



POWER FACTOR CORRECTION CONTROLLERS

Model ESTAmat



Vishay ESTA

KEY BENEFITS

- 1...6 steps and 1...12 steps
- Supply voltage 90 V_{AC} to 300 V_{AC} (model ESTAmat PFC-N)
- Measuring voltage 90 V_{AC} to 690 V_{AC}, galvanic separation (model ESTAmat PFC-N)
- Operating voltage 230 V_{AC} ± 10 % (model ESTAmat MH-N)
- No need to differentiate between X/1 A or X/5 A current transformer
- High contrast backlit display for good reading even in poor lighting conditions.
- Over-temperature switch-off (model ESTAmat PFC-N)
- Easy mounting with small flat springs
- Automatic self-setting (model ESTAmat PFC-N)
- 4-quadrant operation means trouble-free service in generator mode
- Optimized switching performance
- Constant display of actual power factor and energized steps
- Display of cos φ, P, Q and S
- Additional step data (model ESTAmat PFC-N)
- Alarm functions

APPLICATIONS

- Automatic and manual control of central PFC equipment

How do they compare with each other:

MATTER OF REFERENCE	ESTAmat PFC-N	ESTAmat MH-N
Measuring and operating voltage	Galvanic separation	Galvanic separation
Connection of measuring voltage	Phase / Neutral or Phase / Phase	Phase / Neutral internally connected to the operating voltage
Measuring voltage	90 V _{AC} to 690 V _{AC}	230 V ± 10 %
Operating voltage	90 V _{AC} to 300 V _{AC}	
Initialization of C.T. location and output and number of the capacitor steps (switching program)	Optionally auto-initializing and manual setting	Manual
Identification of C.T. location	Yes	No
Defining fixed steps	Yes	No
Switching time	One time between 1 s to 6500 s asymmetrical switching	One time between 2 s to 1800 s for switching on and off
Re-switching blocking delay time	Stepless 500 ms to 1200 s	Adjustable together with switching time 2 s to 1800 s
Switching mode	Circular and series	Circular
Display of cos φ; P; Q; S; Urms; Irms	Yes	Yes
Display of the percentage amount of the harmonic voltage 3rd, 5th, 7th, 9th, 11th, 13th, 17th, and 19th (FFT) Temp.; Qc switching per step	Yes	No
Temperature control by means of an internal sensor Range: 0 up to + 70 °C (step size 1 °C)	Yes	No
External interface	Yes	No

DIMENSIONS

ESTAmat	
Front panel	144 mm x 144 mm
Panel cut-out	138 mm x 138 mm (± 0.5 mm)

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