

**Notes:**

1. Use at least AWG 12 (4 mm<sup>2</sup>) or AWG 10 (6 mm<sup>2</sup>) cable for main 0V return line. Keep the power supply lines reasonably short.

2. Under most circumstances the 0V return lines can be routed through the pass-through Gnd connectors on the BLDRV3 cards. However if there are problems then use separate AWG 12 lines to connect each card individually to the main 0V return line as shown. Ensure all connections on the 0V lines are clean and secure.

3. Use AWG 12 cable for the main +24V supply line.

4. Split as shown to provide separate +24V fused feeds to each card.

Note the fuses may be left out if the PSU has effective short-circuit cutout protection built-in. In this circumstance the 24V supply lines can be routed through the pass-through 24V connectors on the cards in most installations. However if this gives problems provide separate feeds as shown.

5. Usually unnecessary, however If required tie the motor cases / supporting structure direct to power supply 0V (-V) using AWG 12 cable or similar. If the motors are on electrically separate structures then tie each to 0V separately. If the structures are already grounded to mains earth then do not make this connection to PSU 0V.

