



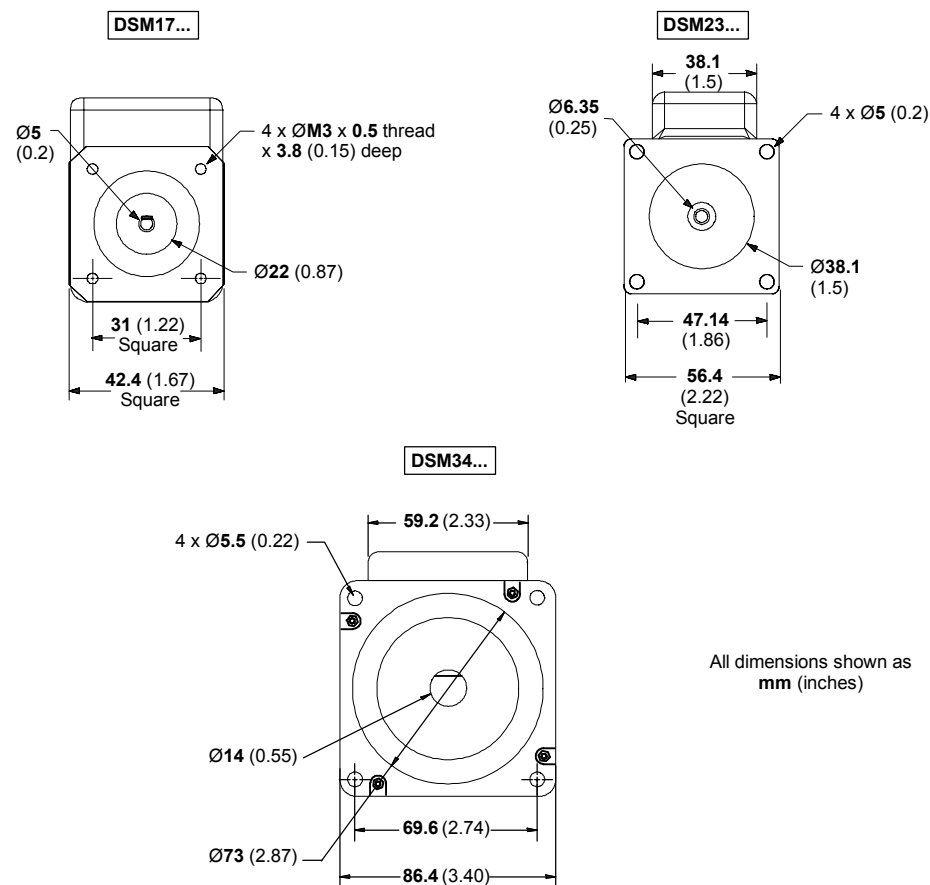
### IMPORTANT NOTE !

This Quick Start Guide is not intended as a replacement for the full installation manual, *MN1940 DSM Series Installation Manual*, which provides detailed information about the products. The installation manual is available in PDF format on the Baldor Motion Toolkit CD or on [www.supportme.net](http://www.supportme.net).

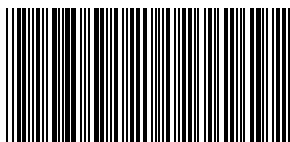
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## Mounting

Faceplate mounting dimensions are shown in the following diagrams. For full dimensions, see installation manual MN1940.



All dimensions shown as  
**mm (inches)**



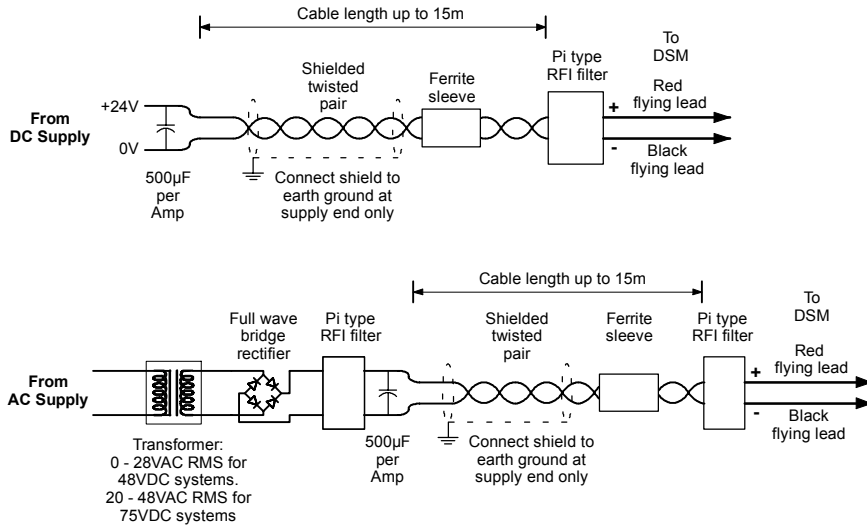
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## 2 Power input

The DSM requires an unregulated DC power supply. The specific power supply requirements are determined by the model:

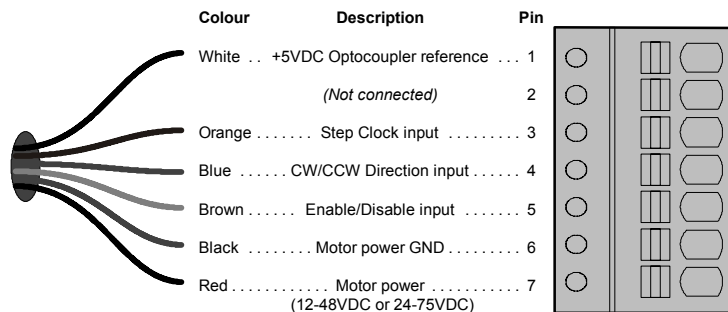
DSM17:	+12 to +48VDC, 2A maximum
DSM23...-x48:	+12 to +48VDC, 2A maximum
DSM23...-x75:	+24 to +75VDC, 1.5A maximum
DSM34:	+24 to +75VDC, 4A maximum

Power supplies ideally should conform to one of the following arrangements:



## 3 Flying leads

Some models provide flying leads for the major connections.

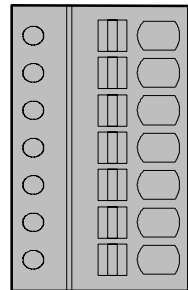


Some applications may require that the DSM moves with the axis motion. If this is a requirement of your application, the motor leads and the encoder leads (if fitted) must be properly anchored. Secure the flying leads to the motor body using adhesive cable clamps. This will prevent flexing and tugging which can cause damage at critical connection points in the DSM electronics and the encoder (if fitted).

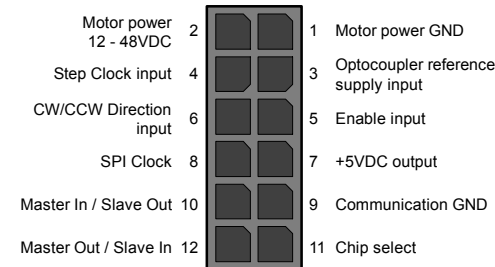
Do not bundle the logic leads or encoder leads together with the DSM power leads.

## 4 'P' connector

Some models provide a 7-way terminal block for the major connections (DSM17P... / DSM23P... only).

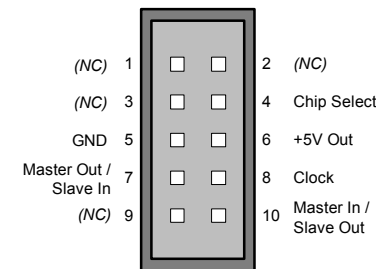


## 5 'C' connector (optional)



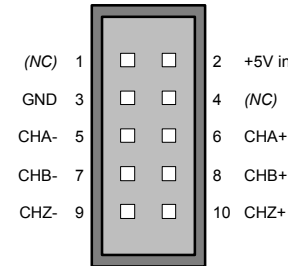
Some models (DSM17C... / DSM23C...) are available with an optional 12-pin keyed pin and receptacle for interfacing the power and I/O. To connect the SPI programming cable to the 12-pin connector, use adapter cable CBL054-502. This also provides a connection for the prototype development cable CBL054-503, which provides flying lead connections.

## 6 SPI interface



DSM setup parameters are changed via an SPI (Serial Peripheral Interface) port located on connector P2. This port uses a 10-pin IDC header, and connects to the parallel printer port on your PC. The recommended method of connecting the SPI port to the PC is by using Parameter Setup Cable CBL054-501. This eliminates the need of wiring the SPI interface. The motor interface is accessed through the Baldor SPI Interface software. For further details see installation manual MN1940.

## 7 Encoder connectors (optional)



The DSM is available with an optional factory mounted encoder, with either 500 or 1000 lines per revolution (i.e. 2000 or 4000 quadrature counts per revolution).

## 8 Cables (optional)

A selection of cables are available for testing or permanent connection of the DSM series.

