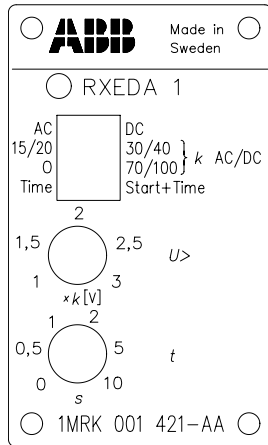


Version 1
 November 1997

Ordering number : 1MRK 001 421-AA
 Operate voltage setting ranges : 20 - 300 V DC and 15 - 210 V AC 15 - 400 Hz
 Time delay setting range : 0 - 10 s.

CONNECTION AND SETTING GUIDE



Indicator:

A red light emitting diode (LED) indicating operation of the time delayed function

Programming switch:

4-pole programming switch (S1) for selection of

- AC or DC voltage measuring
- scale constant k ; 15, 30 or 70 V AC or 20, 40 or 100 V DC
- output function; Time or Start + Time

U> : Potentiometer P1 for setting of operate voltage; (1 - 3) x k

t : Potentiometer P2 for setting of the delay time of the time function; 0 - 10 s.

(1MRK000117-105)

Fig. 1 Front layout

CONNECTION:

The RXEDA relay requires **no auxiliary voltage supply.**

The measured voltage shall be connected to the following terminals :

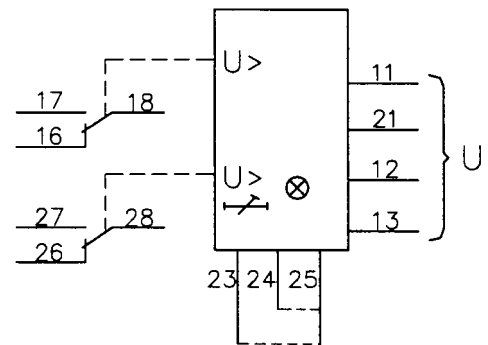
Measuring:	Terminals
DC	11 - 21
AC single phase	11 - 21
AC two-phase	11 - 21
AC three-phase without neutral	11 - 21 - 12
AC three-phase with neutral	11 - 21 - 12 - 13 (neutral)

Observe that terminal 25 always must be connected to terminal 23 or 24, as indicated in the terminal diagram. A suitable short wire having two 10 A COMBIFLEX sockets is delivered together with the relay. This wire shall be connected to the rear of the relay terminal base.

With the relay connected to three phases without neutral it measures phase to phase voltage, and with the relay connected to three phases with neutral it measures phase to neutral voltage.

The **relay operates** when the applied voltage (one or more at three-phase) exceeds the set operate voltage.

The **relay resets** when the applied voltage (all three at three-phase) decreases to a value 1 to 3 % below set operate voltage.



Connect 24-25 at DC and AC 1Ø, 2Ø and 3Ø
 Connect 23-25 at AC 3Ø +N

Fig. 2 Terminal diagram

(97000117)

SETTINGS:

All settings can be changed while the relay is in normal service.

1. Setting of the scale constant k.

Set the relay for AC or DC measuring by switch S1:1.

Set the wanted scale constant k by switches S:2 and S:3.

The selected constant is equal to the highest set value, e.g. for DC voltage and $k = 100$ the switch S3 shall be in position "70/100" while S:2 can be in any position.

2. Setting of the output function.

When switch S:4 is set in position "Time" and the applied voltage exceeds the set operate voltage, both the output contacts switch to the operate condition after set time delay.

When switch S:4 is set in position "Start + Time" and the applied voltage exceeds the set operate voltage, the output contact 16-17-18 switches to the operate condition immediately (Start function) and the other contact (26-27-28) switches after set delayed time (Time function).

3. Setting of operate voltage $U>$.

The operate voltage $U>$ is set by the potentiometer P1. The setting range is $(1 - 3) \times$ set scale constant k, i.e. 20 - 300 V DC or 15 - 210 V AC.

4. Setting of time delay.

The time delay of the Time function is set by the potentiometer P2. The setting range is 0 - 10 s.

INDICATION:

The relay has one red LED in the front. The LED lights when the "Time function" of the relay is in operate mode. The LED is switched off when the relay resets.

ESD:

The relay contains electronic components which can be damaged if they are exposed to static electricity. Always avoid to touch the circuit board when the relay cover is removed during the setting procedure.