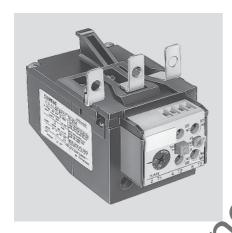
SIEMENS

Operating Instructions

SICOP

Bimetal Relay with Single Phasing Protection Type 3UA58



Product Type	Setting Range Amp	Maximum backup fuse rating (Type 3NA1) "Amp"
0,	16-75 0-32	50 63
3UA6800	25 - 40 32 - 50 40 - 57	80 100 100
10,1	50 - 63 57 - 70	125 125
00'0	62 80 70-95	160 160

The Siemens 3UA58 Bi-relay provide accurate overload and accelerated single phasing protection for three phase motors having rated currents up to 95 A It incorporates due! slider principle for accelerated tripping under

from short circuits. Us mandatory RC Fuses. The missible ratings of as per IS 13947 Pt-4 (Type 3NA1) corresponding to type 2 co-ordination for each relay range are listed in Table 1.

Maximum backup fuse rating Type 3NA1 for auxiliary circuit

Technical Dat

single phasing

Rated in sulation Voltage for main circuit

Ambient temperature compensation

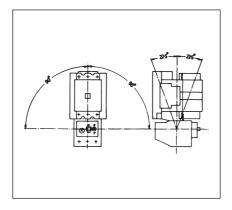
Rated operating : Ranges upto current 95 A

Frequency of : 15 operations operation per hour.

Selection (Setting ranges)

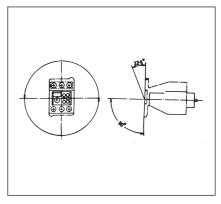
The Bi-relays are available in 9 different ranges. The ranges are listed in Table 1.





Installation

The Bi-relay type 3UA58 available in 2 different executions namely 3UA5800 -.. Z1, and 3UA5800 -.. Z2 are suitable for mounting directly on Siemens contactors type 3TF46/47.. ZA01, 3TF48/49 and 3TF47 7 respectively. For individual mounting an adaptor type 3UX1421 is available which should be ordered out separately. See fig. 1 & 2 for permitted mounting position. Care should be taken to avoid shocks and prolonged vibrations. For dimensional details refer Figs. 3a, 3b, 3c and 4.



Connection diagram

Refer Fig. 5

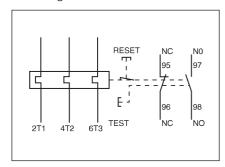


Fig. 5

In case of single phase loads, the three main poles should be connected in series. Refer Fig. 6.

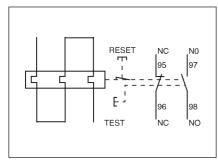


Fig. 6

Auxiliary contacts

See Fig. 5 Contact configuration is 1NO + 1NC.

For switching capacities referTable below:

AC15		DC13		
Ue V	le A	Ue V	e A	
24	2	2	2	
60	1.5	60	0.5	
125	1.25	110	0.3	
230	1.15	220	0.2	
415	1	~		
500	1	0		
690	0.8			

Allowable Conductor cross sections

Main Circuits

Solid/Stranded : 2.5mm² to conductor 35mm²

: 1.5mm² to Stranded with end sleeves 25mm²

Terminal Screws : M 5

Tightening torque: 2.5 - 3 Nm

Auxiliary Contact

Solid/stranded 2x(1 to Conductor 2.5 mm²) Flexible with end 2x (0.75 sleeve to 1.5 mm²) Terminal screw M 3.5 Tightening 0.8 - 1.2 Nm torque

Operational details

Refer Fig. 7.

Dial Setting (P1)

Set the scale (P1) to the actual current of the load. For details refer "Siemens Handy Guide for Electricians."

Reset Button (P2) (blue)

Before putting the relay into operation, press the blue coloured reset button (P2). The auxiliary contacts are preset in befactory for 'Manual Resetting This can converted to 'Autom e Resettina by pressing the reset button with screw driver and turning it anti-clockwise from H (Manual) to A (Automatic) upto limit.

Test button (P3) (re

this button is actuated ontact opens and the NO contact closes i.e. a test function or NC and NO contact (Simulation of overload tripping)

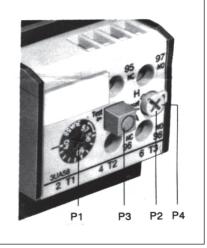


Fig. 7

Trip Indicator (P4) (green

Tripping of 'Manual-Resetting' relay is indicated by popping up of the green coloured pin (P4) from the front plate. press the reset button for resetting the relay. There is no indication in case of automatic resetting

Tripping Characteristics

he verage tripping characteristics 3 phase overload and single phasing i.e. 2 phase overload is given in data sheet.

Individual characteristics for each range are available on request. Please get in touch with the nearest Siemens office.



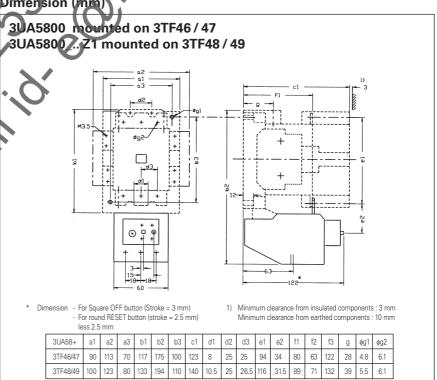
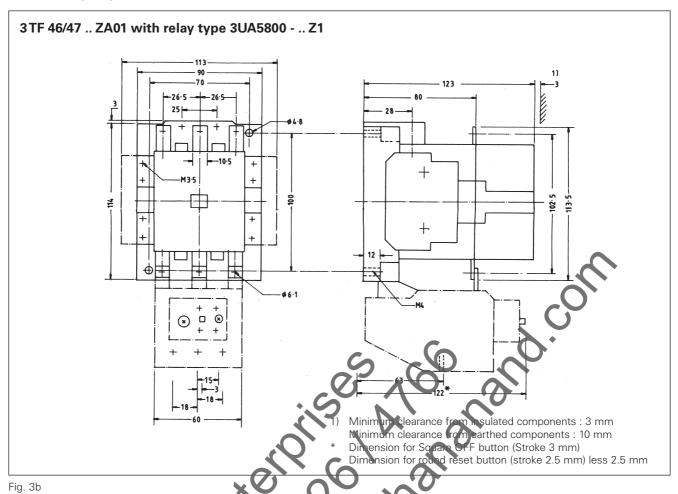


Fig. 3a

Dimension (mm)



Contactor 3TF47 7 with relay type 3UA 5800 - 22

