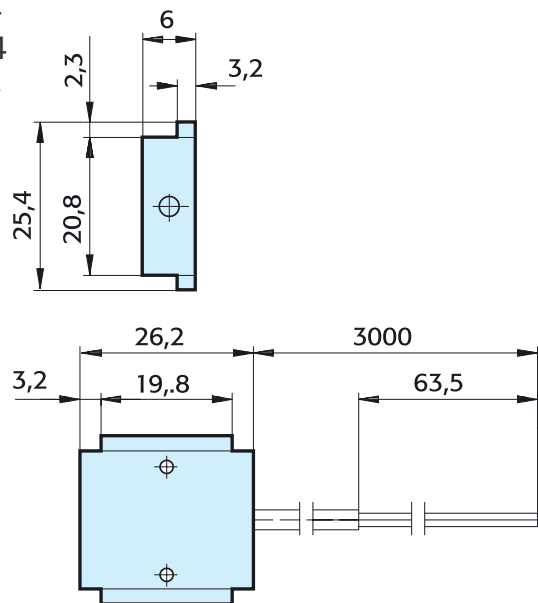
Rear and front adaptor hole in 90°

LA14
LA24
FA14



Sensors

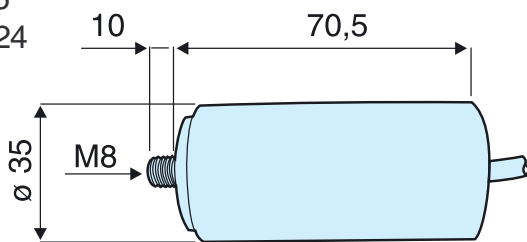
LA14
LA24
FA14



Sensor data	
Max. power [W]	10
Max. voltage [Vdc]	43,3
Max. current [A]	0,5
Max. contact resistance [ohm]	0,2
Lead data [mm ²]	0,12

Capacitor

LA5
LA24



Cable: 2 x 0,75 mm², length 170 mm

A 10 µF capacitor is necessary for all 1 x 230 Vac actuators.

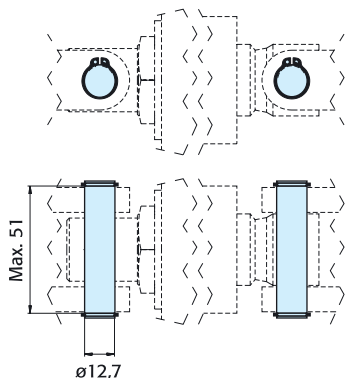
Capacitor 10 µF

D9200-448-003

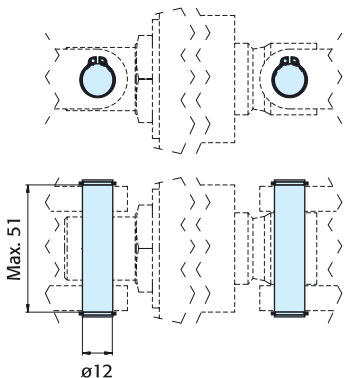
Normally open	D535 070
Normally closed	D535 071

Mounting pins

LA5
LA10



LA14
LA24
FA14



LA5, LA10 (2 x)

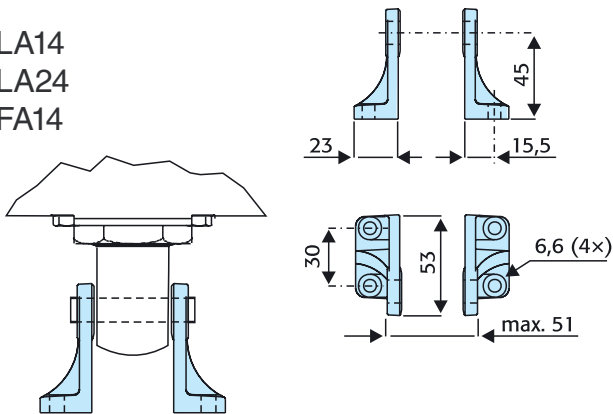
D603 028

LA14, LA24, FA14 (2 x)

D603 023

Mounting pin brackets

LA14
LA24
FA14

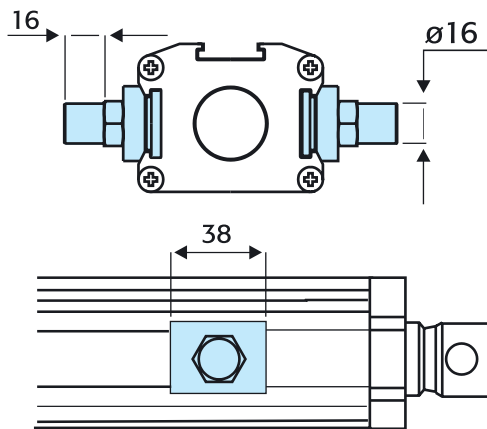


LA14, LA24, FA14 (2 x)

D603 029

Trunnion pins

LA14
LA24
FA14

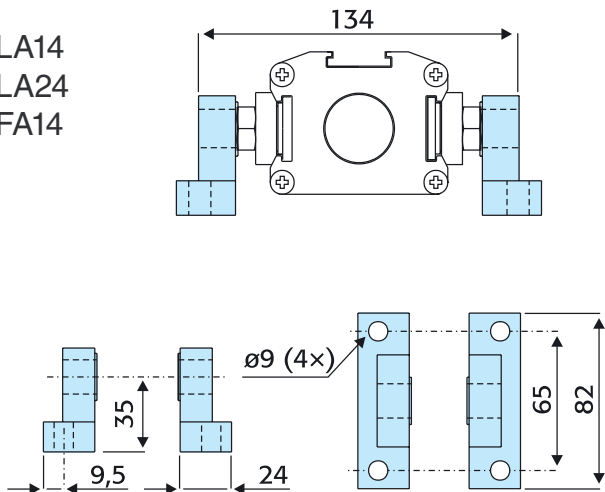


LA14, LA24, FA14 (2 x)

D603 022

Trunnion pin brackets

LA14
LA24
FA14



LA14, LA24, FA14 (2 x)

D603 030