

Self-learning mains disconnection relay FR61-230V



1 NO contact not potential free 10A/250V AC.
Standby loss 0.8 watt only.

Built-in device for installation and surface
mounting 45 mm long, 55 mm wide,
26 mm deep.

230V supply voltage and switching voltage.

State-of-the-art hybrid technology combines
advantages of nonwearing electronic control
with high switching capacity of special relays.

The FR61-230V mains disconnection relay
disconnects the power supply once all series
connected loads are turned off, thus preventing
any electromagnetic interference fields from
occurring.

Small loads up to 200mA are acceptable and,
once major loads are disconnected, they do
not prevent field disconnection. There is no
need to manually set the limit; it is learned by
the FR61. Loads drawing more than 200mA
are consistently defined as loads which should
cause the line power to be connected.

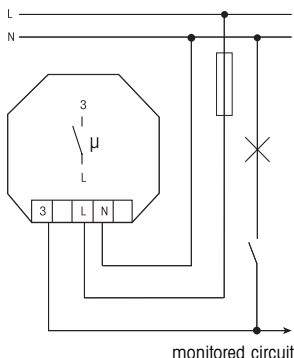
As long as no major load is turned on, one
pole of the monitored circuit remains isolated
from the mains. Neutral and earth are connected
continuously to avoid acting as an aerial.

A DC voltage of 230V DC with an extremely
low residual ripple is applied for monitoring.

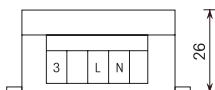
Therefore, it is **prohibited to bridge the relay
contact**, which would ultimately cause device
failure. When a load is turned on, the mains
disconnection relay connects the phase.

**If the phase is switched on for the first time
and after a power failure the FR61 automati-
cally learns in again:** At first an inrush current
of 30 mA is specified. If a new small load is
switched on for more than 24 hours, the total
current drawn by the monitored circuit is less
than 200mA, and in the meantime the light
has been switched on and off, the new load is
learned in and the conductor is switched off.
This learn-in mode can be realised immediately
after connection of the new load by briefly
switching off the MCB.

Typical connection



Side view



For typical connections and further information regarding:

- Switching power supply units in entertainment electronics and plug-in power supply units
- Switching power supply units in distribution boxes
- Roller shutter control
- Plug-in consumers with power control
- and Frequently Asked Questions

please refer to the internet:

www.eltako.com

PDF Catalogue. Product group G.

Important reminder!

**Only a trained electrician may install this
equipment, otherwise there is a risk of fire
or electric shock.**