

Linear actuator DSZY30

Electric linear actuators are used in different applications. The electric actuator DSZY30 is a special version, where the motor is not laterally but axially mounted to the piston rod.

Equipped with an acme screw (ACME screw), it is a small, compact and lightweight DC linear drive.

Due to an integrated diode circuit, a rapid direction reversal is ensured by simple voltage reversal of the DC motor.

It is standard, that all types have two integrated non-adjustable limit switches, which are directly connected with the DC motor.

Overloading of the actuator can be avoided by separate monitoring and limiting of the current with the motor control.

Standard
CE



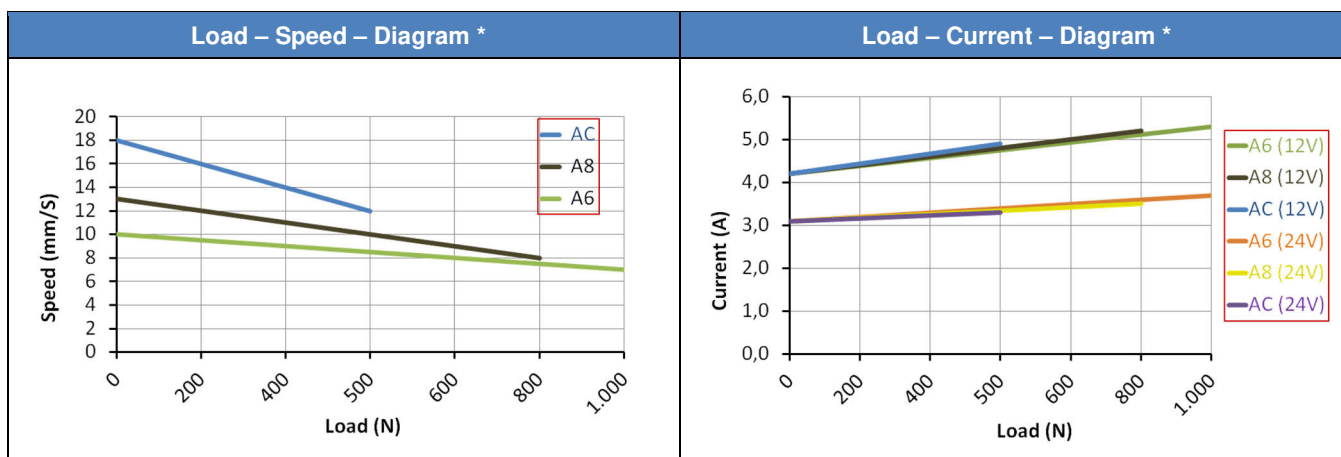
DSZY30

Type code (all options can be combined)

DSZY30					Optional		
Type	Input Voltage	Spindle	Stroke	Protection type	C	A	6
	12 V	AC	50 mm			Front-connector (piston rod)	Rear-connector (gear cover)
	24 V	A8	100 mm			1 = plastic	6 = Standard
		A6	150 mm			3 = Standard	
			200 mm			9 = Kugelkopf	
			250 mm			A = Gabelkopf	
			300 mm				

Performance data: Load – Speed – Current

Spindle	Dynamic load (N)	Static load (N)	Typical speed * (mm/s)		Typical current * (A)			
			minimum load	maximum load	minimum load		maximum load	
					12 V	24 V	12 V	24 V
AC	500	2,000	18.0	12.0	4.2	3.1	4.9	3.4
A8	800	3,000	13.0	8	4.2	3.1	5.2	3.6
A6	1,000	4,000	10	7	4.2	3.1	5.3	3.7



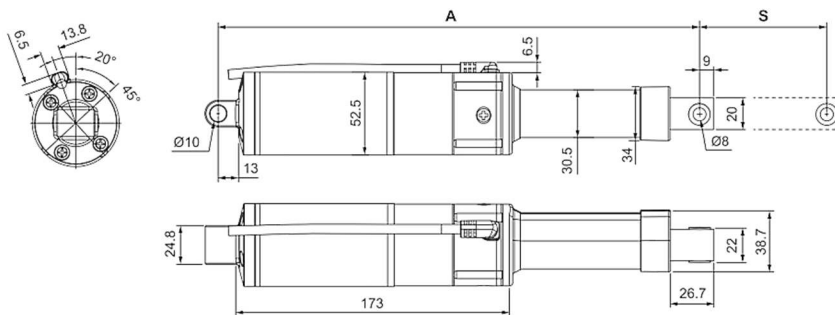
(*) Average values

Additional technical specifications

- push/pull force up to 1000 N
- Static load up to 4.000 N (by spindle type A6)
- Noise Level ≤ 65 dB
- Aluminium outer tube and stroke rod
- Voltage 12 V or 24 V
- Operating temperature -26 C° - 65 C°
- Protection type IP54
- Duty cycle 10 % or 2 min continuous operation in 18 min
- CE
- EMC Directive 2014/30/EU and 2004/108/EC

Dimensions

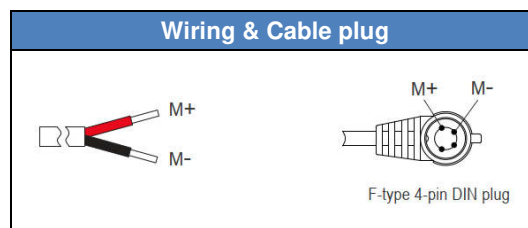
Front connector	Dimensions (length) in mm						
	Stroke (S) ± 3 mm	50	100	150	200	250	300
Type: 3 (standard)	(A) retracted	306	356	406	456	506	556
	(A+S) extended	356	456	556	656	756	856
Type: 9	(A) retracted	332	382	432	482	532	582
	(A+S) extended	382	482	582	682	782	882
Type: 1 o. A	(A) retracted	315	365	415	465	515	565
	(A+S) extended	365	465	565	665	765	865



Red wire on "+" and black wire on "-":
Actuator extends.

Black wire on "+" and red wire on "-":
Actuator retracts.

Cable length: 1,000 mm



Weight

Stroke in mm	50	100	150	200	250	300	350	400
Weight in kg	1.000	1.130		1.410		1.700		1.860

Front and rear connector

Front connector (piston rod)				Rear connector (gear cover)
1 (plastic)	3 = Standard	9	A (metal)	6 = Standard (plastic)
D1=8 mm H=15 mm W2=6 mm	D1=8 mm W1=22 mm	D1=8 mm	D1 = 8 mm H = 13,5 mm W1=22 mm W2=6 mm	

CAUTION:

C36 is standard and will not be specified in the type code.

If at least one connector is changed, option C must be attached to the type key (e.g. DSZY30...-IP54-C91)

Mounting material

Mounting Bracket DSZY1-H02	
Caution: only suitable for piston rod	

Installation instructions

It must be ensured that the load is not greater than shown in the diagram. To protect against overload, the voltage must be switched off when the maximum rated current is reached. This can be read in the force-current diagram depending on the selected reduction ratio. Please note the correct supply voltage, which is indicated on the electric linear actuator.

The piston rod extends when the red wire is connected to positive and the black wire line to negative. For the retraction of the piston rod, positive must be reversed with negative. The movement always stops automatically when the built-in limit switches are reached or when the voltage is interrupted.

The limit switches cannot be changed by the customer. The load must always be centered in the direction of movement. Transverse forces must be avoided. They shorten the service life and can impede the function or lead to irreparable damage in extreme cases.

The piston rod tube is screwed onto the spindle nut via a thread. It is therefore possible, if necessary, to rotate the piston rod and thus the fastening eye by max. 180° into the desired position.

If no rotational forces act on the piston rod, the latter retains its orientation and does not rotate.

CAUTION: The limit switches have no on/off function for the linear actuator. Therefore, the voltage must be immediately disconnected after the limit switches have been triggered, or the piston must be moved out of the end position in a timely manner.



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