

Digital Power Factor Controller

PFR5ELC00006

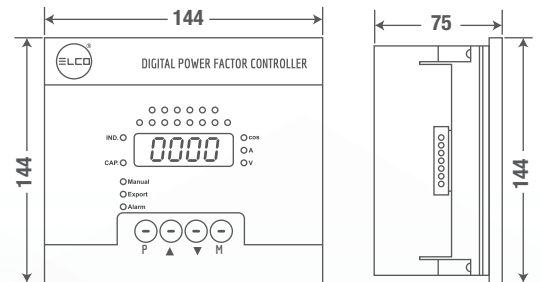
PFR5ELC00014



Measurement

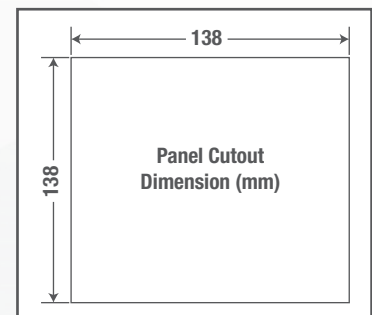
- Full Measurement Range Of Cos ϕ (0.0 Inductive - 0.0 Capacitive)
- Phase To Neutral Voltage And Current
- Reactive Power
- Total Harmonic Distortion (THD) For Voltage And Current
- Harmonic Spectrum Info Up To 19th Order For Voltage And Current
- Capacitor Harmonic Load Factor (CHL)
- Switching Sensitivity From Range Of 5 - 1200 Seconds
- Ambient Temperature
- Power Factor Compensation For Inductive And Capacitive
- Programmable Cos ϕ Desired (0.8 Inductive - 0.8 Capacitive)
- Step Switching Operation Mode
 - Auto (Rotational, Linear, Four-Quadrant)
 - Manual
- Automatic Connection Configuration Detection
- Automatic Step Power Recognition For Both Capacitor And Choke
- Automatic CT Polarity Correction
- Two Tariff Settings For Power Import And Export Mode
- Control Bandwidth (Anti-Hunting Function)
- Programmable Fixed Steps
- Programmable Fan And Alarm Relay
- LED Indication For Individual Step
- Working Temperature From Range Of -40°C To $+60^{\circ}\text{C}$

Dimension (mm)



Front View

Side View



Panel Cutout Dimension (mm)

	Parameters	PFR5ELC00006	PFR5ELC00014
Adjustable Parameters	Power Factor Desired	0.80 Inductive - 0.80 Capacitive	
	Connection Time	5 - 1200 Seconds	
	Reconnection Delay Time	5 - 1200 Seconds	
	Operation Mode	Automatic Mode (Rotational, Linear, Four- Quadrant); Manual Mode	
Ranges, Accuracy	Power Supply And Voltage Measurement	90 - 275 VAC; 43 – 67HZ; 7VA	
	Voltage Measurement Accuracy	+/-1% Of Range, +/- 1 Digit	
	Measuring Voltage Loss Response Time	≤ 20 ms	
	Measurement Current (Galvanically Isolated)	0.02 - 7 A	
	Current Input Serial Impedance	< 10 mΩ	
	Current Measurement Accuracy • Range 0.5 – 7A • Range 0.02 - 0.5 A	+/- 0.02A, +/- 1 Digit +/- 0.002A, +/- 1 Digit	
	Maximum Phase Angle Error (Power Factor And Powers Measurement)	+/-1° At I > 3 % Of Range; Otherwise +/-3°	
	Voltage And Current Harmonic Measurement	Up To 19th Harmonic	
	Harmonic Component And THD Measurement Accuracy	±5 %, ± 1 Digit (For U, I > 10 % Of Range)	
	Temperature Measurement Range And Accuracy	-30 - +60 °C, ± 5 °C	
	Number Of Output Relays	6	14
	Output Relay Load Rating	250 VAC / 4 A	
Installation Category / Level Of Pollution	In Compliance With Standard: EN 61010-1, III-2		
Operating Conditions	Operating Temperature	-40° - +60°C	
	Relative Humidity	5 - 100 %	
Electromagnetic Compatibility, EMC	Noise Suppression Level	In Compliance With Standard: EN 50081-2 EN 55011, Class A EN 55022, Class A	
	Immunity	In Compliance With Standard: EN 61000-4-2 Ed.2:2009 EN 61000-4-3 Ed.3:2006+A1+A2 EN 61000-4-4 Ed.3:2013 EN 61000-4-5 Ed.3:2015 EN 61000-4-6 Ed.4:2014 EN 61000-4-11 Ed.2:2005	
	Emission	In Compliance With Standard: EN 55011 Ed.3:2010, Class A EN 55022 Ed.3:2011, Class A	
Physical	Enclosure • Front Panel • Back Panel	IP 40 IP 20	
	Dimensions • Front Panel • Built-in Depth • Installation Cutout	144 x 144 MM 75 MM 138 ⁺¹ x 138 ⁺¹ MM	
	Mass	Max. 0.7 Kg	