# MFA/como drills

### 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:-

6 volts	Input & outp	ut cables 21cm
15volts	Insulated sp	ade connectors fitted on input cables
0 volts	Dims.	34 x 27 x 18 mm
15 volts	Weight	30g approx.
3 amps continuous		
5 amps peak on	ly.	
not be digital)		
	15volts 0 volts 15 volts 3 amps continue	15voltsInsulated sp0 voltsDims.15 voltsWeight3 amps continuous5 amps peak only.

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

### PANEL MOUNTED VARIABLE SPEED REGULATOR

### PART NO. 919D2P

### Features

- \* Panel Mounted with external control knob.
- \* Allows infinitely variable R.P.M. to be set on MFA/Como Drills.
- 919D, 927D, 918D (12v), 940D, 941D & 950D series gearboxes and motors.
- \* Operates from inputs of 6-15 volt. (Input power supply must not be digital)

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

- \* 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	Dims	
Max Input	15 volts	Weight	
Min Output	0 volts		
Max Output	3 amps		
Loading	3 amps continuous		
-	5 amps peak only		

62mm x 41mm x 25mm (approx) 32g approx



NOTE:

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

### 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).

Edge to edge frequency, min 1136 Hz, max 1250 Hz, average 1200 Hz. Mark to space varies motor speed.

- \* 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 recitifier (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:-

Edge to edge frequency 2KHz Linear output response Input 6 - 15 volts d.c. (non digital) 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 consistancy in operation.

TEL: 01304 612132

THE ABOVE FIGURES ARE A GUIDE ONLY AND DO NOT FORM ANY CONTRACTUAL OBLIGATION ON THE PART OF MFA/COMO DRILLS.

FAX: 01304 614696

www.mfacomodrills.com

GULATOR

## PANEL MOUNTED BI-DIRECTIONAL (12A) VARIABLE SPEED REGULATOR

### PART NO. 919D3PR

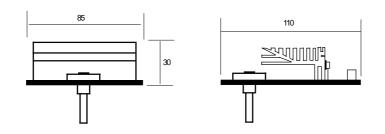
A/COMO DRILLS

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 $\leq$ 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:	$\leq$ 80% (non condensing).
Fuse:	12A fast acting (type F). 6.3mm x 32mm ceramic cartridge.
Dimensions:	110mm x 85mm x 30mm.
Weight:	160g.





TEL: 01304 612132 E-MAIL: info@mfacomo.com FAX: 01304 614696 www.mfacomodrills.com

THE ABOVE FIGURES ARE A GUIDE ONLY AND DO NOT FORM ANY CONTRACTUAL OBLIGATION ON THE PART OF MFA/COMO DRILLS.