HAMIAN FAN (HF Co.)

TYPE HRUV 11/HROV 12
DEFINTE TIME DELAYED
VOLTAGE RELAYS

Application

This kind of relay provides definite time voltage protection with a choice of three versions.
The HRUV 11 and HROV12 provide definite time under voltage protection respectively and can be employed for the protection of plant and feeder systems.
An application of the HRUV11 includes the protection of induction motors against the restoration of supply following the loss or server reduction in power supply.
The HROV 12 can be used for protection of synchronous motors and motors driving high inertia loads.
The relay has been designed to operate over a wide frequency range. It can be used for the protection of hydro generators against over speed.

Settings

There are dip switch for adjustment of voltage setting, and also for selection of the time delay.

HRUV	HROV
$0.50U_n$	$1.00U_n$
$0.60U_n$	$1.05U_n$
$0.65U_n$	$1.10U_n$
$0.70U_n$	$1.15U_n$
$0.75U_n$	$1.20U_n$
$0.80U_n$	$1.25U_n$

HRUV	HROV
$0.85U_n$	$1.30U_n$
$0.90U_n$	$1.35U_n$
$0.95U_n$	$1.40U_n$
$1.00U_n$	$1.45U_n$
$1.10U_n$	$1.50U_n$

Time delay

Setting from zero sec. Until 16.5 sec. In step of 100msec.

Technical data

TYPE HRUV 11/HROV 12
DEFINTE TIME DELAYED
VOLTAGE RELAYS

Ratings

Voltage rating (Vn)	100 or 110V
Rated frequency	50 Hz

Time delay range 0 – 16.5 in steps of 100 msec

Auxiliary Voltage

Vx ac/dc	operative range
110/125V	87.5 – 137.5V

Rated frequency Fn 50 Hz

Reset Voltage Relay resets at greater than

Reset time 95% of operating current

Burdens less than 25ms

Auxiliary	Vx ac/dc
Supply circuit	110/127V 40mA nominal

Note : Auxiliary supply burdens are given for quiescent conditions when the output relay is not operated . The output relay draws approximately 35mA.

Indication A non volatile led trip indicator is used.

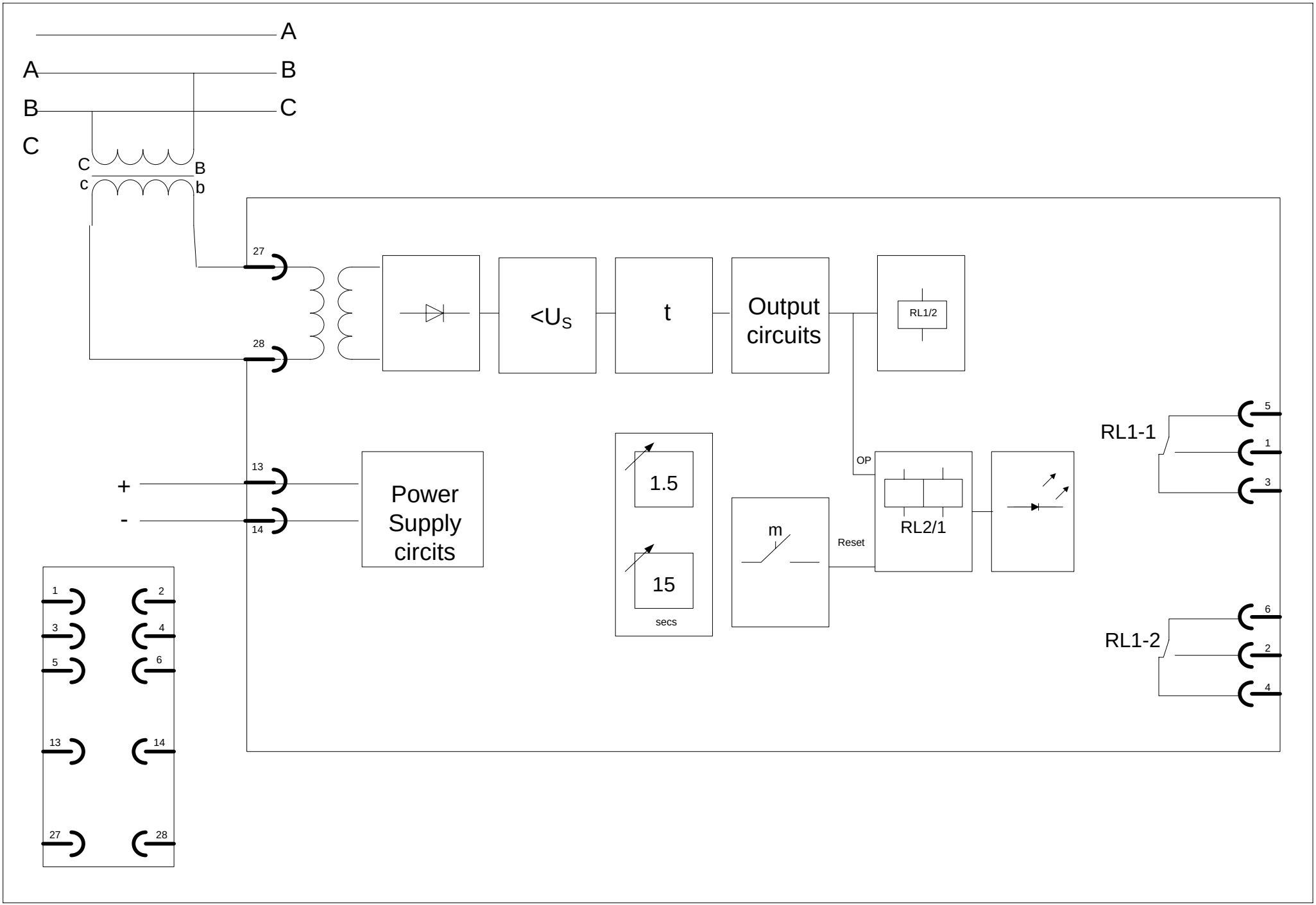


Fig1:definite time delayed under voltage relay-TYPE HRUV11

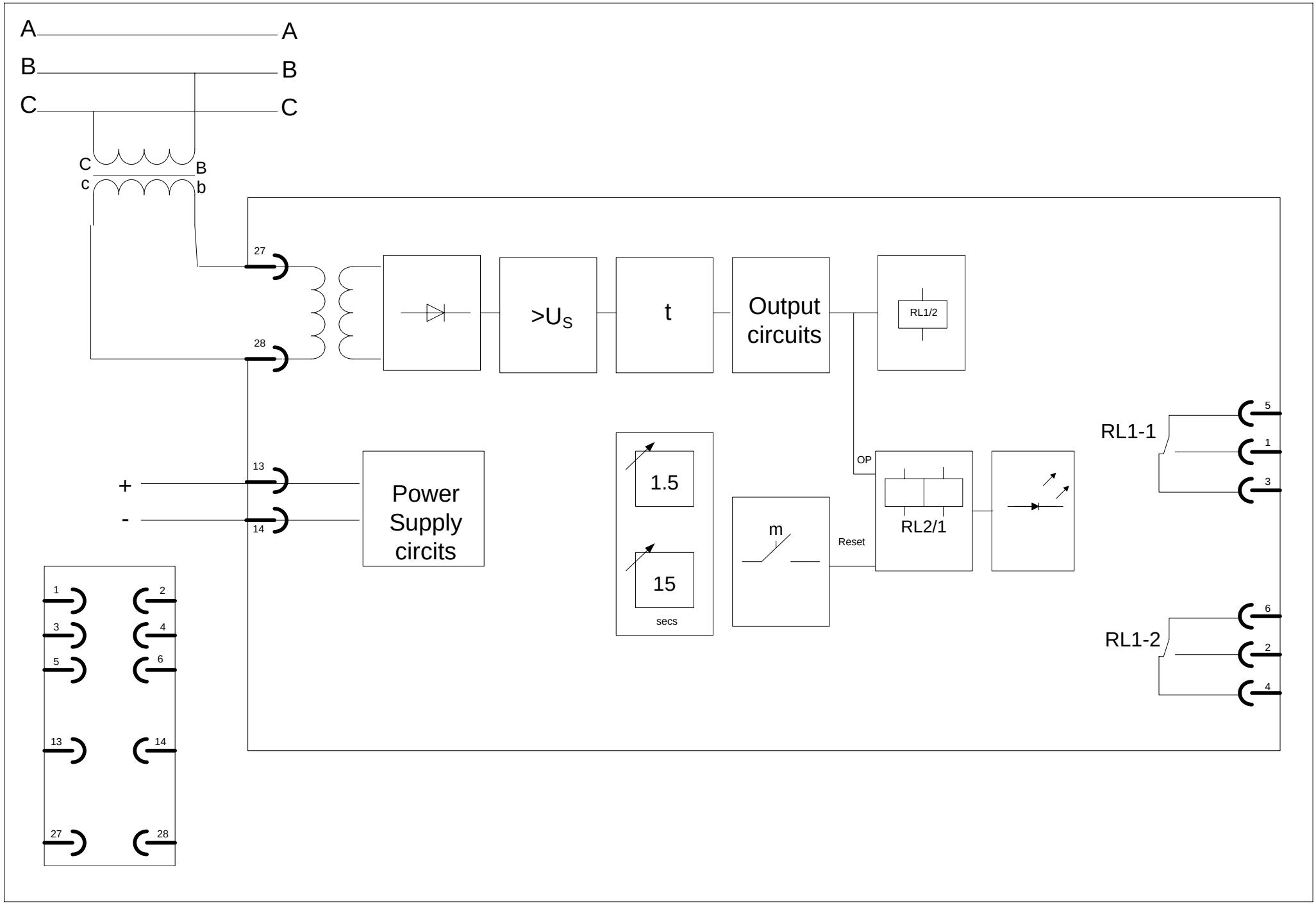
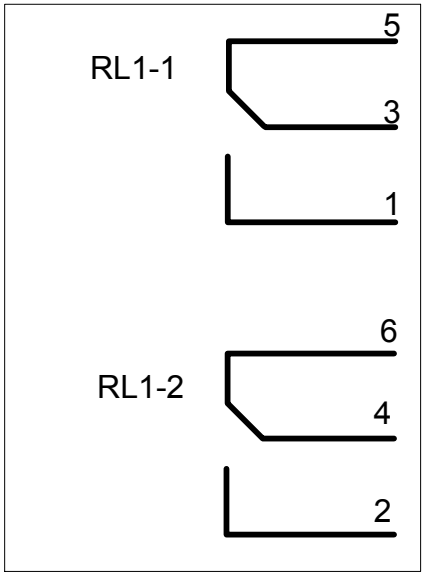
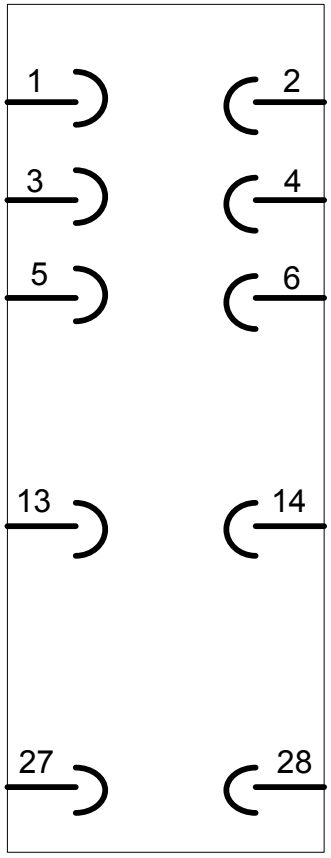


Fig1:definite time delayed over voltage relay-TYPE HROV12



نقشه سیم بندی رله های فزایش و کاهش ولتاژ



نقشه ترمینال پشت رله

ترمینالهای13 و 14 تغذیه 10V می باشد
ترمینالهای27 و 28 ورودی مدار می باشد
ترمینالهای(5 و3و1) و(6و4و2)کنتاکتهای رله می باشند