



ACT motor Nema17 planetary gearbox stepper motor, 17HS5425AG5.18-XJTH, 1.8° step angle, 1.7A

ACT motor Planetary geared motor 17HS5425AG5.18-XJTH The ACT planetary geared motor 17HS5425AG5.18-XJTH is a high-quality geared motor with...

Product number ACT-17HS5425A

Weight 0.57kg



Product description

ACT motor Planetary geared motor 17HS5425AG5.18-XJTH

The ACT planetary geared motor 17HS5425AG5.18-XJTH is a high-quality stepper motor with integrated planetary gearbox, ideal for applications that require precise motion control and high holding torque. The motor has a length of 48 mm, the gearbox measures 28 mm. With a step angle of 1.8° and a rated current of 1.7 A per phase, it offers reliable performance. The reduction ratio of 1:13.76 increases the motor's holding torque to 7.155 Nm, making it ideal for applications with high load requirements.

What is a planetary gear stepper motor?

A planetary gear stepper motor is a stepper motor that is equipped with an integrated planetary gear. This gear consists of several gears that are arranged around a central gear, the so-called sun gear. This arrangement ensures an even load distribution and enables precise control with a high gear ratio.

The advantage of a planetary gearbox is that it reduces the speed of the motor, but at the same time significantly increases the torque. This makes the motor particularly interesting for applications with high load requirements, such as in CNC machines, robotics or automation projects, where both precision and power are crucial.

The reduction ratio in particular plays an important role, as it influences the performance of the motor in terms of torque and speed. The higher the reduction ratio, the more power the motor can provide, but at the expense of speed. These motors are ideal for projects that require high precision and power transmission.

Features at a glance

- **High precision:** Step angle of 1.8° for exact motion control.
- **Increased holding torque:** With planetary gearbox, the motor achieves a holding torque of $0.52 \times 13.76 = 7.155$ Nm.
- **Compact design:** Motor length of 48 mm, gearbox length of 28 mm for space-saving applications.

Compatibility



- Suitable for applications with high torque requirements
- Can be used in CNC machines, robotics and other automation projects

Technical specifications

- Modelnummer: 17HS5425AG5.18-XJTH
- Motor length: 48 mm
- Gearbox length: 28 mm
- Step angle: 1.8°
- Rated current: 1.7 A/phase
- Reduction ratio: 1:13.76
- Holding torque: 0.52 Nm
- Holding torque with gearbox: $0.52 \times 13.76 = 7.155$ Nm
- Cable mode: 4 open cables

Other data

- Suitable for precise control applications and high load requirements

Scope of delivery

- 1x ACT motor planetary geared motor 17HS5425AG5.18-XJTH

Product properties

Country of Origin	China
Zolltarifnummer	85011010
Brand	ACT-Motor
Product ID	ACT-17HS5425A
Gross Weight (kg)	0.570
Manufacturer ID	17HS5425AG5.18-XJTH



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