SPEED REGULATORS

PART NO. 919D2

Features
- Allows infinitely variable R.P.M. to be set on MFA/Como Drills 919D Series Gearboxes and Motors.
- Operates from inputs of 6 - 15volt.
- Output 0 - input voltage.
- Pulse width modulation provides proportional output control.
- Small - compact - robust construction for versatility and reliable service.

SPECIFICATION:
- Min Input 6 volts
- Max Input 15volts
- Min Output 0 volts
- Max Output 15 volts
- Loading 3 amps continuous
- 5 amps peak only.
- Input & output cables 21cm
- Insulated spade connectors fitted on input cables
- Dims. 34 x 27 x 18 mm
- Weight 30g approx.

NOTE:
The products optimum performance is at 12v d.c.. Using lower voltages, although useful, will alter the products performance and consistency in operation.

Supply and output cables must be trimmed to 21cm to meet current EMC regulations.

EDGE TO EDGE FREQUENCY, MIN 1136 Hz, MAX 1250 Hz, AVERAGE 1200 Hz. MARK TO SPACE VARIES MOTOR SPEED.

PANEL MOUNTED VARIABLE SPEED REGULATOR

PART NO. 919D2P

Features
- Panel Mounted with external control knob.
- Operates from inputs of 6-15 volt. (Input power supply must not be digital)
- Output near zero - near full supply voltage.
- Pulse width modulated provides proportional output control.
- Small - compact - robust construction for versatility and reliable service.

SPECIFICATION:
- Min Input 6 volts
- Max Input 15 volts
- Min Output 0 volts
- Max Output 15 volts
- Loading 3 amps continuous
- 5 amps peak only.
- Dims. 62mm x 41mm x 25mm (approx)
- Weight 32g approx.

NOTE:
The products optimum performance is at 12v d.c.. Using lower voltages, although useful, will alter the products performance and consistency in operation.

Supply and output cables must be trimmed to 21cm to meet current EMC regulations.

PANEL MOUNTED BI-DIRECTIONAL VARIABLE SPEED REGULATOR

PART NO. 919D2PR

Features
- Forward & Reverse PWM Speed Regulator.
- Easy installation - Unit panel mounted through 9.5mm hole. (Electrical connection via screw terminals).
- 6 - 15v operation d.c. (from smooth non digital d.c. input).
- Output 0 - near full supply voltage
- Compact construction - board size 66 x 58mm

These are regulators with variable outputs designed to be used with miniature and sub miniature motors. Allows the motor to be powered from a d.c. source either battery or transformer rectifier (transformer rectifier must have a non digital output).

Unit employs PWM circuitry which varies the output pulse width to vary the motor speed while maintaining a constant output voltage. PWM also assists in maintaining motor torque. Output may not zero motor speed in NO load conditions.

SPECIFICATION:
- Full 'H' bridge output drive
- Rating 3 Amps continuous, 5 Amps peak.
- Circuit provides approx 1/5th second breaking pause between directional changes.
- Weight 39g

NOTE:
The products optimum performance is at 12v d.c.. Using lower voltages, although useful, will alter the products performance and consistency in operation.
PANEL MOUNTED BI-DIRECTIONAL (12A) VARIABLE SPEED REGULATOR

PART NO. 919D3PR

The 919D3PR uses pulse width modulation (PWM) to allow smooth, efficient bi-directional control of DC motors and other devices. The output is fully adjustable from 0 to 12 volts DC* and can supply currents of up to 12Amps continuously.

Features

- Smooth bipolar (+ or -) output control up to 12A DC continuous.
- Incorporates overcurrent and accidental supply-reversal protection. Additional thermal protection option available.
- Soft start feature reduces the in-rush current when first energised from the DC supply.
- Simple screw-in terminal blocks for supply and motor connections.
- Easy installation by panel mounting or screw fixing. Control knob & insulating washers included.
- 0 - near full supply voltage.

* Depending on the supply voltage and load characteristics.

SPECIFICATION:-
Nominal supply voltage: 12V DC (9V min - 15V max) and ≤10% ripple.
Output current: 12A maximum continuous, 16A maximum non-continuous.
PWM repetition frequency: 1kHz +/- 5%
Operating temperature: 0 deg. to 40 deg. C (normal)
0 deg. to 60 deg. C (with reduced output current above 40 deg. C)
Storage temperature: -10 deg. C to 70 deg. C.
Relative humidity: ≤ 80% (non condensing).
Fuse: 12A fast acting (type F). 6.3mm x 32mm ceramic cartridge.
Dimensions: 110mm x 85mm x 30mm.
Weight: 160g.