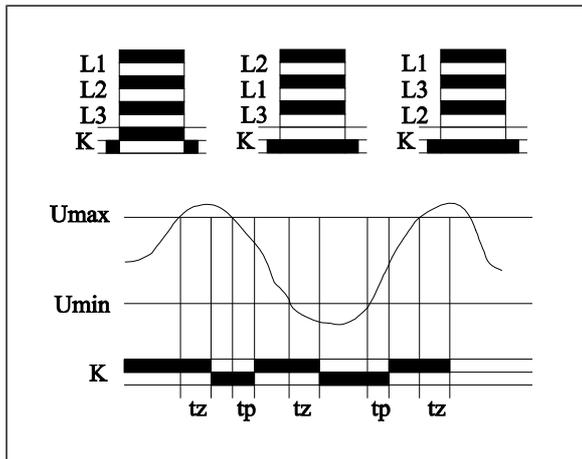


5. FUNCTION DIAGRAM

6. FUNCTION DESCRIPTION



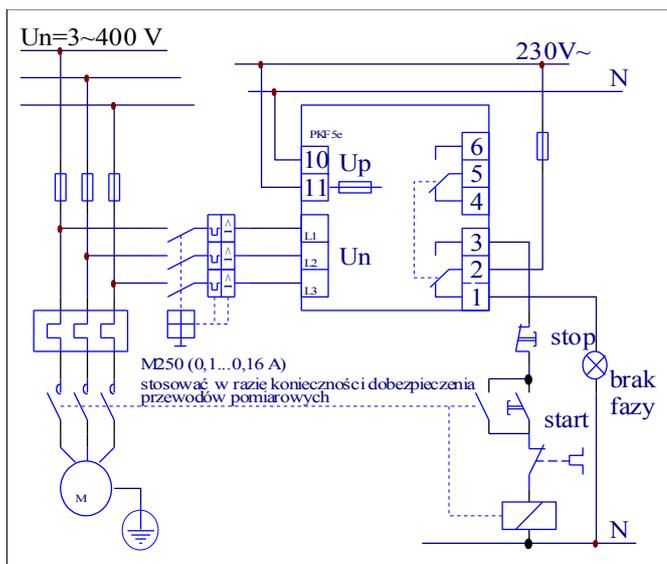
The relay is designed to control a three-phase system without a neutral conductor and is calibrated for wire voltages. With correct parameters of the measured voltage the voltage is in activation status (operative) – green LED lights up. When the sum of three phase voltages exceeds the **U_{max}** threshold (non-adjustable) or is below the set **U_{min}** threshold (calibrated for asymmetrical voltage drop on single phase), then appropriate red LED lights up. When this status lasts longer than the set activation time **t_z**, the executing relay returns to the resting position and the green LED goes out. Only when the sum of measured phase voltages returns to a value between the set thresholds (in a range decreased by the hysteresis value), the red LEDs go out, and after a period longer than the set return time **t_p** the executing relay returns to the operating position. Incorrect order of phases is signaled by \triangle **U_{min}** indicator lighting up (**t_z** and **t_p** times remain the same).

PKF5e relay measurement principle allows the detection of :

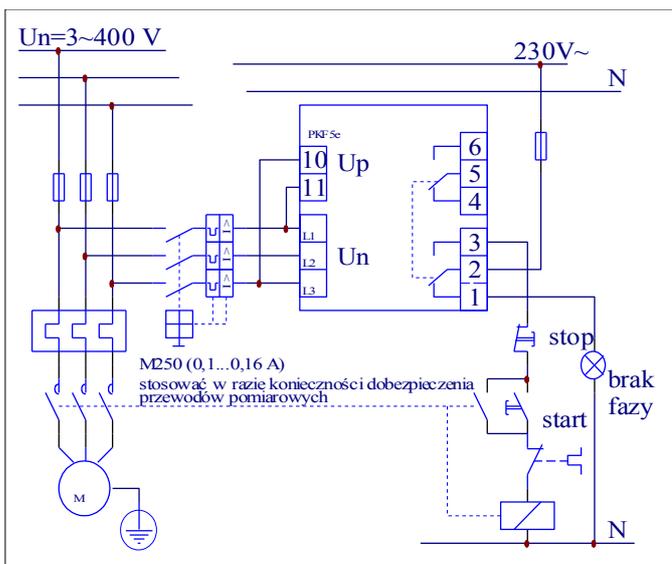
- Voltage asymmetry, i.e. when the voltage in one of the phases drops below the set **U_{min}** value
- Voltage asymmetry, i.e. when the voltage in two of the phases drops below the set $(U_n + U_{min})/2$ value
- Symmetrical voltage drop in three phases, i.e. when the voltage in three of the phases drops below the set $(2U_n + U_{min})/3$ value.

7. APPLICATION DIAGRAMS

For auxiliary voltage $U_p=230V$

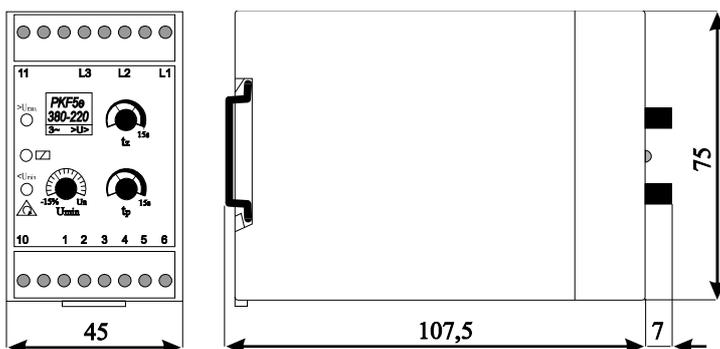


For auxiliary voltage $U_p=400V$



8. ASSEMBLY DRAWING

marzec 2017



PRZEDSIĘBIORSTWO USŁUGOWO-PRODUKCYJNE



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