

ELECTROMEN - EM-170

DC motor 4Q drive 12-24 V dc, 1.5 A

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- 12-24Vdc, 1.5A continuous, 2A peak
- Speed, direction and braking control
- Adjustable start ramp and current limit
- Compact, small size



PRODUCT DESCRIPTION

EM-170 motor controller is designed for small DC-motors. The controller operates in 4-quadrants, in other words it is possible to drive the motor in variable speed, change motor running direction and brake. The power stage operates with PWM-principle and has thus high efficiency.

Speed set value is given as analog voltage signal. Motor voltage is fed back to controller, so changes in operating voltage will not affect motor running speed. 10V regulated auxiliary voltage can be used for speed set potentiometer reference voltage. The acceleration speed can be adjusted with acceleration and deceleration ramp. Deceleration ramp can also be bypassed when rapid braking is desired. Additionally the unit is equipped with speed2-feature, which can be activated individually. This is especially practical in positioning applications. Current limit can be used to restrict motor torque and is dip-switch settable. Control inputs work with positive (NPN) logic. EM-170 is EMC-tested in accordance with industrial standards.

FEATURES:

- 4-quadrants
- controlled direction change
- brake
- adjustable current limit
- acceleration and deceleration ramp
- dip-switch settable
- EMC-tested

TECHNICAL DATA

2421_Peak current (A)	2
5646_Dimensions length x width x height (mm)	60x60x20mm
Analogue input	0-10V
Control type	Speed, Braking, Direction, Torque, Soft start / stop
Current setting range	0.2-2 A
Logic input high	>4V = ON
Logic input low	<1V = OFF
Max continuous current	2 A

Mounting	DIN rail
Operating temperature	0°C...+60°C
PWM frequency	16kHz
Suitable engine	DC
Supplier	Electromen
Supply voltage	12 V DC, 24 V DC
Weight	30 g

