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PF-431 AUTOMATIC PHASE SWITCHES

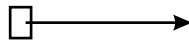


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PURPOSE

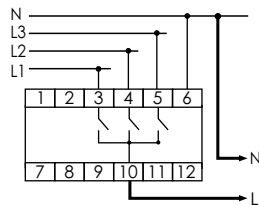
Automatic phase switches serve to maintain continuity of power supply to single-phase receivers in the event of power phase decay or a drop in its parameters below standard values.



TECHNICAL DATA

supply	3×400V+N
output	230V AC
current load	<16A
voltage activation threshold	
for L1 and L2 (lower/upper)	<195V/ >250V
for L3 (lower/upper)	<190V/ >250V
hysteresis	5V
switching time	0,5+0,8sec
sygnalling of supply	3×LED
working temperature	-25+50°C
connection	screw terminals 2,5mm ²
dimensions	3 modules (52,5mm)
fixing	on rail TH-35

WIRING DIAGRAM



FUNCTIONING

Three-phase voltage (3x230V+N) is supplied to the input of the switch. Single-phase voltage (230V AC), i.e. the phase voltage of one of the phases, is supplied to the output of the switch. The electronic system of the switch controls voltage values of the phases supplied in such a way as to ensure that output voltage is not lower than 195V. The phase that has correct parameters is directed to the output of the switch. The L1 phase is the priority phase, i.e. if its parameters are correct, this phase will be always switched to the output. If the voltage parameters of the L1 phase are not correct or if voltage decay occurs in this phase, the electronic system will switch the L2 phase to the output (provided that its parameters are correct). In case of a simultaneous lack of correct voltages in the L1 and L2 phases, the L3 phase will be switched to the output. When the correct supply voltage returns to the L1 phase (upper than 195V), the electronic system will switch this phase to the output.

ASSEMBLY

1. Take OFF the power.
2. Connect inputs voltage to joints 3,4,5, and neutral cable to joint 6. The phase with the event of power connect to joint 5, but the stablest phase to joint 3 as main.
3. Supplied one phase line connect to joint 12 (phase) and neutral cable (installation).
4. Take On the power and check continuity of power supply of connected one phase configuration by successive switch OFF the voltage from phases L1, next L2.

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