



## ELECTROMEN - EM-241-SAF

DC motor positioning drive 12-24Vdc, 15A,  
analogue feedback

EM-241-SAF  
DC motor positioning drive 12-24 V dc, 15 A, analogue  
FB



- 12-24Vdc, 15A continuous, 30A peak
- Set value & feedback input, 0-5V, 0-11V, 0-20mA or potentiometer
- Positioning accuracy max. 0.2%
- Speed, direction, current limiting, soft start/stop and range adjustment control
- Compact, DIN rail mountable

### PRODUCT DESCRIPTION

EM-241-SAF is a positioning driver to be used with DC-motors. The solid state power stage operates with high efficiency as it is realized with FET-transistors. Its literally everlasting compared to relay solutions. Control and feedback is done with analog signal. Control signal can be a voltage in range of 0 to 11V or current from 0 to 20mA. Feedback signal can be in the range from 0 to 11V. Driver supports also a potentiometer feedback, with auxiliary voltage outputs of 0V and 5,5V to excite the potentiometer. The max. accuracy available for positioning is 0,2% that is adequate for most actuator positioning applications. The settings and adjustments are done with parameters as in all new generation Electromen products. Movement range can be modified from both ends with SW-limit parameters. Current limits and driving speeds can be set individually for both directions. Driver includes also many other dynamic adjustment possibilities like parameters for load compensation, dead-zone setting (positioning window), start and stop ramps for a smooth direction change and braking zone for well operating positioning. The parameter setting and status monitoring is done with EM-236 Interface Unit. With EM-236 the right parameters can also be easily copied to other driver units. The on-board LED-light indicates the possible fault situations with blinking codes. If needed, the fault can be forwarded through combiport to other driver cards. Alternatively this port can be set to give out the "position OK" information or it can even indicate the position with an analog voltage signal. Device is EMC tested for industrial and household environment and operating temperature range is quite wide. There are also some housing options available for EM-241-SAF driver card.

### FEATURES

- analog feedback
- voltage or mA control
- position accuracy max. 0,2%
- solid state power stage
- small size, great performance
- digitally settable parameters
- versatile dynamic settings
- housing options available
- CE marked

### TECHNICAL DATA

|                                    |                                                       |
|------------------------------------|-------------------------------------------------------|
| Analogue input                     | 0-5V or 0-11V or 0-20mA                               |
| Control type                       | Speed, Direction, Torque, Position, Soft start / stop |
| Current setting range              | 0.1-20A                                               |
| Dimensions length x width x height | 72x42x25mm mm                                         |
| Logic input high                   | >4V = ON                                              |

|                        |                  |
|------------------------|------------------|
| Logic input low        | <1V = OFF        |
| Max continuous current | 15 A             |
| Mounting               | DIN rail         |
| Operating temperature  | -40°C...+60°C    |
| Peak current           | 30 A             |
| PWM frequency          | 2kHz             |
| Suitable engine        | DC               |
| Supplier               | Electromen       |
| Supply voltage         | 12 V DC, 24 V DC |
| Weight                 | 80 g             |

