doc no.: 090750B







Danger! Never carry out work on live parts! Danger of fatal injury! The product must not be used in case of obvious damage! To be installed by an authorized person only!

- The full operation manual is available at: http://www.tele-online.com/resources/data-sheets/en_na003.pdf
- This Quick Start Guide does not replace the manual and the owner should read in conjunction with the whole Manual.
- The safety instructions are to be observed

Intended use:

The TELE NA003-M64 is a multinational grid and system protection unit, that protects energy generation plants (like combined heat and power plants, wind generators, waterpower plants, photovoltaic plants). In case of power failures or net anomalies, power gererating plants have to be disconnected immediately from the mains supply to avoid unintentional feeding to the grid. On the one hand continuing grid feeding could endanger maintenance staffs, on the other hand connected devices could be exposed to inadmissible voltages and/or frequencies.

In case the grid operator requires thresholds and settings that are not conforming with the local standards, it is possible to set thresholds outside the normative defined range!

Outside these range the device is not in accordance with the standards anymore and the corresponding certificate loses validity! This state is indicated as "ncnf" [none conformity] on the display. Settings outside the conformity range are therefore in responsibility of the operator respectively the acceptance authority!

Safety advice:

The device was developed, produced and tested in accordance to the latest industry standards. Nevertheless improper handling or use can endanger humans and machines.

Please use the device only in accordance with the installation and operating instructions. Check for secure assembly and good condition. Moreover, the rules and regulations on accident prevention applicable to the place of use must be strictly followed.

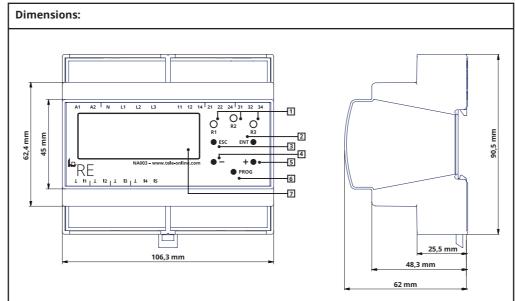
- Eliminate all faults immediately which may endanger safety!
- Do not make any unauthorised changes and only use replacement parts and optional accessories purchased from or recommended by TELE!
- In case of obvious damage the device must be checked and replaced if necessary!
- Country specific regulations have to be considered in any case!
- If required by national standards, the NA003 has to be protected against unauthorized changes by password and/or sealing!

Mounting on DIN rail according to EN 60715:

Snap the rear mounting clip of the device into place in such a way that a safe and tight fit is ensured.

Available configurations/Local standards:

CEI 0-21:2019, VDE 0126-1-1:2013, VDE 0124-100:2013, VDE 4105:2018 <50kW, VDE 4105:2018 >50kW, VDE 4105:2018 Umr, G59/3/3:2015 LV, G99/1/3:2018 LV, G59/3/3:2015 MV, G99/1/3:2018 HV, G83/2:2012, G98/1/2:2018, C10-11:2012 LV, C10-11:2019 LV-IP, C10-11:2019 LV-ASS, C10-11:2012 MV, C10-11:2019 HV-IP, C10-11:2019 HV-ASS, TR3 Rev23:2013, VDE 4110:2018 TR3-25, OVE E 8001/8101:2014, OVE TOR R25 NS SYNC, OVE TOR R25 NS ASYNC, OVE TOR R25 MS SYNC, OVE TOR R25 MS ASYNC, OOE TOR R25 NS SYNC, OOE TOR R25 NS ASYNC, OOE TOR R25 MS SYNC, OOE TOR R25 MS ASYNC, EN50438:2013, EN50438:2013 DK, NRS 097-2-1:2017, AS/NZS 4777.2:2015, OPEN SETUP



Controls elements: Marking Legend Type **Function** R1, R2, R3 LED (yellow) Status indication output relays ENT Pushbutton ENTER. Input confirmation, menu level forward ESC Pushbutton ESCAPE, Input rejection, menu level back, test/reset Pushbutton Change parameters, menu navigation Pushbutton Change parameters, menu navigation PROG Pushbutton (sealable) PROGRAM, enter program mode LCD-Display 4x20 Display characters

Terminals:			
A1, A2	2	Supply	DC: 24V AC: 110 - 230V @ f: 48-63 Hz A1: L (+) A2: N (-)
L1, L2	2, L3, N	Measuring input	U _N : 3x400V AC
11, 12	2, 14	Relay channel A (CO contact) Status indication via yellow LED R1	Isolated changeover contact 11: Common 12: Normally closed contact 14: Normally open contact
21, 22	2, 24	Relay channel B (CO contact) Status indication via yellow LED R2	Isolated changeover contact 21: Common 22: Normally closed contact 24: Normally open contact
31, 32	2, 34	Relay channel D (CO contact) Status indication via yellow LED R3	Isolated changeover contact 31: Common 32: Normally closed contact 34: Normally open contact
11,⊥		Digital input 1 (Feedback contact contactor A)	Contact input (24V/5mA) Input active: I1 connected to ⊥
12, ⊥		Digital input 2 (Feedback contact contactor B)	Contact input (24V/5mA) Input active: I2 connected to ⊥ Does not apply to national standards without functional safety!
13, ⊥		Digital input 3 (Remote disconnection)	Contact input (24V/5mA) Input active: I3 connected to ⊥
14, 15,	Т	Digital inputs 4 und 5 (Parameter switchover)	Applies to CEI 0-21 Contact input (24V/5mA) Input active: I4 or I5 connected to ⊥

Technical data: Supply circuit Supply voltage: Supply voltage tolerance: Nominal consumption: Rated frequency: Tolerance of rated frequency: Rated surge voltage:

250V / 500mA slow blow (soldered) Internal protection:

In order to ensure the proper function during power failures, an external UPS has to be used.

DC: 24V

DC: ± 10%

50 / 60Hz

48 - 63Hz

6 kV

max. 1.25W / 4VA @ 230V AC

Measuring circuit

3 x 400V AC Measuring input:

Input impedance: 1MO

Measurand: line to line voltage, line to neutral voltage,

10 minutes average voltage, frequency, rate of change of frequency (RoCoF), phase shift (PShift)

AC: 110 - 230V

AC: ± 30%

Measuring ranges

0 - 560VAC Line to line voltage: Line to neutral voltage: 0 - 325VAC Frequency: 40 - 65Hz

RoCoF: 100mHz/s ... 2.000mHz/s

1 - 15°

Overload capacity: Permanent 1,4 x U_{Nom} Pulse 1,6 x U_{Nom} (1 second)

Overvoltage category: Rated surge voltage: 4 kV

Digital inputs

Pshift:

potential free Type of contact: Min. switching voltage/ switching current: 24V DC / 5mA

Output circuit

Number of contacts: 3 changeover contacts

Contact material: Rated current: 5A / 250V AC

Electrical endurance: 100 x 10³ switching cycles (AC-1)

15 x 10⁶ switching cycles Mechanical endurance:

Continous current value: Short time value (1s):

Withstanding voltage across open contacts: Relay contacts: 1000V_{rms} Terminals: 450V_{rms}

Overvoltage category: 4 kV Rated surge voltage:

Protection: 5A fast blow

Accuracy

Voltage monitoring:

Base accuracy: < 0,5% @ +25°C Temperature influence: < 0.01% / °C Resolution: 10mV

Frequency monitoring:

< 0,01Hz @ +25°C Base accuracy: Temperature influence: < 0,0002Hz / °C

Resolution:

1mHz

Isolation data

Rated insulation voltage: 400V

Supply circuit / Measuring circuit: protective insulation Supply circuit / Output circuit: protective insulation Supply circuit / Digital inputs: protective insulation Output circuit / Measuring circuit: basic insulation

Output circuit / Digital inputs: basic insulation

Environmental conditions

-25 ... +55°C Ambient temperature operation: Ambient temperature storage: -40 ... +70°C Visibility temperature display: -15 ... +55°C

Relative humidity: 5 ... 95% (non-condensing)

Degree of contamination:

Weight: 300g

Electrical connection

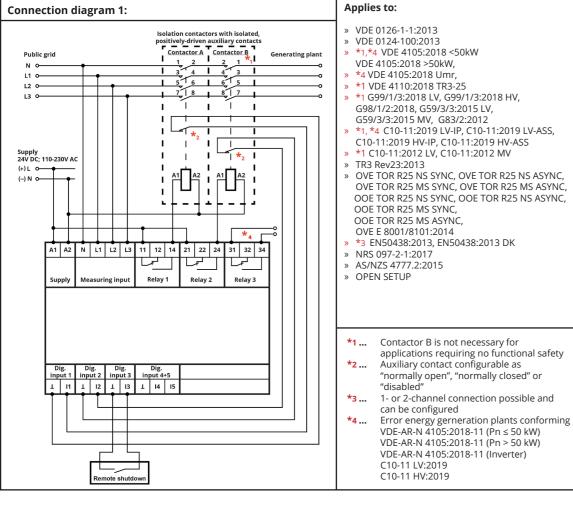
max. 2.5mm² Wire size: Stripping length: max. 8mm

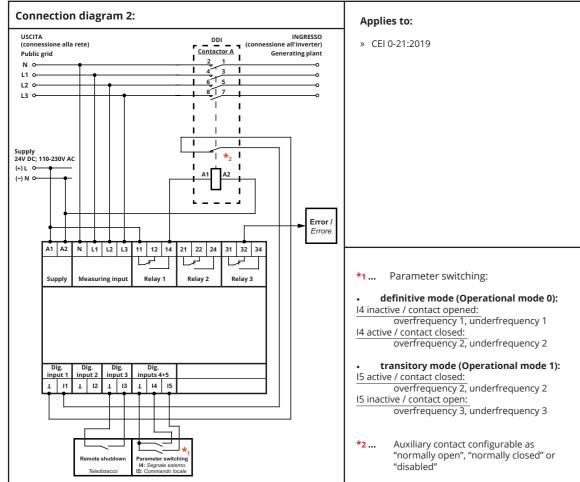
max. 450V/16A (digital inputs; relay outputs) Electrical strength:

max. 750V/16A (measuring inputs)

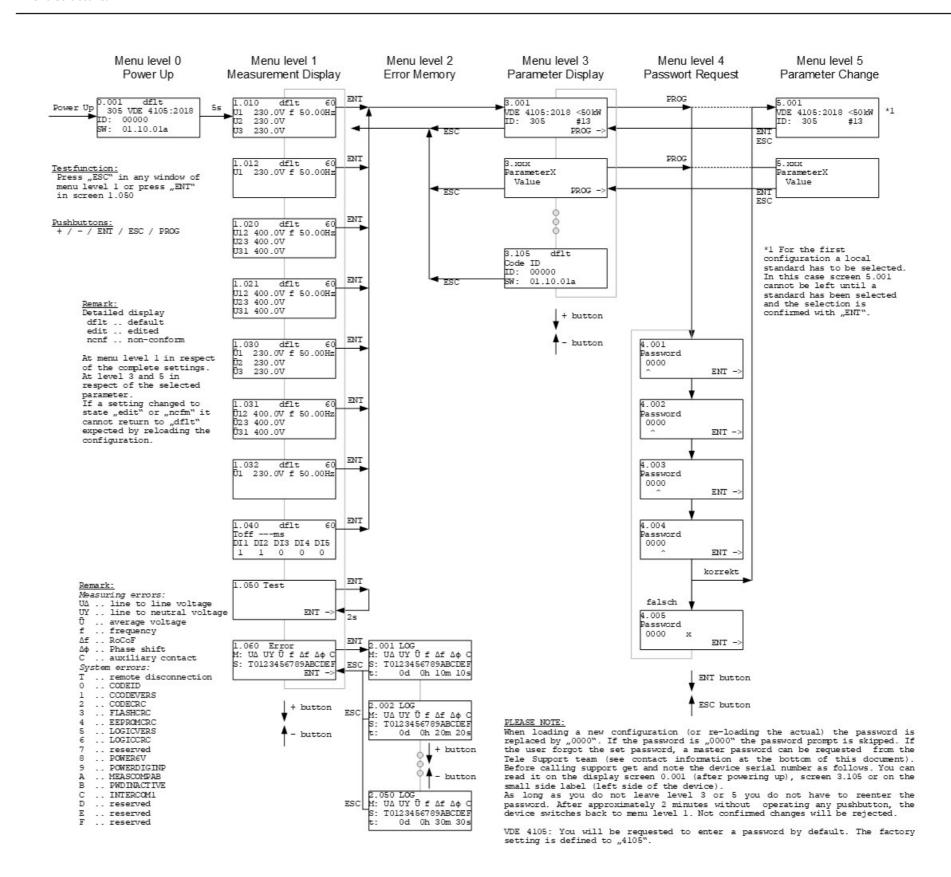
max. 0,5Nm Torque: M3. slot screwdriver 0.6 x 3.5mm Screw:

Protection class Terminals: IP20 Housing: IP20 **NA003-M64**Part No.: 2700100B





Menu structure:



TELE Haase Steuergeraete Ges.m.b.H.

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Subject to alterations and errors. Release 08/2020