# Bimetal Overload Relays 3UA and 3UC

The 3UA / 3UC thermal overload relays are suitable for customers from all industries, who want guaranteed optimum inverse time delayed protection of their electrical loads. The relays meet the requirements of IS/IEC 60947-4-1.

## **Application**

**3UA overload relay**: 3UA5/6 are 3 pole adjustable bi-metal overload relays mainly suitable for normal starting applications. They provide accurate and reliable protection to motors against overload as per CLASS 10A. They also offer protection against single phasing and unbalanced voltages.

**3UC overload relay:** 3UC5/6 are 3 pole adjustable, saturable CT operated bi-metal overload relays mainly suitable for heavy starting applications (i.e. when heavy masses are to be put in motion resulting in larger starting period). They provide accurate and reliable protection to motors against overload as per CLASS 30. They also offer protection against single phasing and unbalanced voltages.

If single-phase AC or DC loads are to be protected by the 3UA / 3UC thermal overload relays, all three bimetal strips must be heated. For this purpose, all main current paths of the relay must be connected in series.

#### **Standards**

Bimetal relays conform to IS/IEC 60947-4-1. They also carry the CE mark.

#### Range

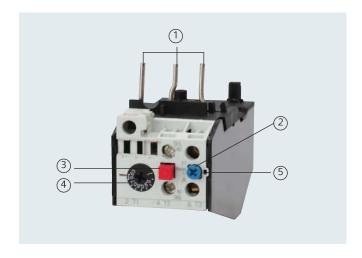
3UA5: 0.1 to 120A, (Class 10A, without CT)

3UA6: 85 to 630A, (Class 10A, CT operated)

3UC5/6: 2.4 to 400A (Class 30, CT operated)

## **Relay overview**

Overload relay operates on the bi-metallic principle. The heater winding wound on the bimetal strips carry the current flowing through the motor. In case of overload, the current carried through the heater winding is more than the rated current. This heats up the bimetals. Due to this bi-metal strips bend and open the NC contact of the relay, which is connected in the control circuit of the contactor, thus disconnects the motor from the supply. The tripping time is inversely proportional to the current flowing through the bi-metal strips. Bi-relays are therefore, referred to as "current dependent" and inverse-time delayed relays.



#### 1. Connection for mounting onto contactors:

Optimally adapted in electrical, mechanical and design terms to the contactors, these connecting pins can be used for direct mounting of the overload relays. Stand-alone installation is possible as an alternative (in some cases in conjunction with a stand-alone installation module).

## 2. Selector switch for manual/automatic RESET (blue):

With this switch you can choose between manual and automatic RESET. A device set to manual RESET can be reset locally by pressing the RESET button. A remote RESET is possible using the RESET modules (accessories), which are independent of size.

## 3. TEST button (red):

Trip circuit can be manually checked by using this button. During this simulation the NC contact (95-96) is opened and the NO contact (97-98) is closed. This tests whether the auxiliary circuit has been correctly connected to the overload relay. The relay must be reset with the RESET button if it has been set to manual RESET. If the thermal overload relay has been set to automatic RESET, then the overload relay is automatically reset when the TEST button is released.

## 4. Motor current setting dial:

Setting the device to the rated motor current is easy with the large rotary knob. (Recessed dial, hence no possibility of accidently change in current setting.)

#### 5. Trip indicator (Green):

A separate mechanical Green Trip Indicator is provided on the front cover of the relay to indicate the tripped state of the 'manual reset' relay.

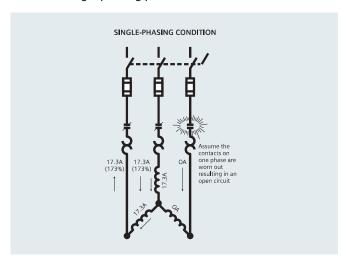
## **Recovery time**

After tripping due to overload, the thermal overload relays require some time until the bimetal strips have cooled down. The device can only be reset after the bimetal strips have cooled down. This time (recovery time) depends on the tripping characteristics and strength of the tripping current. The recovery time allows the load to cool down after tripping due to overload.

### **Benefits and features**

## High performance

· In-built single phasing protection



In case of phase loss the current through the other two windings increases by 1.732 times the rated current of the motor. The current now flows only through the 2 bimetallic strips which should produce the required force on the tripping mechanism. This needs higher currents for longer time. As current is not too high so the relay might take higher time to trip. This can cause damage to the motor. Similar condition happens in case of phase unbalance. To take care of these conditions our birelays are constructed such that they offer a built-in single phasing protection using differential slider principle.

## Temperature compensation

The temperature compensation feature reduces the effect of the ambient temperature on the tripping behavior. This ensures the minimum tripping current lies within the

To Power To Power (Motor Heater Element Heater Element Primary Bimetal Strip Primary Bimetal Strip To Control Trip Unit To Control Circuit Circuit Compensating Bimetal Strip Compensating Bimetal Strip Ambient Compensated Overload Relay Affected By Ambient Temperature Ambient Compensated Overload Relay Affected By Motor Temperature

specified range for -25 to  $55^{\circ}$  C. For this purpose the relays are temperature compensated between service temperatures of -25°C to +55°C.

## User friendliness and safety

- · SIGUT termination Technique
  - Shrouded auxiliary terminals
     Increases safety, as they protect against accidental contact with live parts.

## - Funnel shaped cable entries

Reduce wiring time by facilitating quick location of the connecting wire.

#### Cable end-stop

They decide the insertion depth of the connective wire. As the wire cannot now protrude into the relay housing, it does not hamper the movement of the auxiliary contacts. Since the insertion depth is predetermined, insulation of the cable can be cut accordingly and the possibility of insulation getting inadvertently caught under the terminal, is avoided.

#### - Captive Screws

This feature prevents the screws from falling down thereby facilitates the wiring. Hence, the relays are delivered with untightened terminals. This eliminates the operation of untightening terminals before wiring.

## - Lug less termination

This feature helps in reducing the termination time.

 Screw-driver guides reduce wiring time as they allow the use of power screw-drivers.

## **Flexibility**

### · Potential free Auxiliary Contacts

Potential free 1NO + 1NC contact arrangement is provided as a standard feature. The 1NC contact is used in the control circuit of the contactor for disconnecting the motor in case of overload, whereas the 1NO contact can be used for various applications such as indication.

#### Mounting

**3UA5:** suitable for direct mounting or independent mounting (with the help of independent mounting accessory)

3UA6 and 3UC5/6: suitable for Independent mounting.

## Selection and ordering data:

| Setting range                          |  | Type reference  | Backup<br>HRC fuse<br>3NA A<br>(max)              | Mounting  | Std.<br>pkg.<br>(nos.) |  |  |  |
|--|--|---|---|---|------------------------|--|--|--|
|  | Normal Motor Starting time   |   |   |   |                        |  |  |  |
| 3UA50                                  |  |   |   |   |                        |  |  |  |
| 0.16                                   | - 0.16<br>- 0.25<br>- 0.4  | 3UA50 00-0A<br>3UA50 00-0C<br>3UA50 00-0E   | 2<br>2<br>2                                       |   |                        |  |  |  |
| 0.63                                   | - 0.63<br>- 1<br>- 1.25  | 3UA50 00-0G<br>3UA50 00-0J<br>3UA50 00-0K   | 2<br>2<br>4                                       |   |                        |  |  |  |
| 1.25<br>1.6                            | - 1.60<br>- 2<br>- 2.5<br>- 3.2                                      | 3UA50 00-1A<br>3UA50 00-1B<br>3UA50 00-1C<br>3UA50 00-1D  | 6<br>6<br>6<br>10                                 | With<br>Contactor<br>3TF30/31                         | 1                      |  |  |  |
| 3.2                                    | - 4<br>- 5<br>- 6.3  | 3UA50 00-1E<br>3UA50 00-1F<br>3UA50 00-1G   | 10<br>16<br>16                                    |   |                        |  |  |  |
| 8                                      | - 8<br>- 10<br>- 12.5<br>- 14.5                                      | 3UA50 00-1H<br>3UA50 00-1J<br>3UA50 00-1K<br>3UA50 00-2S  | 20<br>25<br>25<br>25<br>25                        |   |                        |  |  |  |
| 3UA52                                  | 11.3   | 30/130 00 23  | 23  |   |                        |  |  |  |
| 1<br>1.25<br>1.6                       | - 1.6<br>- 2<br>- 2.5  | 3UA52 00-1A<br>3UA52 00-1B<br>3UA52 00-1C   | 6<br>6<br>6                                       |   |                        |  |  |  |
| 2                                      | - 3.2<br>- 4<br>- 5  | 3UA52 00-1D<br>3UA52 00-1E<br>3UA52 00-1F   | 10<br>10<br>16                                    | With  |                        |  |  |  |
| 5                                      | - 6.3<br>- 8<br>- 10   | 3UA52 00-1G<br>3UA52 00-1H<br>3UA52 00-1J   | 16<br>20<br>25                                    | Contactor<br>3TF32/33                                 | 1                      |  |  |  |
| 10<br>12.5                             | - 12.5<br>- 16<br>- 20<br>- 25                                       | 3UA52 00-1K<br>3UA52 00-2A<br>3UA52 00-2B<br>3UA52 00-2C  | 25<br>32<br>50<br>50                              |   |                        |  |  |  |
| 3UA55                                  |  |   |   |   |                        |  |  |  |
| 10<br>12.5<br>16                       | - 16<br>- 20<br>- 25   | 3UA55 00-2A<br>3UA55 00-2B<br>3UA55 00-2C   | 32<br>50<br>50                                    | With  |                        |  |  |  |
| 32                                     | - 32<br>- 36<br>- 40<br>- 45   | 3UA55 00-2D<br>3UA55 00-2Q<br>3UA55 00-2R<br>3UA55 00-8M  | 80<br>80<br>80<br>80                              | Contactor<br>3TF34/35                                 | 1                      |  |  |  |
| 3UA58                                  |  |   |   |   |                        |  |  |  |
| 20<br>25<br>32<br>40<br>50<br>57<br>63 | - 25<br>- 32<br>- 40<br>- 50<br>- 57<br>- 63<br>- 70<br>- 80<br>- 95 | 3UA58 00-2CZ1<br>3UA58 00-2DZ1<br>3UA58 00-2EZ1<br>3UA58 00-2FZ1<br>3UA58 00-2TZ1<br>3UA58 00-2PZ1<br>3UA58 00-2VZ1<br>3UA58 00-2UZ1<br>3UA58 00-8YZ1 | 50<br>63<br>80<br>100<br>100<br>125<br>125<br>160 | With<br>Contactor<br>3TF46<br>3TF47<br>3TF48<br>3TF49 | 1                      |  |  |  |
| 20<br>25<br>32<br>40<br>50             | - 25<br>- 32<br>- 40<br>- 50<br>- 57<br>- 63<br>- 70<br>- 80         | 3UA58 00-2CZ2<br>3UA58 00-2DZ2<br>3UA58 00-2EZ2<br>3UA58 00-2FZ2<br>3UA58 00-2TZ2<br>3UA58 00-2PZ2<br>3UA58 00-2VZ2<br>3UA58 00-2UZ2                  | 50<br>63<br>80<br>100<br>100<br>125<br>125        | With<br>Contactor<br>3TF47 7                          |                        |  |  |  |

| Setting range<br>(A) |                                       | Type reference                | Backup<br>HRC fuse<br>3NA A<br>(max)                                    | Mounting                        | Std.<br>pkg.<br>(nos.)     |   |  |  |  |
|----------------------|---------------------------------------|-------------------------------|---|---------------------------------|----------------------------|---|--|--|--|
| 3UA58 30             |                                       |                               |   |                                 |                            |   |  |  |  |
| , 0                  |                                       | 95<br>05<br>20                | 3UA58 30-5B<br>3UA58 30-5C<br>3UA58 30-5D                               | 160<br>160<br>200               | With<br>Contactor<br>3TF50 | 1 |  |  |  |
| 3UA62 30             |                                       |                               |   |                                 |                            |   |  |  |  |
| 113                  | - 1<br>- 2<br>- 3                     | 35<br>80<br>250<br>320<br>100 | 3UA62 30-5A<br>3UA62 30-5B<br>3UA62 30-5C<br>3UA62 30-5D<br>3UA62 30-5E | 224<br>250<br>400<br>400<br>500 | Independent                | 1 |  |  |  |
| 3UA68 30             |                                       |                               |   |                                 |                            |   |  |  |  |
| 320<br>400           | _                                     | 500<br>530                    | 3UA68 30-5F<br>3UA68 30-5G  | 500<br>630                      | Independent                | 1 |  |  |  |
| Long Mot             | Long Motor Starting time (Heavy duty) |                               |   |                                 |                            |   |  |  |  |
| 3UC50 30             |                                       |                               |   |                                 |                            |   |  |  |  |
| 4                    | -<br>-<br>-                           | 4<br>6.3<br>10<br>12.5        | 3UC50 30-5E<br>3UC50 30-5G<br>3UC50 30-5J<br>3UC50 30-5K                | 16<br>25<br>25<br>32            | Independent                | 1 |  |  |  |
| 3UC58 30             |                                       |                               |   |                                 |                            |   |  |  |  |
| 10<br>16<br>25<br>40 | -<br>-<br>-                           | 16<br>25<br>40<br>63          | 3UC58 30-5A<br>3UC58 30-5C<br>3UC58 30-5E<br>3UC58 30-5G                | 32<br>63<br>100<br>125          | Independent                | 1 |  |  |  |
| 3UC62 30             |                                       |                               |   |                                 |                            |   |  |  |  |
| 63<br>100            |                                       | 00<br>60                      | 3UC62 30-5J<br>3UC62 30-5A  | 250<br>315                      | Independent                | 1 |  |  |  |
| 3UC66 30             |                                       |                               |   |                                 |                            |   |  |  |  |
| 125<br>160<br>250    | - 2                                   | 200<br>250<br>100             | 3UC66 30-5B<br>3UC66 30-5C<br>3UC66 30-5E                               | 500<br>630<br>630               | Independent                | 1 |  |  |  |



## **Technical Data**

| Туре                                    |          | 3UA50                        | 3UA52                  | 3UA55                  | 3UA58                        | 3UA5830             | 3UA6230               | 3UA6830    | 3UC5030  | 3UC5830    | 3UC6230    | 3UC6630                   |
|---|----------|------------------------------|------------------------|------------------------|------------------------------|---------------------|-----------------------|------------|----------|------------|------------|---------------------------|
| Trip class                              |          | 30/130                       | 30/132                 | 30/133                 | 10A                          | 30/13030            | 30/10230              | 30710030   | 3003030  |            | 80         | 300000                    |
| Phase failure                           |          | ✓                            | ✓                      | ✓                      | √ ·                          | <b>√</b>            | ✓                     | ✓          | <b>√</b> | ✓ ×        | √          | ✓                         |
| protection                              |          | ŕ                            |                        | ŕ                      | ·                            |                     | ŕ                     |            |          |            |            | ,                         |
| Changeover to auto-reset at site        |          | ✓                            | ✓                      | ✓                      | <b>√</b>                     | <b>√</b>            | ✓                     | ✓          | ✓        | ✓          | ✓          | ✓                         |
| RESET button<br>(trip-free) <b>Blue</b> |          | ✓                            | ✓                      | ✓                      | ✓                            | ✓                   | ✓                     | ✓          | ✓        | ✓          | ✓          | ✓                         |
| Ambient<br>temperature<br>compensation  |          | ✓                            | ✓                      | ✓                      | ✓                            | ✓                   | ✓                     | ✓          | ✓        | ✓          | ✓          | ✓                         |
| Trip indicator  Green                   |          | ✓                            | ✓                      | ✓                      | ✓                            | ✓                   | ✓                     | ✓          | ✓        | ✓          | ✓          | ✓                         |
| TEST button Red                         |          | ✓                            | ✓                      | <b>√</b>               | <b>√</b>                     | <b>√</b>            | ✓                     | ✓          | ✓        | ✓          | ✓          | ✓                         |
| Terminal for contactor coil             |          | ✓                            | ✓                      | ✓                      | Х                            | Х                   | Х                     | Х          | X        | X          | Х          | Х                         |
| Permissible service temperature         |          | -25°C to +5                  | 5°C                    |                        |                              |                     |                       |            |          |            |            |                           |
| Mounting                                |          | Contactor/<br>3TF30/31       | Contactor/<br>3TF32/33 | Contactor/<br>3TF34/35 | Contactor/<br>3TF46 to<br>49 | Contactor/<br>3TF50 | Independe             | nt         |          |            |            |                           |
| Main Circuit                            |          |                              |                        |                        |                              |                     |                       |            |          |            |            |                           |
| Rated current                           | Α        | 14.5                         | 25                     | 45                     | 95                           | 120                 | 400                   | 630        | 12.5     | 63         | 160        | 400                       |
| (Max)<br>Rated insulation               | V        | 690                          | 690                    | 690                    | 1000                         | 1000                | 1000                  | 1000       | 1000     | 1000       | 1000       | 1000                      |
| voltage <i>Ui</i> (Pollution degree 3)  | •        | 030                          | 050                    | 050                    | 1000                         | 1000                | 1000                  | 1000       | 1000     | 1000       | 1000       | 1000                      |
| Rated impulse<br>withstand <i>Uimp</i>  | kV       | 6                            | 6                      | 6                      | 8                            | 8                   | 8                     | 8          | 8        | 8          | 8          | 8                         |
| Heating                                 |          | Direct                       | Direct                 | Direct                 | Direct                       | Direct              | Indirect              | Indirect   | Indirect | Indirect   | Indirect   | Indirect                  |
| Conductor cross-se                      | ction    |                              |                        |                        |                              |                     |                       |            |          |            |            |                           |
| Solid or stranded                       | sqmm     | 2.5 to 6                     | 2.5 to 6               | 1.5 to 25              | 2.5 to 35                    | 35 to 70            | 50 to<br>120/<br>240* | 2 x 240    | 1 to 4   | _          | _          | -                         |
| Finely stranded with end sleeve         | sqmm     | 1.5 to 4                     | 1.5 to 4               | 1 to 16                | 1.5 to 25                    | -                   | -                     | -          | 1 to 2.5 | 35         | 120        | 240                       |
| Multi-conductors<br>with cable lugs     | sqmm     | -                            | _                      | _                      | _                            | _                   | 50 to<br>120/<br>240* | 2 x 240    | _        | -          | _          | -                         |
| Flats                                   | sqmm     | -                            | _                      | -                      | _                            | -                   | 1 x 20 x 3            | 2 x 30 x 5 | _        | 1 x 15 x 3 | 1 x 20 x 5 | 2 x 30 x 5<br>2 x 3- x 5* |
| Terminal screw                          |          | M4                           | M4                     | M5                     | M5                           | M8                  | M10                   | M10        | M4       | M6         | M8         | M10                       |
| Power loss per<br>pole (max)            |          |                              |                        |                        |                              |                     |                       |            |          |            |            |                           |
| Minimum setting                         | W(VA)    | 0.9                          | 0.9                    | 1.2                    | 2.6                          | 2.8                 | 5                     | 6(9)       | 2.5      | 2.5        | 3.5        | 5.5                       |
| Maximum setting                         | W(VA)    | 2.25                         | 2.25                   | 3                      | 4                            | 4                   | 7                     | 15(22)     | 6.5      | 6.5        | 9          | 14                        |
| Auxiliary Circuit (ap                   | plicatio | n for all type               | es)                    |                        |                              |                     |                       |            |          |            |            |                           |
| Auxiliary contacts Rated thermal        | А        | 1NO + 1NC (Potential free) 6 |                        |                        |                              |                     |                       |            |          |            |            |                           |
| current Ith<br>Short circuit            | Α        | 6 (HRC Fuse type 3NA7)       |                        |                        |                              |                     |                       |            |          |            |            |                           |
| protection (max) Switching AC15         | V        | 24 60 125 230 415 500        |                        |                        |                              |                     |                       |            |          |            |            |                           |
| capacity                                | Α        |                              | .5 1.2                 |                        |                              | 1                   |                       |            |          |            |            |                           |
| DC13                                    | V        | 24 60<br>1 0                 | 110<br>0.4 0.2         | 220<br>22 0.1          |                              |                     |                       |            |          |            |            |                           |
| Conductor cross-                        | Α        | 1 0                          | . <del></del> U.2      | 0.1                    |                              |                     |                       |            |          |            |            |                           |
| section                                 |          |                              |                        |                        |                              |                     |                       |            |          |            |            |                           |
| Solid or stranded                       | sqmm     | 2 x (1 to 2.                 | 5)                     |                        |                              |                     |                       |            |          |            |            |                           |
| Finely started with end sleeve          | sqmm     | 2 x (0.75 to 1.5)            |                        |                        |                              |                     |                       |            |          |            |            |                           |
| Terminal screw                          |          | M3.5                         |                        |                        |                              |                     |                       |            |          |            |            |                           |

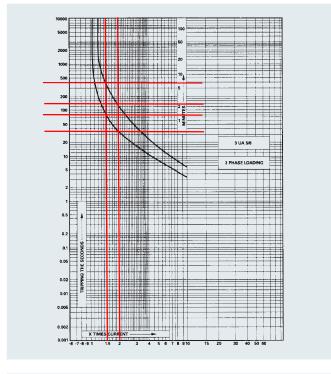
<sup>\*</sup> For relay above 180 A

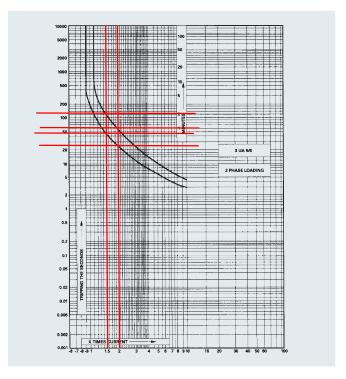
## **Characteristic Curves**

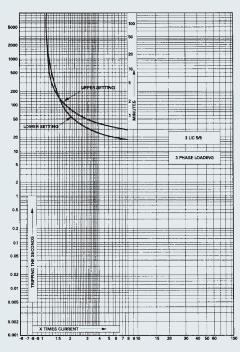
#### **Tripping characteristics**

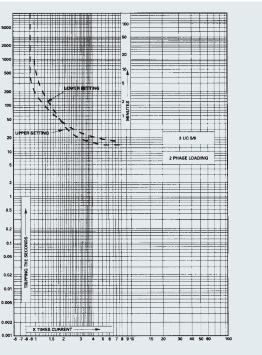
The current/time curves show the relationship between the tripping time from cold state and multiples of the set current le. When the relay is at operating temperature and carrying 100 % le, the tripping times are reduced to approximately 25 %. Tripping curve is applicable to 3-pole loads and 2-pole loads. For single-pole loads, the tripping curves lie between curves of 3-pole loads and 2-pole loads.

For normal operation, all 3 bimetallic strips of the overload relay must be heated. The overload relays 3UA / C are suitable for protecting motors with phase control. For protecting single-phase or DC-loads, therefore, all three main conducting paths must be connected in series. Tripping curve for 3 pole loads is then applicable. The release current with a 3-pole symmetrical load is between 105 % and 120 % of the set current.









The above curves are the general characteristics curves; for individual characteristics curves of each rating, please contact our nearest sales office.

## Accessories and ordering data

- 1. **Adaptor:** To convert contactor mounting relay to independent mounting, (Fig. 1) suitable for screw type mounting and 35 mm DIN rail mounting.
- 2. **Protective cover\*:** To avoid tampering of the setting, auto manual mode or test button. (Fig. 2)
- 3. **Reset cord\*:** To reset the relay in switchboard with door closed. (Length: 600 mm) (Fig. 3)
- 4. **Reset plunger with funnel\*:** Instead of reset cord for resetting the relay in switchboard with door closed. (Fig. 4)



Fig. 1: Adaptor



Fig. 1: Relay with adaptor for independent mounting

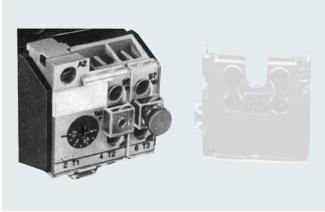


Fig. 2: Protective cover



Fig. 3: Reset cord with holder

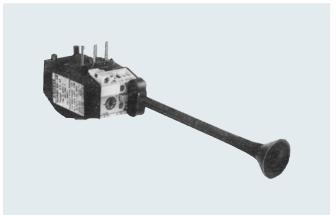


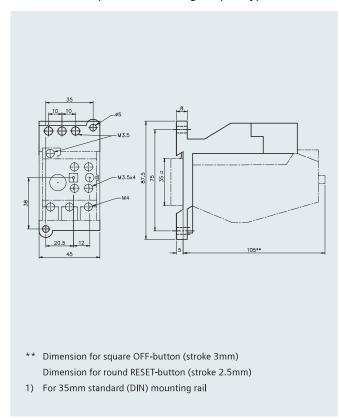
Fig. 4: Reset plunger + Funnel

| Description                                      | Type reference   | Relay type   | Std. pkg.<br>(nos.) |  |
|--|--|--|---------------------|--|
| Reset Plunger                                    | 3UX1 011   | 3UA5/6, 3UC5/6                                     | 10                  |  |
| Funnel   | 3UX1 013   |  |                     |  |
| Reset cord with<br>Holder (600mm)                | 3UX1 016   | 3UA5/6, 3UC5/6                                     | 5                   |  |
| Protection Cover                                 | 3UX1 111 - 1YA<br>3UX1 110 - 1YA                               | 3UA5/6<br>3UA58/5830                               | 10                  |  |
| Adaptor to convert<br>to independent<br>mounting | 3UX1 418<br>3UX1 420<br>3UX1 425<br>3UX1 421<br>3UX1 421 - 0XA | 3UA50<br>3UA52<br>3UA55<br>3UA58<br>3UA5830        | 1                   |  |
| Set of terminals to convert relay type           | 3UX58 11   | 3UA5800-2 or to<br>3UA5800-2 Z2 to<br>3UA5800-2 Z1 | 10                  |  |
|  | 3UX58 12   | 3UA5800-2 Z1 or<br>3UA5800-2 Z2 to<br>3UA5800-2    |                     |  |
|  | 3UX58 13   | 3UA5800-2 or<br>3UA5800-2 Z1 to<br>3UA5800-2 Z2    |                     |  |

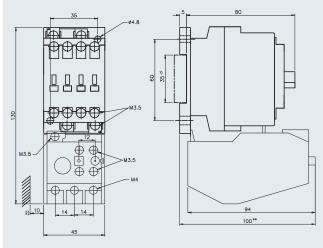
<sup>\*</sup> Only one accessory at the time

## **Dimensional Drawing**

## 3UA50 with independent Mounting Adapter Type 3UX1 418



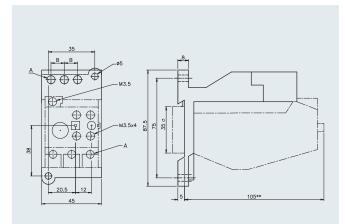
## 3UA50 mounted on 3TF30/31



| Auxiliary Contact         | a   | b   | С   | d  |
|---------------------------|-----|-----|-----|----|
| 1NO or 1NC                | 125 | 85  | 108 | 55 |
| 1NO + 1NC or<br>2NO + 2NC | 130 | 100 | 100 | 60 |

- \*\* Dimension for square OFF-button (stroke 3mm)
  Dimension for round RESET-button (stroke 2.5mm)
- 1) For 35mm standard (DIN) mounting rail
- 2) Minimum clearance from earthed components

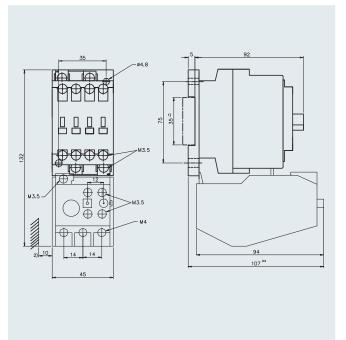
## 3UA52/55 with independent mounting



| T. ma           | Dim |      |  |  |
|-----------------|-----|------|--|--|
| Туре            | а   | b    |  |  |
| 3UA52 + 3UX1420 | M4  | 14.3 |  |  |
| 3UA55 + 3UX1425 | M5  | 18.2 |  |  |

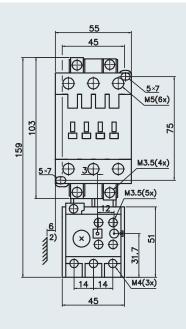
- \*\* Dimension for square OFF-button (stroke 3mm)
  Dimension for round RESET-button (stroke 2.5mm)
- 1) For 35mm standard (DIN) mounting rail

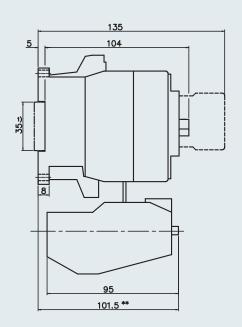
## 3UA52 mounted on 3TF 32/33



- \*\* Dimension for square OFF-button (stroke 3mm)
  Dimension for round RESET-button (stroke 2.5mm)
- 1) For 35mm standard (DIN) mounting rail
- 2) Minimum clearance from earthed components

## 3UA55 mounted on 3TF 34/35

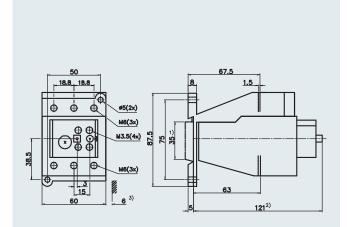




#### Notes:

- 1) For 35 mm standard (DIN) mounting rail
- 2) Minimum clearance from Earthed components
- \*\* Dimension for Square OFF-button (Stroke 3 mm)
  Dimension for round RESET-button (Stroke 2.5)

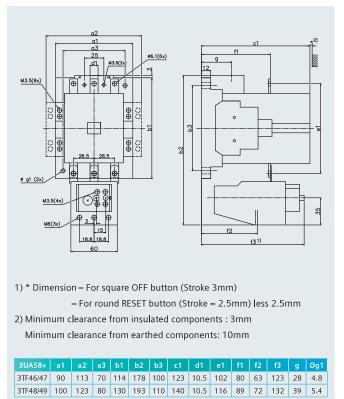
# 3UA58 with independent mounting adaptor type 3UX1 421



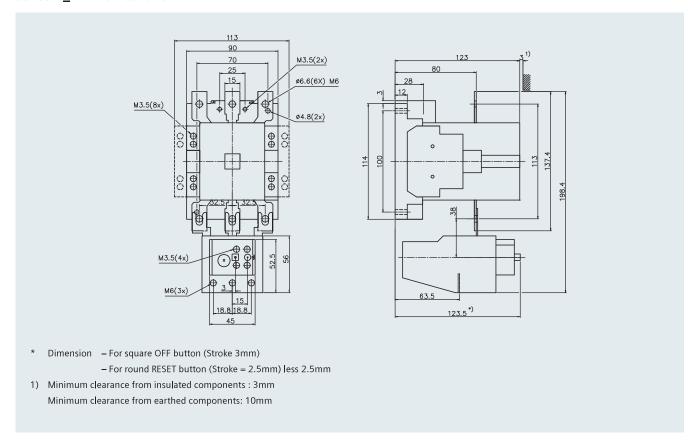
#### Notes:

- 1) For 35 mm standard (DIN) mounting rail
- 2) Dimension for Square OFF-button (Stroke 3 mm) Dimension for round RESET-button (Stroke 2.5 )
- 3) Minimum clearance from the Earthed componenets

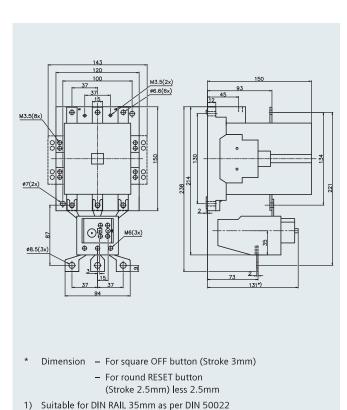
## 3UA5800 mounted on 3TF46/47 3UA5800\_.. Z1 mounted on 3TF48/49



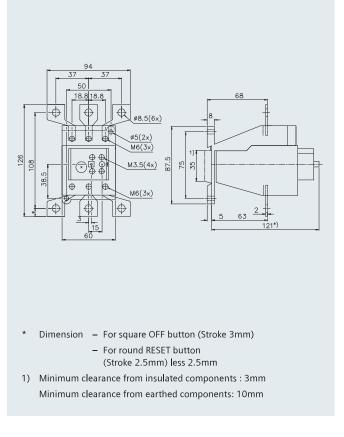
## 3UA5800\_.. Z2 mounted on 3TF47 7



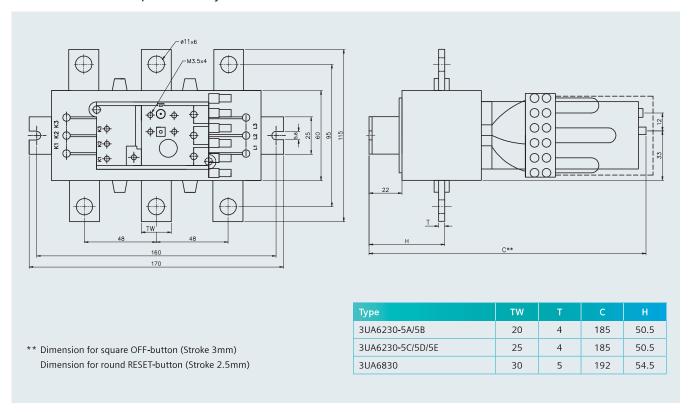
## 3UA5830 mounting on 3TF50



# 3UA5830 with individual mounting adaptor type 3UX1 421 - OXA



## 3UA6230 / 3UA6830 CT operated Birelay



## 3UC5030/ 3UC5830/ 3UC6230 / 3UC6630 CT operated Birelay

