

Rotary-Toggle

EN



Manual and Safety Instructions

General Information



Read this manual before installing and activating this product.
Respect all safety instructions, local laws and regulations.



The installation may only be executed by qualified electricians.
This product may only be used according to its intended use set forth in this manual.

The following symbols and hazard statements are used in this installation, operating and safety instructions.

Hazard statements



Danger

Indicates a hazardous situation which, if not avoided, will result in death or serious personal injury.



Warning

Indicates a hazardous situation which, if not avoided, could result in death or serious personal injury.



Caution

Indicates a hazardous situation which, if not avoided, could result in minor or moderate personal injury.

Notes



A blue or grey circle with a white graphical symbol indicates that an action must be taken.



A red or grey circle with a diagonal bar, possibly with a black graphical symbol, indicates that an action must not be taken or must be stopped.



If these instructions are not observed, it may result in malfunction or damage to the equipment.

The hazard statements are structured in the following way:

Signal Word

Description of Hazard

Consequence of ignoring the warning.

Action to avoid the hazard.

Technical Data

Housing material:	Polycarbonate		
Protection class:	IP 45		
	CEE 16 A	CEE 32 A	2 x M32
Length	290 mm	305 mm	275 mm
Width:	87 mm		
Height:	88 mm		
Weight	Ca. 950 g	Ca. 1000 g	Ca. 900 g
Mechanical service life:	1 x 10 ⁵ switching cycles		
Nominal operating voltage:	50–690 V AC *)		
Nominal operating current:	Min. 0,1 A, Max. 25,0 A		
Perm. power frequency:	50 - 500 Hz		
Temperature range:	0...+ 40 °C		
Magnetic tripping;	Yes		
Temp. compensation:	Yes		
Trip time:	See chart		
Max. back-up fuse rating:	See table		
Cable entry:	M 32 x 1,5		
Clamping range:	8 – 18 mm		
	Single core	Fine stranded	
Cross-sectional area of main conductor:	1 x 1,0...6,0 mm ²	1 x 0,75...4,0 mm ²	
	2 x 1,0...6,0 mm ²	2 x 0,75...4,0 mm ²	
Approval for motor protection switch:	01 ATEX 3307		
*) Only applies to the motor protection switch; the nominal voltage is defined by the plug attachment and the phase sequence unit.			
Technical data subject to change			

Table 1

Warnings

DANGER

Death or serious personal damage



- The device may only be installed, serviced and commissioned by a suitably trained specialist taking into account the local regulations and technical regulations. The "5 safety rules" must be observed
- Before any intervention or opening of the device, it must be switched off using the on / off switch, the power supply must be interrupted by pulling the mains plug and secured against being switched on again
- Maximum current rating must not be exceeded

Warning



- Set the tripping dial to the corresponding motor voltage (See chart)
- Overcurrent and residual current protective devices must be provided by the customer, according to standards, the cable length between the protective devices and the motor protection plug must not exceed 3m



Notes

- Never use oils, grease or any kind of solvents, these substances have negative effects on the plastics rigidity

Intended use

The NOLTA Rotary Toggle has been specially designed for the protection of Motors through thermal and magnetic release.

This electric device was developed, constructed and build for an industrial and commercial use.

A personal or household use is prohibited.

Intended use includes obeying the provided operations manual as well as any maintenance intervals and procedures where specified.

Installation

- Electrical connection and fault repairs must be only carried out by a qualified electrician.
- Before working on the equipment, the motor protection plug must always be disconnected from the power supply.
- The maximum fuse rating must be noted and taken heed of by the user (table).
- The nominal motor current I_N must be set within the tripping range.
- The motor must be connected in accordance with the wiring diagram.
- Attention: Never use oil, grease or any kind of solvents. These substances have negative effects on the plastics rigidity.

Maximum Fuse Rating									
from A	to A	230 VAC/ AgG	400 VAC/ AgG	440 VAC/ AgG	500 VAC/ AgG	690 VAC/ AgG			
0,10	0,16	Short-circuit protection: No fusing necessary up to ICC = 100 kA							
0,16	0,25								
0,25	0,40								
0,40	0,63								
0,63	1,00								
1,00	1,60								
1,60	2,50						25	25	25
2,50	4,00						25	25	25
4,00	6,30						63	63	40
6,30	10,0	63	63	50					
8,00	12,0	80	80	63	63	50			
10,0	16,0	80	80	63	63	63			
16,0	20,0	125	125	125	125	80			
20,0	25,0	125	125	125	125	100			
25,0	32,0	125	125	125	125	100			

Table 2

Circuit Diagram

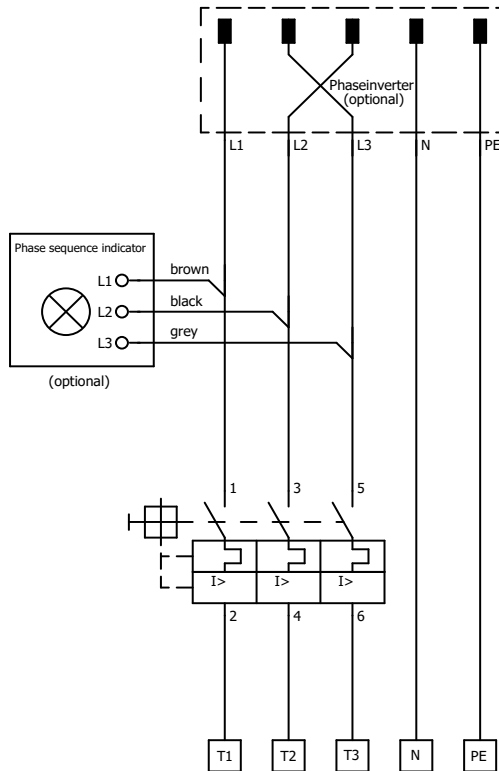


Figure 1

Operation

Rotary switch for manual On/Off switching

OFF = Rotary switch on "O"

ON = Rotary switch on "I"

For integrated phase-sequence indicator and phase inverter:

Red light flashes = phase sequence incorrect

The direction of rotation is changed by lightly pressing and turning the pole pins in the socket.

After a current overload, the motor safety switch cannot be switched on again until the bimetallic strip has cooled down. This may take a few minutes.

The integrated motor protection device is certified to switch motors in ATEX zones 1 (01ATEX3307)

The „NOLTA Rotary Toggle“ itself must remain outside of the hazardous zone!

Tripping Characteristics

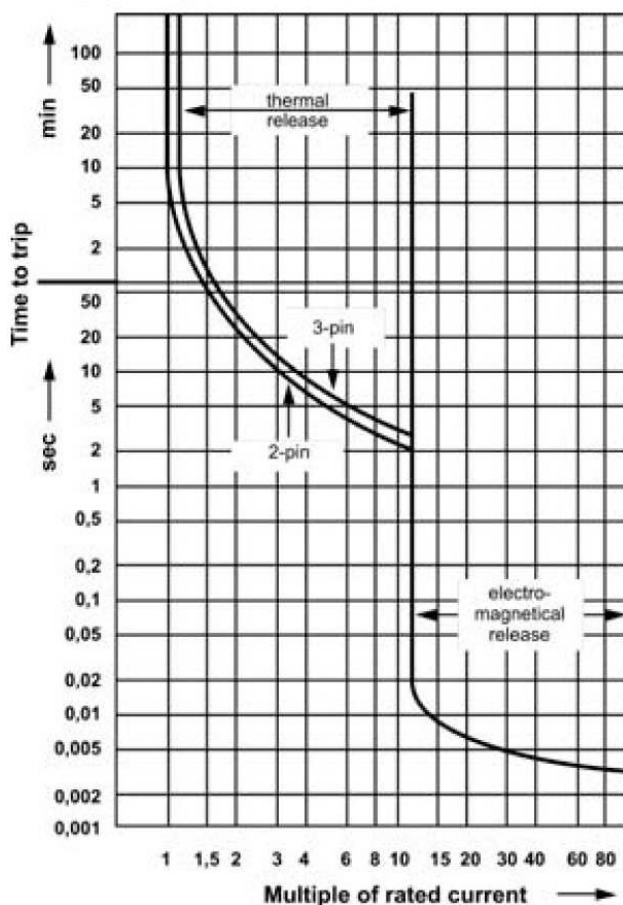


Figure 2

Disposal

This product or parts of it must be disposed of in an environmentally sound way: Use the public or private waste collection service. If this is not possible, please contact your NOLTA dealer.



EU Declaration of Conformity

We hereby declare that the Nolta – Drehknebel specified below will, due to its design and construction, comply with the relevant regulations listed.

Product Designation

Nolta – Drehknebel

Manufacturer

Nolta GmbH
Industriestr. 8
D-35091 Cölbe

EU directives / Harmonized standards /
national techn. Standards - Specifications

Low Voltage Directive 2014/35/EU

EN 61010-1:2010 + A1:2019 +
A1:2019/AC:2019

Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements (IEC 61010-1:2010 + COR:2011 + A1:2016, modified + A1:2016/COR1:2019)

EN 82079-1:2012

Preparation of instructions for use – Structuring, content and detailed requirements (IEC 82079-1:2012)

Electromagnetic Compatibility Directive – Directive 2014/30/EU

EN 61000-6-2:2005 + AC:2005

Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments (IEC 61000-6-2:2005)

EN 61000-6-4:2007 + A1:2011

Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments (IEC 61000-6-4:2006+A1:2010)

EN 60204-1:2006

Referring to Chapter 4.4.2 Electromagnetic compatibility (EMC)

EN 61439-1:2011

Referring to Appendix J

Restriction of use of certain hazardous substances in electrical and electronic equipment (RoHS) – Directive 2011/65/EU & 2015/863/EU

Authorized representative
Name and address

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We confirm that a CE mark according to the European directives is affixed to the above mentioned Nolta - Drehknebel.

26.05.2025

Date

CEO

Dipl. Ökon. (FH) Felix Bonn

Head of Quality Management

D. Loechelt