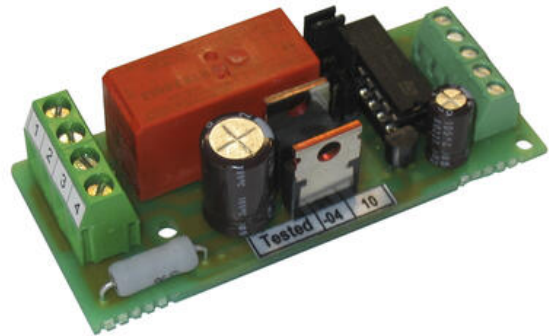


## ELECTROMEN - EM-165PF DC MOTOR POSITIONING DRIVE 12-32 V DC, 5 A, PULSE FB



EM-165PF

DC motor positioning drive 12-32 V dc, 5 A, pulse FB



- 12-32 V dc, 5 A continuous, 12 A peak
- Set value 0-5V or potentiometer & feedback from pulse input
- Positioning accuracy. typ.  $\pm 1\%$
- Compact, din rail mountable

### PRODUCT DESCRIPTION

EM-165pf is a positioning driver for pulse feedback systems. Potentiometer or direct voltage signal can be used as control value. The device has inbuilt up-down counter and servo amplifier for positioning. There are four counter ranges: 128, 256, 512 and 1024 pulses. Additionally the range can be fine-tuned. The power stage of the unit is capable of directly driving a DC-motor. EM-165pf is suitable for example driving a spindle motor equipped with pulse transducer. EM-165pf is best suited for slow and medium speed systems with transitional period of 4...50s (from end to end). The current limit is settable 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 50s 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 or by switching power off and back on.

Every time the unit is switched on, it will first drive the mechanism to one end and reset the counter. After this it will drive the mechanism to control value. Every time the unit receives new control value, it starts the motor and begins to compare the counter value with control value. When these two start to approach each other, the controller slows down and finally stops when the values are identical. Besides using one of the pulse ranges, the positioning range can be fine tuned with control value range trim. EM-165pf is small in size and can be mounted into a rail using a rail mounting base or screws. The unit has a self recovery overload protection and short circuit protection. However the use of an external fuse is recommended.

### FEATURES

- Pos. accuracy typ.  $\pm 1\%$
- High efficiency >92%
- For motors 5-200W
- Start- and stop-ramp
- Overload protection
- Error indication
- Control value with pot. or voltage
- 128, 256, 512, 1024 pulse ranges
- Adjustable current limit
- Rail base mountable
- EMC-tested (CE)

### TECHNICAL DATA

2421_Peak current (A)	12
5646_Dimensions length x width x height (mm)	73x32x20mm
Analogue input	0-5V or 0-10V
Control type	Direction, Torque, Position, Soft start / stop
Current setting range	0-12 A

<b>Max continuous current</b>	5 A
<b>Mounting</b>	DIN rail
<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>	40 g

