



BMD-20DIN ver.2.1 is a device designed to control rotation torque, speed, direction and acceleration of a DC brush motor. The controller provides a motor overload protection function with adjustment of the maximum permissible current value. A brake control function is provided. A function of switching during operation to a second preset speed by an external discrete signal is implemented.

Technical parameters

- Operating voltage 12...24 VDC
- Continuous output current, adjustable – 0,2 - 20 A
- Short circuit protection – 30 A, 15 μ s
- Speed control range – 1:100

Control methods

- analog speed control
- analog torque control

Discrete control signals

- START - start and stop of the motor
- DIR - rotation direction
- BRAKE - brake control
- SPEED 2 - switch to second speed
- HARD_STOP - emergency motor stop

Motor speed and output torque control signals

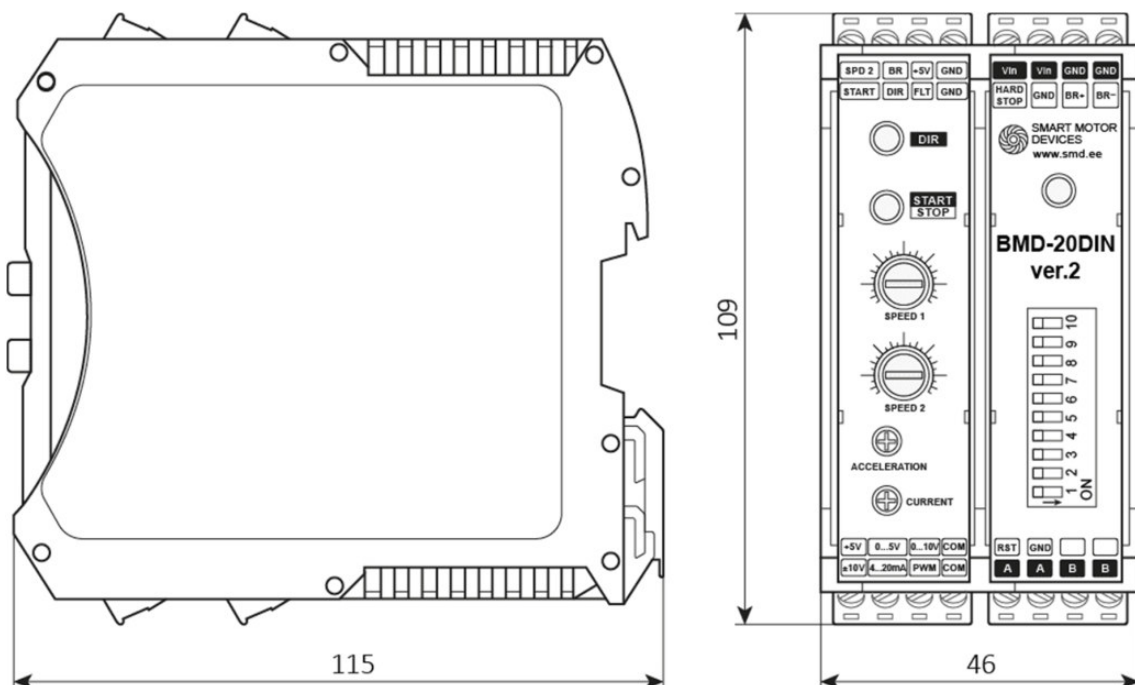
- built-in potentiometer
- external potentiometer
- analog signal 0...10 VDC
- analog signal - 10...+10 VDC
- analog signal - 4...20 mA
- PWM signal

BMD-20DIN ver.2.1 driver performs the following functions

- start and stop a DC brush motor using a button at the front panel of the driver or an external signal
- analog speed and torque control of a DC brush motor
- switching to a second preset rotation speed on an external signal. The second speed is set with the built-in potentiometer
- control the direction of motor rotation with a button on the front panel or an external signal;
- motor brake control
- setting the ratio of acceleration and deceleration
- motor overload protection with adjustable rated current value
- user setting of motor stop option: with the motor rotor closed to itself or with the motor rotor open
- short circuit protection
- emergency stop of a DC brush motor «HARD STOP» in case of opening of the electrical protective circuit
- temperature protection of power stages



Dimensions of DC brush motor controller BMD-20DIN ver.2.1



Connection of DC brush motor controller BMD-20DIN ver.2.1

