



144 x 144mm

Features :

- 1 phase current sensing
- Supports intelligent algorithm
- Automatically switches between various capacitor banks
- Alarm indication on display for over temperature
- Plug & Play

Certifications :

Display specifications

Type	LCD with backlight
Digits	4 digits 1 Row

Input specifications

Rated input voltage	50 - 520V (L - L)
Rated input current	Nominal 5A AC (Min 50mA, Max 6A)
Frequency	45 - 65 Hz
Burden	20m Ohm
Electrical connection	2Ø - 2 wire (Voltage - L2 L3, Current - L1)
Accuracy	Power factor : ±0.01 Temperature : ±3° of full scale

Measurement range

Power factor 0.8 lag to 0.8 lead

Error indication Curr (Current less than 50mA)

Alarm indication Over temperature

Settable parameters

Target PF	0.8 lag to 0.8 lead
Max number of steps	1 to 12
Step time	1 to 999 sec
Discharge time	1 to 999 sec
Over temperature settings	10°C to 70°C

Output specifications

Output contacts	NO, One common point max fuse 6A
Steps	1 to 12
Relay contact	5A @ 250V AC (max)

Auxiliary supply specifications

Input voltage range	90 - 550V AC
Consumption	15VA max
Frequency	50 - 60 Hz

Control specifications

Target PF	0.8 lag to 0.8 lead
Step time	1 to 999 sec
Discharge time	1 to 999 sec
Control mode	Automatic / Manual

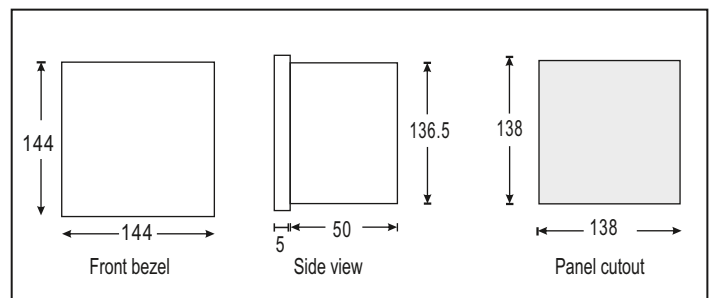
Environmental specifications

Temperature	Operating : 0°C to 60°C Storage : -20°C to 60°C
Humidity	0% to 95% without moisture consideration

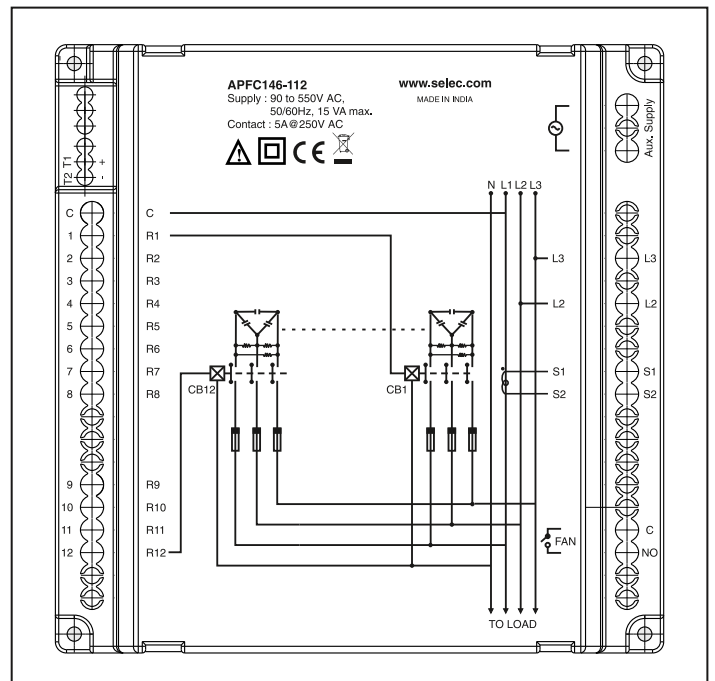
Mechanical specifications

Mounting	Panel
Weight	400 gms

Dimensions (All are in mm)



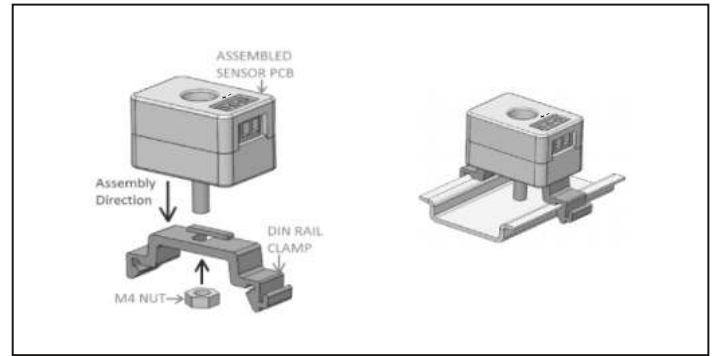
Terminal connections



Compliance

Applicable EMI / EMC standards		
Product standard : IEC 61326-1		
Category		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 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, (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

NTC temperature sensor



Ordering information

Product code	Supply voltage	No. of stages	Certification
APFC146-112-90/550V-CE	90 - 550 VAC, 50 / 60Hz	12	CE