

Linear actuator DSZY13-LT-ER2

DSZY13 electric linear actuators are required in a wide variety of applications. Therefore, it is available in three models:

1. **DSZY13-LT-ER2**
(with internal limit switches and external, adjustable limit switches)
2. **DSZY13-LT-HS-ER2**
(additionally with Hall sensor for incremental position feedback)
3. **DSZY13-LT-POT-ER2**
(additionally with potentiometer for absolute position feedback)

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. All models contain internal limit switches as well as external quick and easy adjustable limit switches (reed sensors).

Limit switch LT-ER2

CE



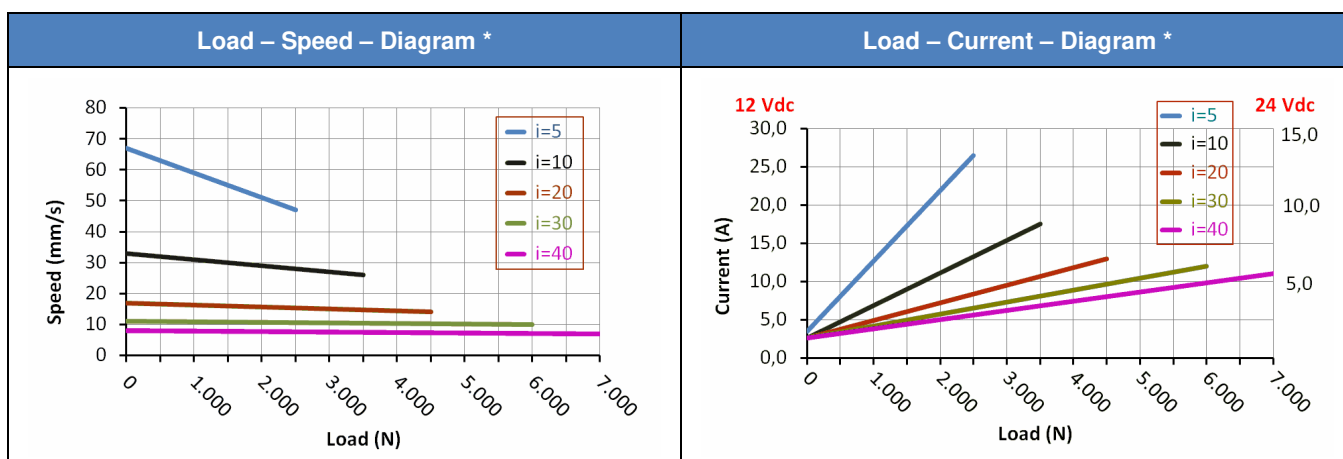
DSZY13

Type code (all options can be combined)

DSZY13	-	12	-	10	-	200	-	LT	-	ER2-NC	-	IP66
Type		Input Voltage		Gear reduction i		Stroke		Model		External limit switches		IP Code
		12 Vdc		05		100 mm		LT: integrated limit switches (without position feedback)		- ER2-NC (normally close)		optionally: IP69K
		24 Vdc		10		150 mm				- ER2 – NO (normally open)		
				20		200 mm						
				30		300 mm						
				40		450 mm						
						600 mm						

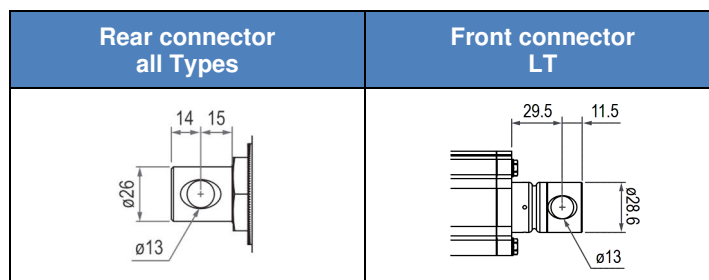
Performance data: Load – Speed – Current

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	8.6
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

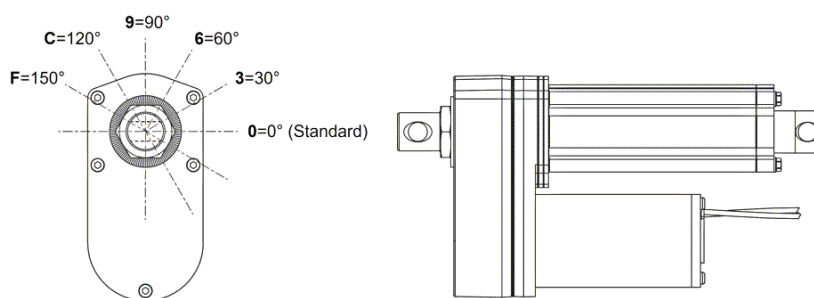


(*) Average values

Front and rear connector



Rear connector (Fastening to the gearbox cover)



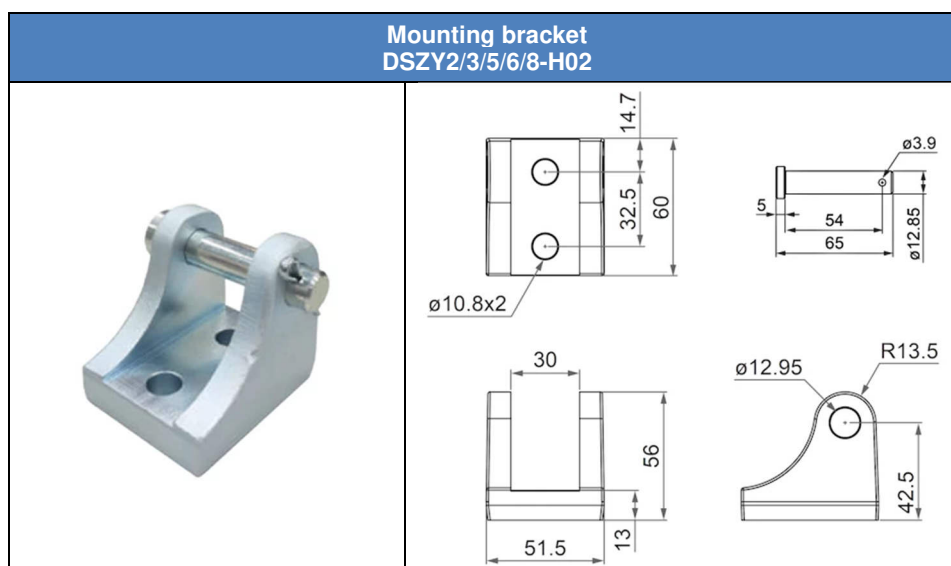
Note: As an example in 0° orientation

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 0 to F is appended to the type code: e.g. DSZY13...-F6

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

Mounting material



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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