Motorized Dual Roller Shade (DRS) Specs, features and operation:

Each AMS motor is designed and engineered to meet the highest technical standards in the industry. It goes through stringent testing at AMS’ ISO 9001-2015 certified facilities.

All Motors are tested for over 30,000 life cycles.

Push the tab on the Molex connector to disconnect wires. Never cut the wires.
Motor Specs and features:

All AMS motors, whether standard or remote controlled option equipped, features internal mechanical limit switches rather than electronic ones to prevent accidental loss or change of limits due to power surge, noise or power outages. The motor has a built-in thermal /stall protection.

Limit switches can be adjusted individually and allow accurate positioning of a shade. Motors come with Molex connector, for easy replacement.

No maintenance required on the motor.

For more details including removal and replacement of the motor, or wiring diagram, or troubleshooting, refer to AMS website.

Motor Specs for 4280P-1230:

- Motor Model: 4280P-1230
- Voltage: 12VDC
- Speed: 30 RPM
- Diameter: 1”
- Torque: 1 N.m.
- Watt: 10W
- Wire gauge: AWG 22
  Note: in real practice it takes almost 300mA per motor, while working.

Motor Model No: 4280P-1230 (for 12VDC)

Motor Model No: 4280P-2430 (for 24VDC)

Motor Model No: 4285P-1230, or 4280P-1230+216P External RF module (for RF remote controlled)

Motor Model No: 4285P-2430, or 4280P-2430+216P External RF module (for RF remote controlled)

Motor Specs for 4280P-2430:

- Motor Model: 4280P-2430
- Voltage: 24VDC
- Speed: 30 RPM
- Diameter: 1”
- Torque: 1 N.m.
- Watt: 10W
- Wire gauge: 18 AWG
Motor features:

These motors are equipped with following features:

1. Mechanical limits adjustments. In our experience, Electronic limit always were prone to noise interference with tight high power equipment surroundings and intermittent fails, but with these mechanical limits, we never had a fault with limit mechanism itself and works independent of environment noises. You adjust the limits by screws manually.

2. Safety spring loaded integrated inside the motor. Our motors are equipped with a safety spring that if for any reason the shaft of motor broken, the shade locks into its position and shade does not drops down. This is crucial feature for windshield shade that prevents the shade to fall while driver is driving.

3. The motor equipped with metal planetary Gearbox. Note all gears in the gearbox are metal while most of the tubular motors in market having nylon gears in the gearbox.

Motor Operation:

1. If No-Voltage to motor, the shade stopped and locks to the current shade position.

2. If +12VDC to motor, then the shade moves up until it reaches to top limit. When it reaches to top limit, if you keep +12VDC, the shade does not move farther than top limit.

3. If -12VDC to motor (the two wires of motor is connected to reversed polarity), then the shade moves down to bottom limit. When it reaches to bottom limit, if you keep - 12VDC, the shade does not move farther than bottom limit.

Size of Tubular Motor:

Diameter of motor: 1.0 inch

Length of motor: 12.5 inches goes inside the aluminium Tube.

The Aluminium tube has to match with this motor drive and we supply it with our shades. The Aluminium tube external diameter is 1 3/16 inch.