

# DATENBLATT / DATA SHEET

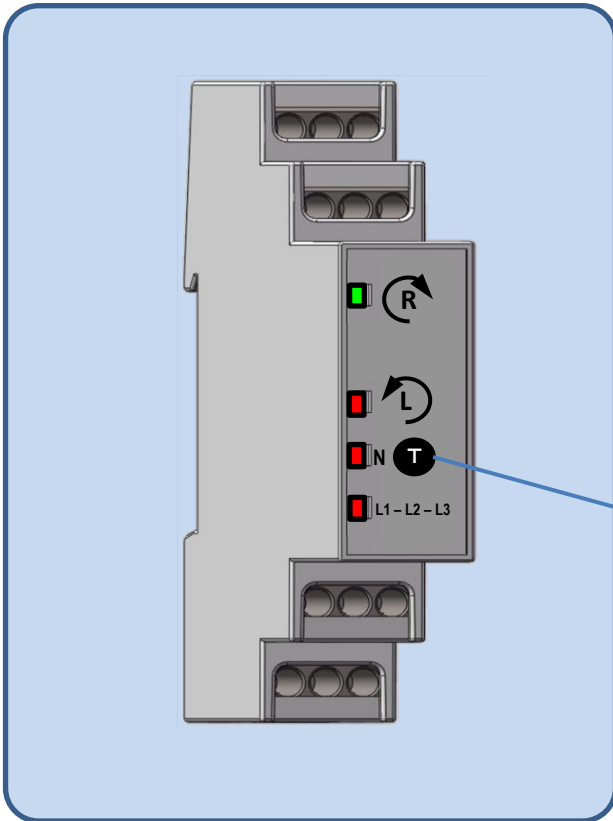
▶ 3061

Version: 28.09.2012

## UNTERSCHWELMUNGSMESS-Relais mit Drehfeldererkennung UNDERVOLTAGE MONITORING Relay with Phase sequence detection

○ FOTO

○ INFO



Optische Anzeigen	LED
- POWER / Rechtes Drehfeld	grün
- Linkes Drehfeld	red
- N fehlt	red
- L1 oder L2 oder L3 fehlt	grün

Optical indication	LED
- POWER /	
Clockwise Rotation field	green
- Left Rotation field	red
- Neutral is missing	red
- L1 or L2 or L3 is missing	red

Taste  
TEST-Funktion  
Push button  
TEST-Funktion

○ BETRIEB / OPERATION

**Überwachte Leiter  
Schaltspannung  $U_s$**

**Monitored Conductor  
Switching voltage  $U_s$**

Phase L1, L2, L3 und Neutralleiter N  
 $0,85 \times U_N$

Phase L1, L2, L3 and Neutral conductor N  
 $0,85 \times U_N$



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○ TYPENSPEKTRUM / TYPE RANGE

Beschreibung / [Description](#)

Artikelnummer / [Article no.](#)

230/400 V AC 50Hz    2 Wechsler / [2 CO contact](#)

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## ○ ELEKTRISCH / ELECTRICAL PROPERTIES

Standards	DIN EN 61000 (EMV-Störsicherheit) (EMC-noise immunity) IEC/EN 61000-4-2, IEC/EN 61000-4-4 IEC/EN 61000-4-5 IEC/EN 60255, DIN VDE 0435-300
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### STEUERSTROMKREIS / CONTROL CIRCUIT

Nennspannung / Rated voltage	$U_N$	230 / 400	V AC
Bemessungsfrequenz / Rated frequency		50	Hz
Schaltspannung / Switching voltage	$U_s$	0,85 x $U_N$	V AC
Schaltverzögerungszeit / Switching time delay	$t_v$	0,5	s
Einschaltdauer / duty cycle		100	%
Leistungsaufnahme Power consumption		<1	VA
Bemessungsstoßspannungsfestigkeit Rated short-circuit making capacity	$U_{imp}$	4	kV (1,2/50) $\mu$ s
Überspannungskategorie Overvoltage category		III	

### RELAISKONTAKTE / RELAY CONTACTS

	Wechsler / CO contact	11-12-14
	Wechsler / CO contact	21-22-24
Bemessungsbetriebs-spannung / -strom / Rated operational voltage / current		
	CO 11-12-14	$U_e / I_e$ $\cos\phi=1$ 250V / 5A $\mu$ AC
	CO 21-22-24	30V / 5A DC
		300V / 0,25A DC
Mindestbemessungsbetriebs-spannung / -strom / Minimum rated operational voltage / current		
	CO 11-12-14	$U_e / I_e$ 100mV / 10mA AC/DC
	CO 21-22-24	
Durchschlagsfestigkeit / Dielectric strength		
	CO 11-12-14 Spule-Kontakte / Coil-contact circuit	4 kV <sub>eff</sub> / r.m.s.
	CO 21-22-24 Offener Kontakt / Open contact circuit	1 kV <sub>eff</sub> / r.m.s.
Max. zulässige Vorsicherung / max. permissible back-up fuse		6 A gG (gL)



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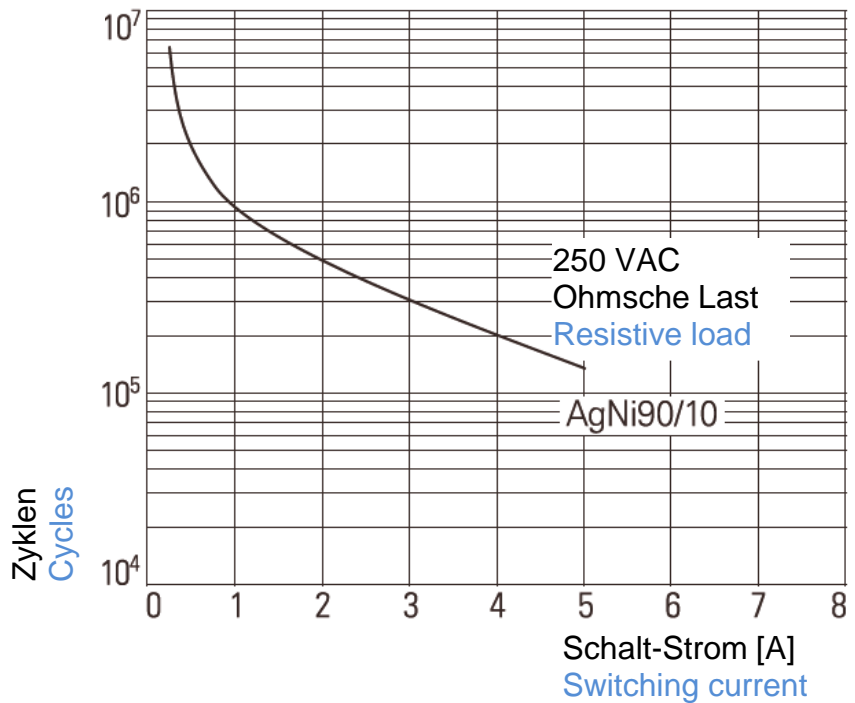
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○ ELEKTRISCH / ELECTRICAL PROPERTIES

## RELAISKONTAKTE / RELAY CONTACTS

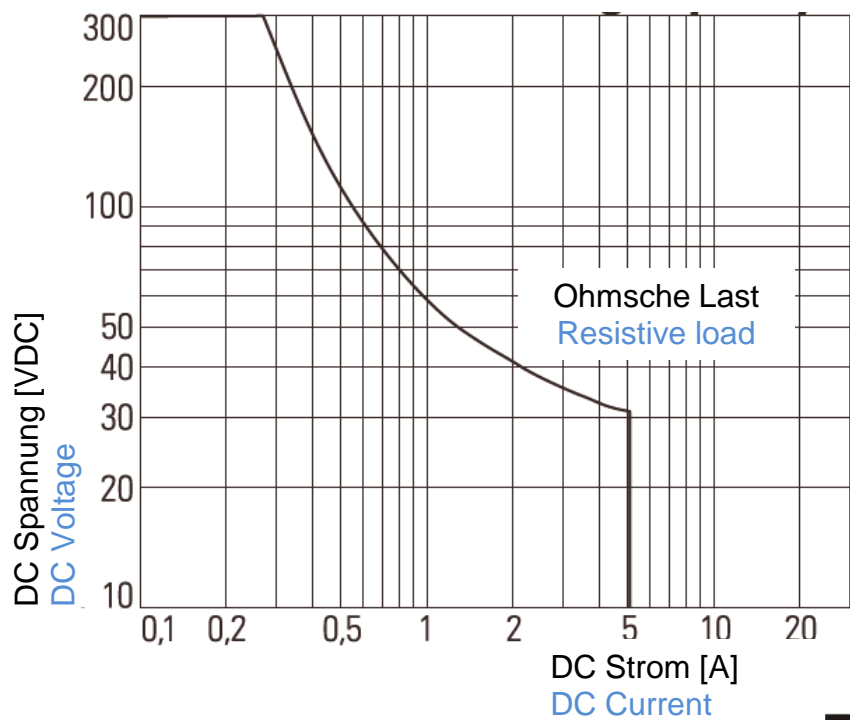
Elektrische Lebensdauer

Electrical Endurance



Max. DC Lastschaltvermögen

Max. DC Load breaking capacity



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○ ELEKTRISCH / ELECTRICAL PROPERTIES

## ALLGEMEIN / GENERAL

Kriechstromfestigkeit

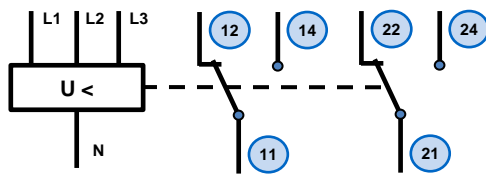
CTI

600

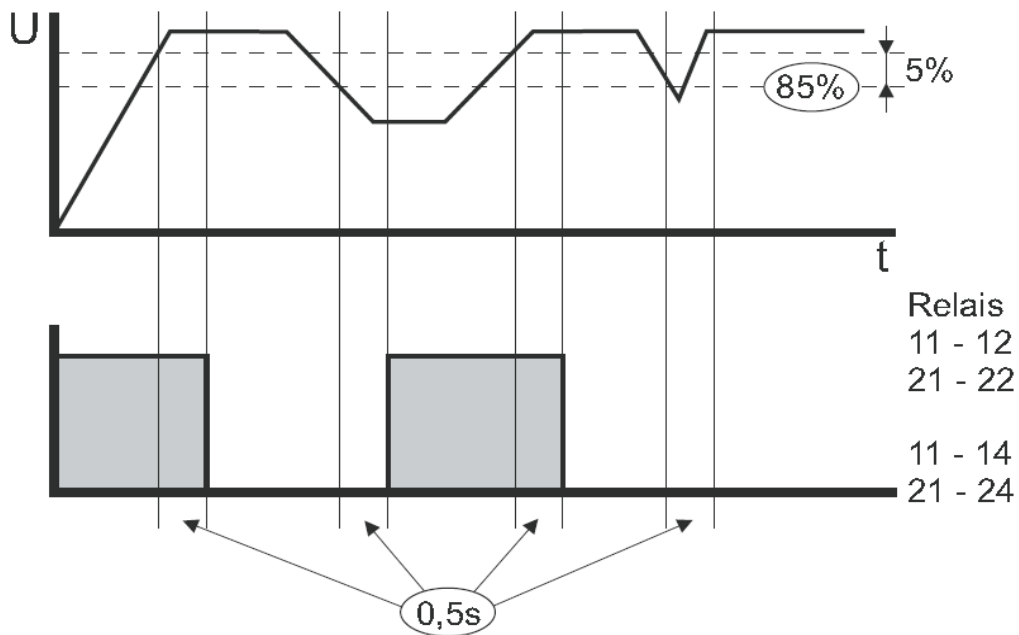
Comparative tracking index

○ SCHALTBILDER / CIRCUIT DIAGRAM

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## FUNKTIONSDIAGRAMM / FUNCTION DIAGRAM



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## ○ MECHANISCH / MECHANICAL PROPERTIES

Gewicht Weight	<b>3061</b>	73 g
Klemmen Terminal	Liftklemmen Lift terminal	
Schraube Screw	Phillips	PH 0
Anschlussquerschnitt Cross section	flexibel flexible	1x 2,5 mm <sup>2</sup> 1x AWG 14
	starr solid	1x 4 mm <sup>2</sup> 1x AWG 12
	starr solid	2x 1,5 mm <sup>2</sup> 2x AWG 16
Anzugsdrehmoment Tightening torque	M <sub>n</sub>	0,5 Nm
Schutzart (hinter Frontplatte) Degree of rotection (behind front plate)		IP 20 / IP 40
Berührungsschutz Touch protection	finger und handrückensicher finger and hand touch safe	BGV A3 ÖVE-EN 6
Temperaturbereich Temperature range	Umgebung / Ambient Lagerung / Storage	-25 bis +60 °C -40 bis +60 °C
Brandklasse Flame class	nach UL 94 according to UL94	V0
Glühdrahtprüfung Glow-wire test		960 °C
Verschmutzungsgrad Pollution degree		2
Kunststoff Plastic	halogen-, phosphor-, silikonfrei Halogen-, silicone-, and phosphorfree	
Vibrationsfestigkeit (Funktion) Vribration resistance (function)	Schließer / Öffner Kontakt NO / NC contact	15 / 5G m/s <sup>2</sup>
Schockfestigkeit (Zerstörung) Shock resistance (destruction)		100G m/s <sup>2</sup>



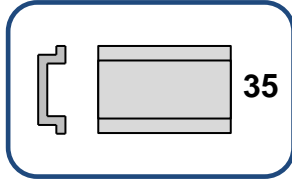
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○ MECHANISCH / MECHANICAL PROPERTIES

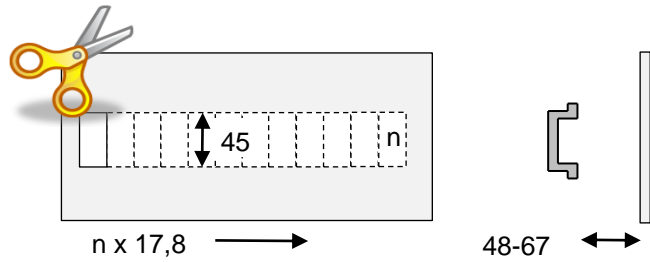
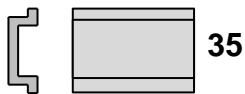
Montage  
Mounting



Werkzeuglos auf Hut-Schiene 35mm  
Tool less onto Hat rail 35mm

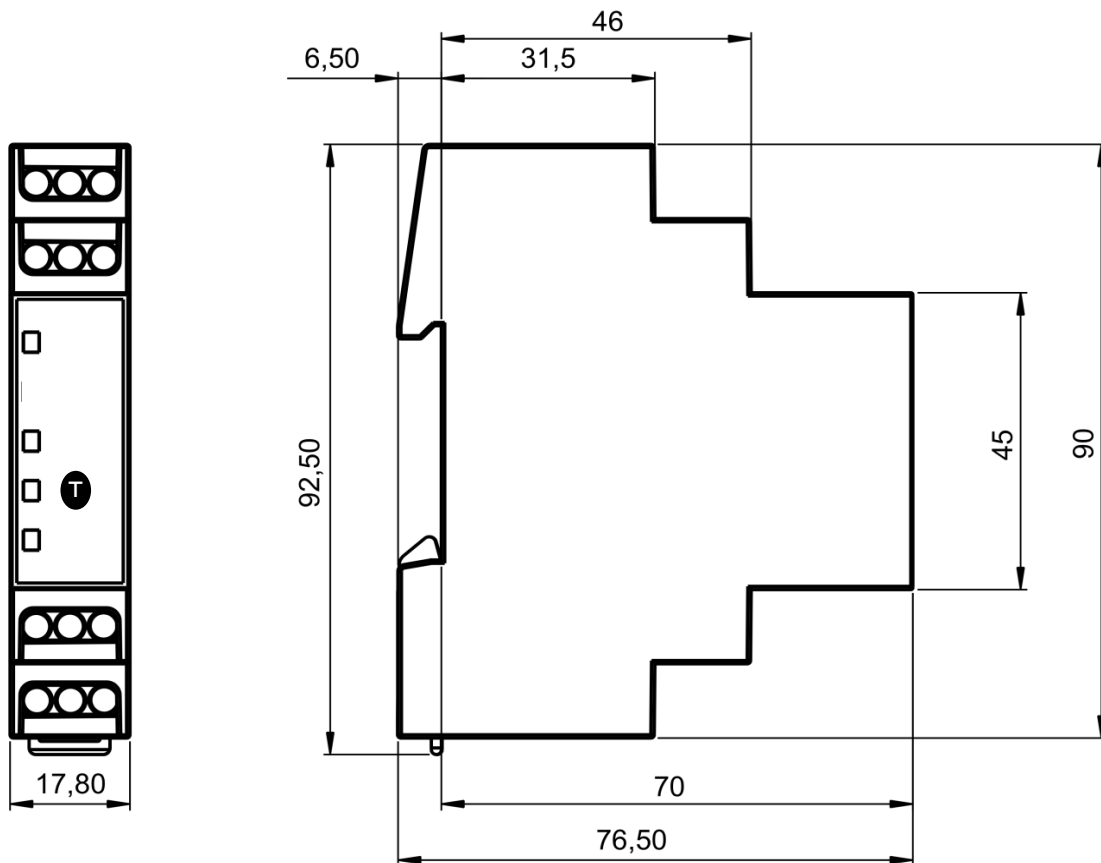
Frontplattenausschnitt [mm]  
Cut-out for front plate

Für Hut-Schienen nach IEC/EN 60715 [mm]  
For Hat rail according to IEC/EN 60715



Abmessungen B x H x T  
Dimensions W x H x D

17,8 x 92,5 x 76,5 mm



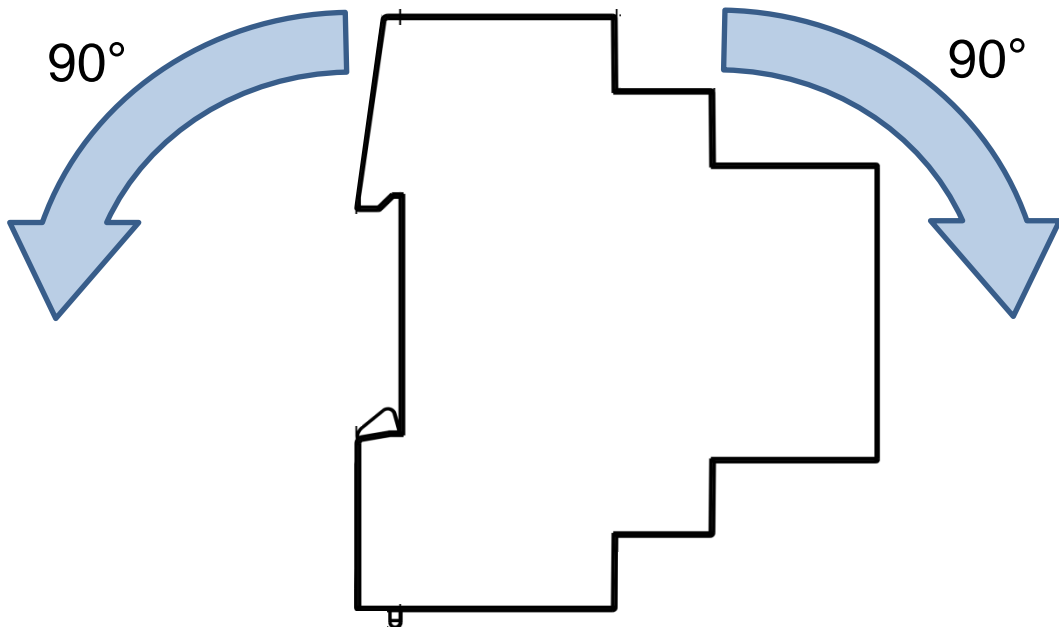
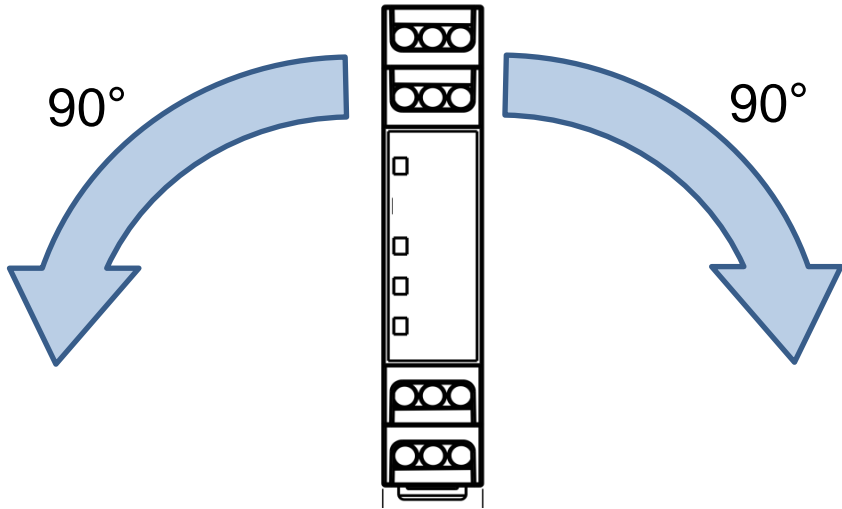
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○ MECHANISCH / MECHANICAL PROPERTIES

Einbaulage  
Mounting position





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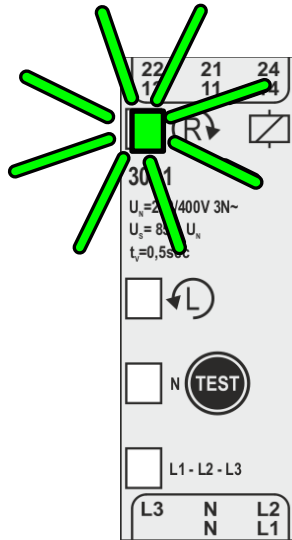
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○ VISUALISIERUNG / VISUALISATION

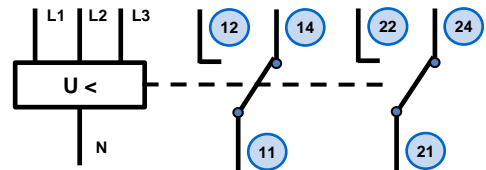
BETRIEBSBEREIT  
IN OPERATION

Relais  
angezogen  
Relays  
energized



Rechtes  
Drehfeld  
Clockwise  
Rotation Field

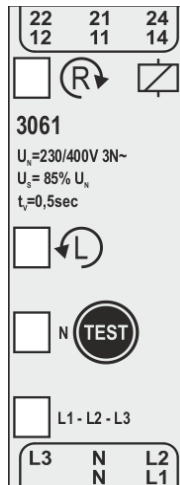
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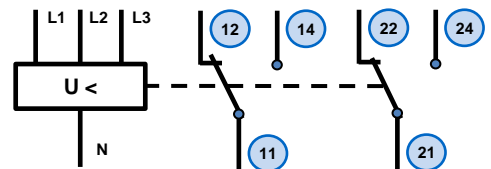
NICHT BETRIEBSBEREIT  
NOT IN OPERATION

Relais  
abgefallen  
Relays  
de-energized

Netzspannung fehlt  
Mains voltage is missing



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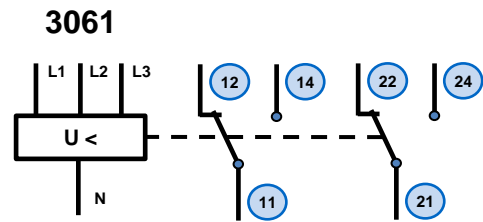
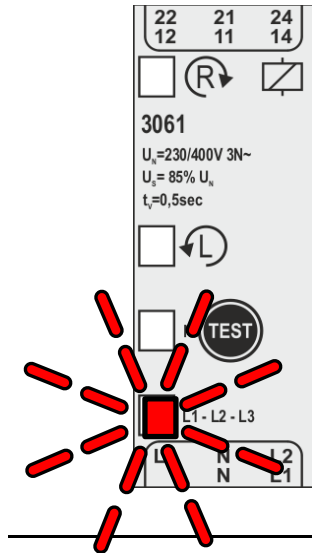
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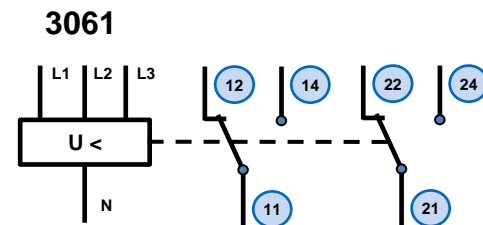
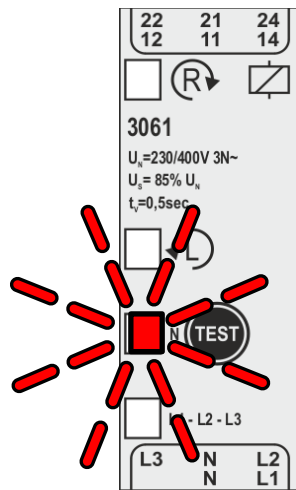
Relais  
abgefallen  
Relays  
de-energized



Phase L1, L2 oder  
L3 fehlt  
Phase L1, L2 or  
L3 is missing



Neutralleiter fehlt  
Neutral conductor  
is missing



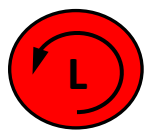
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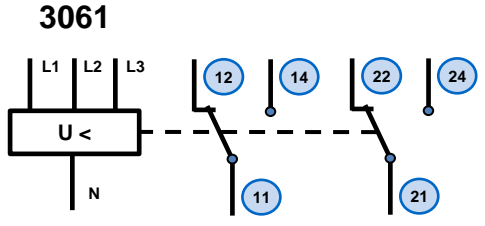
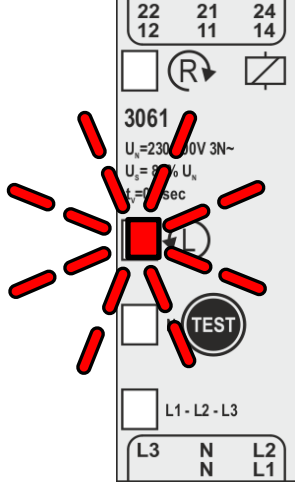
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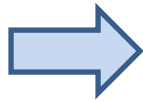
Relais  
abgefallen  
Relays  
de-energized



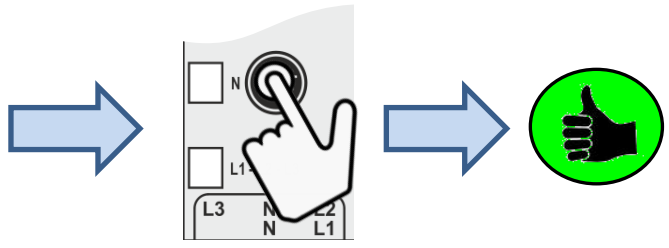
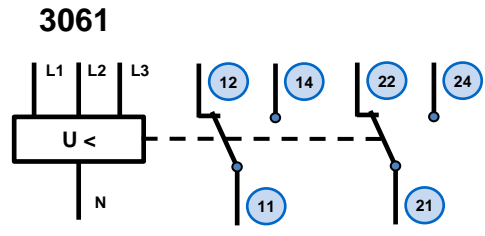
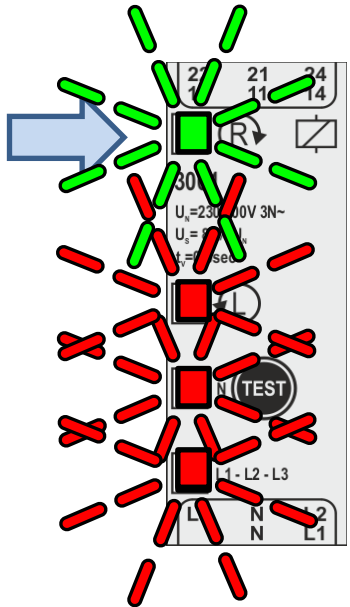
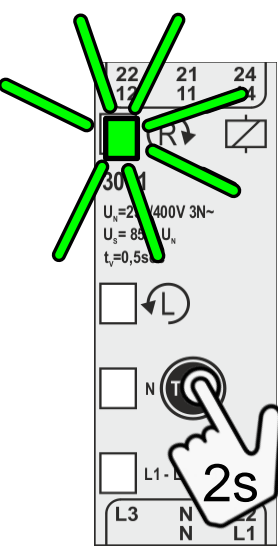
Linkes  
Drehfeld  
Left  
Rotation Field



TEST



Relais  
abgefallen  
Relays  
de-energized



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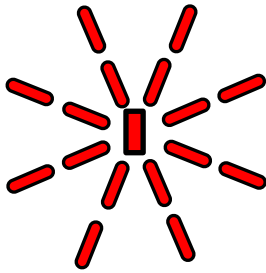
○ VISUALISIERUNG / VISUALISATION

BESCHREIBUNG / DESCRIPTION

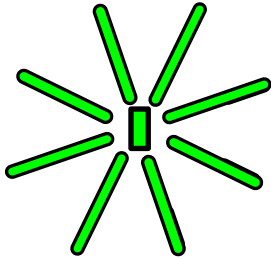
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LED...Light Emitting Diode



BLINKENDE LED / FLASHING LED



LEUCHTENDE LED / ILLUMINATED LED

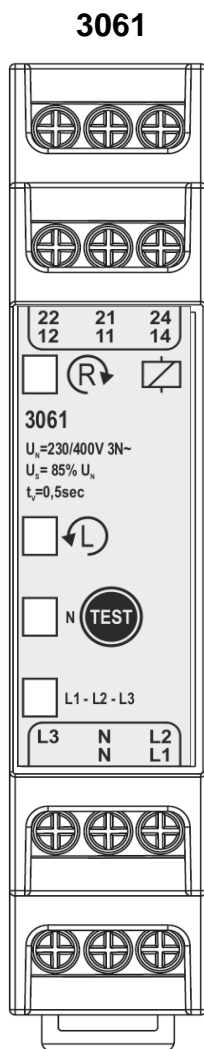


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○ ANSCHLUSS / CONNECTION



○ LEITER ANSCHLIESSEN  
CONNECT WIRES

