NOLTA

# Rotary-Toggle Pro

EN


# Manual and Safety Instructions

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# 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.

The hazard statements are structured in the following way:

**Signal Word**
**Description of Hazard**
Consequence of ignoring the warning.
Action to avoid the hazard.

## 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.

# Technical Data

| | | | |
|---|---|---|---|
| Housing material: | Polycarbonate | | |
| Protection class: | IP 44 | | |
| | CEE 16 A | CEE 32 A | 2 x M32 |
| Length | 290 mm | 305 mm | 275 mm |
| Width: | 87 mm | | |
| Height: | 95 mm | | |
| Weight | Ca. 950 g | Ca. 1000 g | Ca. 900 g |
| Mechanical service life: | 1 x $10^5$ switching cycles >10A<br>5 x $10^4$ switching cycles <32A | | |
| Nominal operating voltage: | 50–690 V AC*) | | |
| Nominal operating current: | Min. 0,1 A, Max. 25,0 A | | |
| Perm. power frequency: | 50 - 400 Hz | | |
| Temperature range: | 0...+ 40 °C | | |
| Magnetic tripping; | Yes | | |
| Temp. compensation: | Yes | | |
| Trip indication "Trip" | Yes | | |
| Trip time: | See chart | | |
| Max. back-up fuse rating: | See table | | |
| Cable entry: | M 32 x 1,5 | | |
| Clamping range: | 8 – 18 mm | | |
| Cross-sectional area of main conductor: | Single core | Fine stranded | |
| < 16A | 1,0…4,0 mm² | 1 x 0,75…2,5 mm² | |
| > 16 A | 1,0…6,0 mm² | 2 x 0,75…6,0 mm² | |
| Approval for motor protection switch: | CE / BVS 14 ATEX E009 | | |
| *) 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

# 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.

<table>
<tr><td colspan="7">Maximum Fuse Rating MS132</td></tr>
<tr><td>from A</td><td>to A</td><td>230 VAC/ AgG</td><td>400 VAC/ AgG</td><td>440 VAC/ AgG</td><td>500 VAC/ AgG</td><td>690 VAC/ AgG</td></tr>
<tr><td>0,10</td><td>0,16</td><td colspan="5" rowspan="7">Short-circuit protection:<br>No fusing necessary up to ICC = 100 kA</td></tr>
<tr><td>0,16</td><td>0,25</td></tr>
<tr><td>0,25</td><td>0,40</td></tr>
<tr><td>0,40</td><td>0,63</td></tr>
<tr><td>0,63</td><td>1,00</td></tr>
<tr><td>1,00</td><td>1,60</td></tr>
<tr><td>1,60</td><td>2,50</td></tr>
<tr><td>2,50</td><td>4,00</td><td colspan="2" rowspan="6"></td><td>35</td><td>35</td><td>32</td></tr>
<tr><td>4,00</td><td>6,30</td><td>63</td><td>63</td><td>50</td></tr>
<tr><td>6,30</td><td>10,0</td><td>100</td><td>100</td><td>50</td></tr>
<tr><td>8,00</td><td>12,0</td><td>100</td><td>100</td><td>63</td></tr>
<tr><td>10,0</td><td>16,0</td><td>125</td><td>125</td><td>63</td></tr>
<tr><td>16,0</td><td>20,0</td><td>125</td><td>125</td><td>80</td></tr>
<tr><td>20,0</td><td>25,0</td><td>125</td><td>125</td><td>125</td><td>125</td><td>100</td></tr>
<tr><td>25,0</td><td>32,0</td><td>125</td><td>125</td><td>125</td><td>125</td><td>100</td></tr>
</table>

Table 2

# Circuit Diagram

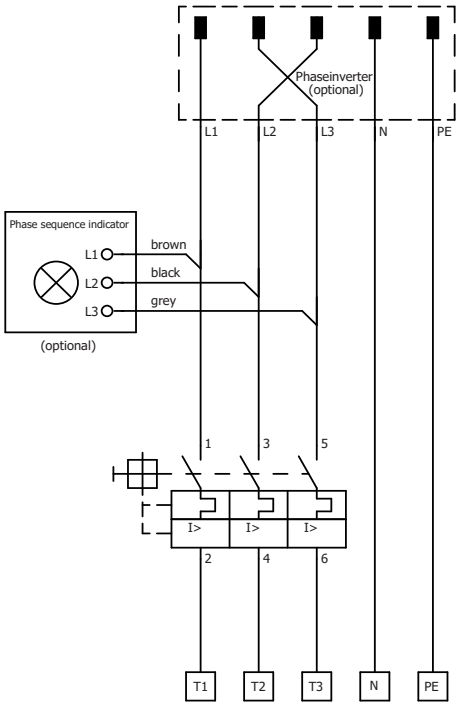


Figure 1

# Intended use

The NOLTA Rotary Toggle Pro 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.

# Operation

**Rotary switch for manual On/Off switching**
OFF = Rotary switch on "O"
ON = Rotary switch on "I"
Trip = Rotary switch thermal released
**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.

**Correction factor diagram for frequencies other than 50 / 60 Hz**
Operating frequencies other than 50/60 Hz affect the electro-magnetic short-circuit tripping of the motor protection switch. The higher the frequency the higher the tripping currents. The tripping values at standard frequencies must therefore be calculated using the appropriate correction factors (in accordance with the correction curve). The thermal trip, however, remains unchanged.

The integrated motor protection device is certified to switch motors in ATEX zones 1 (BVS 14 ATEX E009/IECEx BVS 17.0072)
The „NOLTA Rotary Toggle Pro“ itself must remain outside of the hazardous zone!

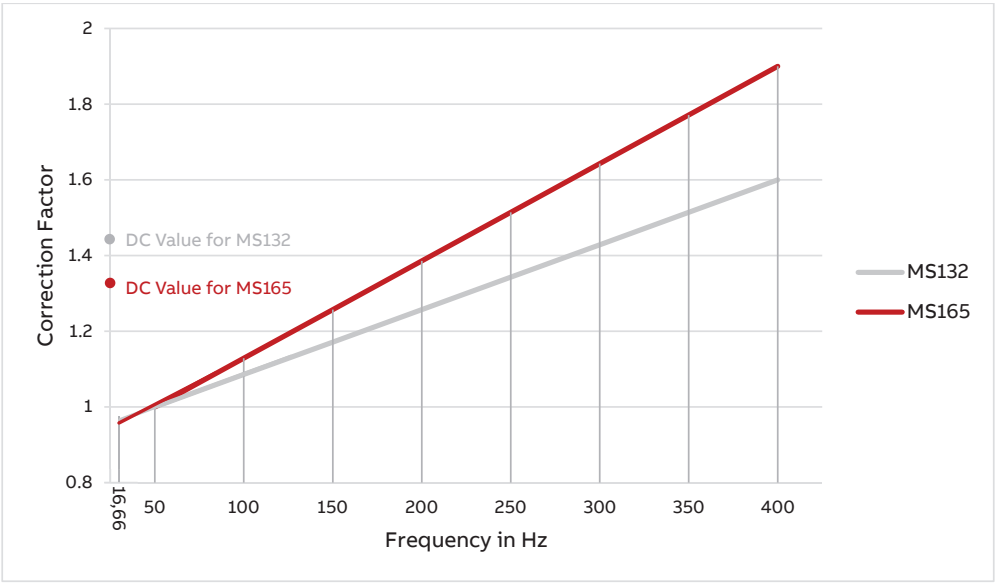


Figure 2

# Tripping Characteristics

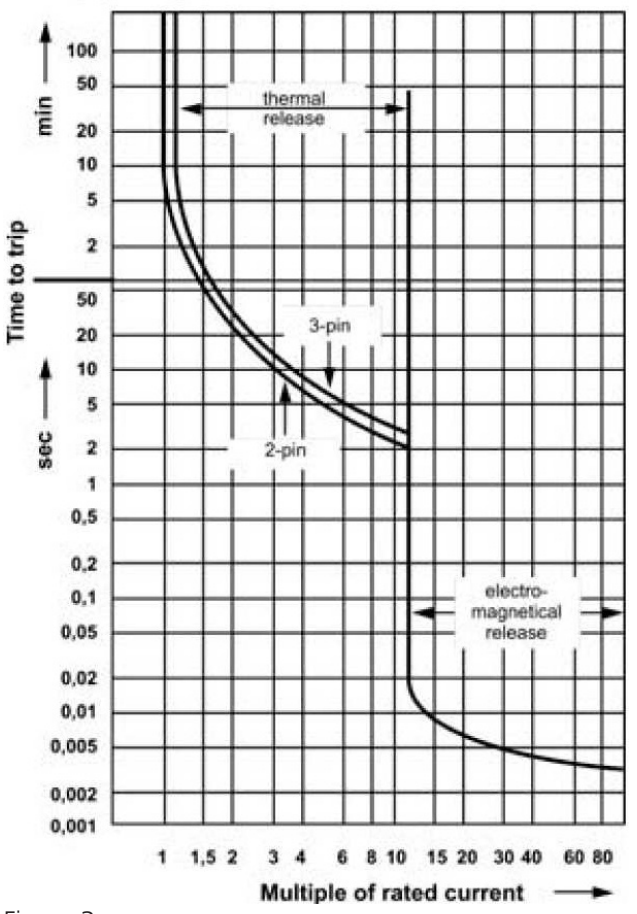


Figure 3

# 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.

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# 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**<br>Industriestr. 8<br>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 Electromagneitc 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<br>Name and address | David Loechelt<br>Nolta GmbH<br>Industriestr. 8<br>D-35091 Cölbe |

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