Power Factor Controller

APFC347



96 x 96mm

Features :

- 1-CT Sensing
- Zero Programming
- 4 digits LED display
- 8 Relay stages available
- Intelligent Algorithm System
- Supports Automatic Capacitor Banks switching
- Alarm Indications

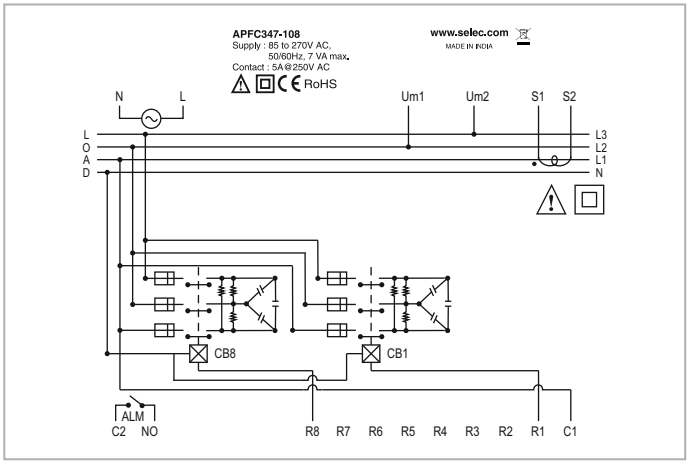
Certifications : CE RoHS compliant

Technical specifications

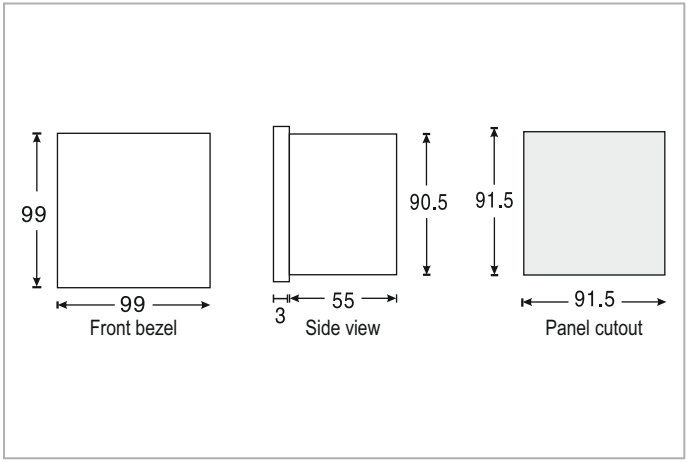
Display specifications	
Type	7 Segment LED
Digits	4 digits 1 Row
No. of LED	8 + 1 + 1
Operational characteristics	
Rated input voltage	40-300V (L-N), 50-520V (L-L)
Rated input current nominal	5AAC (Min 50mA, Max 6A)
Frequency	45-65 Hz
Burden	20 mOhm
Wiring input	L-L / L-N
Accuracy power factor	±0.01
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 8
Relay contact	5A @ 250VAC (Max)
Auxiliary supply specifications	
Input voltage range	85 - 270VAC
Consumption	7VA max
Frequency	50-60 Hz
Control specifications	
Target PF	0.8 lag to 0.8 lead
Control sensitivity	60%
Step time	5 to 999 sec
Discharge time	5 to 999 sec
Switching program	Automatic
Control Mode	Automatic / Manua
Auto initialization	Yes / No

Environmental specifications	
Temperature	Operating : 0°C to 60°C Storage : -20°C to 60°C
Humidity (non - condensing)	0% to 95% without moisture consideration
Mechanical specifications	
Mounting	Panel
Weight	263gms

Terminal connections



Dimensions (All are in mm)



Standards Compliance

Applicable EMI / EMC Standards		
Product standards : IEC 61326-1		
Category	**Standards**	**Standards compliance**
ESD immunity	IEC 61000-4-2	Level III (Air discharge : 8kV), Level II (Contact Discharge : 4kV)
Surge Immunity	IEC 61000-4-5	2kV common mode, (Line to ground) 1kV common 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 (150KHz to 80MHz) (3V/m)
Voltage Dips and Interruptions	IEC 61000-4-11	**Dips :** 0% during 1 cycle (Criteria B), 40% during 10/12 cycles (Criteria C), 70% during 25/30 cycles (Criteria C) **Interruptions :** 0% during 250/300 cycles (Criteria C)
Conducted Emission	CISPR-11	Group 1, Class A (150kHz to 30 MHz)
Radiated Emission	CISPR-11	Group 1, Class A (30MHz to 1 GHz)
Electrical Fast Transient	IEC 61000-4-4	Level III (2kV)
Power frequency magnetic field	IEC 61000-4-8	Level IV 30 A/m

Ordering information

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