Linear actuator DSZY6-LT-POT (Limit switches and potentiometer)

The electric linear actuators DSZY6 are operated with alternating current. The DSZY6 linear actuator is available in four different models:

- DSZY6-STD (Standard) (standard for all applications without position feedback)
- DSZY6-POT
 (with potentiometer for absolute position feedback)
- DSZY6-LT
- (with integrated limit switches)
- DSZY6-LT-POT
 - (with potentiometer and integrated limit switches)

Equipped with a ball screw spindle (Ball screw), it is a durable and robust AC linear drive. Thanks to the ball threaded spindle, it achieves high self-locking.

In addition, mechanical overload protection has been integrated. The motor is also protected by a temperature overload protection.

Type code (all options can be combined)



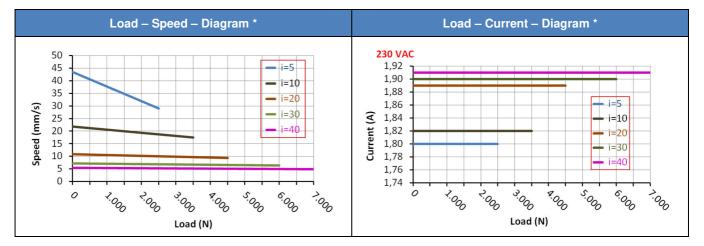
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DSZY6 ·	- 230	- 10	203	- LT-POT	IP65
Туре	Input	Gear	Stroke	Model	IP Code
	voltage	reduction i	102 mm	LT-POT: with integrated	
	230 Vac	05	153 mm	limit switches and	
		10	203 mm	potentiometer for position	
		20	254 mm	feedback	
		30	305 mm		
		40	457 mm		
			610 mm		

Performance data: Load – Speed – Current

Gear	Dynamic Ioad	Static Ioad	Typical (mn	speed * n/s)	Typical current * (A)		
reduction i	(N)	(N)	minimum laod	maximum load	minimum laod	maximum Ioad	
5	2,500	approx. 5,000	43.5	29.0	1.80	1.80	
10	3,500	approx. 6,000	21.8	17.5	1.82	1.82	
20	4,500	approx. 8,000	10.8	9.3	1.89	1.89	
30	6,000	approx. 11,000	7.2	6.3	1.90	1.90	
40	7,000	13,600	5.4	4.9	1.91	1.91	



(*) Average values

Additional technical specifications

- Thrust and tensile load up to 7,000 N
- Static load: 13,600 N (at i=40)
- Duty cycle 25 % (e.g. 4 min continuous operation 12 min pause)
- Zinc alloy casing Stainless steel outer tube
- CE EMV 2014/30/EU

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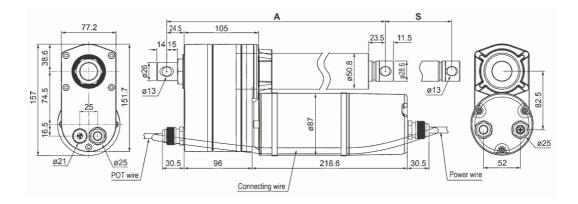
(EN 61000-6-3:2007+A1:2011)

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IP Code IP65 for all models (in idle state)
Working temperature -25 °C to +65 °C

Dimensions

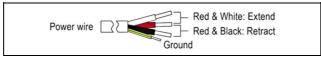
Dimensions (length) in mm											
Stroke ± 5 mm	457	610									
(A) retracted	399	450	501	552	680	832	985				
(A+S) extended	501	603	704	806	985	1,289	1,595				



Weight

Stroke in mm	Туре	102	153	203	254	305	457	610
Weight in kg (incl. packing) approx.	LT-POT			8.5	9.3			12.1

Pin assignment

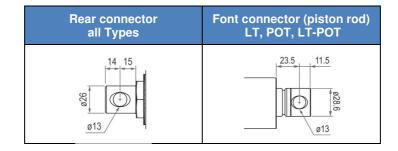


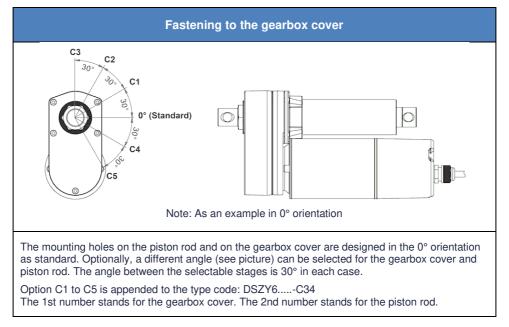
Potentiometer

	Power				Po	Potentiometer (10 kOhm)					(Y) W
	Red	Black	White	GND	Blue	•	Yellow Vcc		White		
	neu	Black	white	CIND	Data	ι			GND		
	Strok	e (mm)	102	153	203	254	ŀ	305	457	610	B ₩—^^^_Y
R	Resistor value (kOhm)		n) 0.3 - 8.1	0.3 - 8.7	0.3 - 9.2	0.3 - 7	7.4	0.3 - 8.8	0.3 - 9.4		Actuator extends

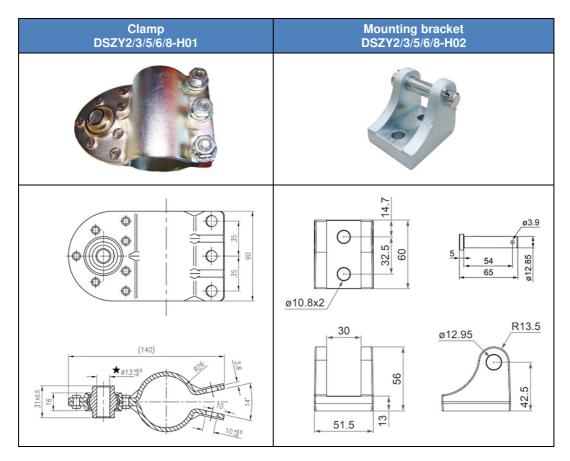


Front and rear connector





Mounting material





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 load-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 is secured against twisting.

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 actuator has a mechanical overload clutch. The activation of this clutch is expressed in a loud rattling sound. **CAUTION:** The overload clutch is not designed for permanent use. Rather, it is intended for emergencies if, for example, the power monitoring fails. For the standard version of the actuator the use of external limit switches is therefore strongly recommended.

CAUTION: Please note the correct wiring for retraction or extension. The connection diagram can be found at the top of the specification sheet.



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Errors and technical changes excepted.

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