



RS-485

FEATURES

- The **KPFI-06L** power factor controllers are instruments used for the measurement and compensation of reactive power in electrical installations, by controlling the activation of capacitor banks.
- Applicable at low, medium, or high voltage, through the programming of Potential and Current Transformer ratios and connection schemes (single-phase measurement, three-phase control).
- **O KPFI-06L** features 6 outputs for bank control.
- It offers two operating modes: control, in which you can select 1 out of 9 activation patterns for the capacitive stages, and auto-initialization, where the controller identifies the reactive power of each bank, as well as the connection diagram applied in the installation, and uses the obtained values as standards for power factor control.

APPLICATIONS

- Control and activation of capacitor banks for power factor correction.

CHARACTERISTICS

INFORMATION

- It includes power factor indication, load characteristics, and alerts for undervoltage, overvoltage, undercurrent, overcompensation, and undercompensation,

CONNECTION TYPES

- The measurements taken by KPFI-06 are single-phase, however, power factor control is carried out considering a three-phase system (star or delta).

INSTALLATION

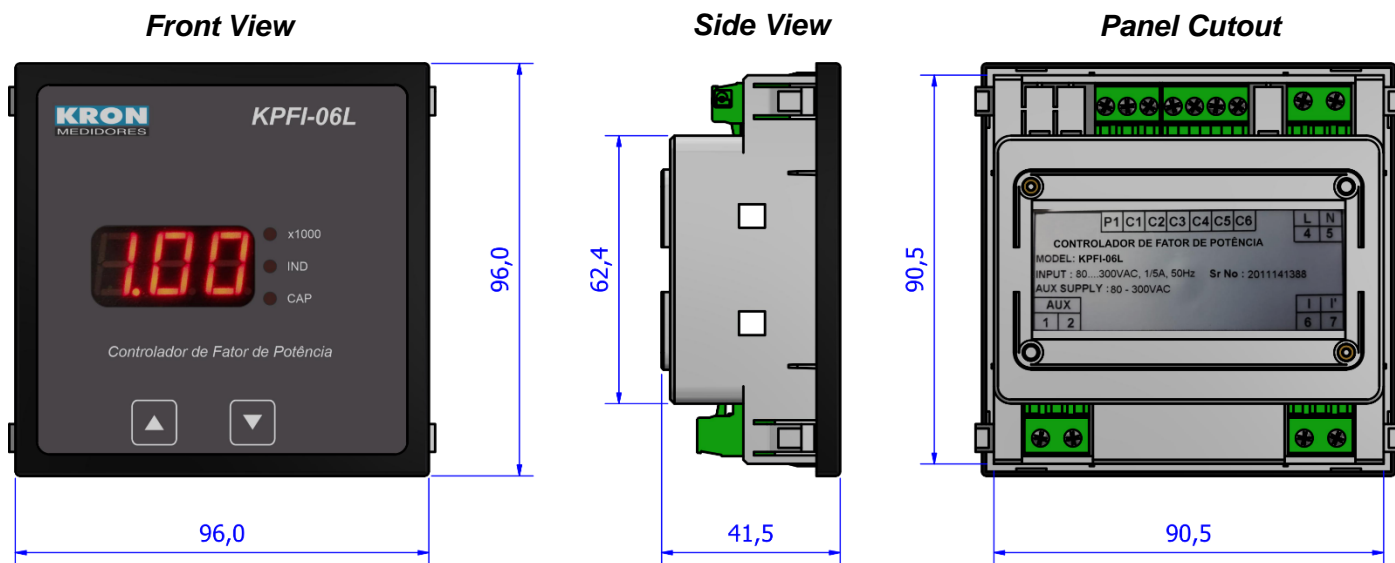
- Panel's Door
- Technical support: get in touch via e-mail, telephone, WhatsApp and YouTube videos

INTERFACES, READINGS & CONFIGURATIONS

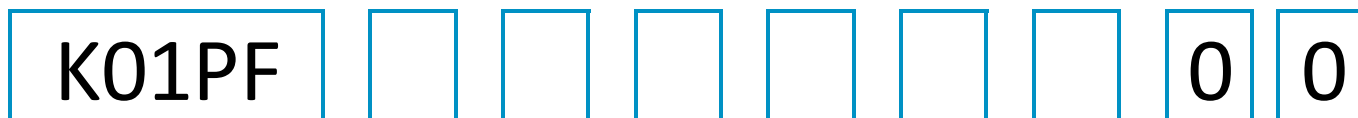
- The HMI consists of a display (LED), indicator LEDs for the type of load measured (inductive or capacitive), and two navigation keys, allowing for local reading and configuration.
- It includes 6 outputs for activation and control of capacitor banks.
- It incorporates a supervision function for parameters related to the following conditions: undervoltage, overvoltage, undercurrent, undercompensation, and overcompensation. The limits are factory-standardized, and the active alarm indication is provided by the display.
- It has two operating modes: control, where you can choose 1 out of 9 distinct programming patterns, or auto-initialization, where the controller identifies the reactive power of each bank, as well as the connection diagram applied in the installation, using the obtained values as standards for power factor control.

RELAY OUTPUTS	<i>Capacitor Banks (power factor correction)</i>	6 outputs for controlling capacitive stages (4A AC / 250V AC). It can be used in two modes: control, where the user selects 1 of 9 pre-defined stage activation patterns or auto-initialization, where the controller identifies the reactive power of each bank, as well as the wiring diagram applied in the installation, using the obtained values as new patterns for power factor control.
	<i>Configuration - power factor of interest</i>	0.8 inductive...0...0.8 capacitive
	<i>Supervisory Alarm</i>	Indication, via display, of the following operating conditions: undervoltage and overvoltage, undercurrent, undercompensation, and overcompensation. Limits: undervoltage - 85%, overvoltage - 110%, undercurrent: 1% of the CT primary.
MEASUREMENTS	<i>Instantaneous</i>	Power factor, with indication of load type (Ind or Cap)
CIRCUIT	<i>Connection Type</i>	Single-phase - 1 current, 1 voltage (L-L or L-N)
	<i>Control</i>	Three-phase (Star or Delta)
	<i>Nominal Voltage / Working Range</i>	Nominal: 240 VAC. Operating Range: 80 to 300 VAC
	<i>Current/Working Range</i>	Nominal: 5 A AC. Operating Range: 10 mA to 6 A AC
	<i>Frequency - Working Range</i>	40 to 70 Hz
	<i>Connection</i>	Quick coupling terminal blocks
	<i>Maximum Cable to be used</i>	2,5mm ²
	<i>Internal Consumption</i>	<0,4VA
	<i>Isolation (inputs and outputs)</i>	2,5 kV – 1 minute
	<i>Voltage – Working Range</i>	80 to 300VAC.
POWER SUPPLY	<i>Internal Consumption</i>	< 8VA
ACCURACY at 25°C (77 °F), referred to the full scale	<i>Power factor</i>	± 2°
	DISPLAY	7 Segments – 3 digits x 3 lines, 14 mm, high brightness
CASE	<i>LED (red)</i>	Thermoplastic
	<i>Material</i>	0,25Kg
	<i>Approximate Weight</i>	IP-50 (Front) e IP-20 (Casing)
ENVIRONMENTAL CONDITIONS	<i>Protection Degree</i>	-20 ... +65°C (-4...149°F) 0 ... +55°C (32...131°)
	<i>Storage and Operating Temperature</i>	15...95% (No condensation)
NORMALIZATION	<i>humidity</i>	IEC 61326-1:2010
	<i>Electrical Parameters</i>	IEC 61010-1:2010 IEC 60529

DIMENSIONS



How to Specify:



Protection Degree:

1: Standard (IP-50 for front and IP20 for casing)

Voltage Input:

1: 240Va.c.

Current Input:

5: 5Aa.c

Frequency:

1: 50/60Hz

Communication:

0: No exits

Power Supply:

1: 80 to 300Va.c.

Standard Model: (Example)

K01PF 1 1 5 1 0 1 0 0

Power Factor Controller KPFI-06L {Protection Degree - Standard} {Voltage Input 550 Vac} {Current Input 5 A ac} {Frequency 50/60Hz} {RS-485} {Power Supply 110 to 550 Vac}

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For the correct use of the product, the User Manual should be consulted before its installation or operation. Some items shown may be optional, and the correct product specification may require the use of the Code.

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