

Control relays

PSR

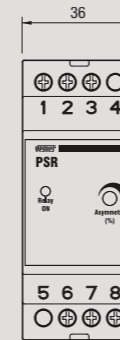
Relay detecting the exact sequence of the phases in three-phase systems and the unbalance of the voltages caused by the decrease or lack of a phase. This device is applied in all those cases in which it is indispensable to respect the phase sequence during the installation or prevent high oscillations of the power supply voltage in the network.



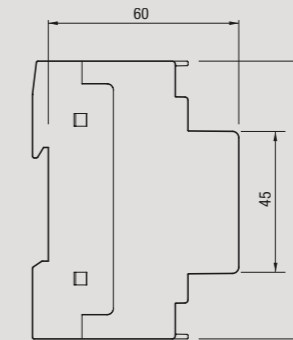
- The output relay energizes with a delay of 2 s only if all three phases are present and their sequence corresponds to the initials on the input terminals
- In operating status the output relay de-energizes if the sequence of the phases is altered, if one phase is missing or if the voltage balance between the phases goes below the set asymmetry threshold
- The sensitivity of the relay can be set between 70 % and 95 % of the nominal value
- The restoring by hysteresis is automatic after re-establishing the normal power supply conditions or after removing the sequence error
- Insulation: power supply and load circuits electrically insulated at double insulation level
- Container: grey colour RAL-7035
- Case material: self-extinguishing in class V0 according to the UL-94 standard

DIMENSIONS (mm)

Front view

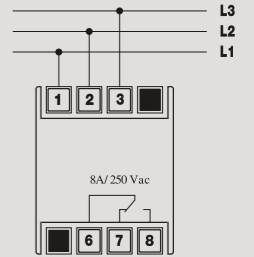


Side view



CONNECTION DIAGRAM

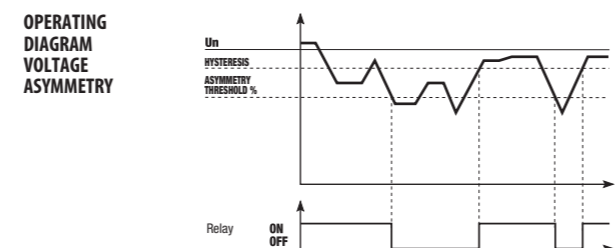
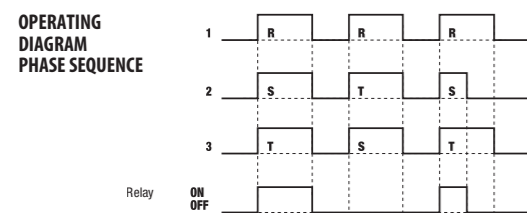
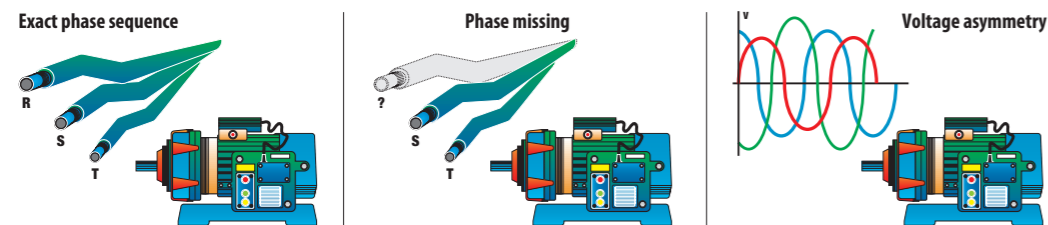
Diagram



MEASUREMENT AND CONTROL

TECHNICAL INFORMATION

PHASE MISSING, VOLTAGE ASYMMETRY, PHASE SEQUENCE CONTROL RELAY



Code	Model	Description	Dimensions
VP807200	PSR400	Phase control relay	2 DIN modules

GENERAL CHARACTERISTICS

Power supply	V AC	400 (-20 ÷ +10%)
Frequency	Hz	50
Absorption	VA (W)	4 (3)
Terminal blocks		6 mm ²
Container		2 DIN modules
Operating temperature	°C	0 ÷ +50
Storage temperature	°C	-10 ÷ +60
Humidity		20% ÷ 90% non condensing

Output			
Relay capacity with change-over contact	AT 250 V AC	A	8
maximum switchable voltage in AC		V	380
maximum switchable current in AC		A	10
maximum switchable power in AC		VA	2000

REFERENCE STANDARDS

Compliance with Community Directives: 2006/95/EC (Low Voltage) and 2004/108/EC (E.M.C.) is declared with reference to the following standards: • Safety: EN 61010-1 • E.M. Compatibility: EN 61000-6-2 / EN 61000-6-4