

DATENBLATT / DATA SHEET

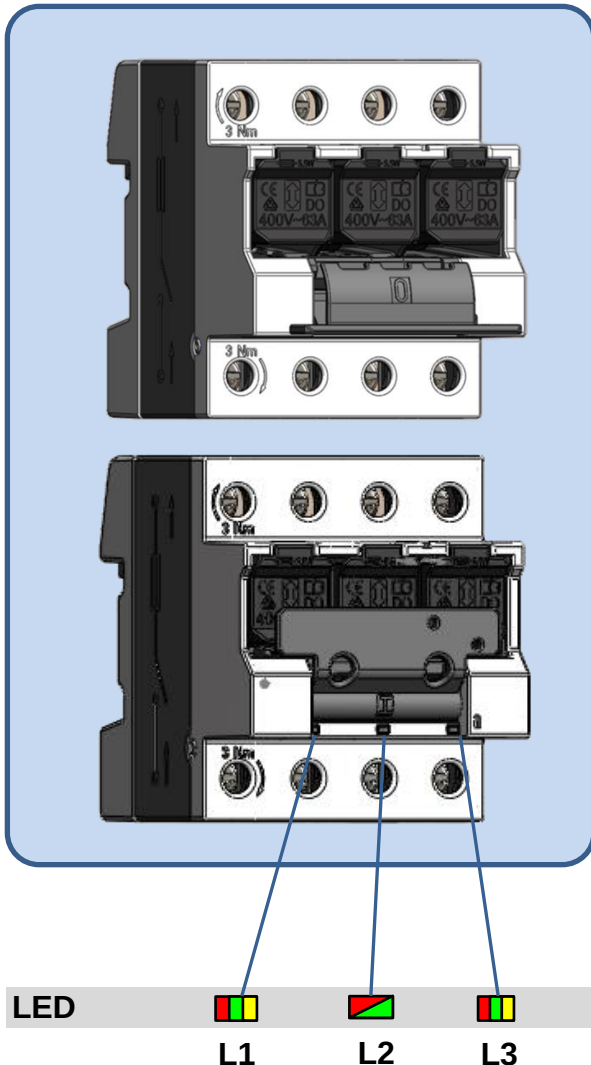


▶ TYTAN T4HP

Version: 19.05.2022

Lasttrennschalter mit Sicherungen mit Phasenanzeige, Blinkmelder und thermischer Überwachung
Switch disconnecter fuse with phase indication, flashing indicator and thermal monitoring

○ FOTO



○ INFO

- | | |
|----------------------------|--------|
| + Optische Anzeigen | LED |
| - Störungsfreier Betrieb | grün |
| - Drehfeld links | rot |
| - Sicherung ausgelöst | rot |
| - Gerät überhitzt | gelb |
| Optical indication | LED |
| - Trouble-free operation | green |
| - Left rotation field | red |
| - Fuse-link blown | red |
| - Device overheated | yellow |

- +** Versperrbar in AUS - Position
Plombierbar in EIN / AUS - Position
Lock-able in OFF - position
Seal-able in ON / OFF - position

STS-Fehlerrelais
STS-Error relay

Spannungsausfall, Linkes Drehfeld
Temperaturfehler, Sicherungsausfall
Voltage failure, left rotation field
Overheat, fuse-link blown

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○ TYPENSPEKTRUM / TYPE RANGE

Beschreibung / Description	Artikelnummer / Article no.	
Bemessungsbetriebsspannung / Rated operational voltage	400 VAC 50Hz	
Bemessungsbetriebsstrom / Rated operational current	D0	2-63A
	10x38	2-32A

TYTAN T4HP

Mit Dreifach-Phasenanzeige, Drehfeldanzeige, Sicherungs- und thermischer Überwachung, STS-Fehlerrelais
[With tripple-phase indication, rotation field indication, fuse monitoring and thermal monitoring, STS-Error relay](#)

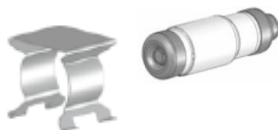
3 polig + N / [3 poles + N](#)

R1051828D

○ ZUBEHÖR / ACCESSORIES

Beschreibung / Description		Artikelnummer / Article no.
Stecker-Reduzierfeder / Adapter spring	D01, 10x38	Q1006402K

1174



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ELEKTRISCH / ELECTRICAL PROPERTIES

Geprüft / approved acc. to		IEC/EN 60947-3	
Geeignet für Komponenten nach		IEC/EN 60269-3 (DIN VDE 0636-3)	
Suitable for components acc. to		IEC/EN 60269-2 (DIN VDE 0636-2)	
Bedienung durch Laien ist zulässig gemäß (Bei Verwendung des D0-Sicherungssystems)		IEC/EN 61439-3 VDE 0660-600-3	
To be operated by ordinary persons acc. to (Together with D0-fuse system)			
Polzahlen / Poles		3P+N	
Bemessungsbetriebsspannung	U_e	D0 (10x38)	400 VAC
Rated operational voltage			
Bemessungsbetriebsstrom	I_e	D0	63 A
Rated operational current		10x38	32 A
Bemessungsdauerstrom	I_u	D0	63 A
Rated uninterrupted current		10x38	32 A
Bedingter Bemessungskurzschlussstrom			50 kA _{eff}
Rated conditional short-circuit current			kA _{r.m.s.}
Bemessungsisolationsspannung	U_i		400 V
Rated insulation voltage			
Bemessungsstoßspannungsfestigkeit	U_{imp}		6 kV
Rated impulse withstand voltage			
Überspannungskategorie			IV
Overvoltage category			
Kriechstromfestigkeit	CTI		600
Comparative tracking index			
Gebrauchskategorie			AC 22B
Utilization category			
Verlustleistung pro Strombahn ohne Sicherung	bei I_e	L1, L2, L3	1,8 W
Power loss per current path without fuse-link	at I_e	N	1,1 W
Max. zulässige Verlustleistung der Sicherung P_n			5,5 W
Max. permissible power loss of fuse-links			

ELEKTRONIK / ELECTRONIC CIRCUIT

Bemessungsbetriebsspannungsbereich	400 +/- 10%	VAC
Rated operational voltage range		
Leistungsaufnahme	3 x 176	mVA
Power consumption		

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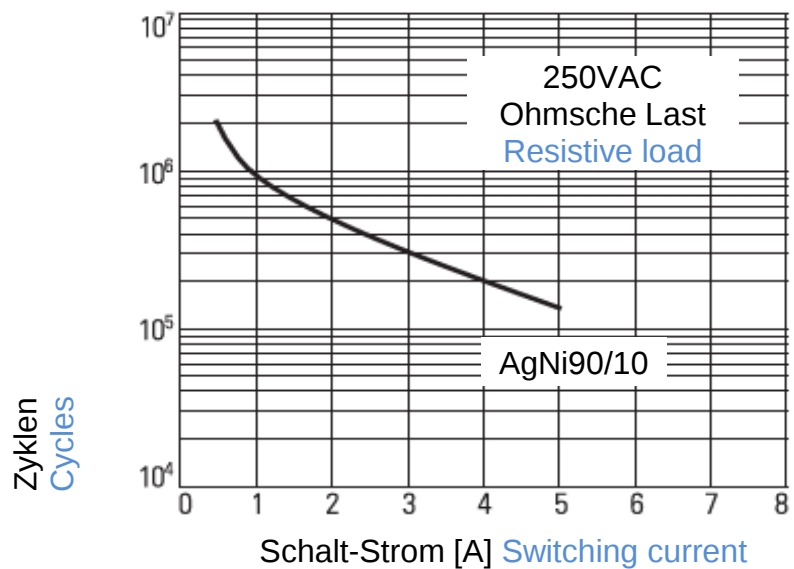
○ ELEKTRISCH / ELECTRICAL PROPERTIES

RELAIS / RELAY

Funktion	1 Wechsler				
Function	1 CO				
Bemessungsbetriebs-spannung / -strom	U_e / I_e	$\cos\varphi=1$	85 °C	250V / 5A	AC
Rated operational voltage / current		AC-15		240V / 0,75A	AC
		AC-15		120V / 1,5A	DC
		DC-13		24V / 1A	DC
Durchschlagsfestigkeit	Spule-Kontakt / Coil-contact circuit			4	kV _{eff} / r.m.s.
Dielectric strength	Offener Kontakt / Open contact circuit			1	kV _{eff} / r.m.s.

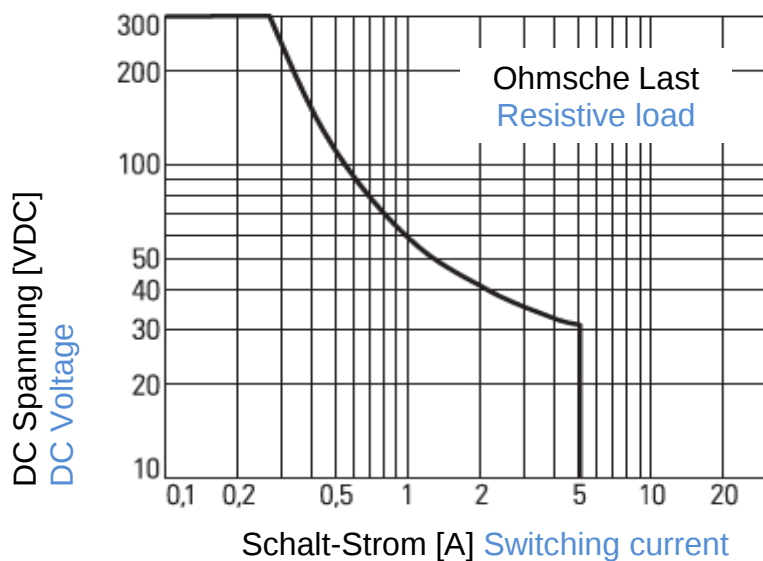
Elektrische Lebensdauer

Electrical Endurance



DC-Ausschaltvermögen

DC breaking capacity



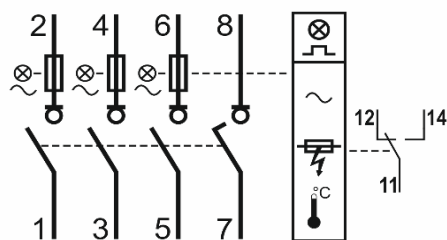
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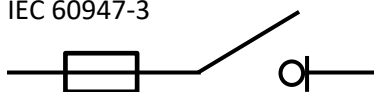
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● SCHALTBILDER / [CIRCUIT DIAGRAM](#)

3P+N



● SYMBOL / [SYMBOL](#)
IEC 60947-3



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▶ **TYTAN T4HP**

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○ MECHANISCH / MECHANICAL PROPERTIES

Gewicht	382 g
Weight	

Klemmen	Liftklemmen	antimagnetischer Edelstahl
Terminal	Lift terminal	stainless steel antimagnetic
Schraube	Pozidriv	PZ2
Screw		
Anschlussquerschnitt		1,5-25 mm ²
Cross section	AWG	4-16
Anzugsdrehmoment	M _n	3 Nm
Tightening torque	Bereich / Range	2,5-3 Nm
Schutzart (hinter Frontplatte mit eingesetzten Sicherungs-Steckern)		IP 20C
Degree of protection (behind front plate with inserted fuse-plugs)		
Berührungsschutz	finger und handrücksensicher	BGV A3
Touch protection	finger and hand touch safe	ÖVE-EN 6
Temperaturbereich	IEC 60947-3	Umgebungsluft / Ambient air
Temperature range		24h Durchschnitt / Average
		Lagerung / Storage
Grenzübertemperaturen	IEC 61439-1	
Temperature-rise limits	Klemmen / Terminals	Netz / Line
	Klemmen / Terminals	Last / Load
	Bedienelement / Manual operating means	
	Teile, die berührt, aber nicht in die Hand genommen werden	
	Parts intended to be touched but not hand-held	
	Teile, die im Normalbetrieb nicht berührt werden	
	Parts need not to be touched during normal operation	
Brandklasse	nach UL 94	V0
Flame class	according to UL94	
Glühdrahtprüfung		960* °C
Glow-wire test		
Verschmutzungsgrad		3
Pollution degree		
Kunststoff	halogen-, phosphor-, silikonfrei	
Plastic	Halogen-, silicone-, and phosphorfree	

* Isolierstoffteile, die stromführende Teile in Lage fixieren

* Parts of insulating material necessary to retain current-carrying parts in position

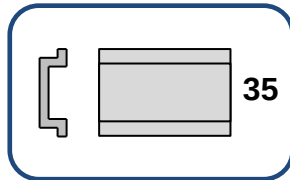
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► **TYTAN T4HP**

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○ **MECHANISCH / MECHANICAL PROPERTIES**

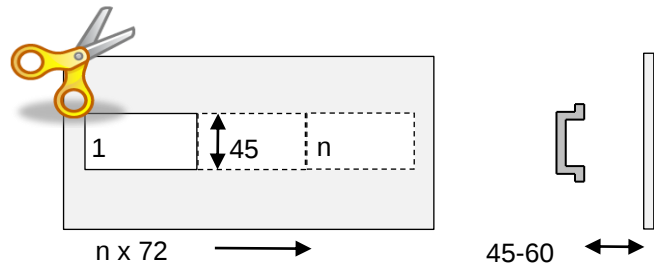
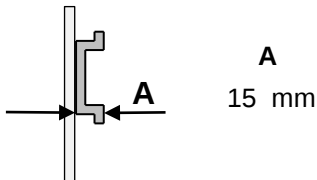
Montage
Mounting



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

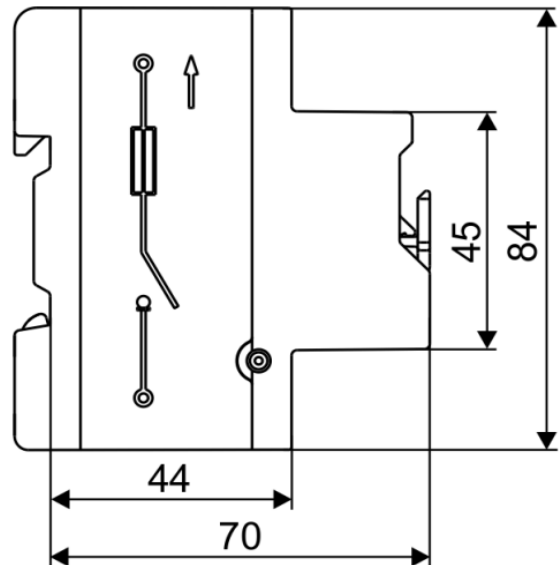
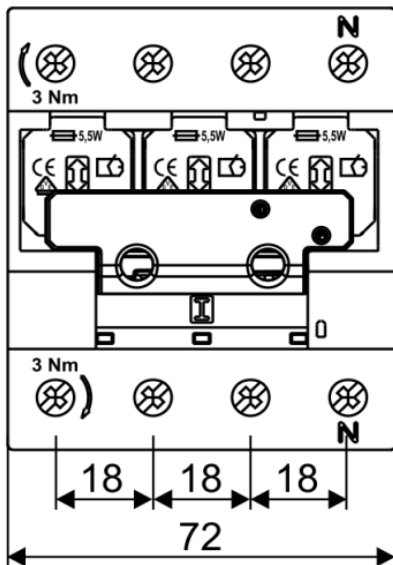
Frontplattenausschnitt [mm]
Cut-out for front plate

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

72 x 84 x 76 mm



ÜBERWACHUNG / MONITORING

Anschluss
Connection

Buchsenleiste Push-in
Female header push-in

0,2...2,5 mm²
AWG 26-12

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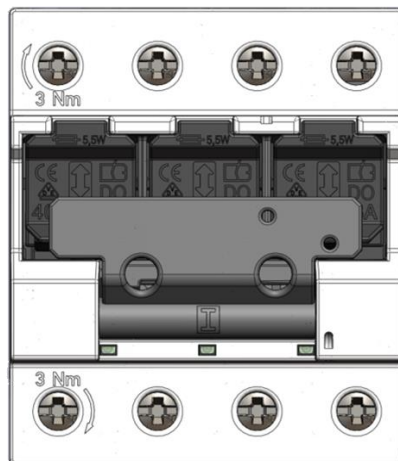
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○ MECHANISCH / **MECHANICAL PROPERTIES**

Einbaulage**

Mounting position**



** Bemessungsbelastungsfaktor RDF nach IEC/EN 61439-1 beachten!

** Pay attention to rated diversity factor according to IEC/EN 61439-1!

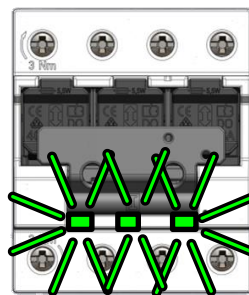
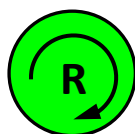
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○ VISUALISIERUNG / VISUALISATION

BETRIEBSBEREIT
IN OPERATION

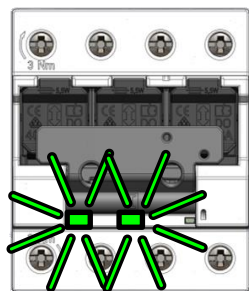


L1 L2 L3

FEHLER
FAULT

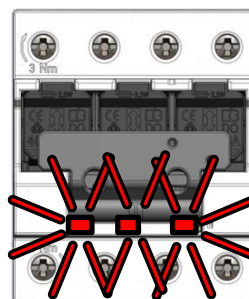
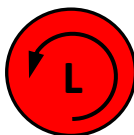


PHASENAUSFALL
PHASE FAILURE



L3 ?

DREHFELD LINKS
LEFT ROTATION FIELD



L1 L2 L3

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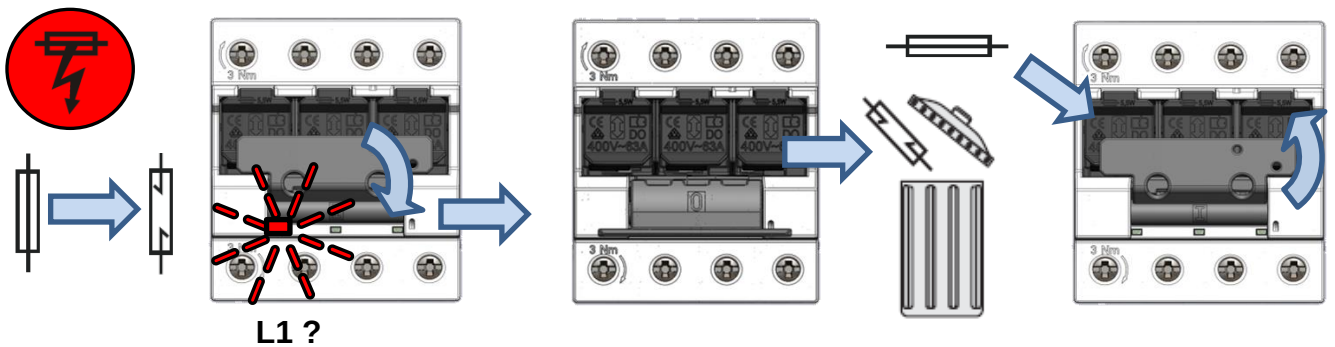
○ VISUALISIERUNG / **VISUALISATION**

FEHLER
FAULT

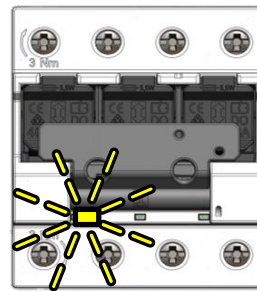
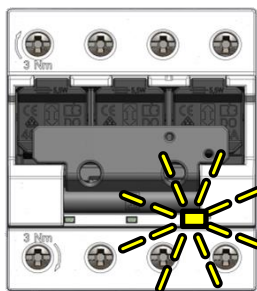
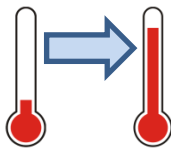
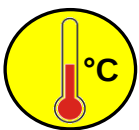


SICHERUNG ausgelöst
FUSE-LINK blown

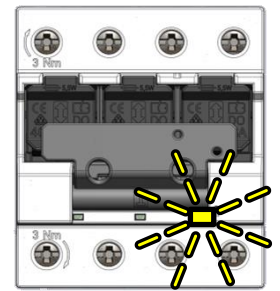
RESET



TEMPERATUR zu hoch
TEMPERATURE too high



Links /
left side



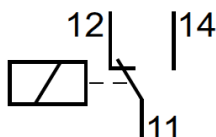
Rechts /
right side

ÜBERWACHUNG / **MONITORING**

Anschluss
Connection

Buchsenleiste Push-in
Female header push-in

0,2...2,5 mm²
26-12 AWG



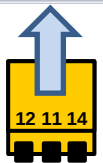
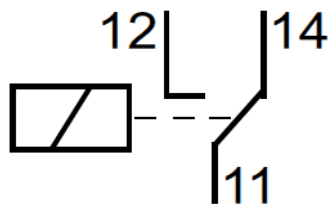
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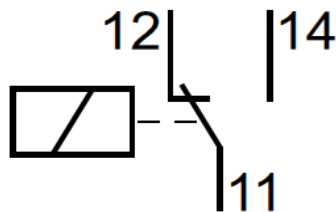
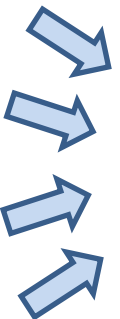
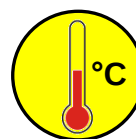
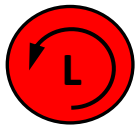
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○ STS-FEHLERRELAIS/ STS ERROR RELAY

BETRIEBSBEREIT
IN OPERATION



FEHLER
FAULT



DREHFELD LINKS
LEFT ROTATION FIELD

PHASENAUSFALL
PHASE FAILURE

SICHERUNG ausgelöst
FUSE-LINK blown

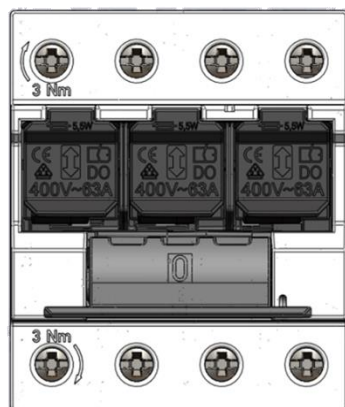
TEMPERATUR zu hoch
TEMPERATURE too high

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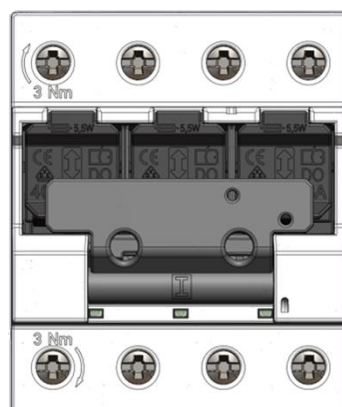
▶ TYTAN T4HP

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○ EIN / AUS POSITION ON / OFF POSITION

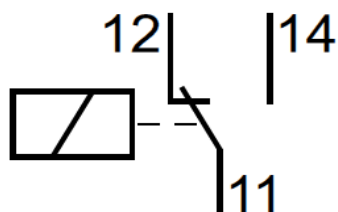
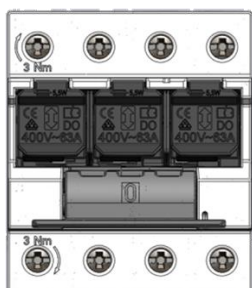


AUS
OFF



EIN
ON

AUS POSITION OFF POSITION

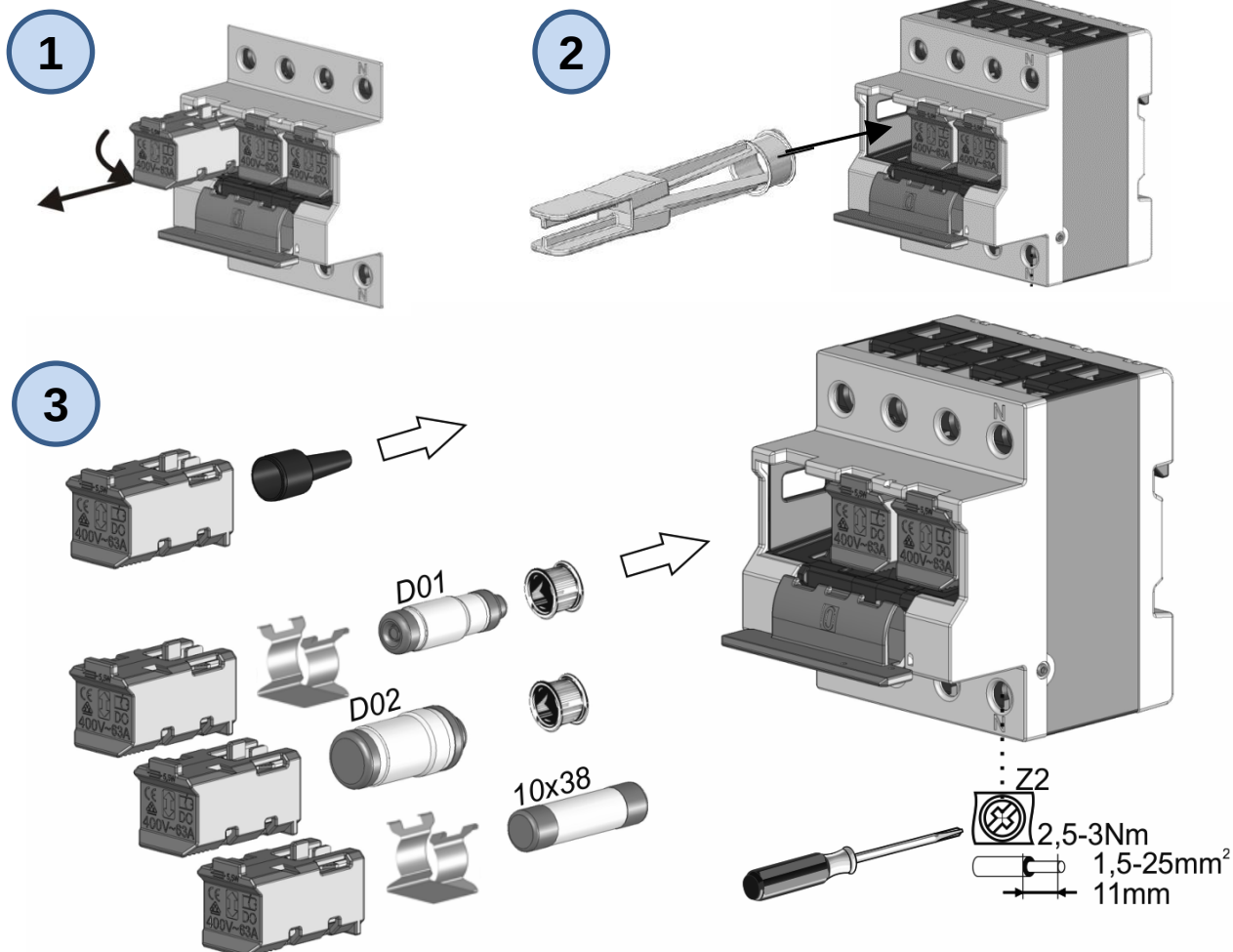


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○ **LEITER ANSCHLIESSEN / SICHERUNG EINSETZEN**
CONNECT WIRES / INSERT FUSE-LINK

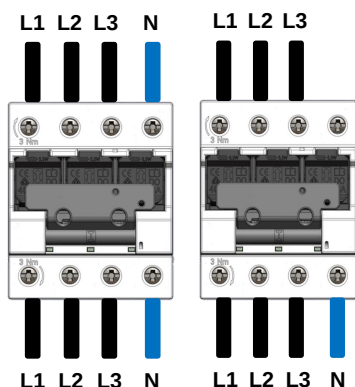


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☒ DREIPHASIGE ANWENDUNG THREE PHASE APPLICATION



TN-SYSTEM, TT-SYSTEM
3x400/230 VAC 50Hz

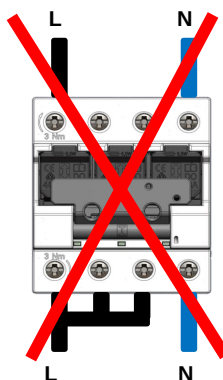
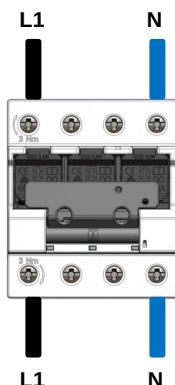
☐ EINPHASIGE ANWENDUNG (Sonderfall) SINGLE PHASE APPLICATION (special case)



3x SICHERUNG einsetzen



Insert
3x FUSE-LINK



TN-SYSTEM, TT-SYSTEM
3x400/230 VAC 50Hz