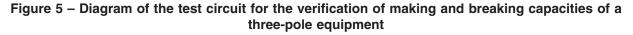
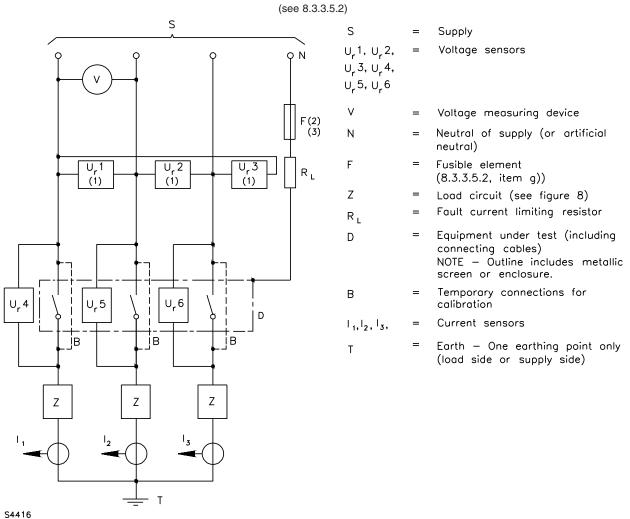
#### JULY 31, 2013





NOTE  $1 - U_r 1$ ,  $U_r 2$  and  $U_r 3$  may, alternatively, be connected between phase and neutral.

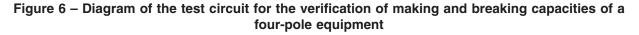
NOTE 2 – In the case of equipment intended for use in phase-earthed systems or if this diagram is used for the test of the neutral and adjacent poles of a 4-pole equipment, F shall be connected to one phase of the supply.

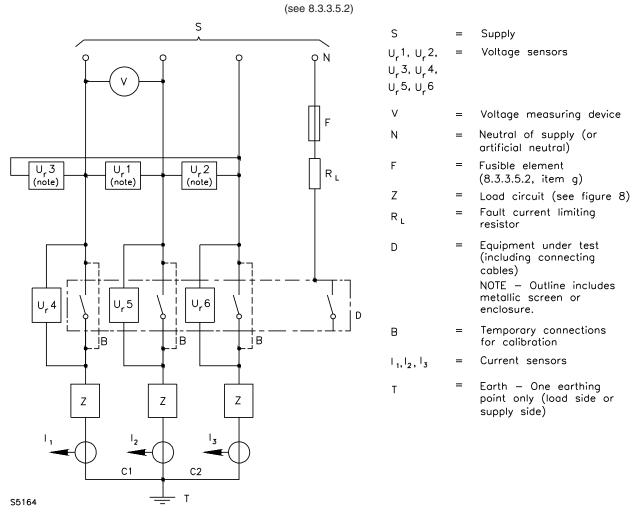
In the case of d.c., F shall be connected to the negative of the supply.

NOTE 3 - In the USA and Canada, F shall be connected

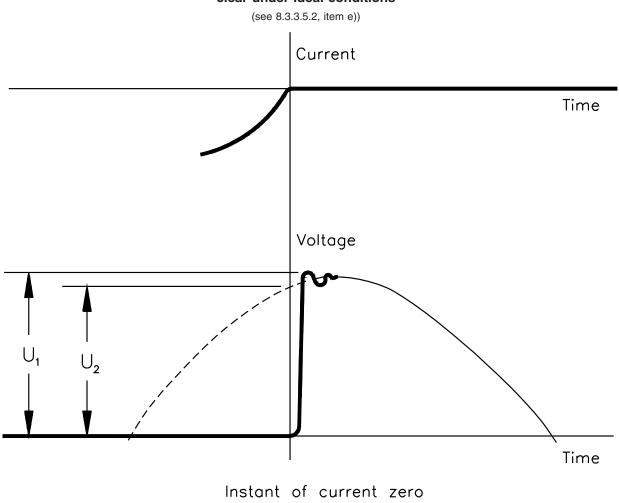
- to one phase of the supply for equipment marked with a single value of Ue;

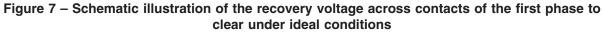
- to the neutral for equipment marked with a twin voltage (see note to 5.2).



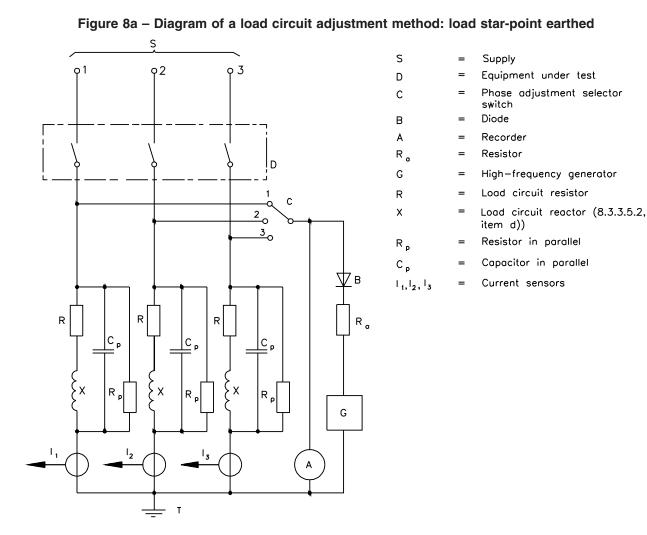


NOTE  $- U_r 1$ ,  $U_r 2$  and  $U_r 3$  may, alternatively, be connected between phase and neutral.





S5165



S5166

The relative positions of the high-frequency generator G and the diode shall be as shown. No other point of the circuit than the one indicated on the figure shall be earthed.

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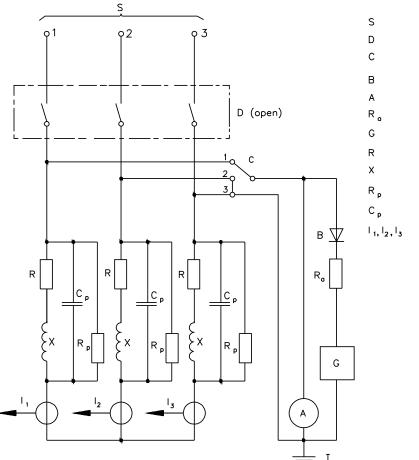


Figure 8b – Diagram	of a load circuit ac	ljustment method: sup	olv star-point earthed
	i ol a load olloan at	justinent method. Sup	ny olur point curtiled

Phase adjustment selector switch Diode \_ Recorder Resistor = \_ High-frequency generator Load circuit resistor = = Load circuit reactor (8.3.3.5.2d)) Resistor in parallel = = Capacitor in parallel Current sensors =

Equipment under test

Supply

=

=

S4417

The relative positions of the high-frequency generator G and the diode shall be as shown. No other point of the circuit than the one indicated on the figure shall be earthed.

In this figure, as an example 1, 2 and 3 are represented in the position corresponding to the adjustment of phase 1 (the first phase to clear) in series with phases 2 and 3 connected in parallel.

#### Figure 9 – Diagram of the test circuit for the verification of short-circuit making and breaking capacities of a single-pole equipment on single-phase a.c. or on d.c. (see 8.3.4.1.2)

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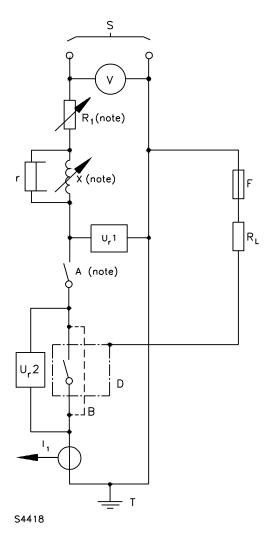
D

В

1

Т

r



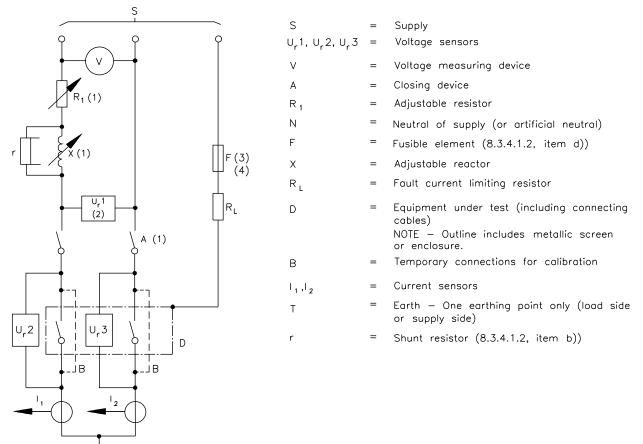
Supply = U,1, U,2 = Voltage sensors Voltage measuring device = = Closing device Adjustable resistor = = Fusible element (8.3.4.1.2, item d)) = Adjustable reactor RL Fault current limiting resistor = Equipment under test (including = connecting cables) NOTE - Outline includes metallic screen or enclosure. Temporary connections for calibration = Current sensor = Earth - One earthing point only (load side or supply side)

= Shunt resistor (8.3.4.1.2, item b))

NOTE - Adjustable loads X and R1 may be located either on the high-voltage side or on the low-voltage side of the supply circuit, the closing device A being located on the low-voltage side.

# Figure 10 – Diagram of the test circuit for the verification of short-circuit making and breaking capacities of a two-pole equipment on single-phase a.c. or on d.c.

(see 8.3.4.1.2)



S4419

NOTE 1 – Adjustable loads X and  $R_1$  may be located either on the high-voltage side or on the low-voltage side of the supply circuit, the closing device A being located on the low-voltage side.

NOTE 2 – U<sub>r</sub>1 may, alternatively, be connected between phase and neutral.

NOTE 3 – In the case of equipment intended for use in phase-earthed systems or if this diagram is used for the test of the neutral and adjacent pole of a four-pole equipment, F shall be connected to one phase of the supply.

In the case of d.c., F shall be connected to the negative of the supply.

NOTE 4 - In the USA and Canada, F shall be connected

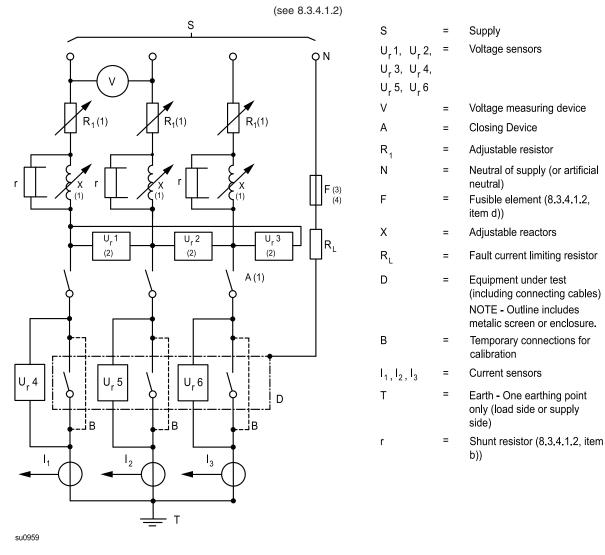
Т

- to one phase of the supply for equipment marked with a single value of Ue;

- to the neutral for equipment marked with a twin voltage of  $U_e$  (see note to 5.2).

Figure 10DV D2 Modification of Note in Figure 10:

For devices not marked "break all lines" only a single pole of "D" is to be connected between the supply and the load. The other pole of the test device is to be connected to neutral.



## Figure 11 – Diagram of the test circuit for the verification of short-circuit making and breaking capacities of a three-pole equipment

NOTE 1 – Adjustable loads X and  $R_1$  may be located either on the high-voltage side or on the low-voltage side of the supply circuit, the closing device A being located on the low-voltage side.

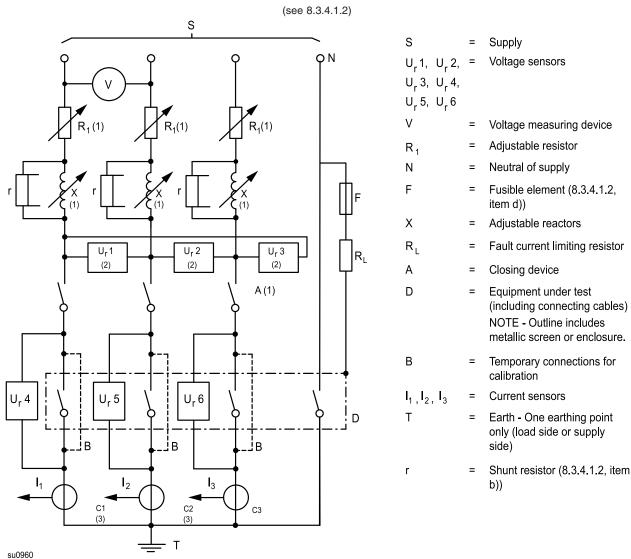
NOTE 2 –  $U_r1$ ,  $U_r2$ ,  $U_r3$  may, alternatively, be connected between phase and neutral.

NOTE 3 – In the case of equipment intended for use in phase-earthed systems or if this diagram is used for the test of the neutral and adjacent pole of a four-pole equipment F, shall be connected to one phase of the supply.

NOTE 4 - In the USA and Canada, F shall be connected

- to one phase of the supply for equipment marked with a single value of  $U_{\rm e}$ ;

- to the neutral for equipment marked with a twin voltage of  $U_{\rm e}$  (see note to 5.2).



## Figure 12 – Diagram of the test circuit for the verification of short-circuit making and breaking capacities of a four-pole equipment

NOTE 1 – Adjustable loads X and  $R_1$  may be located either on the high-voltage side or on the low-voltage side of the supply circuit, the closing device A being located on the low-voltage side.

NOTE 2 –  $U_r1$ ,  $U_r2$ ,  $U_r3$  may, alternatively, be connected between phase and neutral.

NOTE 3 - If an additional test is required between the neutral and the adjacent pole, the connections C1 and C2 are omitted.