





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:
- www.schrack.com search key URNA0345-B This Quick Start Guide does not replace the manual and the owner should read it in conjunction with the full manual.
- The safety instructions are to be observed

Intended use:

The SCHRACK URNA0345 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 SCHRACK!
- 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 URNA0345 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, TA3 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 NS ASYNC, OVE TOR R25 NS SYNC, OOE TOR R25 NS SYNC, OOE TOR R25 NS ASYNC, OOE TOR R25 NS SYNC, OOE TOR R25 NS ASYNC, NS ASYNC, AS/NCS ATT7.2:2015, OPEN SETUP

Dimensions: A1 A2 N L1 L2 L3 0. o Ó E ESC 62,4 45 ě +... SCHPACK 1 H | 1 |2 | 1 |3 | 1 |4 |8 25,5 mm 106,3 mm 48,3 mm 62 mm

Controls elements:

Legend	Marking	Туре	Function	
1	R1, R2, R3	LED (yellow)	Status indication output relays	
2	ENT	Pushbutton	ENTER, Input confirmation, menu level forward	
3	ESC	Pushbutton	ESCAPE, Input rejection, menu level back, test/reset	
4	-	Pushbutton	Change parameters, menu navigation	
5	+	Pushbutton	Change parameters, menu navigation	
6	PROG	Pushbutton (sealable)	PROGRAM, enter program mode	
7		LCD-Display 4x20 characters	Display	

Terminals:			
A1, A2	Supply	DC: 24V AC: 110 - 230V @ f: 48-63 Hz A1: L (+) A2: N (-)	
L1, L2, L3, N	Measuring input	U _N : 3x400V AC	
11, 12, 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, 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, 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	
1,⊥	Digital input 1 (Feedback contact contactor A)	Contact input (24V/5mA), configurable Input active: I1 connected to \bot	
2,⊥	Digital input 2 (Feedback contact contactor B)	Contact input (24V/5mA), configurable Input active: I2 connected to ⊥ Does not apply to national standards without functional safety!	
l3, ⊥	Digital input 3 (Remote disconnection)	Contact input (24V/5mA), configurable Input active: NO->I3 to ⊥ (std); NC->I3 open	
14, 15, ⊥	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: Internal protection: In order to ensure the prope

Measuring circuit Measuring input: Input impedance: Measurand:

Measuring ranges Line to line voltage: Line to neutral voltage: Frequency: RoCoF: Pshift: Overload capacity: Overvoltage category: Rated surge voltage:

Digital inputs Type of contact:

Min. switching voltage/ switc

Output circuit Number of contacts: Contact material Rated current: Electrical endurance: Mechanical endurance: Continous current value: Short time value (1s): Withstanding voltage across of Overvoltage category: Rated surge voltage: Protection: Accuracy Voltage monitoring: Base accuracy: Temperature infl Resolution: Frequency monitoring: Base accuracy: Temperature influ Resolution:

Isolation data Rated insulation voltage: Supply circuit / Measuring ci Supply circuit / Output circu Supply circuit / Digital inputs Output circuit / Measuring c Output circuit / Digital input

Environmental conditions Ambient temperature opera Ambient temperature stora Visibility temperature displa Relative humidity: Pollution degree: Weight:

Electrical connection Wire size: Stripping length: Electrical strength:

Torque: Screw:

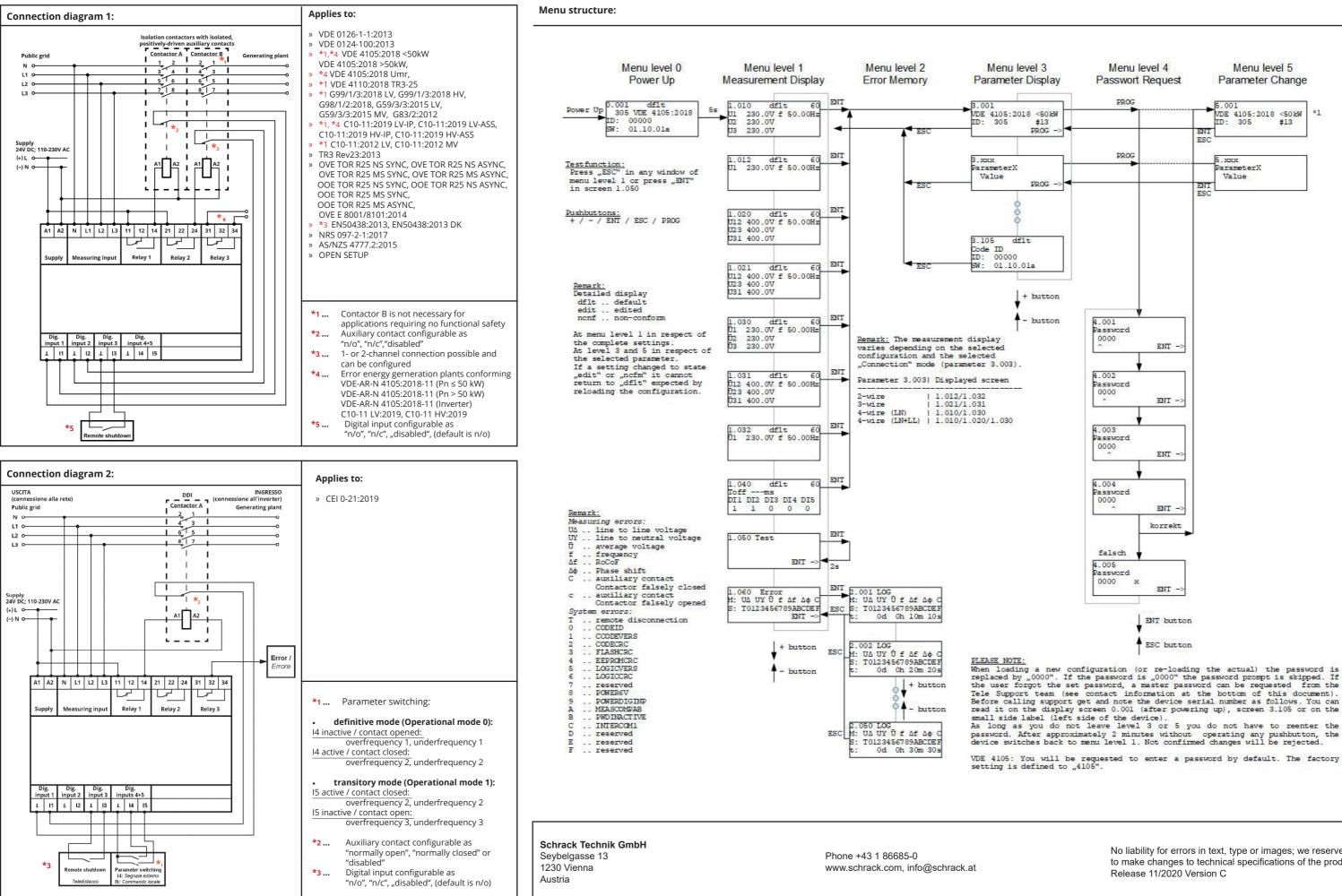
Protection class Seal wire www.schrack.com

	DC 241/ AC 440 2201/				
	DC: 24V AC: 110 - 230V DC: ± 10% AC: ± 30%				
	max. 1,25W / 4VA @ 230V AC				
	50 / 60Hz				
icy:	48 - 63Hz 6 kV				
	250V / 500mA slow blow (soldered)				
er function du	ring power failures, an external UPS has to be used.				
	3 x 400V AC				
	$1M\Omega$ line to line voltage, line to neutral voltage,				
	10 minutes average voltage, frequency,				
	rate of change of frequency (RoCoF), phase shift (PShift)				
	0 - 560VAC				
	0 - 325VAC				
	40 - 65Hz 100mHz/s 2.000mHz/s				
	1 - 15°				
	Permanent 1,4 x U_{Nom} Pulse 1,6 x U_{Nom} (1 second)				
	111 4 kV				
	Isolated, max. wire length <30m, control wiring standards				
	to be taken in account. The \perp are not connectied to each other.				
ching current:	24V DC / 5mA				
	3 changeover contacts				
	AgNi 5A / 250V AC				
	100 x 10 ³ switching cycles (AC-1)				
	15 x 10 ⁶ switching cycles				
	5A 5A				
open contacts:	Relay contacts: 1000V _{rms} Terminals: 450V _{rms}				
	111 4 kV				
	5A fast blow				
	< 0,5% @ +25°C				
luence:	< 0,01% / °C 10mV				
	101114				
	< 0,01Hz @ +25°C				
luence:	< 0,0002Hz / °C 1mHz				
	400V				
circuit:	protective insulation				
uit:	protective insulation				
ts: circuit:	protective insulation basic insulation				
uts:	basic insulation				
ration:	-25 +55°C				
age:	-40 +70°C				
lay:	-15 +55°C 5 95% (non-condensing)				
	2				
	300g				
	max. 2,5mm ²				
	max. 8mm max. 450V/16A (digital inputs; relay outputs)				
	max. 750V/16A (measuring inputs)				
	max. 0,5Nm M3, slot screwdriver 0,6 x 3,5mm				
	Terminals: IP20 Housing: IP20 max. diameter <=1,25mm				



URNA0345-B

Quick Start Guide



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No liability for errors in text, type or images; we reserve the right to make changes to technical specifications of the product!