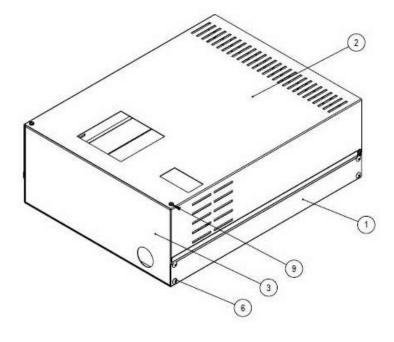


Step by step Instructions for Plug and Play Capacitor Banks

1) Remove Fixing Screws for the front Panel



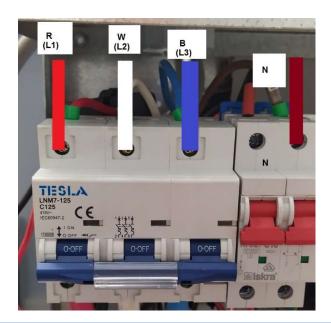
2) Remove or Adjust Cable Entry if Included (IP52 Models)

3) Connect 3 Phase Input Wiring, as per Diagram in Appendix 1

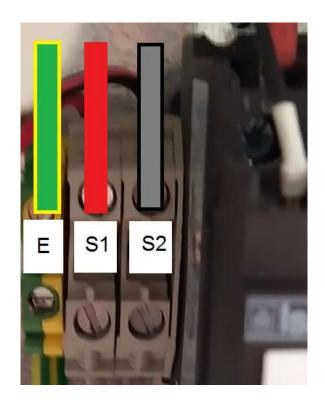
-Connect L1,L2,L3 in sequence as shown on the next page. **Note: You must connect Earth Terminal NO Exceptions**



4) Connect Neutral to the Neutral Terminal or if no neutral terminal to the left side of the 2 Pole MCB



5) Connect Incoming Earth to Earth Terminal (Mandatory for Australian Installtions)

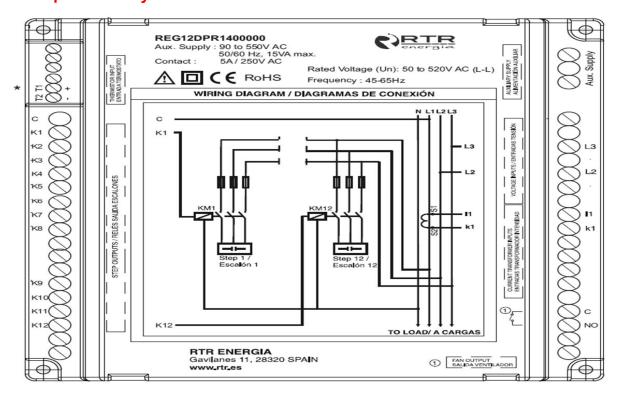




6) Connect CT to S1 and S2 Terminals

-Note the CT Must be connected close to the switchboard in order to measure the full load current on the switchboard.

-5 Amp Secondary CT's Must be used



7) PFC Controller Operation

Note the PFC Controller will not operate without CT Current or Aux power supply connected. You can Isolate the contactor circuit by switching off the auxiliary 1Pole/2Pole MCB. Once the correct voltage and Ct Connections are made the controller is completely plug and play.



In order to make adjustments to the PFC Controller Operation

	Front Panel					
KEYBOARD			Note: Test Mode checks all relays			
	O	Press 5s to enter the configuration				
	(a)	Press to increase digits	Note: programming should be done by professional after reading this manual.			
		Press to edit values	SERIAL NUMBER			
	•	and go to the next digit (right).	Press Press to see the serial number of the device.			
		Press to save	AUTOMATIC/MANUAL MODE			
	•		Press for 5 seconds to change mode (Auto / Man). The output relays will be disconnected when switching from one mode to another.			
	© @&@	Press to go back in programming. Press 5s to change AUTO / MAN. Press for 5s to	Press to connect the output relays one by one and to disconnect them (in manual			
		enter Test Mode	mode)			

The controller has 4 keys. Use these keys to enter the configuration mode and make changes.

NOTE: programming should be done by a professional after reading this manual.

DATA SCREENS

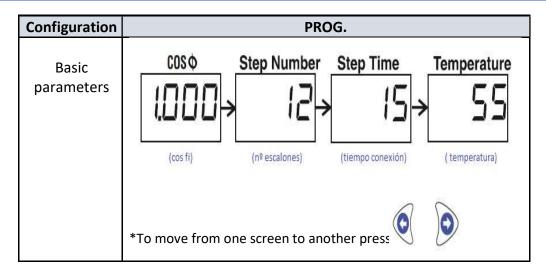
Pulsing	Key	Description
	ı	Power Factor Display
Press once	•	Temperature Display

NOTE: Temperature Display requires a NTC temperature probe to be connected



Press of for 5 seconds to enter configuration mode

CONFIGURABLE SCREENS



SETTING TABLES

Paramater	Range	Default Value
Cos FI	0.800 (ind)	0.95
	a 0.800	
	(cap)	
Step number	1-12	12
Step time	1s-999s	120s
Temperature	10ºC a	55ºC
	70ºC	



SPECIFICATION (PFC Cap Bank)

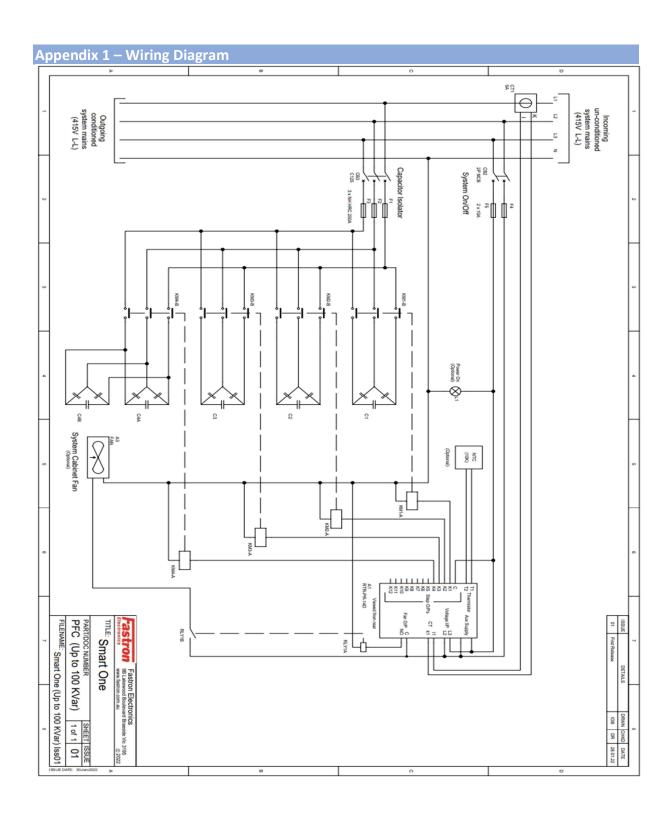
	TECHNICAL CHARACT
Rated Power	50Kvar @ 415VAC
Rated Voltage	230/400/440V. Other
	voltages upon request
Rated Frequency	50Hz/60Hz
Rated Current	According to power
Steps	Up to four steps
General	-Height: 600mm
dimensions	-Width: 360mm
	-Depth: 160mm
Recommended	To define
connection	
Recommended	To define
protection	
Degree protection	IP 21
Color	RAL 1013
Mounting	Indoor
Cable entry	Left side top entry
External CT	Not included/Necessary
Standards	IEC 61921



SPECIFICATION (PFC Controller)

FECHNICAL CHARACTERISTICS	
Display	Liquid crystal display with backlight (4 digits)
Auxiliary supply	90 - 550V Ac
Wiring input	2 phases, 2 wires (L2L3)
Rated input voltage	50 - 520V AC (L2-L3)
Rated input current	5A AC (min 50mA, max 6A)
Burden	20mΩ
Frequency range	45 - 65Hz
Power consumption	Max. 15VA
Over temp. indication	☑ Symbol turns ON
Controlling range	target PF: 0.800 (ind.) to -0.800 (cap.)
	Switching program: Automatic
Alarm	Over temperature error
	E01: phase current error
Environmental conditions	Outdoor use
	Temperature-operating: 0 − 60ºC
	Temperature-storage: -20 − 60°C
	Humidity: 0 – 95%
Mounting	Panel mounting
Dimensions	144x144x50 mm





For Further Clarification Contact Fastron sales@fastron.com.au 0397635155