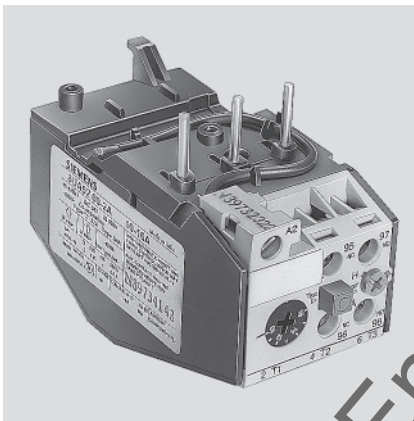


SICOP

Bimetal Relay with Single Phasing Protection Type 3UA50/52/55



B. Short Circuit Protection

The Birelays have to be protected from short circuits. It is mandatory to use back up HRC fuses. The maximum permissible ratings of Siemens fuses (Type 3NA1) as per IS 13947 Pt-4 corresponding to type 2 co-ordination are mentioned on the name plate.

Maximum backup fuse rating : 6 Amps (Type 3NA1)

For permissible installed position: (see Fig. I)

- a. Overload relay with contactor (refer Fig. Ia).
- b. Overload relay for individual mounting (refer Fig. Ib).

Do not subject to sudden shocks or long term vibrations.

D. Installation

For dimensional drawings.

- a. 3UA50 + 3UX1418/3UA52 + 3UXI 420/3UA 55 + 3UXI 425 (refer Fig. IIa).
- b. 3UA 50 + 3TB 40/41 (refer Fig. IIb).
- c. 3UA 52 + 3TF 42/43 (refer Fig. IIc).
- d. 3UA 55 + 3TF 44/45 (refer Fig. IIId).

The Siemens 3UA50/52/55 bi-relays provide accurate overload and accelerated single phasing protection for three phase motors with currents upto 45A.

It incorporates dual slider principle for accelerated tripping under single phasing.

A. Technical Data

Rated Insulation

Voltage : 690 V AC

Reated Operational Current

3UA50 : 0.1 to 14.5A

3UA52 : 0.1 to 25A

3UA55 : 5 to 45A

Permissible ambient

Temp. : -25°C to + 55°C

Frequency of operation : 15 ops/hr

C. Mounting

Relay Type	Suitable for mounting to contactor Type.
3UA50	3TB40/41
3UA52	3TF42/43
3UA55	3TF44/45

For individual mounting an adaptor is available which should be ordered out seperately.

Ordering number and suitability are as under :

Adaptor type	Suitable for Mounting to
3UX1418	3UA50
3UX1420	3UA52
3UX1425	3UA55

E. Connection

Permissible cable Cross-sections

	Phase Conductor		Auxiliary Conductor
	3UA 50/52 2 x 2.5 to 6	3UA 55 2 x 1.5 to 25	3UA 50/52/55 2 x 1 to 2.5
Solid (mm ²)			
Finely stranded with end sleeve (mm ²)			
Terminal Screw	2 x 1.5 to 4 M4	2 x 1 to 16 M5	2 x 0.75 to 1.5 M3.5
Tightening torque (Nm)	1 to 1.5	2.5 to 3	0.8 - 1.4

For equipment circuit diagram refer Fig. III. In case of single phase loads, the three main circuits must be connected in series.

F. Auxiliary Circuit - Rated operational currents

AC - 15/U _e - V	24	60	125	230	415	500	690
AC - 15 I _e - A	2	1.5	1.25	1.15	1	1	0.8
DC - 13/U _e - V	24	60	110	220			
DC - 13/I _e - A	2	0.5	0.3	0.2			

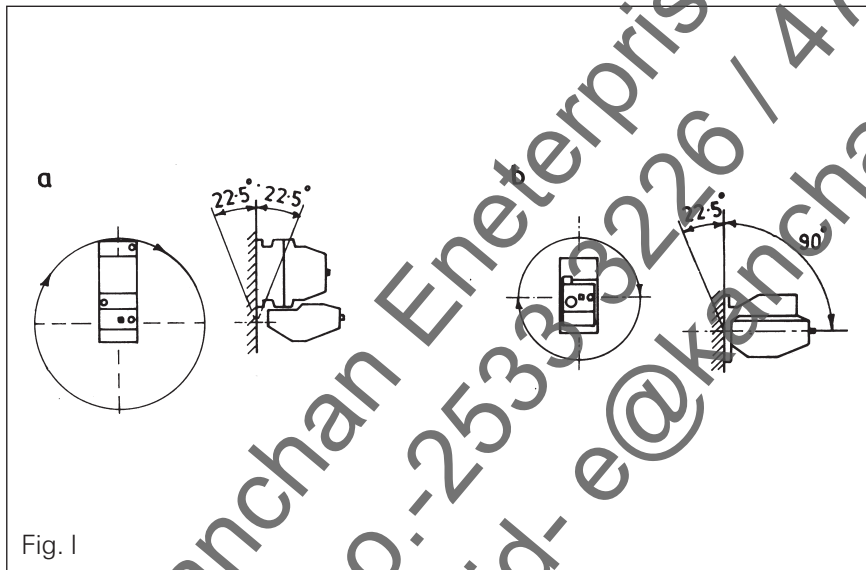


Fig. I

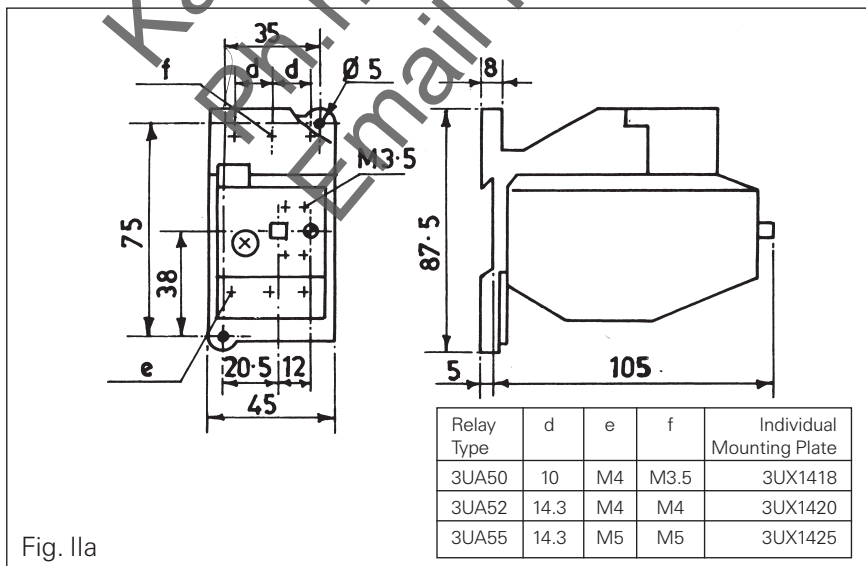


Fig. IIa

G. Commissioning

For instructions, see Fig. IV

- Set the scale (P1) to the rated current of load.
- Reset button (Blue) (P2) Push this button before commissioning and after tripping to make relay ready for operation. In the as-delivered condition, the auxiliary contact is set to H = Manual resetting. To change from H = Manual to A = Automatic, Press and turn the button counter-clockwise from H to A.
- Test button (Red) (P3) When this button is actuated, the NC contact opens and the NO contact closes. i.e. a test function for NC and NO contacts (simulation of over load tripping).
- Trip indicator (Green) (P4). In the H setting, a green pin protrudes from the front plate to indicate the TRIPPED condition. In the A setting this condition is not indicated.
- Terminal for contactors coil A2 (P5).

H. Tripping Characteristics

Individual characteristics for each range are available on request.

Please get in touch with the nearest Siemens office.

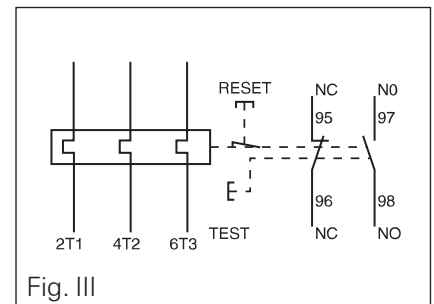


Fig. III

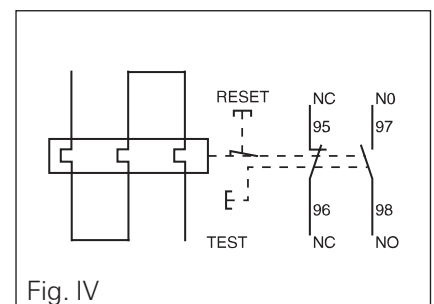
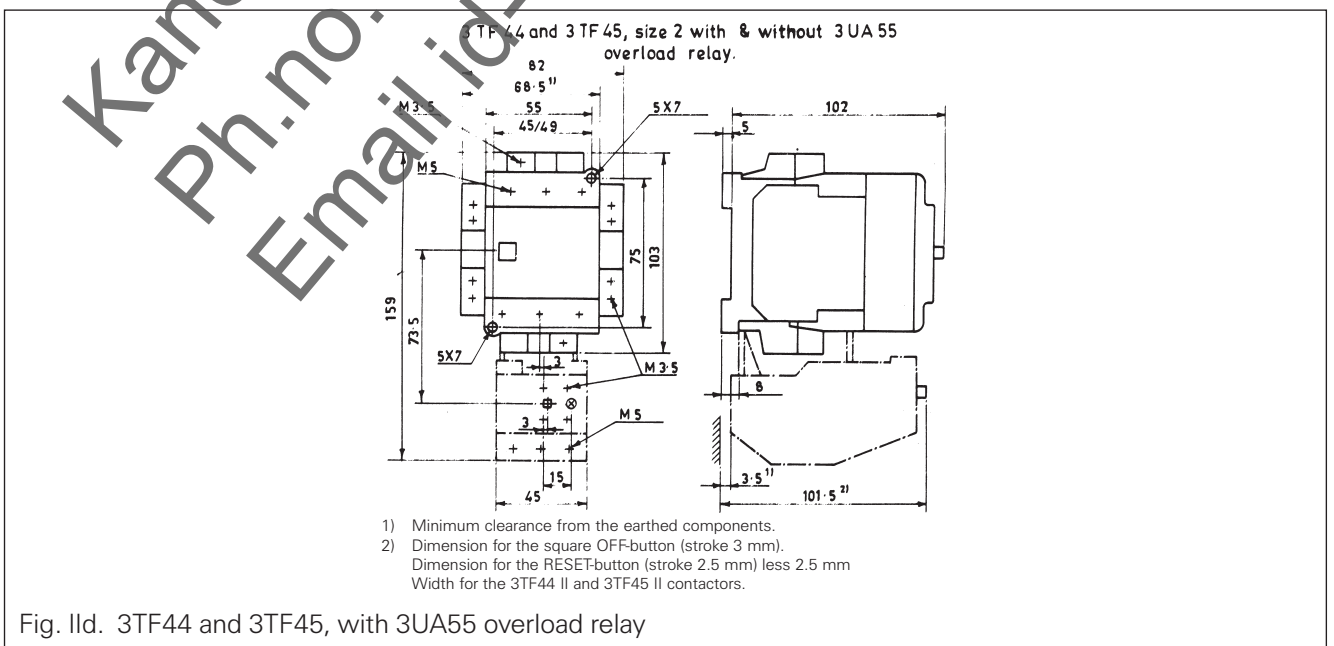
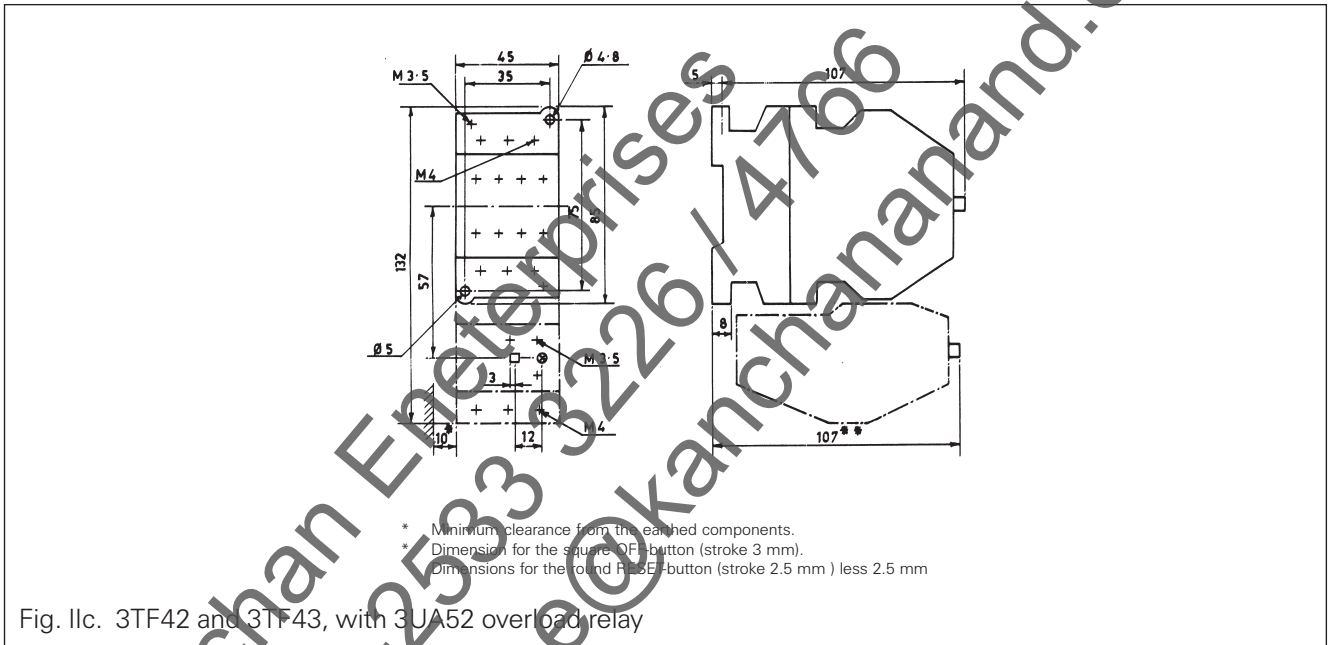
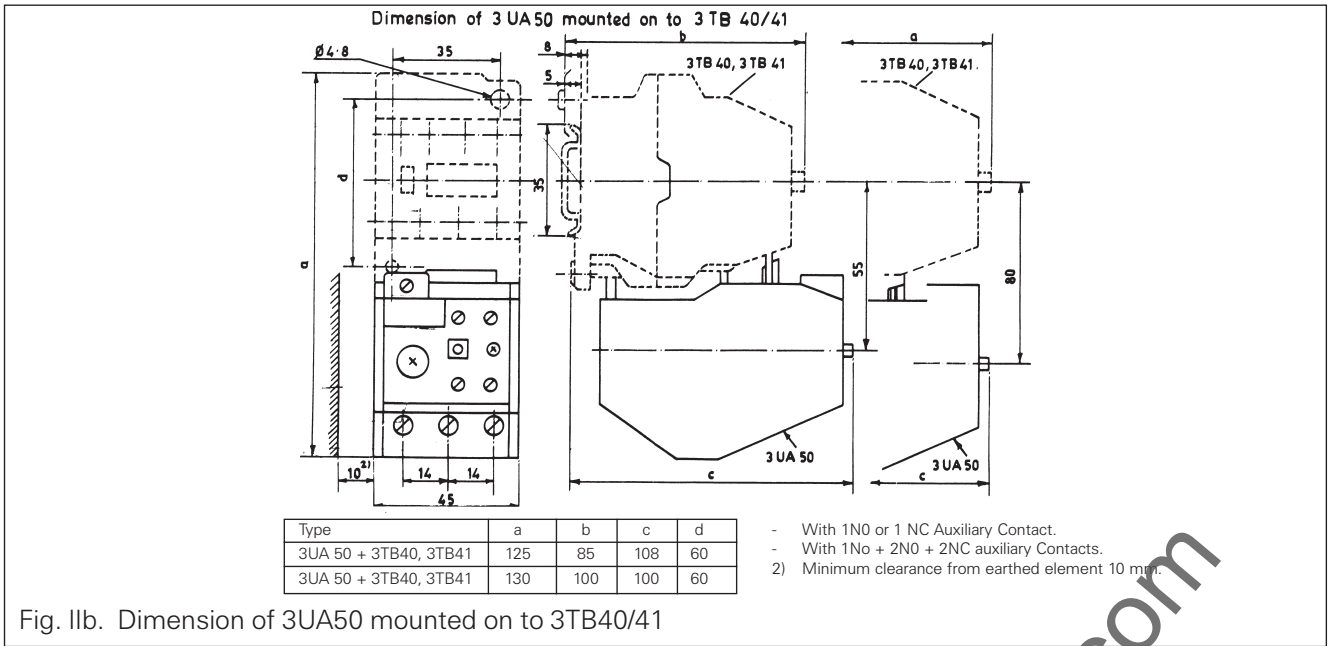


Fig. IV



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