RKRC 07/12/18
Datasheet

ADDRESS: Ikitelli OSB Mah. Cevre 14. Blok Sok. Telas Blok Dis Kapi No: 1 Kat: 1-2 Basaksehir/Istanbul

Phone: +90 212 438 80 24
Fax: +90 212 438 80 25

info@gruparge.com

V.25.1

1.1. General Features

The RKRC PFC (Power Factor Controller) measures the voltages and currents of three phases, calculates the reactive power drawn by operating loads and provides a effective response through its conventional capacitor and reactor steps it automatically learns. It is a new generation advanced Power Factor Controller (PFC).

Additionally, the RKRC PFC measures and displays parameters such as phase currents, phase-to-neutral and phase-to-phase voltages, frequencies, active and reactive powers, harmonics and phase angle differences between current and voltage. It also offers monitoring capabilities through its communication interface. Furthermore, it measures and records active and reactive energies for both import and export.

The PFC records demand and peak values for these measured line parameters, which can be viewed directly on the device.

Many necessary adjustments related to the device (Current Transformer Ratio, Measurement and Line Voltages, Compensation Parameters, etc.) can be made either through individual menus or collectively via the "Assistant" section.

Thanks to its communication capability, all read parameters can be remotely monitored via standard MODBUS protocols and various adjustments can be performed.

Alarms can be generated through various set values configured in the device menu. The compensation process can enable or disable measurement recovery features for protection against disconnections and connection losses.

1.2. Technical Features

- Uninterrupted safe compensation with detection of current and voltage connection errors thanks to three phase supply technology.
- Hybrid compensation with contactors and thyristors with meas-urement, control and management of AC/DC voltage levels of step supply partners.
- Detailed event /warning / error logging support with date and time signature and preventive maintenance.
- Dynamic diagnostics of steps during compensation and automatic value update
- Compensation step synthesis with advanced reactive power profile analysis support.
- Smart menus and userfriendly screens with TFT display.
- Temporary or permanent additional reactive power setting for inductive and capaci-tive loads not seen by the compensation system.
- Slim ergonomic design with a total depth of 43 mm inside the panel including all terminal blocks.

1.3. Technical Drawing

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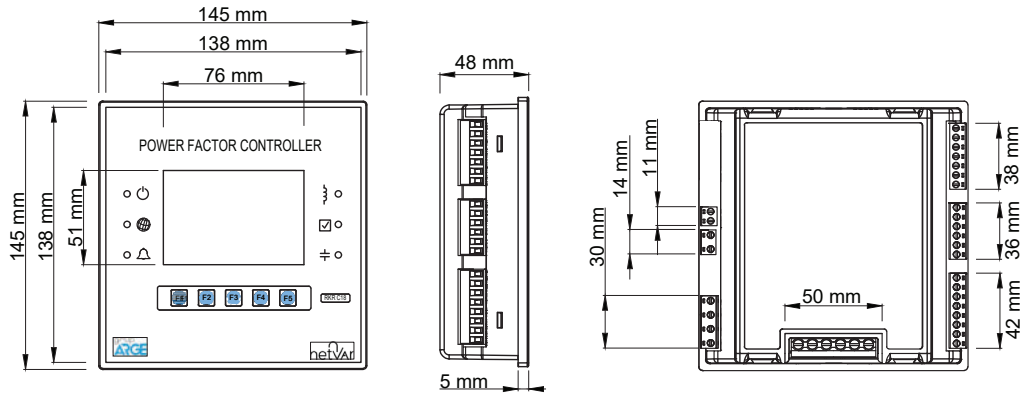

1.4. Connection Diagram

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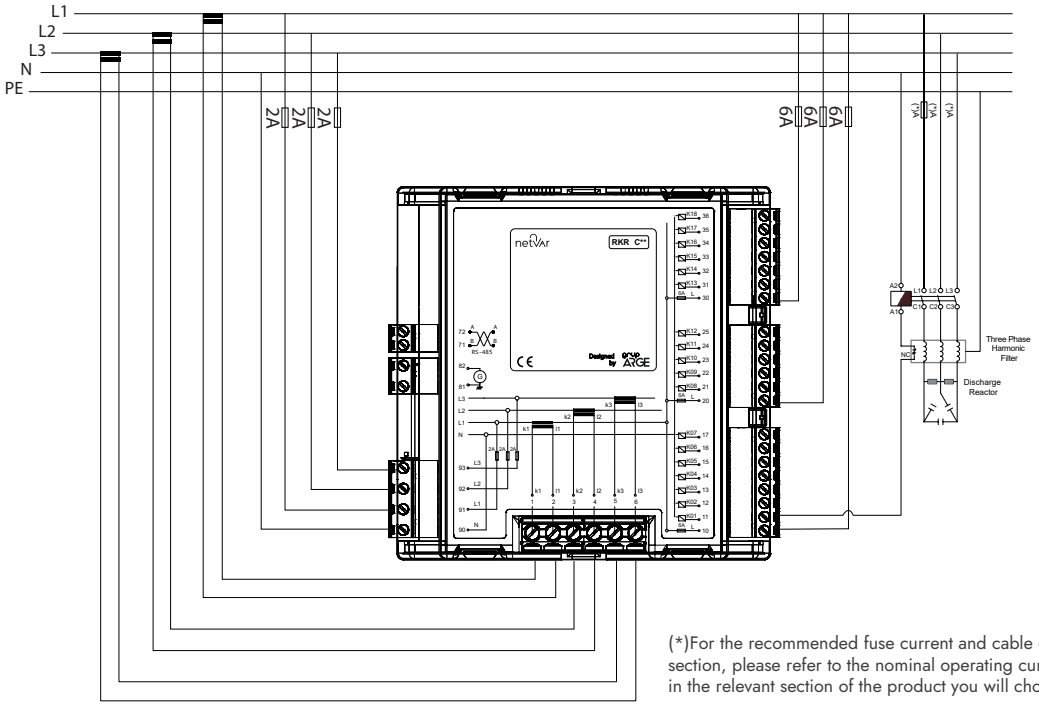

(*)For the recommended fuse current and cable cross-section, please refer to the nominal operating current table in the relevant section of the product you will choose.