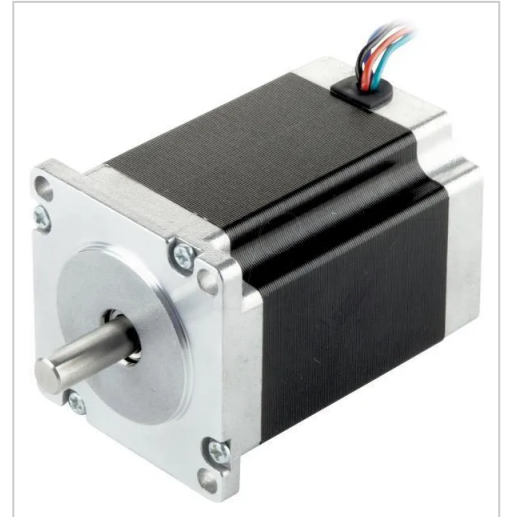


# ACT motor Nema23 stepper motor, 23HS8440-23, 1.8° step angle, 1.9 Nm holding torque, 4A

ACT motor Nema23 stepper motor 23HS8440-23 The ACT 23HS8440-23 is a powerful hybrid stepper motor with a stepping angle of up to...

**Product number** ACT-23HS8440

**Weight** 1.148kg



## Product description

### ACT motor Nema23 stepper motor 23HS8440-23

The ACT 23HS8440-23 is a powerful hybrid stepper motor with a step angle of 1.8° and a holding torque of 1.9 Nm. With a motor length of 76 mm and a rated current of 4 A per phase, it is designed for precise control applications in automation and robotics. The motor has a D-shaft and is controlled via 4 open cables. ACT Motor GmbH is a leading high-tech company specialising in the development and manufacture of hybrid stepper motors, brushless DC motors and servo motors.

NEMA stepper motors are widely used in the world of automation and motion technology, providing precise, reliable control for a variety of applications. The NEMA classification refers to the size of the motors, with different NEMA series designed for specific performance requirements and installation sizes. Of particular note are the NEMA 17 and NEMA 23 series models, which are among the most commonly used stepper motors.

### What is a hybrid stepper motor?

Hybrid stepper motors combine the advantages of permanent magnet and reluctance stepper motors. These motors offer higher precision, efficiency and a better holding torque than conventional stepper motors. They are ideal for applications where precise positioning and reliable control are required, such as in automation and robotics.

### Features at a glance

- Step angle of 1.8° for precise control
- 1.9 Nm holding torque for reliable performance
- 4 A rated current per phase
- NEMA 23 design, ideal for compact machines and robotics
- 4 open cables for easy integration
- D-shaft for firm hold and precise movement

### Compatibility

- Compatible with numerous stepper motor drivers
- Suitable for industrial applications, robotics and automation systems

### Technical specifications

- Model number: 23HS8440-23
- Motor length: 76 mm
- Step angle: 1.8°
- Rated current: 4 A per phase
- Holding torque: 1.9 Nm
- Shaft diameter: Ø 8 mm
- Shaft type: D-shaft
- Number of poles: 4
- Voltage: 2.52 V DC
- Resistance: 0.6 Ohm
- Inductance (L): 1.8 mH/phase

### Other data

- Moment of inertia: 480 g-cm<sup>2</sup>
- Cogging torque: 6.0 N.cm Max
- Insulation class: B
- Cable: AWG22 UL1007
- Packaging weight: 1.103 kg
- RoHS compliant

### Scope of delivery

- 1x ACT motor Nema23 stepper motor 23HS8440-23

### Left

- [Data sheet 1](#)
- [Data sheet 2](#)
- [Data sheet 3](#)

## Product properties

<b>Country of Origin</b>	China
<b>Zolltarifnummer</b>	85011010
<b>Brand</b>	ACT-Motor
<b>Product ID</b>	ACT-23HS8440
<b>Gross Weight (kg)</b>	1.148
<b>Manufacturer ID</b>	23HS8440-23

More images

