

PRELIMINARY DATASHEET



Features:

- 1 phase current sensing
- LED Type
- Support Intelligent Algorithm
- 3 to 12 steps (For 12 relays) / 3 to 8 steps (For 8 relays)
- Dual Password Protection
- Configurable alarm setting

Size: 144mm x 144mm x 50mm

Technical Specifications

Display

Type	7 Segment LED
Digit	3 digits 1 Row
No. of LED	12 + 1 + 1 or 8 + 1 + 1

Input Specifications

Display parameter	Power factor, Alarm
Measurement Range	
Power Factor	-1.00 to 1.00
Alarm Indications	
Over Voltage	253 - 264 V (L-N) 540 - 570V (L-L)
Under Voltage	195 - 204 V (L-N) 450-530 V (L-L)
Over Current	5.50 - 6.00 A
Under Current	0.01 - 0.15 A
Under Compensate	ON/OFF
Over Compensate	ON/OFF
CT Polarity Error	ON/OFF
Current Absent indication	Crr
Phase Connection	Yes
Electrical Connection	1P2W (L-N/L-L)
Frequency	45-65 Hz
Current Input on each phase	
Nominal Current	1 x 0-5 A.
Sensitivity	15mA
Burden	20 mohms,
Overload	20% continuous
Voltage input (Each Phase wrt Neutral)	
Operating Limit	40-300V (L-N), 50-530V (L-L)
Power Consumption	0.05 VA
Rated Frequency	45-65 Hz
Resettable Parameters	
CT - (Primary)	1-500 A
CT - (Secondary)	1A / 5A

Output Specifications

Output Contacts	NO, One common point Max fuse 6A
Steps	3 to 12 steps (For 12 relay) 3 to 8 steps (For 8 relay)
Relay Contact	5A @ 250VAC
Expected mechanical life	5 x 10 ⁶ operations
Expected electrical life	100000 operations at rated current

Supply Specifications

Auxiliary Supply	
Input voltage range	90 - 550VAC
Consumption	20 VA max
Controlling Range	
Target PF	0.8 lag to - 0.8 lead
Control Sensitivity	55 - 100%
Sensitivity	55 to 100 Sec
Discharge time	5 - 999 sec
Switching program	Automatic / Linear / Rotational
Control Mode	Automatic / Manual
Auto initialization	Yes

Environmental Specifications

Temperature	-20 to +60 °C
Humidity	0 % to 95 % without moisture consideration
Pollution degree	III
Installation Category	III
Dielectric Withstand	IEC 61010-1.2001
IP Protection	IP54 Front IP20 meter body

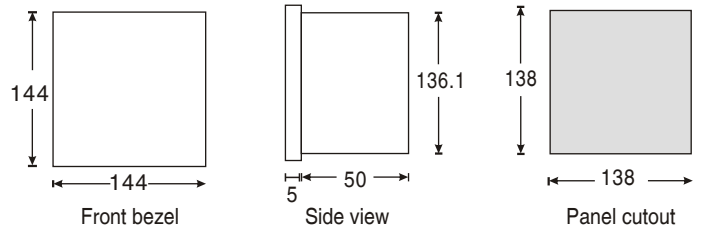
Mechanical Specifications

Mounting	Panel mount
Weight	440 gms

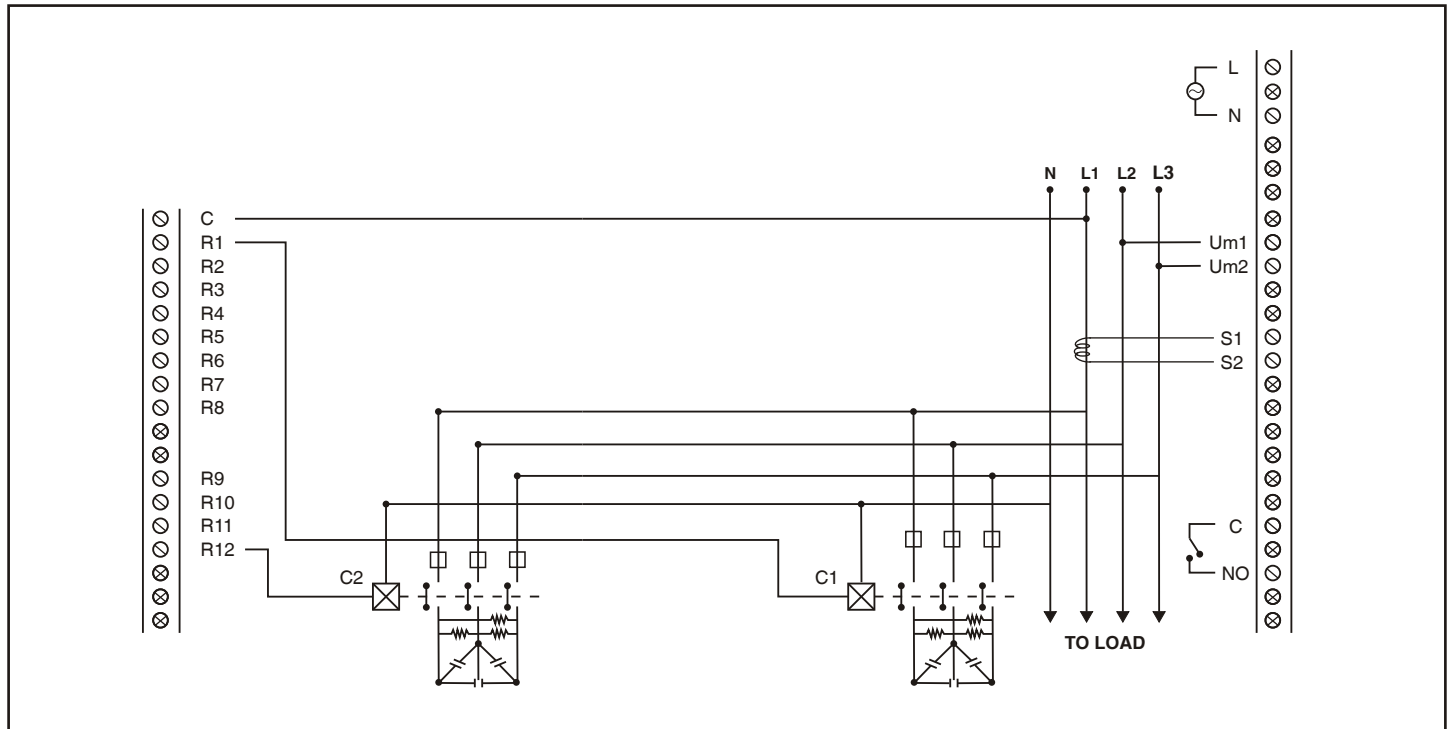
Standards

Part 6-2 : Generic standard (Immunity for Industrial environment)	IEC 61000-6-2
Part 6-4 : Generic standard (Immunity for Industrial environment)	IEC 61000-6-4
Additional standard	IEC 61326/ IEC 61326: 1997 + A1: 1998 + A2:2000

Dimensions



Terminal Connections



Ordering Information

Product	Supply Voltage	Certification
APFC147-112	90 / 550V	
APFC147-108	90 / 550V	