DC motor 895, 12/24V, double ball bearing

Product codes:

Reference: AM3412
EAN13: -
UPC: 84145925

Product features:

Product attributes:

Tension: 12 V DC, 24 V DC
Speed: 3000 RPM, 6000 RPM, 7500 RPM, 10000 RPM, 15000 RPM, 20000 RPM

Product description:

The 895 size brushed DC motor is designed for applications requiring a compact, high-speed drive. It is suitable for 12 V or 24 V DC power supply and for designs where simple speed control via PWM and stable mechanical shaft support are required.

Technical specifications

- Supply voltage (depending on variant: 12 V DC / 24 V DC
- Rated speed (depending on variant): 3000, 6000, 7500, 10000, 15000, 20000 RPM
- Motor type: DC brush
- Construction: permanent magnet
- Bearing: double ball bearing
- Model number: 895
- Motor body dimensions: length 72 mm, diameter 50 mm
- Shaft: diameter 5 mm, projection 16 mm
- Front diameter (front part): 18 mm
- Pin spacing on the back: 6 mm
- Working current: 7–12 A
- Starting current: 12 A
- No-load current: 1.2-1.5 A

- Load current: 12–18 A
- Continuous current (specified by the manufacturer): 10–20 A
- Protective feature: drip-proof

Functions and features

- Brush commutation for simple power supply and control
- High speed for drives requiring fast response
- Double ball bearing for more stable operation and higher resistance to radial loads
- Permanent magnet for compact design
- Terminals with marked polarity: positive contact (two notches), negative contact (one notch)

Ideal for

- DIY and prototype drives for 12 V / 24 V DC
- Small mechanisms, gears and drive units with speed control
- Model and hobby constructions requiring higher speeds
- Fans, centrifugal applications and other rotating mechanisms according to mechanical design

Package contents

- DC motor 895 (1 pc.)

Why choose this product?

- Supports two common power supply options: 12 V and 24 V DC
- Defined mechanical dimensions for easier integration into the structure
- Ball bearing suitable for higher speed applications
- Simple electrical connection and control option using a PWM controller

Installation and operating instructions

- Provide a power supply with sufficient current reserve considering the starting current of the motor.
- To control the speed, use a PWM controller designed for DC motors and the appropriate current load.
- During assembly, ensure shaft alignment and correct mechanical seating to avoid excessive load on the bearings.
- Verify the polarity of the connection according to the terminal markings.

Safety notice

- The motor is a rotating device; ensure that moving parts are covered

and avoid contact with the shaft and rotating elements.

- Incorrect sizing of the wires and power source may cause overheating; use appropriate wire cross-sections and fuses.
- Do not operate the motor blocked; this may cause a significant increase in current and damage the motor or power supply.

Product gallery: