

MSC-DC-1P-120VAC-0.33HP-90VDC

0.33 HP DC Motor Speed Controller - 120V AC 1PH Input - 90V DC Output - 3.5 Amps

Product ID: 322880

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

MSC-DC-1P-120VAC-0.33HP-90VDC DC Motor Speed Controller

Unit Type: DC Motor Speed Controller

Dimensions: 4.92" x 3.08" x 5.85"

Weight: 2.65 lbs

Input Voltage: 120V AC 1PH

Output Voltage: 90V DC

Output Current: 3.5 Amps

Operating Speed: 0 to 2000 rpm

HP: 0.33

Starting Torque: -

Torque boost: Automatic torque boost; manually torque boost: 0.1%~30.0%

Inputs: 7 on-off programmable digital, 1 high-speed pulse, 2 programmable analog

Outputs: 1 programmable open collector, 1 analog (open collector or high-speed pulse), 2 relay, 2 analog

Analog Input/Output: 2 Input (0~10V or 0/4~20mA), 2 Output (0/4~20mA or 0~10V)

Communication Terminal: RS485 communication interface, support MODBUS-RTU communication protocol

Overload: 150% @ 60s, 180% @ 10s, 200% @ 3s

Operating Temp: -10°C to +40°C

Max Operating Humidity: 90% (non condensing)

Materials: -

Mounting: Surface

Color: Gray

Features/Ratings

DC Motor Speed Controller

LED Display

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

The Larson Electronics MSC-DC-1P-120VAC-0.33HP-90VDC DC Motor Speed Controller is suitable for improving DC motor performance in industrial operations. This fan-cooled unit features a single-phase 120V AC input and a 90V DC output voltage comparability. This device supports seven on-off programmable digital inputs, one high-speed pulse input and two programmable analog inputs, as well as one programmable open collector output, one analog output (open collector or high-speed pulse), two relay outputs and two analog outputs. The device also features a total of four operating modes: Keypad control, Terminal control, Serial communication control, and Operation Command Mode for digital setting, analog setting, pulse frequency

setting, serial communication setting, multi-step speed setting & simple PLC, PID setting, etc.

The MSC-DC-1P-120VAC-0.33HP-90VDC offers accurate DC motor control in industrial facilities. This unit is compatible with single-phase 120V AC input and 90V DC output voltage. Designed for steady speed error, fast torque rise and protection from resonance vibrations, the device provides an output current of 3.5 amps.

The MSC-DC-1P-120VAC-0.33HP-90VDC is designed for indoor applications and operating temperatures ranging between -10°C to $+40^{\circ}\text{C}$. Operators may mount the DC motor speed controller on compatible surfaces. This device measures 4.92" x 3.08" x 5.85" and weighs 2.65 lbs.

Applications: Speed control of DC motors, industrial machines, and more.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.



Frequently Asked Questions (FAQ)

There are no Fags



Export Control Classification Number (ECCN): EAR99



Links (Click on the below items to view):

- **Video1** (<https://www.youtube.com/watch?v=FM7BXInKJaY>)
- **Video4** (<https://www.youtube.com/watch?v=FM7BXInKJaY>)
- **ISO 9001 Certification** (<http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF>)
- **Business Certificate** (<https://www.larsonelectronics.com/images/pdfdocs/w9.PDF>)
- **Shipping Time Map** (<https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf>)