



Time-delay relay with on-/off-delay

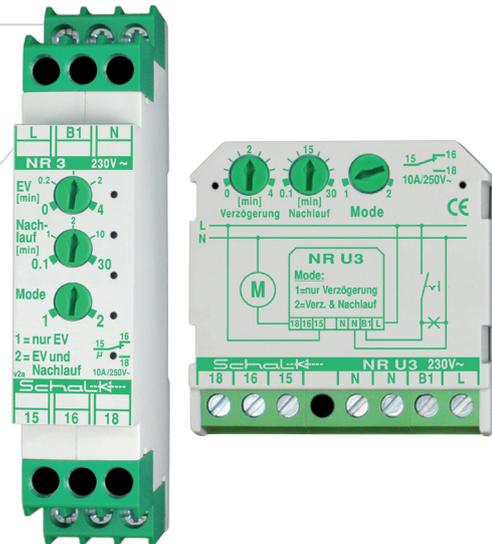
NR 3 (Rail-mounting version)

NR U3 (Flush-mounting version)

For delayed switching of consumers, e.g. fans in bath/WC, etc. Can be used as switch-on and/or switch-on delay relay.

Special features

- ▶ 2 operating modes - therefore also usable as pure switch-on delay
- ▶ Flexibly adjustable time ranges
- ▶ Galvanically isolated change-over contact
- ▶ Low power dissipation



General information

The time-delay relays NR 3 and NR U3 are electronic time switches with potential-free change-over contact for delayed switching on and off of secondary consumers. If required, NR 3 and NR U3 can also be used as pure switch-on delays without follow-up time. Due to these selectable operating modes and the running times that can be set within a wide range, these devices can be used in a wide variety of applications.

Applications

Automatic ventilation of windowless rooms, delayed switch-on and off of all kinds of consumers, etc.

Operation

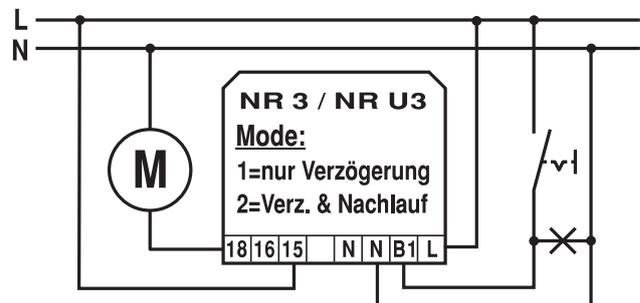
Mode 1 = switch-on delay only

Signal on B1 starts the time lapse. After the set delay time has elapsed, the relay contact is closed. The after-run time is suppressed, and the relay contact is thus opened again immediately when the signal on B1 is no longer present. If L and B1 are bridged, the switch-on delay is also safely started in this operating mode by applying the supply voltage.

Mode 2 - Switch-on delay and switch-off delay:

Signal on B1 starts the time lapse. After the set delay time has elapsed, the relay contact is closed. When signal on B1 is no longer present, after-run time is started and the relay contact drops when end of time is reached. In this operating mode, the after-run time is started when the supply voltage is applied.

Connection example



Common technical data

Operating voltage:	230 V 50/60 Hz 10%
Power consumption:	approx. 0.4 W
Switch-on delay	approx. 0.3s - 4min
Switch-off delay	approx. 6s - 30min
Switch rating	see data sheet: "Relay contact rating"
Glow lamp load (B1)	max. 5 mA
Line capacitance (B1)	approx. 20 nF
Ambient temperature	-10°C to +45°C
Mounting orientation	arbitrarily
RAL colour	grey 7035 / green 6029

Technical Data NR 3

Relay contact	1 change-over contact 10 A / 250 V AC potential-free
Connection terminals	Socket terminals with captive screws M3.5
Clamping range	0.5 mm ² - 4.0 mm ²
Strip length	6.0 mm - 6.5 mm
Screwing torque	0.80 Nm
External dimensions	18 x 88 (45) x 58 mm

Technical Data NR U3

Relay contact	1 change-over contact 10 A / 250 V AC potential-free
Connection terminals	Socket terminals with captive screws M3
Clamping range	0.5 mm ² - 2.5 mm ²
Strip length	6.5 mm - 7.0 mm
Screwing torque	0.50 Nm
External dimensions	43 x 43 x 18,5 mm

Order data

Item no.	EAN	Type	Designation
NR3009	4 046929 801096	NR 3	Time-delay relay with on-/off-delay, 230V AC, 1 CO 10A pf
NRU309	4 046929 801089	NR U3	Time-delay relay with on-/off-delay, 230V AC, 1 CO 10A pf (FMD)

2017-06-01