

## Linear actuator DSZY6-STD (Standard)

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 threaded 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.

Standard  
CE



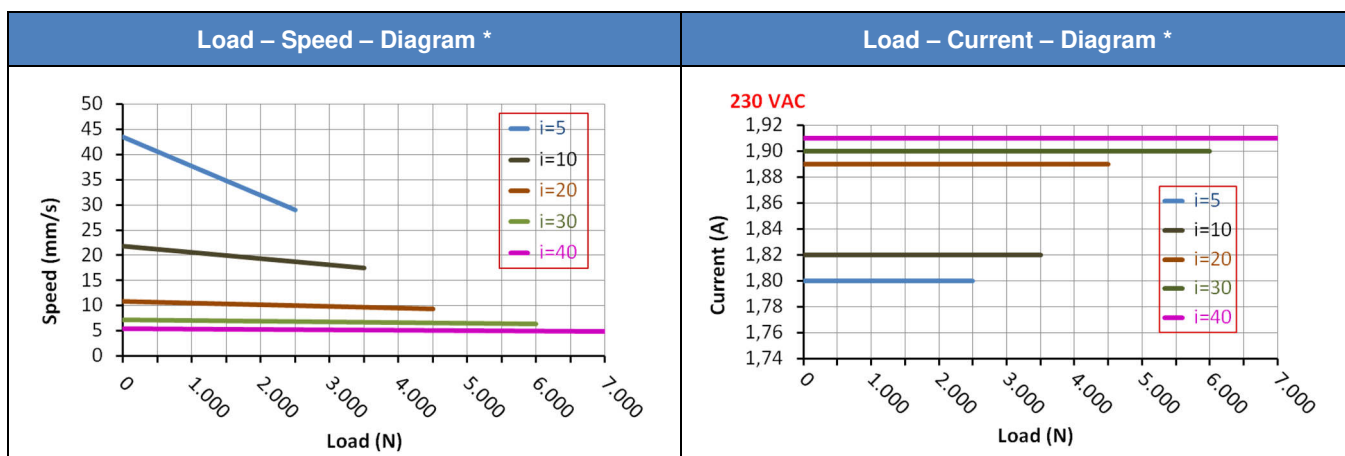
**DSZY6**

## Type code (all options can be combined)

DSZY6	-	230	-	10	-	203	-	STD	-	IP65
Type		Input voltage		Gear reduction i		Stroke		Model		IP Code
		230 Vac		05		102 mm		STD: Standard		
				10		153 mm		(without integrated, adjustable limit switches)		
				20		203 mm				
				30		254 mm				
				40		305 mm				
						457 mm				
						610 mm				

## Performance data: Load – Speed – Current

Gear reduction i	Dynamic load (N)	Static load (N)	Typical speed * (mm/s)		Typical current * (A)	
			minimum load	maximum load	minimum load	maximum load
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



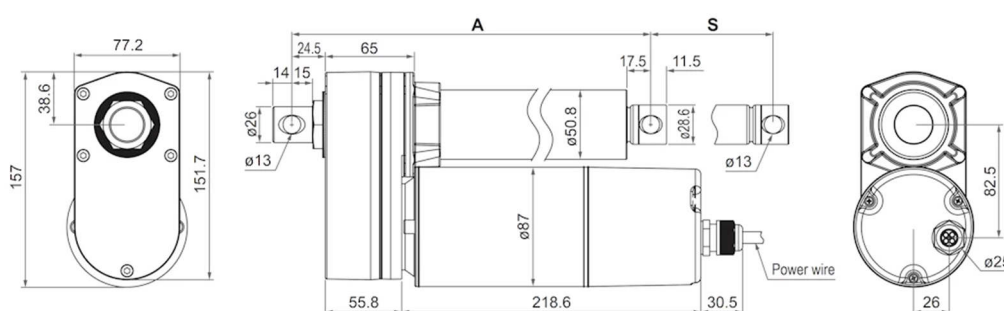
(\*) Average values

## 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
- IP Code IP65 for all models (in idle state)
- Working temperature -25 °C to +65 °C
- CE - EMV 2014/30/EU (EN 61000-6-3:2007+A1:2011)

## Dimensions

Dimensions (length) in mm							
Stroke ± 5 mm	102	153	203	254	305	457	610
<b>(A)</b> retracted	302	353	404	455	506	735	888
<b>(A+S)</b> extended	404	506	607	709	811	1.192	1.498



## Weight

Stroke in mm	Type	102	153	203	254	305	457	610
Weight in kg (incl. packing) approx.	STD							

## Pin assignment

Power wire		<b>Gear ratio: 05 – 10 – 20</b>
Power wire		<b>Gear ratio: 30 – 40</b>



## 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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