IMPORTANT NOTE!
This Quick Start Guide is not intended as a replacement for the full installation manual, MN1942 MicroFlex e100 Installation Manual, which provides detailed information about the product. The installation manual is available in PDF format on the supplied Baldor Motion Toolkit CD.

1 Mounting

MicroFlex e100 is designed to be supported by four M5 screws, spaced as shown in the diagram.

MicroFlex e100 must be fixed to a smooth vertical metal surface to ensure effective cooling.

2 Cooling for 6A & 9A models

Effective cooling for the MicroFlex e100 is essential:

* The 3A model requires no additional cooling.
* The 6A model requires additional forced air cooling at 1.0m/s or greater.
* The 9A model requires additional forced air cooling at 2.5m/s or greater.

Quoted air velocities are for air originating from below the MicroFlex e100, passing parallel to the heatsink. With MicroFlex e100 mounted as specified, quoted air velocities allow full drive rated current at ambient temperatures up to 45°C.
Regeneration resistor (optional)

A suitable regeneration resistor may be required to dissipate excess power from the internal DC bus during motor deceleration.

The regeneration resistor must have a resistance of at least 39Ω, inductance of less than 100µH, and a power rating suitable for the application. Baldor parts RG56 (44W) or RG39 (100W) are recommended.

Connect the regeneration resistor to R1 and R2.

Motor U V W outputs

Connect the motor to the U, V, and W outputs.

The U, V, and W outputs must be connected to their corresponding U, V, or W terminal on the motor. Misconnection may result in uncontrolled motor movement.

Motor earth should be connected to the MicroFlex e100 case using an M4 screw in the top of the metal heatsink.

The motor cable shield should be connected using a conductive earth/ground clamp, attached to the same metal surface as the MicroFlex e100.

24VDC control circuit supply

MicroFlex e100 requires a 24VDC (20-30VDC), 1A supply to power the control electronics.

Connect the control supply at connector X2.

A fused DC supply should be provided for the MicroFlex e100. If other devices are to be powered from the same 24V supply, a filter (Baldor catalog number F10014A00) should be installed to isolate the MicroFlex e100 from the rest of the system. Alternatively, a ferrite sleeve may be attached to the supply cable near connector X2.