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Unidrive SP Size 1 Braking Resistor Installation Sheet

Safety information



Stored charge

The drive contains capacitors that remain charged to a potentially lethal voltage after the AC supply has been disconnected. If the drive has been energised, the AC supply must be isolated at least ten minutes before work may continue. Refer to section 3.1 *Safety information* in the *Unidrive SP User Guide*.



If the drive has been used at high load levels for a period of time, the heatsink and heatsink mounted braking resitor can reach temperatures in excess of 70°C (158°F). Human contact with the heatsink and heatsink mounted braking resistor should be restricted.



To avoid the risk of fire when the drive is surface mounted with the braking resistor fitted, the back plate should be a non-flammable material.

Introduction

This braking resistor has been especially designed to be mounted within the heatsink of the Unidrive SP size 1. The design of the resistor is such that no thermal protection circuit is required, as the device will fail safely under fault conditions. The in-built software overload protection is set up at default to protect the braking resistor.

Contents of the Box (1220-2756-01)

The following items should be supplied in the box: 1x 75Ω brake resistor 1x Through-panel grommet

1x Installation sheet

Fitting instructions

Figure 1-1 Removing the terminal covers

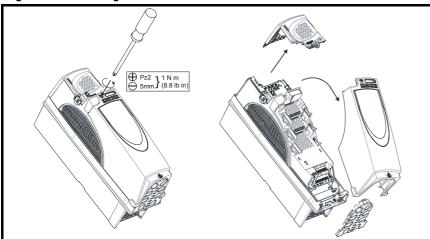


Figure 1-2 Remove DC terminal cover break-outs

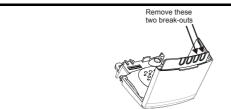
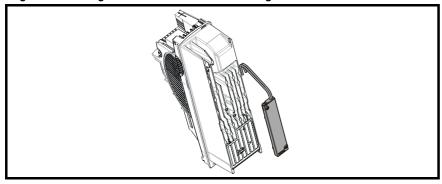


Figure 1-3 Fitting of the heatsink mounted braking resistor



- To remove a terminal cover, undo the screw and lift the terminal cover off as shown in the diagram opposite.
- The main terminal cover must be removed first before the 48V/DC terminal cover can be removed. When replacing the terminal covers the screws should be tightened to a maximum torque of 1 N m (0.7 lb ft).

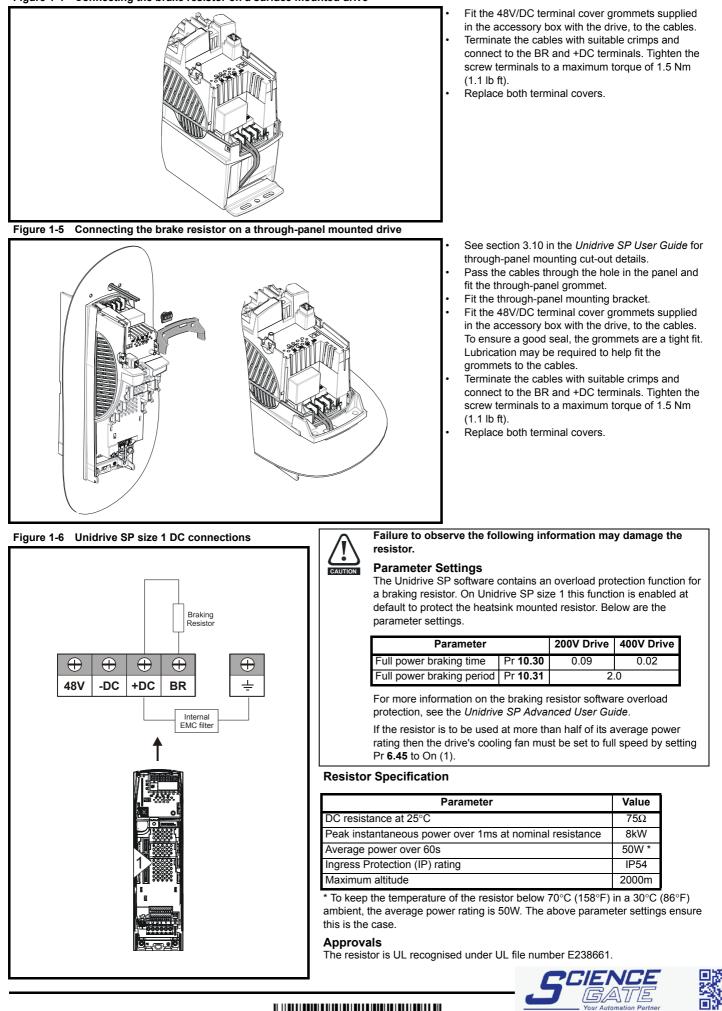
- The two break-outs that line up with the BR and +DC terminal connections must be removed, as shown in the diagram opposite.
- Grasp the 48V/DC terminal cover break-outs with pliers and twist to remove.
- Remove any flash / sharp edges once the breakouts are removed.

Fit the braking resistor to the heatsink as shown in the diagram opposite. The resistor is fitted with captive screws.

- The screws should be tightened to a maximum torque of 2 N m (1.5 lb ft).
- Ensure the cables are routed between the fins of the heatsink, and that the cables are not trapped between heatsink fins and the resistor.









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