



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

## CZF-331 PHASE CONTROL RELAYS three phase monitors



www.fif.com.pl

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

### PURPOSE

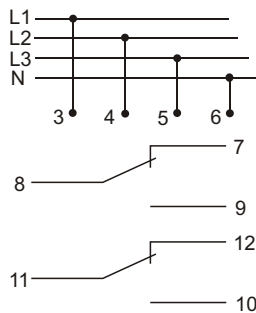
Three phase monitors serve to protect the three-phase electric motors supplied from three-phase mains, against phase collapse in at least one phase or against phase-to-phase voltage asymmetry, threatening to damage the motor.



### ATTENTION!

Used a two switching joints of relay could to connect a new receiver or controlled system and LED or bell which will be inform about activation of relay i.e. switch OFF the motor.

### WIRING DIAGRAM



### FUNCTIONING

Supplied a receiver is signalized by shine of diode LED in at everyone phase. Phase collapse in at least one phase or voltage unbalance between phases above fixed actuation threshold causes switching-OFF the motor. The motor switching-OFF occurs with delay 4 sec, which prevents any accidental motor disconnecting at temporary voltage drop. The re-connection will occur automatically at voltage increase of 5V above activation voltage (i.e. of value of voltage hysteresis). At occurrence of these disturbances, it is not possible to set a motor in motion.

### ASSEMBLY

1. Check work of motor.
2. Take OFF the power.
3. Put on the relay on the rail in switchgear box.
4. Connect to installation with wiring diagram.

### TECHNICAL DATA

supply	3×400/230V+N
current load	2×(<8A)
joint	2C/O
sygnalling of supply	3×LED
activation voltage asymmetry	40÷55V~
activation voltage	175÷190V~
hysteresis	3÷5V~
switching OFF delay	0,2sec
power consumption	1,2W
working temperature	-25÷40°C
connection	screw terminals 2,5mm <sup>2</sup>
dimensions	3 modules (52,5mm)
fixing	on rail TH-35

