

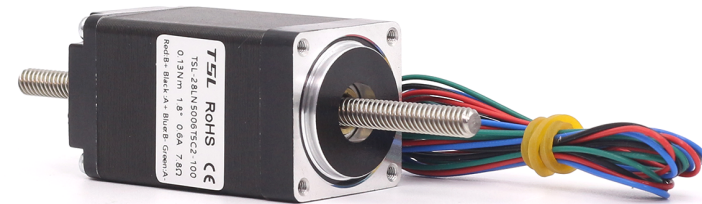
NEMA 11 (28 mm) Non-captive Hybrid Linear Stepper Motor

TSL-28LN Series

The TSL-28LN Series combines a 28 mm hybrid stepper motor with a non-captive linear screw mechanism. Standard configurations cover different screw leads and travel lengths to support thrust and positioning requirements in compact linear-motion applications.

Series Highlights

| | |
|----------------------|--------------|
| Frame Size | 28 x 28 mm |
| Motor Length Options | 40 mm |
| Screw Diameter | 5 mm |
| Screw Lead Options | 2 / 4 / 8 mm |
| Holding Torque | 90 mNm |
| Rated Current | 0.7 A |
| Rated Thrust Range | 35 - 79 N |



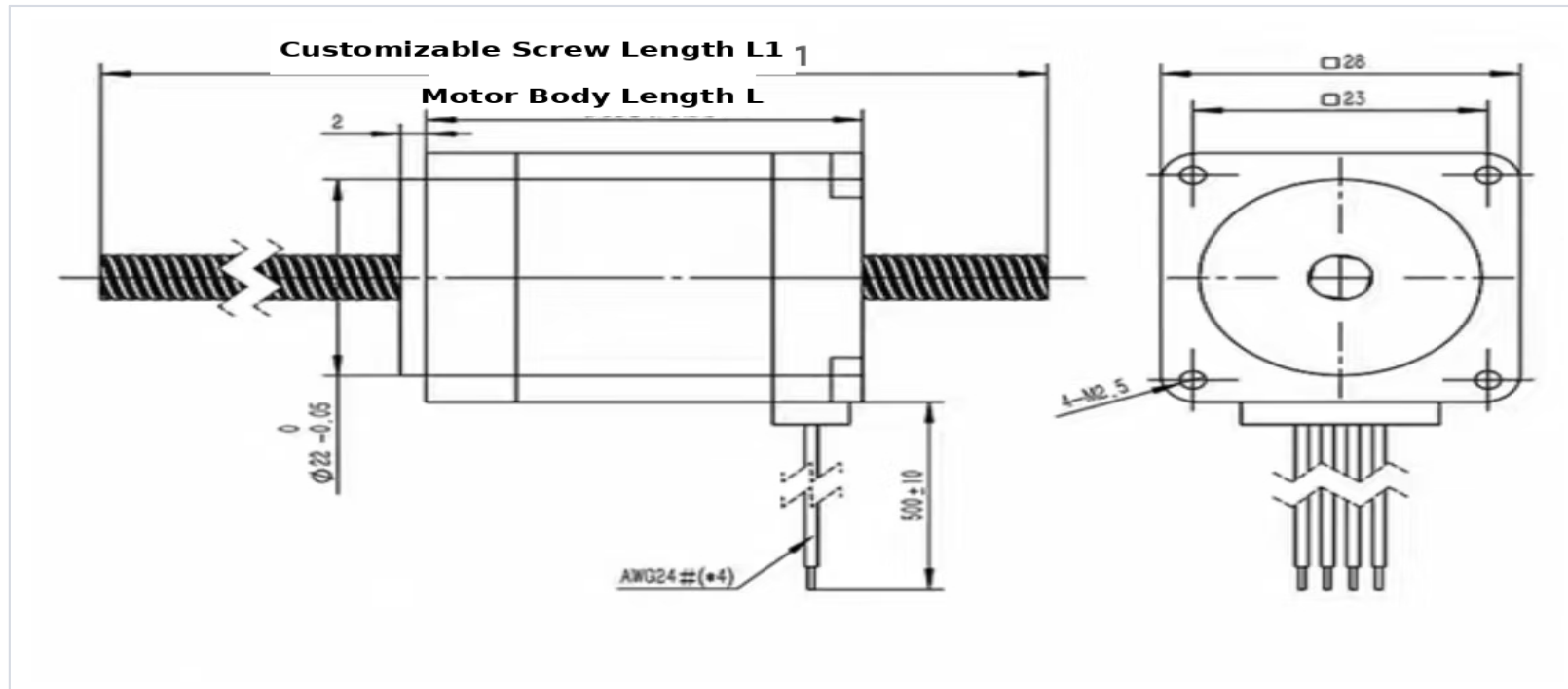
Non-captive Linear Stepper Motor

Performance Parameters

| Motor Model | Holding Torque | Rated Current | Motor Length | Screw Length | Screw Diameter | Screw Lead | Rated Thrust | Horizontal Max. Load | Vertical Max. Load |
|----------------------|----------------|---------------|--------------|--------------|----------------|------------|--------------|----------------------|--------------------|
| | mNm | A | mm | mm | mm | mm | N | Kg | Kg |
| TSL-28LN4007T5C2-250 | 90 | 0.7 | 40 | 250 | 5 | 2 | 79 | 4 | 2 |
| TSL-28LN4007T5C4-250 | 90 | 0.7 | 40 | 250 | 5 | 4 | 50 | 3 | 1.5 |
| TSL-28LN4007T5C8-250 | 90 | 0.7 | 40 | 250 | 5 | 8 | 35 | 2 | 1 |

Performance parameters are for reference only and can be customized according to customer requirements.

Mechanical Dimensions



Drawing Notes

- L = motor body length.
- $L1$ = screw length.
- Nominal frame size: 28×28 mm.
- Lead screw diameter: $\phi 5$ mm.
- Lead wire: AWG24, 4 wires, standard lead length 500 ± 10 mm.

Customization Options

The drawing is for reference only. Ball-screw versions, encoder options, and integrated encoder-and-driver solutions are available according to customer requirements.