

## ELECTROMEN - EM-167 DC MOTOR POSITIONING DRIVE 12-32 V DC, 4 A, ANALOGUE FB

EM-167  
 DC motor positioning drive 12-32 V dc, 4 A, analogue FB



- 12-32 V dc, 4 A continuous, 15 A peak
- Set value & feedback input, 0-5V or potentiometer
- Positioning accuracy. typ.  $\pm 1\%$
- Current limiting, soft start/stop and range adjustment control
- Panel mount

### PRODUCT DESCRIPTION

EM-167 is a compact positioning driver. The unit is equipped with its own set value potentiometer. EM-167 also has an inbuilt servo-amp. and power stage which is capable of driving a DC motor directly. It is suitable for driving a DC spindle motors equipped with feedback potentiometer. EM-167 is best suited for slow and medium speed systems with a transitional period of 2...30s (from end to end).

The current limit is adjustable and can be used to limit the torque of the motor. Current trip feature will shut down the driver in fault situation, if either current is on the limit for over 2s, or if it takes more than 30s to reach the set value. In fault situation the error output will be activated. Reactivation from the trip situation is done by applying a reverse control command.

Positioning is done by giving a set value using the EM-167 internal potentiometer. The driver compares the feedback value to the set value and starts to drive the motor towards the set value. When these values begin to approach each other the driver will slow down, and when the values are identical the motor stops. The operating range can be adjusted / limited from both ends with min. and max. adjustments. EM-167 is small-sized and easy to install. Due to its wide temperature range, the unit is suitable also for vehicle use. The power stage is equipped with self recovery overload and over current protection, but the use of an external fuse is recommended.

### FEATURES

- small size
- pos. accuracy typ.  $\pm 1\%$
- good efficiency  $>92\%$
- for motors 5-200W
- start- and stop-ramp
- overload protected
- adjustable current limit
- adjustable range

### TECHNICAL DATA

<b>2421_Peak current (A)</b>	15
<b>5646_Dimensions length x width x height (mm)</b>	39x39x50mm
<b>Analogue input</b>	0-5V
<b>Control type</b>	Direction, Torque, Position, Soft start / stop
<b>Current setting range</b>	0-15 A

<b>Max continuous current</b>	4 A
<b>Mounting</b>	Panel mount
<b>Operating temperature</b>	-20°C...+60°C
<b>Suitable engine</b>	DC
<b>Supplier</b>	Electromen
<b>Supply voltage</b>	12 V DC, 24 V DC
<b>Weight</b>	85 g

