7PG21 Solkor Rf

Feeder Protection

Document Release History

This document is issue 02/2010. The list of revisions up to and including this issue is:
Pre release

02/2010	Document reformat due to rebrand

Software Revision History

Contents

Table of Figures

1 Unpacking, storage and handling

On receipt, remove the relay(s) from the container in which it was received and inspect it for obvious damage. Check that the relay(s) is the correct model number and the rating information is correct. It is recommended that the relay is not removed from the case. To prevent the possible ingress of dirt, the sealed polythene bag should not be opened until the relay is to be used. If damage has been sustained a claim should immediately be made against the carrier and the local *Siemens* office should be informed.

When not required for immediate use the relay should be returned to its original carton and stored in a clean, dry place.

2 Recommended Mounting Position

The Solkor Rf relay has test points fitted for use during commissioning and routine testing and a mechanical flag as a visual indication of relay operation. The relay should be mounted onto the circuit breaker or panel at a level which allows the user easiest access to the relay functions.

Components which have 15kV isolated pilot connections are often mounted separately from the protection relay in a location more convenient for the connection to the incoming pilot cable and/or in the interest of safety. Connections to the relay can then be made at the lower 5kV insulation level with precautions and identification to suit.

3 Relay Dimensions

The Solkor Rf relay is supplied in an Epsilon size E6 case.

5kV Pilot Supervision Send and Receive End units are supplied in Epsilon size E4 case.

B22 Supply Supervision relay, B74 repeat relay for use with 15kV Receive relay (B75) and the B34 relay for Rf Intertripping are each supplied in an Epsilon size E2 case

Mechanical diagrams of the Epsilon case dimensions and panel cut-out requirements are shown in Figures 1-3.

15kV Send End, B75 Receive relays and the TEC intertripping relay are supplied in Vedette size 1 1/2V case. Mechanical diagrams of case dimensions and panel cut-out requirements are shown in Figure 4.

The Intertripping Inverter is supplied in a special case for back of panel mounting and Mechanical diagrams of case dimensions and mounting requirements are shown in Figure 5.

The 15Kv Isolation Transformer is supplied in a special case for back of panel mounting and Mechanical diagrams of case dimensions and mounting requirements are shown in Figure 6.

4 Fixings

4.1 Epsilon Cases

4.1.1 Crimps

M4 Ring tongued crimps with 90˚ bend are recommended.

4.1.2 Panel Fixing Screws

Typical mounting screw kit per Relay)

Consists of 4 off M4x10mm Screws

4 off M4 Nuts

4 off M4 Lock Washer

Typical rear terminal block fixing kit (1kit per terminal block fitted to relay) Consists of:

28 x M4, 8mm Screws

28 x M4 Lock Washer

4.2 Vedette Cases

4.2.1 Crimps

M5 Ring tongued crimps are recommended.

4.2.2 Panel Fixing

Vedette case mounting arrangement is shown in

4.3 Back of Panel cases

4.3.1 Crimps

M6 Ring tongued crimps are recommended.

4.3.2 Mounting arrangement

Case mounting arrangement is shown in Figure 5 & 6

Figure 1. E2 Case

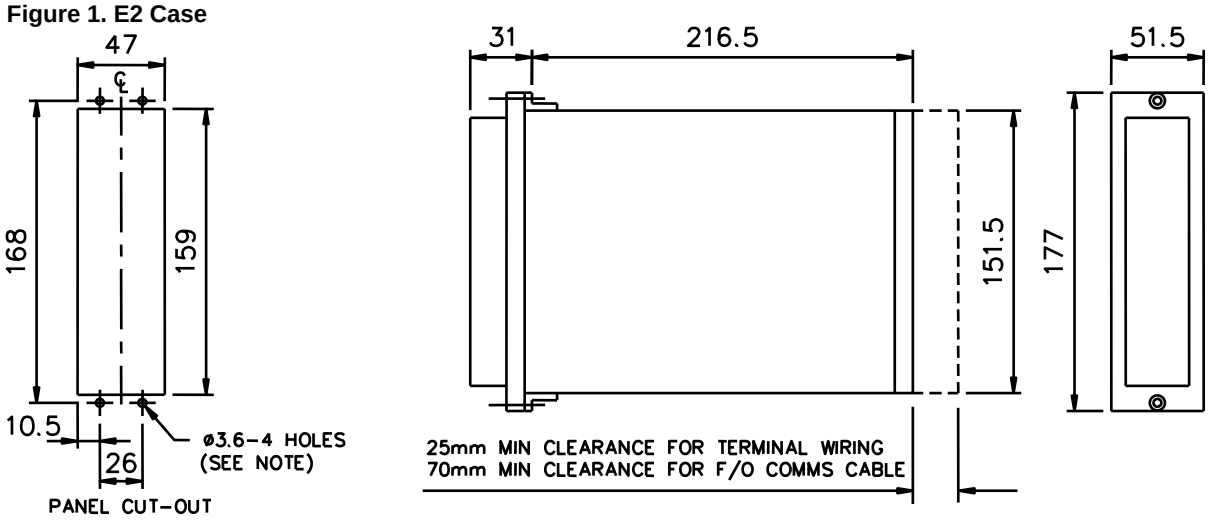


Figure 2. E4 Case

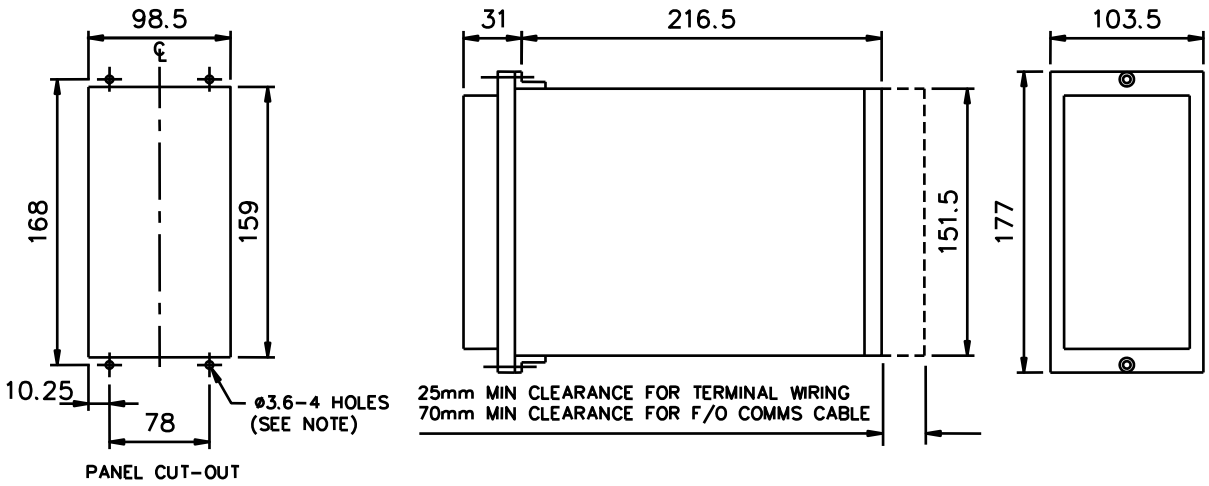
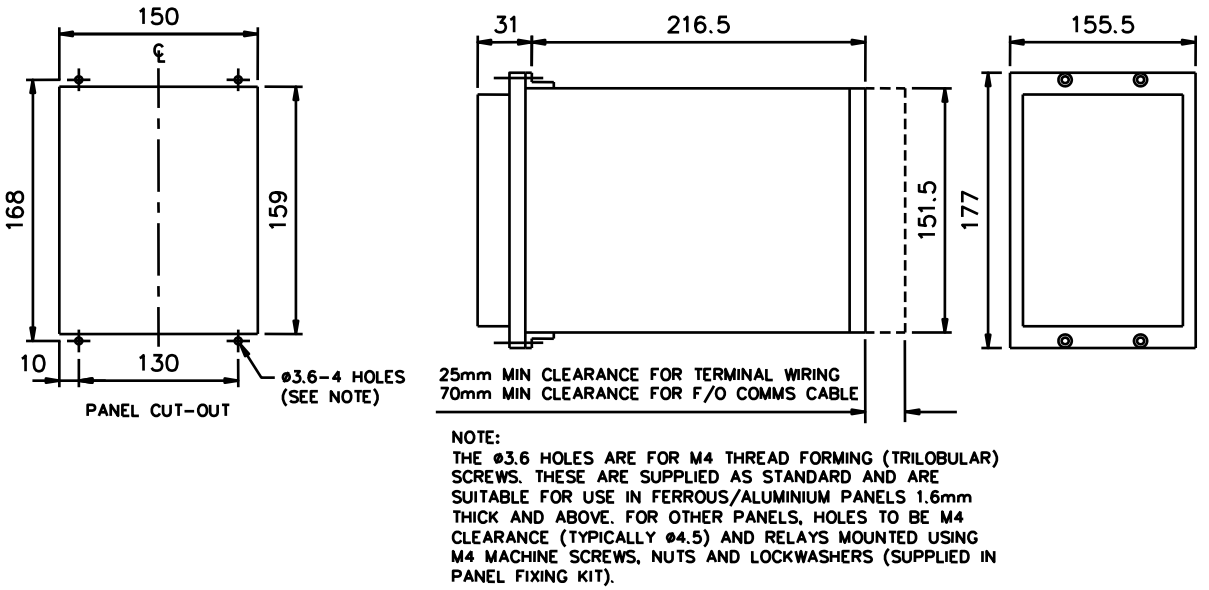


Figure 3. E6 Case



NOTE:
THE ø3.6 HOLES ARE FOR M4 THREAD FORMING (TRILOBULAR) SCREWS. THESE ARE SUPPLIED AS STANDARD AND ARE SUITABLE FOR USE IN FERROUS/ALUMINIUM PANELS 1.6mm THICK AND ABOVE. FOR OTHER PANELS, HOLES TO BE M4 CLEARANCE (TYPICALLY ø4.5) AND RELAYS MOUNTED USING M4 MACHINE SCREWS, NUTS AND LOCKWASHERS (SUPPLIED IN PANEL FIXING KIT).

Figure 4. Vedette C1½ Case

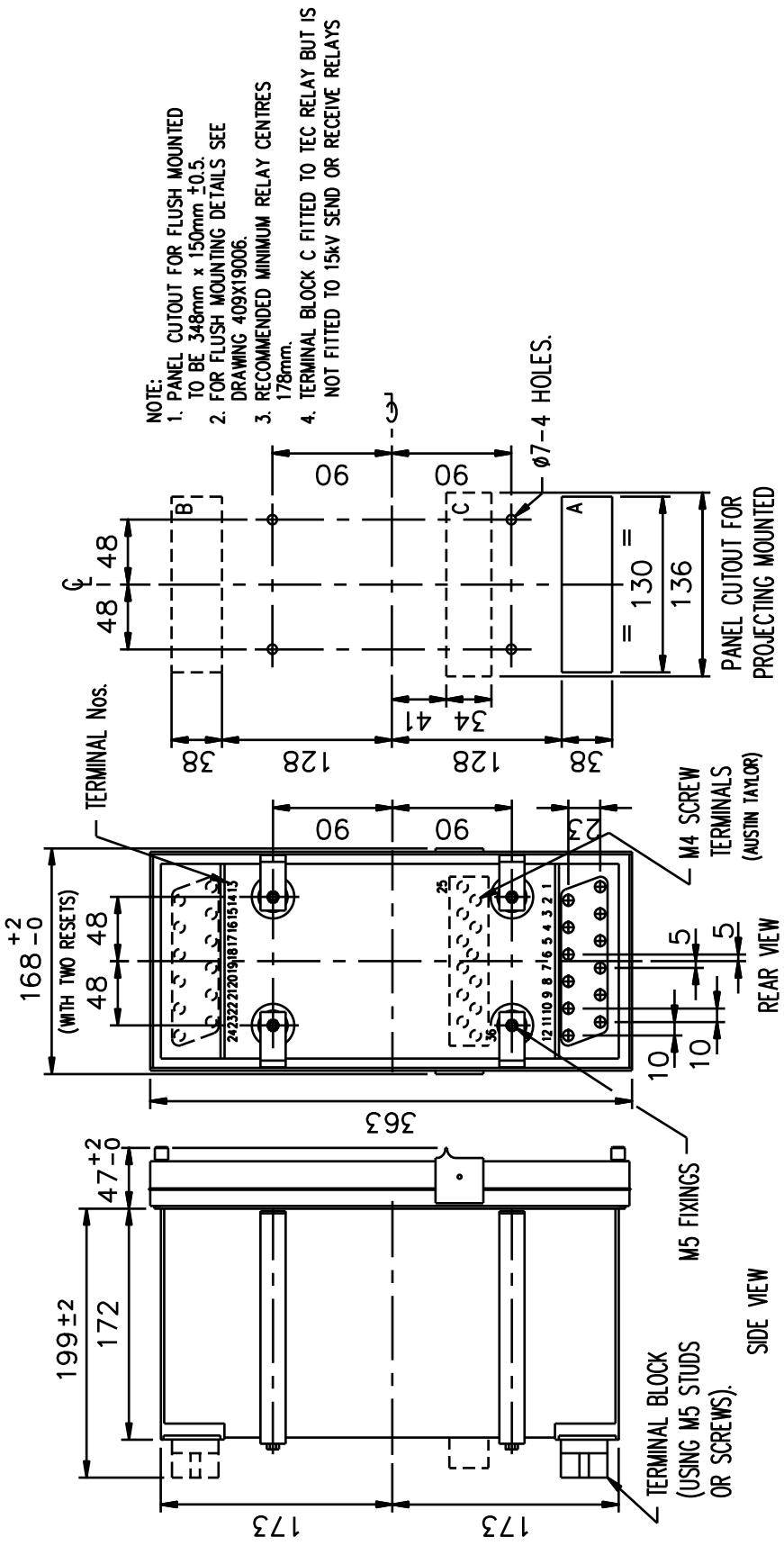


Figure 5. 15kV Transformer Outline & Mounting Arrangement

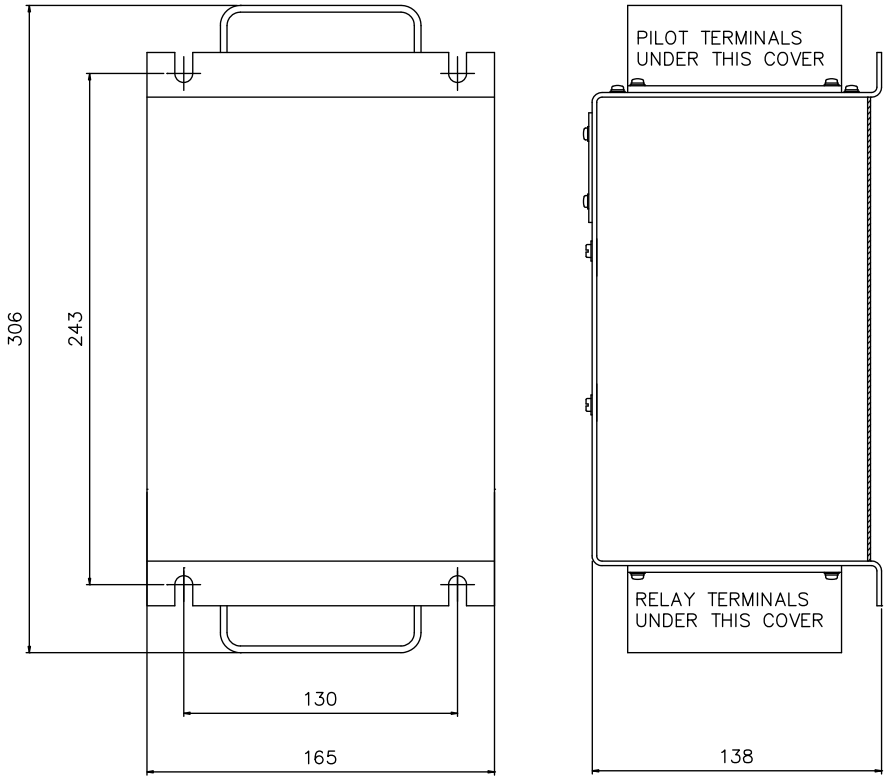


Figure 6. Intertripping Inverter Outline and Mounting Arrangement