APFC347

Automatic Power Factor Controller

PRELIMINARY DATASHEET

96 x 96mm

Features:

- 1 phase current sensing
- Supports Intelligent Algorithm
- Automatically switches between various capacitor banks
- 8 steps
- Dual Password Protection
- Configurable alarm setting
- Alarm indication on display

Certifications: CE

Display Specifications

Type of Display	7 Segment LED
Digits	4 digits 1 Row
No. of LED	8 + 1 + 1

Input Specifications

Rated Input Voltage	40-300V (L-N), 50-520V (L-L)
Rated Input Current	Nominal 5A AC (Min 50mA, Max 6A)
Frequency	45-65 Hz
Burden	20 mOhms
Wiring Input	L-L / L-N
Accuracy	Power factor: ±0.01
Measurement Range	
Power Factor	0.8 lag to 0.8 lead
Alarm Indications	
	Over Voltage, Under Voltage, Under Compensate, Over Compensate, CT Polarity Error, Current Absent indication
Settable Parameters	
CT Primary	1 / 5A to 9999A (Programmable for any value)
CT Secondary	1 or 5A (Programmable)

Output Specifications

Output Contacts	NO, One common point Max fuse 6A
Steps	3 to 08
Relay Contact	5A @ 250 VAC

Auxiliary Supply Specifications

Input voltage range	85 - 270 VAC
Consumption	7 VA max
Frequency	50-60 Hz

Control Specifications

Target PF	0.8 lag to 0.8 lead
Control Sensitivity	55 to 100%
Step time	1 to 999 sec
Discharge time	1 to 999 sec
Switching program	Automatic / Linear / Rotational
Control Mode	Automatic / Manual
Auto initialization	Yes / No

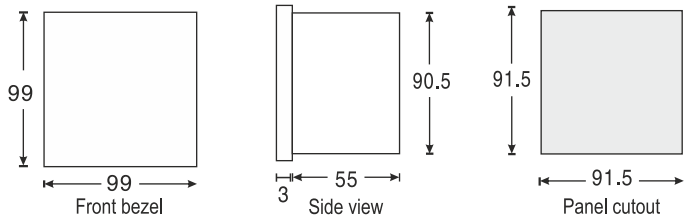
Environmental Specifications

Temperature	Operating	0 °C to 60 °C
	Storage	-20 °C to 60 °C
Humidity(non- Condensing)	up to 95% RH	

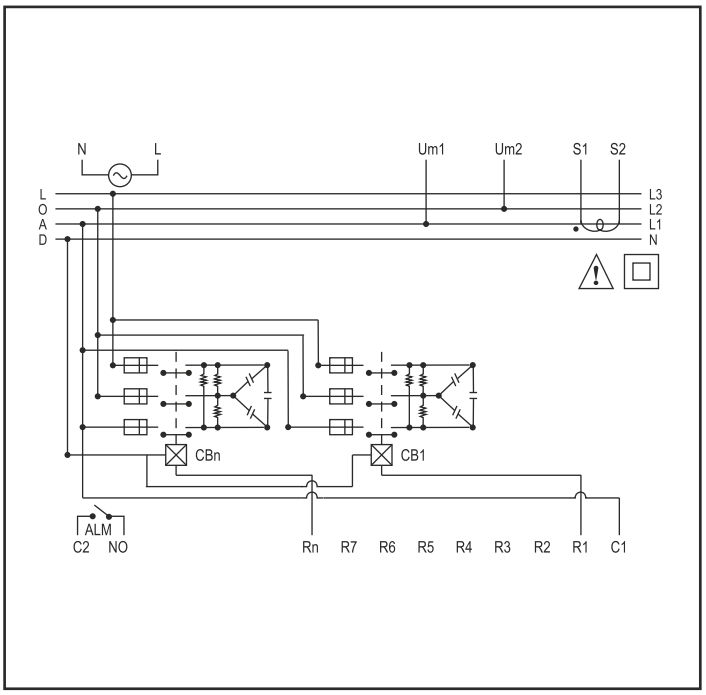
Mechanical Specifications

Mounting	Panel mount
Weight	APFC347 -108 : 263gms

Dimensions (in mm)



Terminal Connections



Ordering Information

Product Code	Supply Voltage	No. of stages	Certification
APFC347-108-230V-CE-RoHS	85 - 270V AC, 50/60HZ	08	CE

Compliance

Applicable EMI / EMC Standards		
Product Standard : IEC 61326-1		
Category		**Standards Compliance**
ESD Immunity	IEC 61000-4-2	Level IV (Air discharge : 15kV), (Contact Discharge : -8kV)
Surge Immunity	IEC 61000-4-5	+/- 2kV common mode, (Line to ground) +/- 1kV differential mode, (Line to Line)
Radiated Susceptibility	IEC 61000-4-3	Level III, 80 to 1000MHz (10V/m) Level II, 1.4GHz to 2GHz (3V/m) Level I, 2GHz to 2.7GHz (1V/m)
Conducted Susceptibility	IEC 61000-4-6	Level II (3V/m)
Voltage Dips and Interruptions	IEC 61000-4-11	**Dips** : 0% residual voltage / 1 cycle (Criteria B), 40% residual voltage / 10 cycles 50Hz / 12 cycles 60Hz (Criteria C) 70% residual voltage / 25 cycles 50Hz / 30 cycles 60Hz (Criteria C) **Interruptions** : 0% residual voltage / 250 cycles 50Hz / 300 cycles 60Hz (Criteria C)
Conducted Emission	CISPR-11	
Radiated Emission	CISPR-11	
Electrical Fast Transient	IEC 61000-4-4	Level III (2kV)