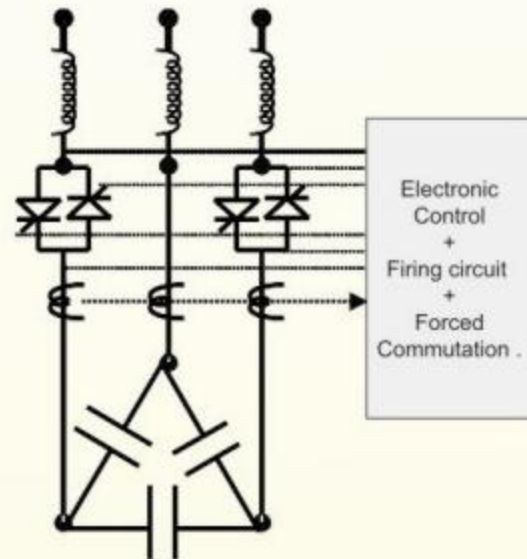




# Thyristorised Capacitor Switching Modules

ZCTC-02



Suitable for  
High Speed PF  
Compensation

Capacitor Safety  
Monitoring.

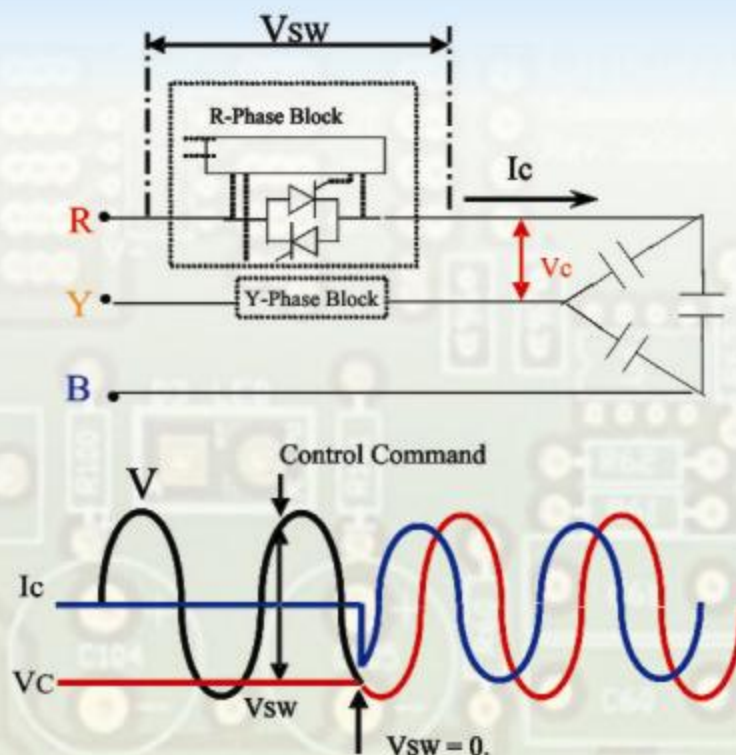
Protection to thyristors  
without semi - conductor  
fuses.



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## Features:

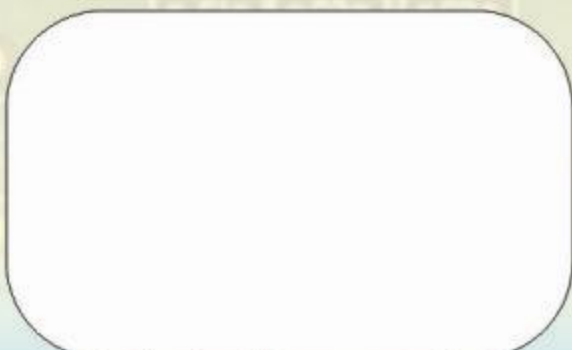
- Suitable for high speed kVAR compensation.
- Faults monitoring
  - a. Spike Currents
  - b. Continuous over current
  - c. Over temperature
  - d. Thyristors faulty
  - e. Power down.
- Auxiliary contacts for usage of bypass contactor OR thyristor fault annunciation.
- Intelligent Micro-controller based operations.
- Zero voltage detection switching ON within  $\pm 6V$  (typical 3V) giving negligible switching surge current.
- Auto resume with fault reset. Manual fault reset facility available.
- Forced commutation against spike currents protection. This avoids usage of semi-conductor fuses giving higher reliability.
- Suitable for usage with reactors from 0.2% to 16.5% voltage drop



## Specifications:

- Mains I/P: 170 to 500Vac line.
- Response time:
  - Turn ON: (cold) 0 to 10mS(50Hz)
  - (hot) dependent on discharge resistor values. (Best upto 2 cycles.)
  - Turn OFF: 0 to 20mS(50Hz)
- Operating Temp: 0 to 50° C
- Permissible switch on dV/dt = 1000V/ $\mu$ S.
- Electronics Supply: in-built
- Spike current detect : 2.2 times rated peak current
- Over current detect : 1.15 times rated current.
- Watt Loss:  $\leq 3.5$  Watt/Amp.

Special Note : Product mandatory to be used with minimum 0.2% drop reactors.



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