



ELECTROMEN - EM-318

Stepper 2-phase motor drive 12-24 V dc, 3 A

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- 12-24Vdc, 3A
- Microstepping 1, 1/2, 1/4.....1/64 step options
- External step inputs or 4 digital inputs for pre-set speed, direction & position sequences
- Compact, DIN rail mountable

PRODUCT DESCRIPTION

EM-318 is a bipolar-chopper type microstepping stepper motor controller. The bipolar operation principle suits most stepper motors and provides the best torque. The microstepping function also enables great performance at low rpm. The stepping and current regulation has been synchronized, giving a smooth and quiet operation. There are 7 different stepping options to choose from, ranging from full- to 1/64-step operation. This provides various possibilities for different speed applications.

The controller has its own auxiliary oscillator, which can be used for pre-set speed driving. The pre-set speeds can be activated by using 4 digital function inputs. The oscillator features an acceleration ramp function, which allows frequencies to be altered flexibly. The motor will also start up reliably even to higher frequencies and it is possible to shift to the desired velocity without pace drop. The auxiliary oscillator incorporates an indexing part, which offers the possibility of running presettable operational sequences. These sequences can be activated with the 4 digital inputs. The sequence is a movement with selected speed, direction and distance (as steps). All the inputs are activated with positive logic commands. So the commands and functions are activated by connecting the input to a positive voltage. Control can also be done with TTL-logic level commands.

All of the controller settings are made digitally, using the separate setting device, EM-236 Interface Unit. With this device the settings are easily copied to another or even to multiple controllers.

FEATURES

- Bipolar chopper
- 1, 1/2, 1/4.....1/64 steps
- Four preset function inputs
- PNP or TTL control
- Quiet run current control
- Acceleration / deceleration ramps
- DIN-rail base mountable

TECHNICAL DATA

Control type	Speed, Direction, Torque, Position, Soft start / stop
Current setting range	0.1-3 A
Dimensions length x width x height	87x72.5x25mm mm
Logic input high	>4V = ON
Logic input low	<1V = OFF
Max continuous current	3 A
Mounting	DIN rail

Operating temperature	0°C...+50°C
Suitable engine	Stepper
Supplier	Electromen
Supply voltage	12-24 V DC
Weight	100 g

