

# Voltage monitoring relay with current and power control

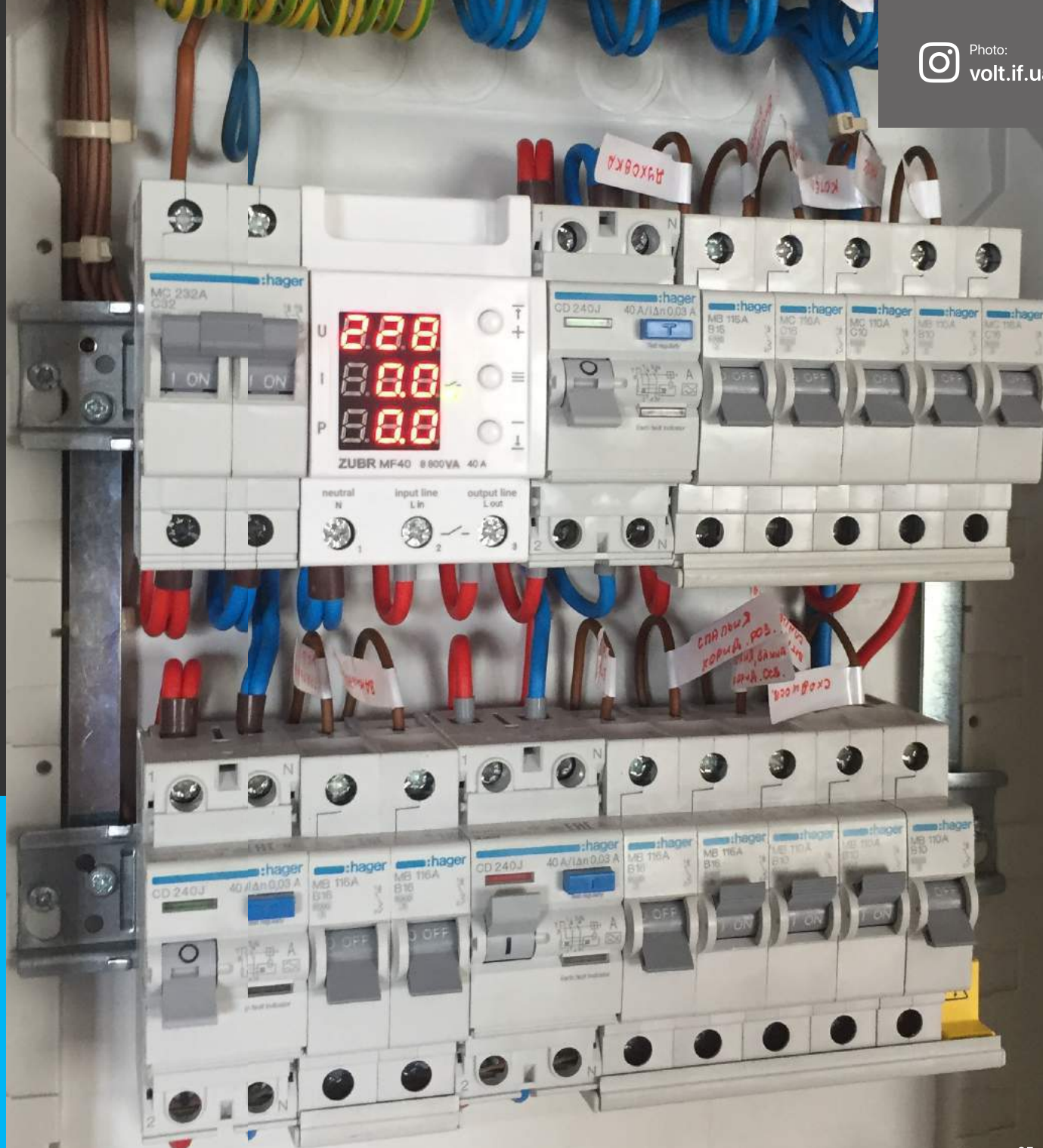
## Purpose:

ZUBR MF multifunctional relay is designed to protect the single phase electric network from unacceptable voltage deviations, as well as exceeding current consumption and active power.

With it, you can limit the active power consumption of connected equipment. The relay operates on the cutoff principle: if the set values are exceeded, it turns off the load. It is additionally equipped with thermal protection.



ZUBR MF



# Multifunctional relays with maximum functions

## Purpose:

To protect single-phase electrical equipment from high and low voltage, open circuit, and limits current or power consumption. In case of voltage deviations, ZUBR will turn off the load, and in case of excessive current or power, the load will be disconnected after a specified delay time.



## ZUBR MF2 red NEW

Rated load current:  
40, 50, 63 A

Housing width:  
2 modules

Protection:  
3 parameters: voltage, current  
and full power



## ZUBR CV2 red NEW

Rated load current:  
40, 50, 63 A

Housing width:  
2 modules

Protection:  
2 parameters: voltage and  
current or full power

ZUBR MF2 and ZUBR CV2 have the same functionality, except that MF2 provides protection in three parameters and ZUBR CV2 in two.

## Functional:

### Voltage protection

Protects the equipment from high and low voltage, as well as from zero break. When an emergency occurs, the voltage relay turns off the load, and when normalized, turns it back on. Load switch-off time at voltage reduction: not more than 0,04 sec (<120 V), 0,1-10,0 sec (>120 V).

### Current and power protection

It can be used to limit the full power consumption of the connected equipment. ZUBR CV2 can only protect one of two parameters: either current or full power.

### Alarm log for 100 values

A very useful feature. You will be aware of all cases when the ZUBR worked due to voltage, current or full power exceeding the established limits.

### Switch-on and -off load delay

Adjustable time before switching on the load after an accident. It is used to protect compressor equipment, such as refrigerators to increase the service life. If the current limit is exceeded, the relay turns off the power after the set time.

### Professional load switch-off model

You can activate a professional switch-off time delay model to reduce the number of outages of modern equipment that works stably under certain power voltage deviations. Thus, the use of ProModel allows you not to turn off the equipment in case of voltage deviations that are safe in size and duration.

### Protection from frequent operations in case of unstable network

Limits the number of repeated relay operations in a row to eliminate their detrimental effect on protected equipment. Without such protection, equipment sensitive to frequent operations, such as a refrigerator or air conditioner, can fail.

### High accuracy of voltage measurements with TrueRMS

TrueRMS reduces the effect of network interference on the accuracy of voltage measurement when the voltage shape is different from the sinusoid. Thanks to this algorithm, the relay will turn off the load before the voltage surge negatively affects the connected devices.

### Adjustable hysteresis by voltage

Hysteresis makes it possible to optimize the number of trips, making sure that the voltage has become more stable and less than the established limit.

### Overheating protection

The temperature sensor inside the case ensures safety and turns off the load if the temperature inside the case exceeds 80 °C.

### Correction of screen indications