



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

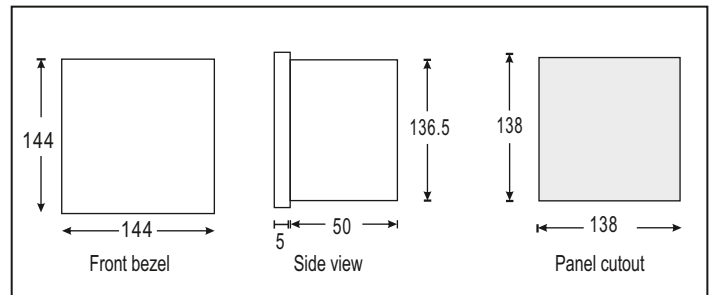
**Environmental specifications**

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

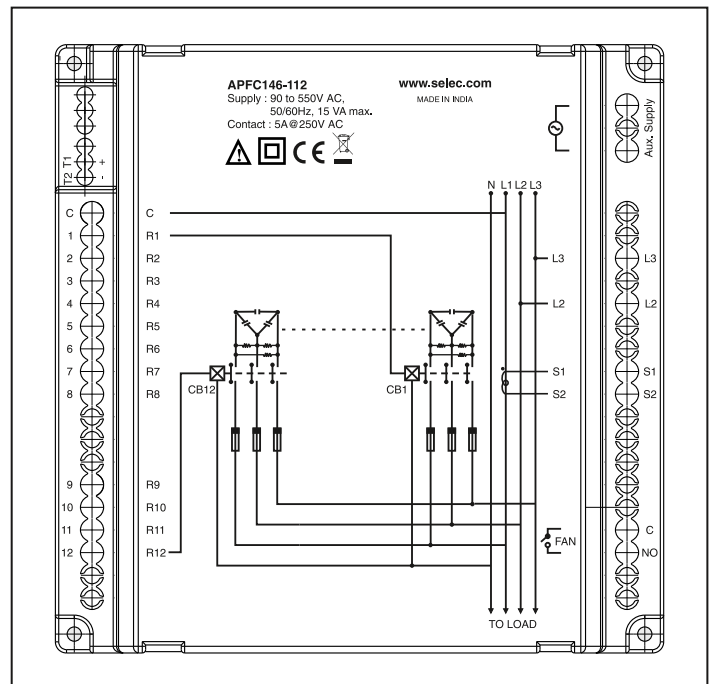
**Mechanical specifications**

Mounting	Panel
Weight	400 gms

**Dimensions (All are in mm)**



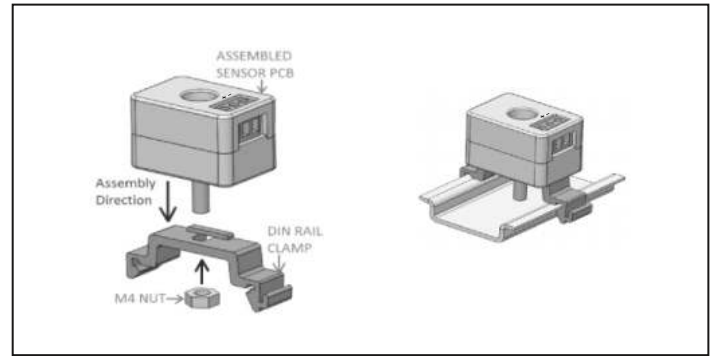
**Terminal connections**



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	<b>Dips</b> : 0% during 1 cycle (Criteria B), 40% during 10/12 cycles (Criteria C), 70% during 25/30 cycles (Criteria C) <b>Interruptions</b> : 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