

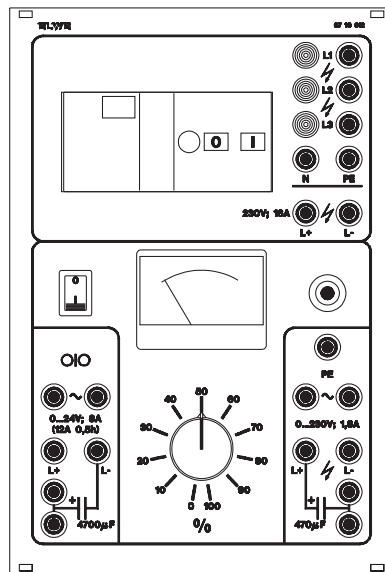


Operating Manual

Drawer Unit for Low and Extra-Low Voltage 100 W (67 10 313) Drawer Unit for Low and Extra-Low Voltage 300/1000 W (67 10 312)



Please read the operating instructions thoroughly before using this device. The guarantee and the possible liability of the manufacturer does not cover defects which are caused by non-observance of these instructions. If this unit is passed on to others, this manual must be passed on, too.



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1. Safety Instructions

- ***The unit must not be put into operation if:***

- the unit or the operating elements have visible damages.
- the unit has been dropped down.
- the casing cover is missing.
- the supply lead is damaged.

- ***The unit must not be used***

- in damp or wet locations.
- in locations containing flammable gases, vapours or dust.
- in hazardous locations.
- as a transformer for toys.

- ***Avoid***

- impact, shock and vibration.
- touching the unit and its operational controls with wet hands.
- the ingress of liquids.
- overloads and short circuits.
- heat concentration due to covered ventilation slots.
- opening the unit when it is connected to power.
- contacting live parts.

- ***Make sure that***

- the unit will only be cleaned when it is off-circuit.
- only original spare parts are used if repair works have to be carried out.

- ***Only use***

- experimental cables with shockproof plugs.
- undamaged experimental cables.
- equipment which matches the power of the unit.

- ***Electrical working and repairs must only be carried out by our service team or by an authorized electrical expert.***

- ***Changes of the circuit or of any other kind are not permitted.***

2. Specifications

	67 10 313 (100 W)	67 10 312 (300/1000 W)
Supply voltage:	400/230 V, 3/N/PE, 50/60 Hz	
Output AC:	400/230 V, 3/N/PE 6 A	400/230 V, 3/N/PE 16 A
Output DC:	230 V, 6 A	230 V, 16 A
Output AC variable:	0 ... 24 V, 2 A 0 ... 230 V, 1 A	0 ... 24 V, 8 A 0 ... 230 V, 1.6 A
Output DC variable:	0 ... 24 V, 2 A 0 ... 230 V, 1 A	0 ... 24 V, 8 A 0 ... 230 V, 1.6 A
Input components provided:	residual-current-operated circuit-breaker 25 A, $I_F = 30$ mA automatic circuit-breaker, three-pole, 6 A (16 A)	

All outputs run to 4-mm safety sockets.

Dimensions in mm: 290 x 178 x 295 (H x W x D)

Mass: 9.15 kg

We reserve the right to change the technical data at any possibly time.

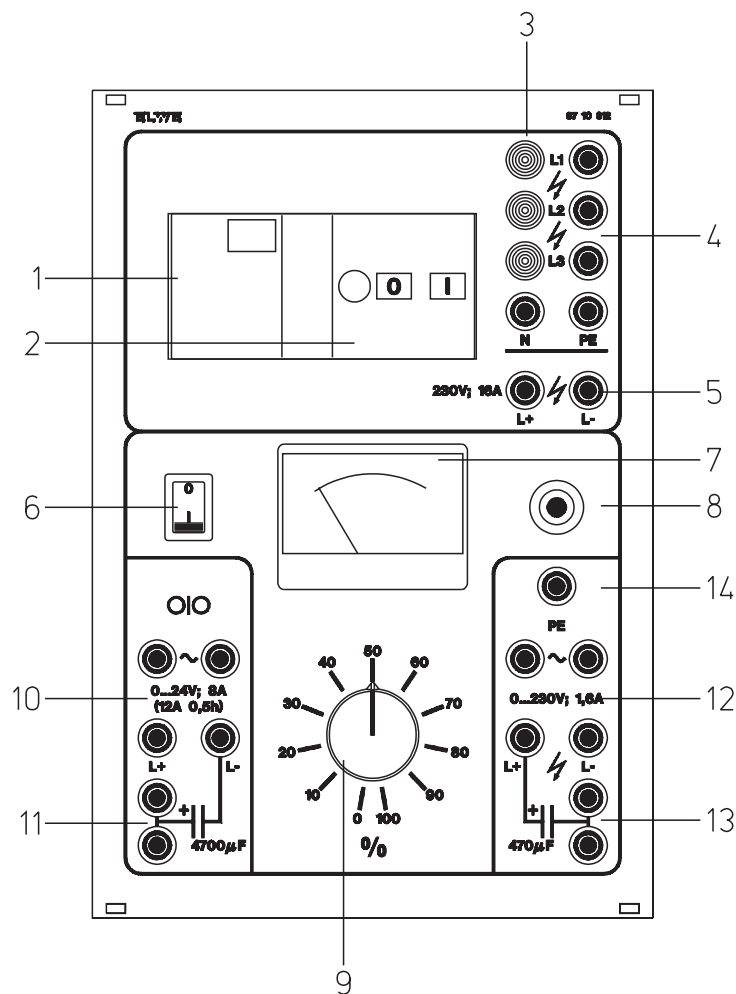
3. Use as described

The equipment has been designed for the use in experimental set-ups for instruction and training as described in the ELWE experimental manuals.

The drawer unit for low and extra-low voltage is only to be used for the voltage supply of electrical machines.

The experiments and exercises must be conducted in correspondence with the relevant regulations and must constantly be supervised by authorised teachers and trainers.

4. Control elements and their functions



- | | |
|--|--|
| (1) residual-current-operated circuit-breaker
25 A, $I_F = 30$ mA | (9) Output voltage adjuster
(variable transformer) |
| (2) automatic circuit-breaker | (10) Output sockets AC / DC
0 ... 24 V |
| (3) Status displays | (11) Output sockets 0 ... 24 V DC
with smoothing capacitor |
| (4) Output sockets AC 400/230 V | (12) Output sockets AC / DC
0 ... 230 V |
| (5) Output sockets DC 230 V | (13) Output sockets 0 ... 230 V DC
with smoothing capacitor |
| (6) "ON/OFF" switch with signal lamp
for variable output voltages | (14) PE socket |
| (7) Measuring instrument 0 ... 250 V / AC | |
| (8) Automatic circuit-breaker | |

5. Putting into operation

- Connect to the supply system.
- Switch on residual-current-operated circuit-breaker (1).
- Switch on automatic circuit-breaker (2).
- The status displays (3) indicate that the equipment has been switched on.
- A three-phase AC voltage of 400 V/230 V is available at the output sockets (4).
- A DC voltage of 230 V is available at the output sockets (5).
- Switch on power switch (6), the green control lamp indicates that the equipment has been switched on.
- The variable DC and AC voltages can be set with adjuster (9).
- The variable voltage of 0 ... 24 V AC/DC is available at the output sockets (10) and (11).
- The variable voltage of 0 ... 230 V AC/DC is available at the output sockets (12) and (13).
- **WARNING!** Only change the set up when the equipment has been switched OFF.
- If not using the variable voltages, set adjuster (9) to 0% and set switch (6) to position "off".

6. Maintenance

The unit is generally maintenance-free.

7. Care

Warning! Before cleaning, disconnect the equipment from the voltage supply.

Use a soft, dry cloth to clean the unit. In case of tenacious dirt, moisten the cloth with a soap solution or mild detergent. Dry the unit by wiping it with a soft cloth.

Never use alcohol, paint thinners, petrol or cloths treated with chemicals for cleaning because it might damage the surface of the unit and harm the environment.