

Linear actuator DSZY3-POT (Potentiometer)

DSZY3 electric linear actuators are required in a wide variety of applications. Therefore, it is available in six models:

1. DSZY3-STD (Standard)
(for all applications without position feedback)
2. **DSZY3-POT**
(with potentiometer for absolute position feedback)
3. DSZY3-HS2
(with 2-channel Hall sensor for incremental position feedback)
4. DSZY3-LT
(with integrated limit switches)
5. DSZY3-LT-POT
6. DSZY3-LT-HS2

Equipped with a ball screw spindle (Ball screw), it is a durable and robust DC linear drive, thus achieving high self-locking. In addition, mechanical overload protection has been integrated.

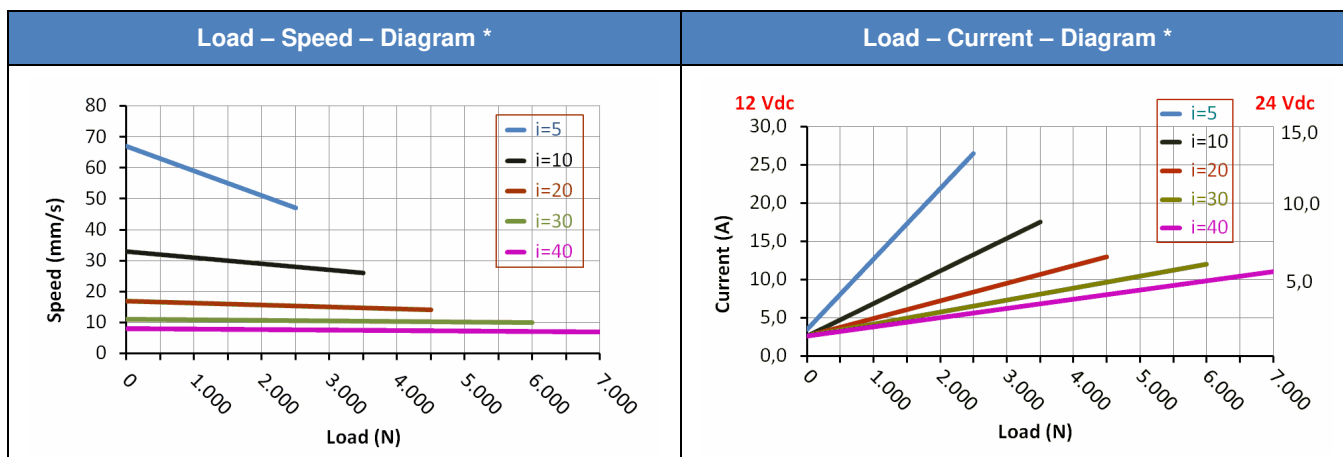


Type code (all options can be combined)

DSZY3	-	12	-	10	-	203	-	POT	-	IP65
Type		Input voltage		Gear reduction i		Stroke		Model		IP Code
		12 Vdc		05		102 mm		POT: Potentiometer		
		24 Vdc		10		153 mm		(without limit switches,		
				20		203 mm		with position feedback)		
				30		254 mm				
				40		305 mm				
						457 mm				
						610 mm				

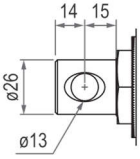
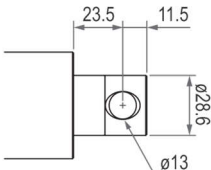
Performance data: Load – Speed – Current

Gear reduction i	Dynamic load (N)	Static load (N)	Typical speed * (mm/s)		Typical current * (A)			
			minimum load	maximum load	minimum load		maximum load	
					12 Vdc	24 Vdc	12 Vdc	24 Vdc
5	2,500	approx. 5,000	67.1	47.2	3.4	2.6	26.4	13.2
10	3,500	approx. 6,000	33.5	26.7	2.6	1.6	17.6	8.8
20	4,500	approx. 8,000	16.8	14.3	2.6	1.6	13.2	6.6
30	6,000	approx. 11,000	11.2	9.8	2.6	1.6	12.1	6.1
40	7,000	13,600	8.4	7.4	2.6	1.6	11.0	5.5

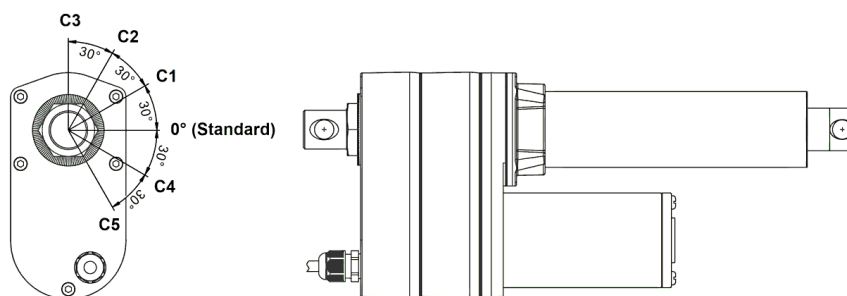


(*) Average values

Front and rear connector

Rear connector all Types	Font connector (piston rod) POT, HS2, LT, LT-POT, LT-HS2
	

Fastening to the gearbox cover





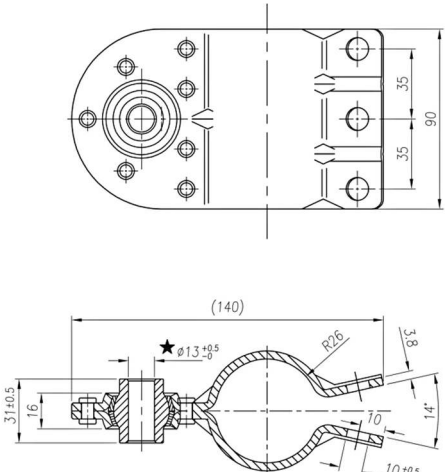
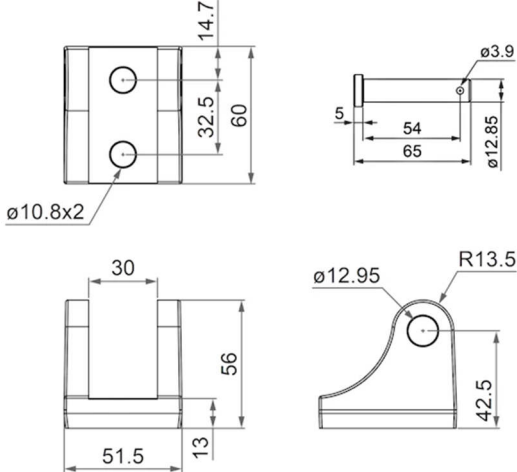
Note: As an example in 0° orientation

The mounting holes on the piston rod and on the gearbox cover are designed in the 0° orientation as standard. Optionally, a different angle (see picture) can be selected for the gearbox cover and piston rod. The angle between the selectable stages is 30° in each case.

Option C1 to C5 is appended to the type code: DSZY3.....-C34

The 1st number stands for the gearbox cover. The 2nd number stands for the piston rod.

Mounting material

Clamp DSZY2/3/5/6/8-H01	Mounting bracket DSZY2/3/5/6/8-H02
	
	

Installation instructions

Please note the correct supply voltage as indicated on the electric linear actuator. 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 current is reached. This can be read in the diagram depending on the selected reduction ratio.


The piston rod is secured against rotation.

In an emergency, the linear actuator is protected by a mechanical overload clutch. The response of this clutch is expressed in a loud rattling tone.

CAUTION: The overload coupling is not designed for continuous use. Instead, it is intended for emergencies, for example, if current monitoring fails. The use of external limit switches is therefore strongly recommended in the standard model.

CAUTION: Please observe the correct wiring for the retraction or extension (see pin assignment in the data sheet).

The load should always be centered in the direction of movement. Transverse forces must be avoided. They always shorten the service life and can impede the function or even destroy the device in extreme cases.

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