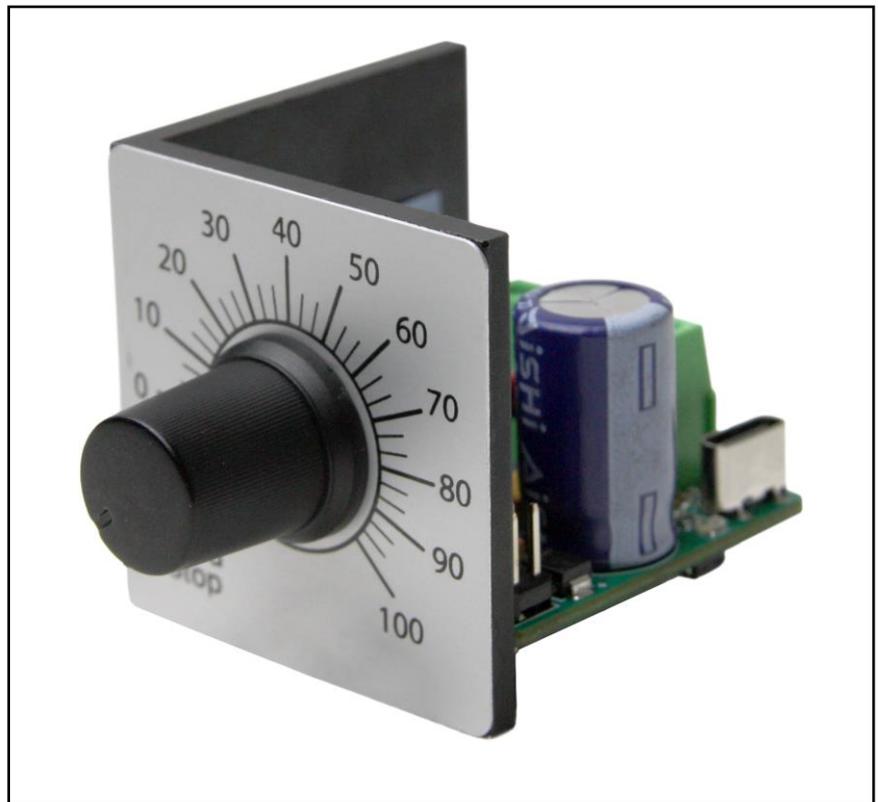


## Features

- Potentiometer and USB speed control
- Supply voltage 12 to 24 VDC
- Automatic load compensation
- Speed stabilization without an encoder (BEMF based)
- Free software for parameters setting
- Motor overload protection with adjustable current limiting 0.5 to 12 A
- Soft start and stop settings
- Fully-featured PID controller
- Short circuit protection (external fuse not required)

## RS PRO, Built-in DC brush motor speed controller, USB, Potentiometer, 12 → 24 V, 12A, Speed stabilization

RS Stock No.: 0717549



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

## Product Description

Built-in speed controller for DC brush motors with a maximum voltage of 24VDC and power up to 300 W. The controller provides load compensation and stabilisation of rotation speed without an encoder based on the back EMF of the motor. The device is equipped with a fully-featured PID controller and allows achieving ideal drive operation for any operating speeds and loads.

The device provides the function of precise adjustable motor overcurrent protection.

## General Specifications

|                       |  |
|-----------------------|--|
| Compatible Motor Type | DC brush motors                                    |
| Phase                 | 1  |
| Control Input         | Potentiometer, USB                                 |
| Operating Modes       | Close loop speed control (BEMF, no encoder needed) |

### Display

|                            |                   |
|----------------------------|-------------------|
| Status operation indicator | Green and red LED |
|----------------------------|-------------------|

## Electrical Specifications

|                          |                         |
|--------------------------|-------------------------|
| DC Motors up to          | 300 W                   |
| Supply Voltage           | 12VDC to 24VDC          |
| Current Rating           | Up to 12A               |
| Voltage Rating           | 12VDC to 24VDC          |
| Maximum Output Voltage   | 24V                     |
| Current limiting setting | 0.5 A to 12 A           |
| Short-circuit protection | 5 A to 17 A, 55 $\mu$ s |

### Inputs

|                                     |  |
|-------------------------------------|--|
| Potentiometers                      | 4  |
| Functionality Of The Potentiometers | Speed control, current limit, max speed limit, min speed limit |

## Mechanical Specifications

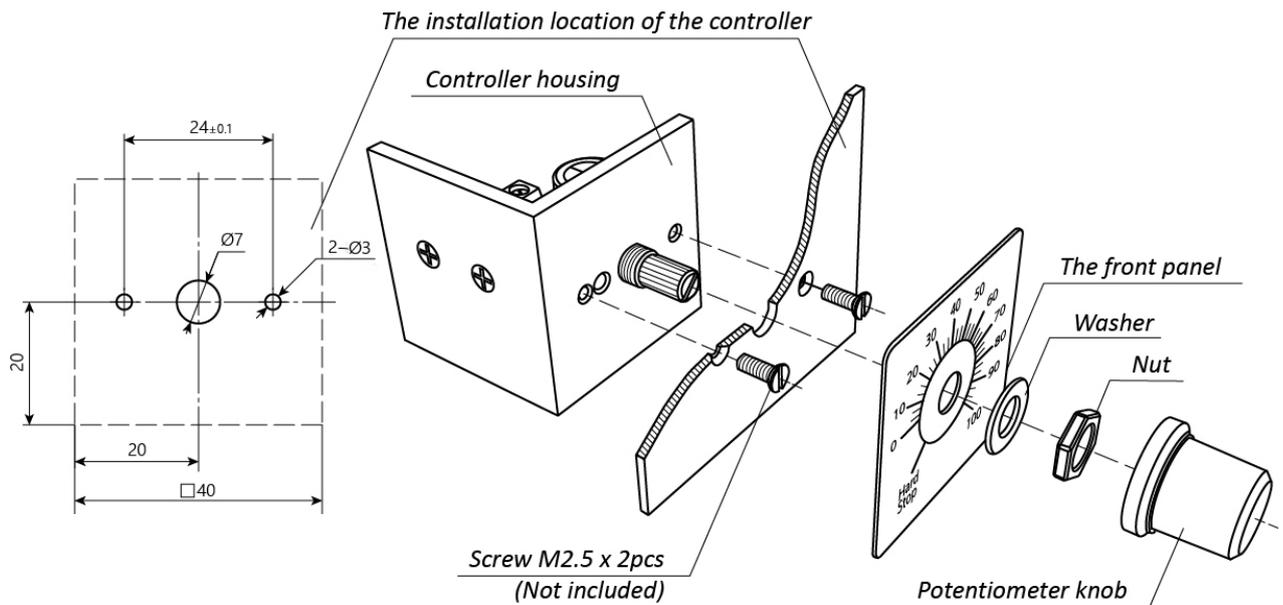
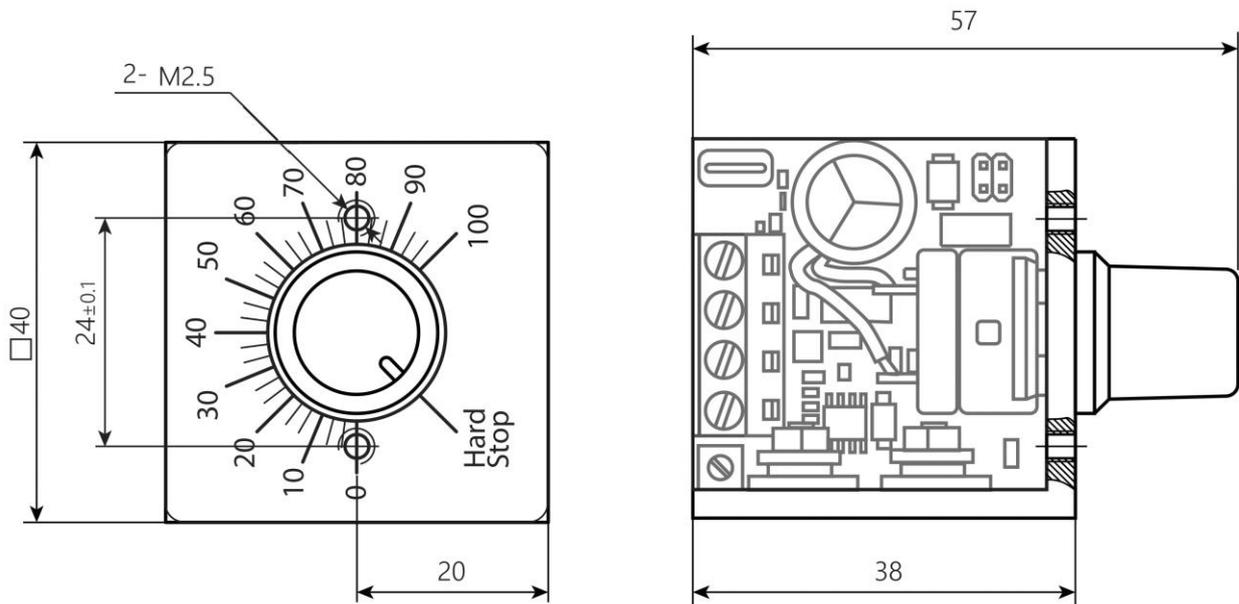
|                |                     |
|----------------|---------------------|
| Mounting Style | Built-in Mount      |
| Dimensions     | 40 mm x 40mm x 57mm |
| Height         | 40 mm               |
| Width          | 40 mm               |

|        |         |
|--------|---------|
| Depth  | 57 mm   |
| Weight | 0.06 kg |

## Operation Environment Specifications

|                             |             |
|-----------------------------|-------------|
| Operating Temperature Range | 0°C to 40°C |
| Humidity (non-condensing)   | up to 90%   |

### Dimensions and installation:



Connection:

