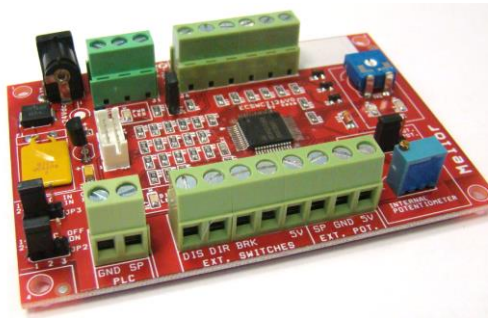




Brushless DC Motor Control Unit

1 Product Description



FEATURES:

- Single phase output
- Direction change
- Brake System
- Hall-transducer
- Adjustable Speed limit
- Direct or frequency driving
- High efficiency
- Inbuilt resettable fuse
- Rail mounting base available

Starter Kit BDC D1 controller, is designed for brushless DC-motors with hall-feedback. The device requires external 24 Volt DC. Through the microcontroller, can be set speed adjustment, direction change and braking. BDC D1 system includes several control mode: internal or external proportional control (10K Ohm linear

potentiometer) or external input, 0-10 V or PWM, selectable, with which can be set the speed of rotation by an external device. Control input can be select through some jumpers. Can be enable / disable "soft-start" function and chose the ramp time.

The controller can be installed using screws or a standard rail mounting base.

The controller is protected against reversed input voltage polarity and fuse protected against over current.

Technical Data

Supply voltage	24 Vdc
Idle current	approx. 10 mA
Current limit	500 mA
Control voltage	0...10V
Control potentiometer	0...10K
Dimensions	67*98*15 mm
Weight	approx. 50 g

Sett End Road, Shadsworth Business Park, Blackburn, Lancashire, BB1 2NW UK

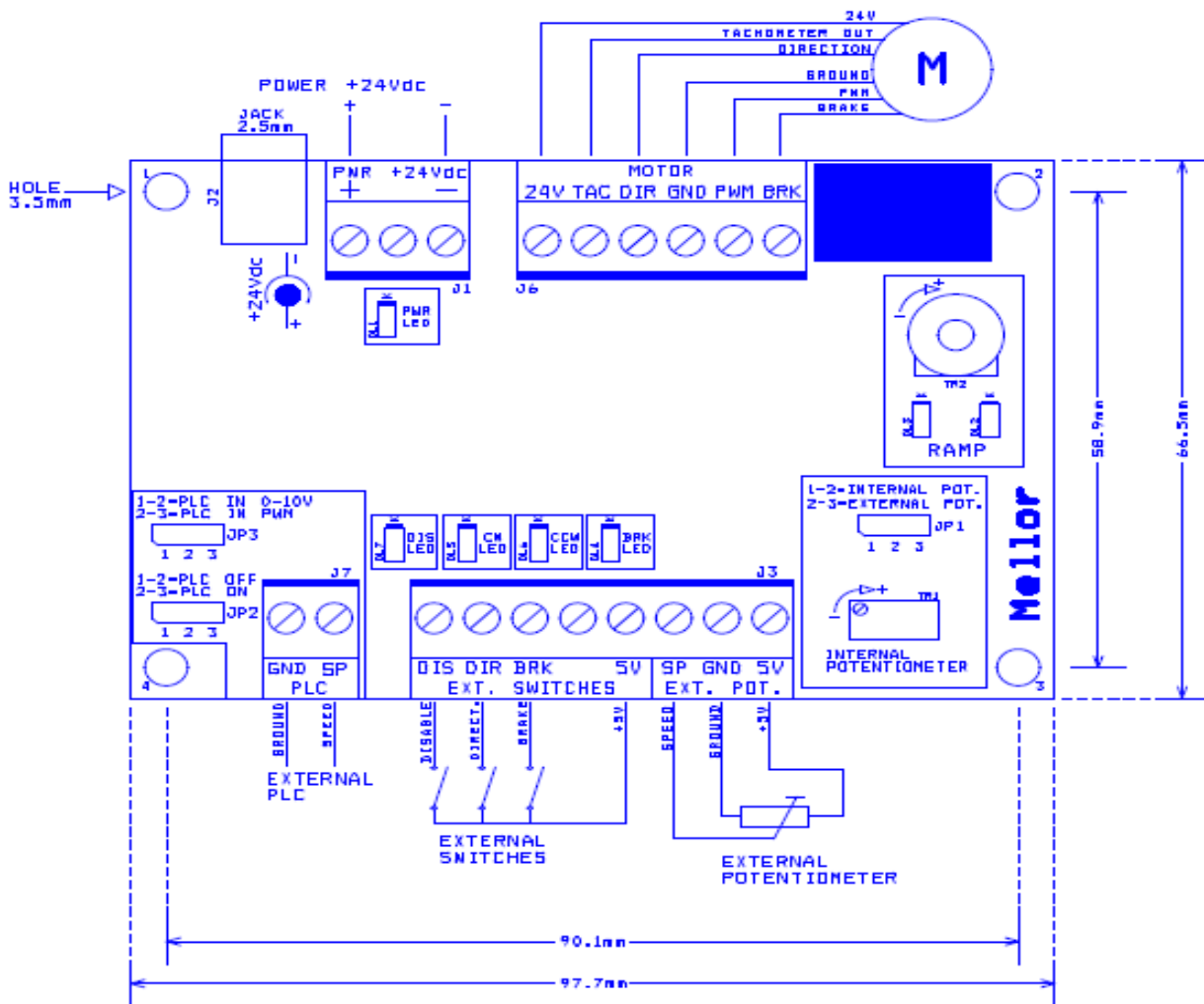
tel: +44 (0) 1254 53854 fax: +44 (0) 1254 678625

Email: sales@melloelectrics.co.uk web: www.melloelectrics.co.uk



BDC D1 Connection

Power supply (J1 / J2):	24 Volt DC
Motor Connection (J6):	Six pole screw connector
Drive by Potentiometer:	<ul style="list-style-type: none"> JP1 – Internal External Trimmer TR1 – Internal Linear Potentiometer J3 – External Linear Potentiometer (10K Ohm)
Soft Start (TR2):	<ul style="list-style-type: none"> CCW Disable CW Linear 1-30 Sec
External PLC Control (J7):	<ul style="list-style-type: none"> JP2 On – Enable PLC Control JP2 Off – Disable PLC Control JP3 0-10 Volt / PWM



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