

ZAMEL Sp. z o.o.
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## zaMeL



## APPEARANCE



## MOUNTING

1. Disconnect power supply by the phase fuse, the circuit-breaker or the switch--disconnector combined to the proper circuit.
2. Check if there is no voltage on connection cables by means of a special measure equipment.
3. Mount the APM-20 device on the TH35 rail.
4. Connect the cables with the terminals in accordance with the installing diagram.
5. Switch on the power supply from the mains.
6. Check if the device operates correctly.

## CASING DIMENSIONS



The device is designed for single-phase installation and must be installed in accordance with standards valid in a particular country. Installation, connection and control should be carried out by a qualified electrician staff, who act in accordance with the instruction manual and the device functions. In case of casing dismantling, the guarantee is lost and an electric shock may occur. Before installation make sure the connection cables are not under voltage. The cruciform head screwdriver $3,5 \mathrm{~mm}$ should be used to install the device. Improper transport, storage, and use of the device influence its wrong functioning. It is not advisable to install the device in the following cases: if any device part is missing or the device is damaged or deformed. In case of improper functioning of the device contact the producer.

## CONNECTION



## FUNCTIONIG

After power supply is applied, the device is ready to operate. If the voltage on the L1 phase is higher than 180 VAC , then the receiver is supplied from another phase. If the voltage on the L1 drops below 180 V AC, then there is an automatic switch to the L2 phase in <150 ms . Analogically, if the L 2 phase voltage drops below 180 VAC , then there is an automatic switch to the L3 phase. In case the L3 phase voltage is below 180 V AC , there is a power supply switch off for the receiver connected to this output. If the given phase is switched off due to a voltage drop of $<180 \mathrm{~V} \mathrm{AC}$, then it is switched on again at a value of $>190 \mathrm{~V}$ AC (hysteresis 10 V ). The L1 is the priority phase. In case its parameters are correct, then this phase will supply the receiver. For example, if a receiver is supplied by the L3 phase and, at the same time, the L1 has correct parameters again, then an automatic switch to the L1 phase supply will occur. If the voltage on a particular phase is $>180 \mathrm{~V} \mathrm{AC}$, the appropriate LED switches on. This LED switches off if voltage drops below 180 V AC. The phase switching on and switching off times are the same and equals about 150 ms .

## Operation - time diagram:



## Internal connection arrangement - PK1, PK2, PK3 relays:



## WARRANTY CARD

. ZAMEL Sp. z o.o. assures a 24 -month guarantee for the product.
2. The manufacturer's guarantee does not cover any of the following actions:
a) mechanical damage during transport, loading / unloading or under other circumstances,
b) damage caused by incorrect product mounting or misuse,
c) damage caused by unauthorised modifications made by the PURCHASER or any third parties to the product or any other devices required for the product functioning,
d) damage caused by Act of God or any other incidents independent of the manufacturer - ZAMEL Sp z o.o
e) supply sources (batteries) included in the device during selling (if they are included).
3. The PURCHASER shall lay any claims in writing in the place of purchase or to ZAMEL Sp. z o.o.
4. ZAMEL Sp. z o.o. is liable for processing any claim according to current Polish legislation.
5. ZAMEL Sp. z o.o. shall process the claim at its own discretion: product repair, replacement or money return.
6. The manufacturer's guarantee is valid in the Republic of Poland.
7. The PURCHASER's statutory rights in any applicable legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty.

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