



ul. Konstytucyjna 79/81  
95-200 Pabianice  
tel/fax 48 42 2270971 POLAND  
e-mail: fif@fif.com.pl

## CP-710 VOLTAGE RELAYS one-phase type

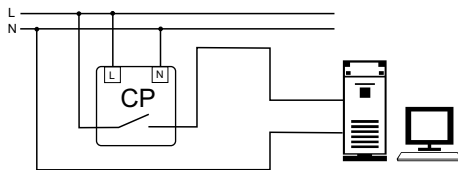


www.fif.com.pl

F&F products are covered by an 24 months warranty from date of purchase

### PURPOSE

Voltage relays CP-710 serves to voltage control in single phase mains and to protect receiver against the effects of voltage collapse or increase beyond set values.



### ASSEMBLY

1. Take OFF the power.
2. Put on the relay on the rail in the switchgear box.
3. Connect power cables to joints 1-3 with marks.
4. In power installation of care receiver connect joint 7-10 in line.
5. Set to voltage thresholds U1 and U2.

### TECHNICAL DATA

supply	50÷450V AC
current load	<16A
joint	1P
sygnalling of supply	4×LED
voltage activation treshold	
lower U1	150÷210V
upper U2	230÷260V
hystereisis	
for U1	5V
for U2	5V
activation time	
for U1	0,5sec
for U2	0,1sec
recovery time	
for U1	1,5sec
for U2	1,5sec
power consumption	0,8W
working temperature	-25÷50°C
connection	screw terminals 2,5mm <sup>2</sup>
dimensions	1 module (18mm)
fixing	on rail TH-35

### FUNCTIONING

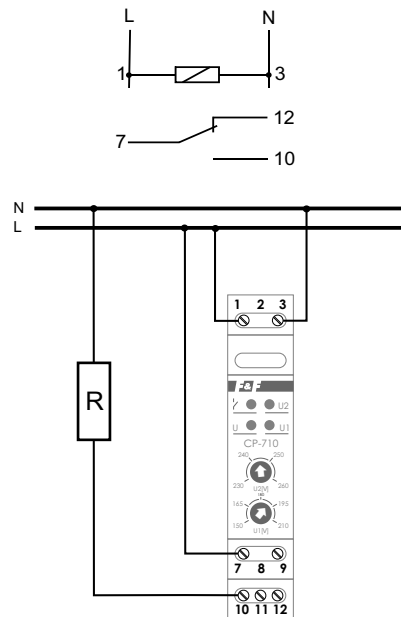
Lower voltage value (U1) and upper voltage value (U2) are set by means of potentiometers. It is so-called eye of voltage, in limits of which can occur changes of phases voltages that do not cause activation of relay. Supplied a relay is signalized by shine of green LED. Correct value of voltage is signalized by shine of yellow LED. (position of joint 7-10). Change of phase voltage on one of phases above or below set voltage tresholds will cause activation of relay (switch joints to position 7-12). Decrease of voltage below establish value U1 is signalized by shine of LED red (U1). Increase of voltage below establish value U2 is signalized by shine of LED red (U2). Reactivation follows automatically return of correct voltage value.

The relay can be supplied with a voltage up to 450V~. This ensures the effective protection of the receiver even in case of a voltage increase beyond allowable standards. Also, in case of supply polarity exchange or when "zero" is switched off (for three-phase types) the relay will not be destroyed ("burned").

### ATTENTION!

Because of unstable voltage in mains and frequent changes of supply voltage beyond the set thresholds of "eye of voltage" (at least 10 times per 1minute), relay blocks itself for 10 minutes (joint stay at position 7-12). This prevents against too frequent, cyclic switching-ON and OFF of the connected receiver. Condition of blockade is signalized by shine of yellow LED.

### WIRING DIAGRAM



A090504