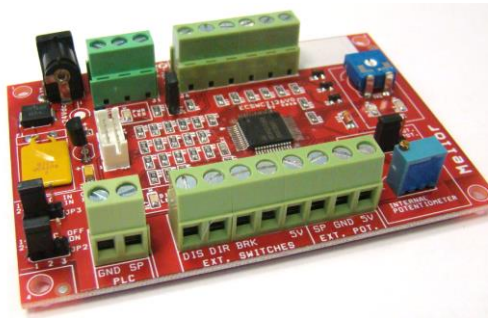




## *Brushless DC Motor Control Unit*

### 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

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

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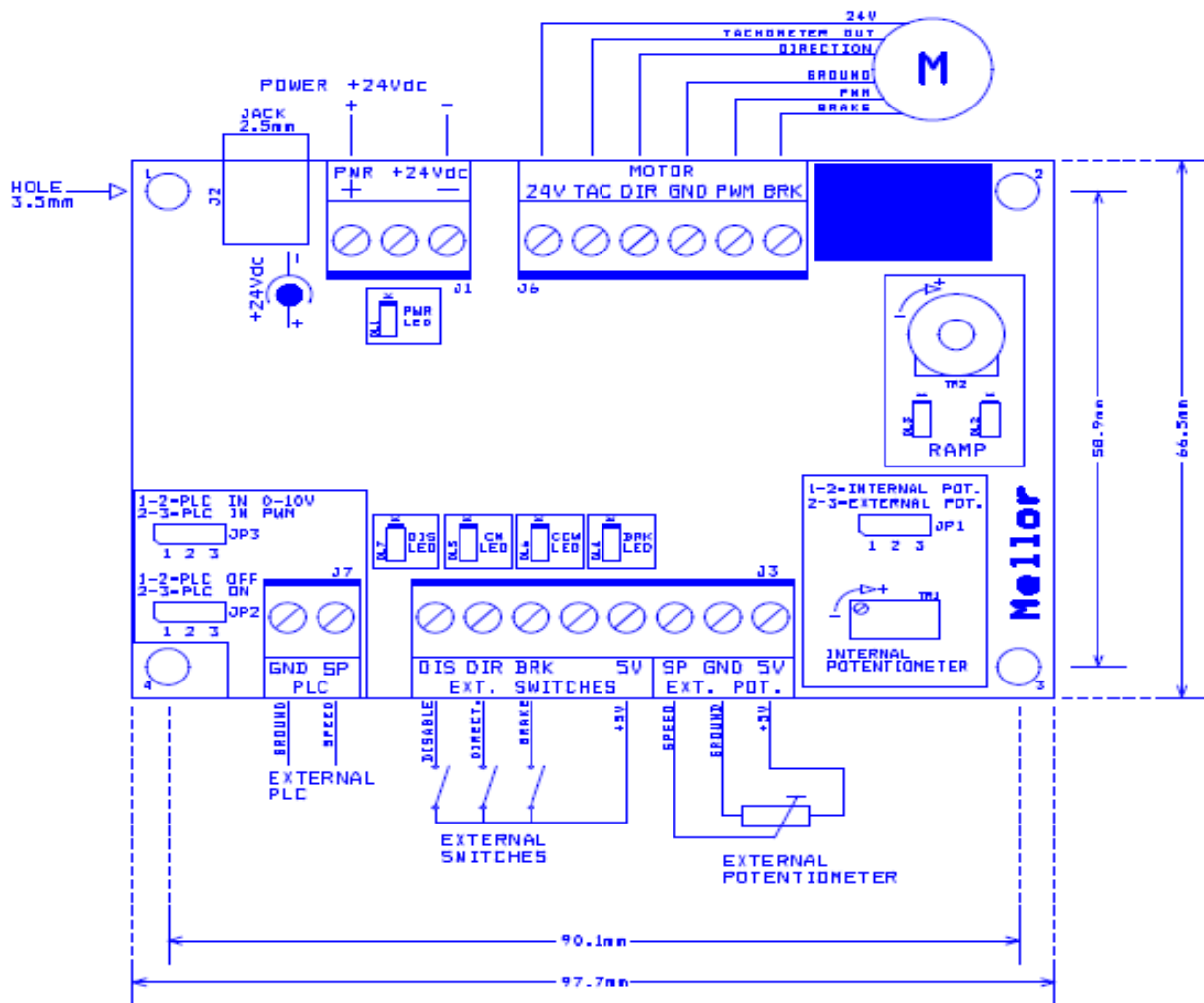
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## BDC D1 Connection

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



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