

Specification for Thyristor Heater Controller module

Thyristor Heater Controller module rating: 250 KW, 450 Amps, 440 Volts AC, 50 Hz, 3 – Phase, 3-Wire., Model: 3PAPC-415-450, Make: Autodata

The Thyristor Heater Controller module shall have the following features:

- 1) Auxiliary Power supply for Thyristor Heater Controller module shall be 415 Volts AC, 50 Hz. 3-Phase.
- 2) The Thyristor Heater Controller module shall be suitable for starting and controlling from PLC through 4 - 20 mA DC or 0 - 10 Volts DC input signal. There shall be both the options available for selecting the controlling parameters (i.e. either 4-20 mA DC or 0 – 10 Volts DC).
- 3) The Thyristor Heater Controller module shall also have the facility to operate from Local Panel in manual mode through potentiometer.
- 4) The Thyristor Heater Controller module shall have protection for Thermal Overload, Earth fault etc. including reset facility in case of tripping.
- 5) In the event of tripping of the Thyristor Heater Controller module, the inbuilt relay of the Thyristor Heater Controller module shall energize such that the relay such that the contacts changes from NO (Normally Open) state to NC (Normally Closed) state.
- 6) The Thyristor heater controller module shall have 3 Nos. of inbuilt fans (1 No. for each phase) of rating 240 V AC, 50 Hz. Single Phase for cooling for 3-Phase Power Thyristors.
- 7) The Thyristor heater controller shall have 500 Amps, 415 V AC Semiconductor HRC fuse-links on the outgoing side for each of the three phases.

NOTE:

- 1) The above Thyristor Heater Controller module shall be used for one to one replacement of our existing Thyristor Power Unit of type: 3PAPC-415-450, Make: Autodata
- 2) The above Thyristor Heater Controller module shall be used for Resistance Heaters of 250 KW rating for Drying Unit.
- 3) 2 Nos. of hardcopies of programming manual, circuit and connection diagram and operation and maintenance manual of the thyristor heater controller module shall be provided.

