

## ELECTROMEN - EM-174

DC motor 2Q drive 12-24 V dc, 8 A

EM-174A\*

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- 12-24Vdc, 8A continuous, 12A peak
- Speed and direction control
- Adjustable start ramp and current limit
- Compact, DIN rail mountable
- Symmetrical control  $\pm 5V$  (rev-stop-fwd)



### PRODUCT DESCRIPTION

EM-174A motor driver is designed for DC-motor speed control. The unit regulates motor voltage so non regulated supply voltage is well suited. A load affecting the motor rpm can be compensated with an adjustable load compensation ( Rxl ). Potentiometer or direct voltage signal can be used to give the speed control value. Rotation direction changes when control value turns negative or if control signal is applied to direction input. The unit has reference positive and negative signal for potentiometer use, in other words potentiometer can also be used to drive both directions, motor stops at potentiometer middle position. Set value range can be scaled with range trim.

At direction change the controller waits for motor to stop before driving in opposite direction. This avoids current peaks at direction change. The current limit can be set with a trim or direct voltage signal to protect the motor and mechanics in jam situations. Startup speed can be limited with so called ramp, which slowly rises the motor voltage in a desired way. Ramp time is set with a trim. EM-174A can be optimised for 12 or 24 V supply use.

#### FEATURES:

- Bidirectional
- No brake
- Controlled direction change
- $\pm 10 V$  or  $0...10 V$  control
- Soft start ramp
- Adjustable current limit
- Load compensation
- High efficiency
- High peak loading
- Rail base fittable

### TECHNICAL DATA

Control type	Speed, Direction, Torque, Soft start / stop
Current limit	0,1-12
Current setting range	0-12 A
Mounting	DIN rail
Operating temperature	-20°C...+70°C
Peak current	12
PWM frequency	25kHz
Supplier	Electromen

Supply voltage

12 V DC, 24 V DC

Weight

80 g



