

APFCS - Automatic Power Factor Correction System

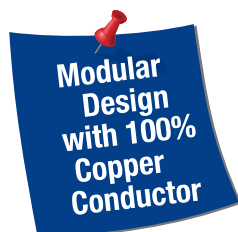


Range:

- 10 kVAr - 1000 kVAr
- Switching: Contactor / Thyristorised (Ultra Fast)

Features:

- Ref. Standard: IEC 61921/IS 8623/IS 16636 / IEC 61439
- Manufactured with highly precise modern Amada CNC machine.
- 11 tank process for corrosion proof powder coating.
- Ergonomic, compact and robust design.
- Designed with fully copper conductor.
- Heavy duty power capacitor for long life.
- Advance C-MOS technology based micro processor relay for intelligent power factor control.
- Air core reactor for extra safety from inrush current (High currents).
- Provision of top and bottom cable entry.
- Automatic temp. control through fans and louvers in panel.
- Double side earthing connection.



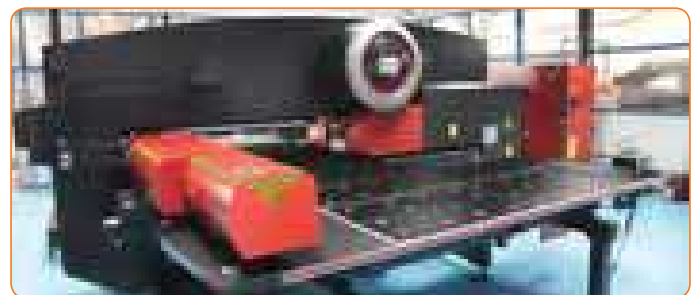
How Havells use the Best Practices and Latest Standards in manufacturing of APFC Panel

“INTERGRATED PROCESS”

○ Fabrication

The sheet metal processing like cutting, sizing, punching & bending are done on state-of-the-art, high accuracy CNC Turret Punch machines of Amada (Japan) & Trumpf (Germany). The fabrication is totally modular design.

The busbar contains High conductivity electrical grade Copper conductors, sourced directly from the manufacturers like Hindalco and other reputed make. The copper bus bar are fully rated considering all design related parameters and completely shielded by sandwich casacading design insulated by nylon robust shrouds with proper air vents.



○ Smart Surface Pre-Treatment

Prior to the painting process, all sheet metal enclosure and fabricated metallic parts of the Panel undergo a robust Eleven Tank process of surface pre-treatment.

The pre-treatment consists of:

- | | | |
|-----------------|-----------------|-----------------|
| 1. Degreasing | 2. Rinsing-I | 3. Rinsing – II |
| 4. De-rusting | 5. Rinsing- III | 6. Rinsing –IV |
| 7. Activation | 8. Phosphating | 9. Rinsing |
| 10. Passivation | 11. Dry Off | |



○ **Fully Automatic Advance Painting Process**

After the Eleven Tank process of surface pre-treatment, the enclosures & fabricated metal sections are ready for painting. The painting process is carried out by powder coating done on fully automated conveyerised painting line & baking in advance automatic and computerised temperature control oven thereafter.

○ **In-process & Final Inspection**

All products and systems during In-process & as finished products undergoes inspection and testing in accordance with stringent Quality Assurance Plan (QAP) and results are recorded.



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