

CTU 02 Thyristor Switching Module For Fast PF Compensation

Simply smart solution

Contact-less Thyristor modules of CTU 02 range are designed for smooth and fast switching of power capacitors, especially for switching of L–C circuits with dominant capacity factor (detuned capacitor stages). The advantage of CTU 02 modules usage, comparing to the standard switching of capacitor stages by mechanical contactors, is immediate capacitor connection and fast disconnection without any disturbances to the network. Smooth disturbance less operation is very important for sensitive application like, for example, hospitals, bank offices, army and similar. With power factor controllers of GCR 06 / GCR 12 and FCR 06 / FCR 12 range the speed of switching can be up to 20 operation per second.



Basic features: -

- Switching elements in all three phases
- Designed for three-phase capacitors
- Switching speed up to 25 operations / 1s
- Operation and failure status signalization
- Ideal for fast and hybrid compensation
- Control voltage 24 VDC or 230 VAC

Available types of CTU 02 Thyristor Switching Module :

Type	Capacitor power [kvar]	System voltage	Control voltage
CTU 02-400-10	10	400 VAC	24 VDC / 230 VAC
CTU 02-400-30	30	400 VAC	24 VDC / 230 VAC
CTU 02-400-50	50	400 VAC	24 VDC / 230 VAC
CTU 02-400-72	72	400 VAC	24 VDC / 230 VAC

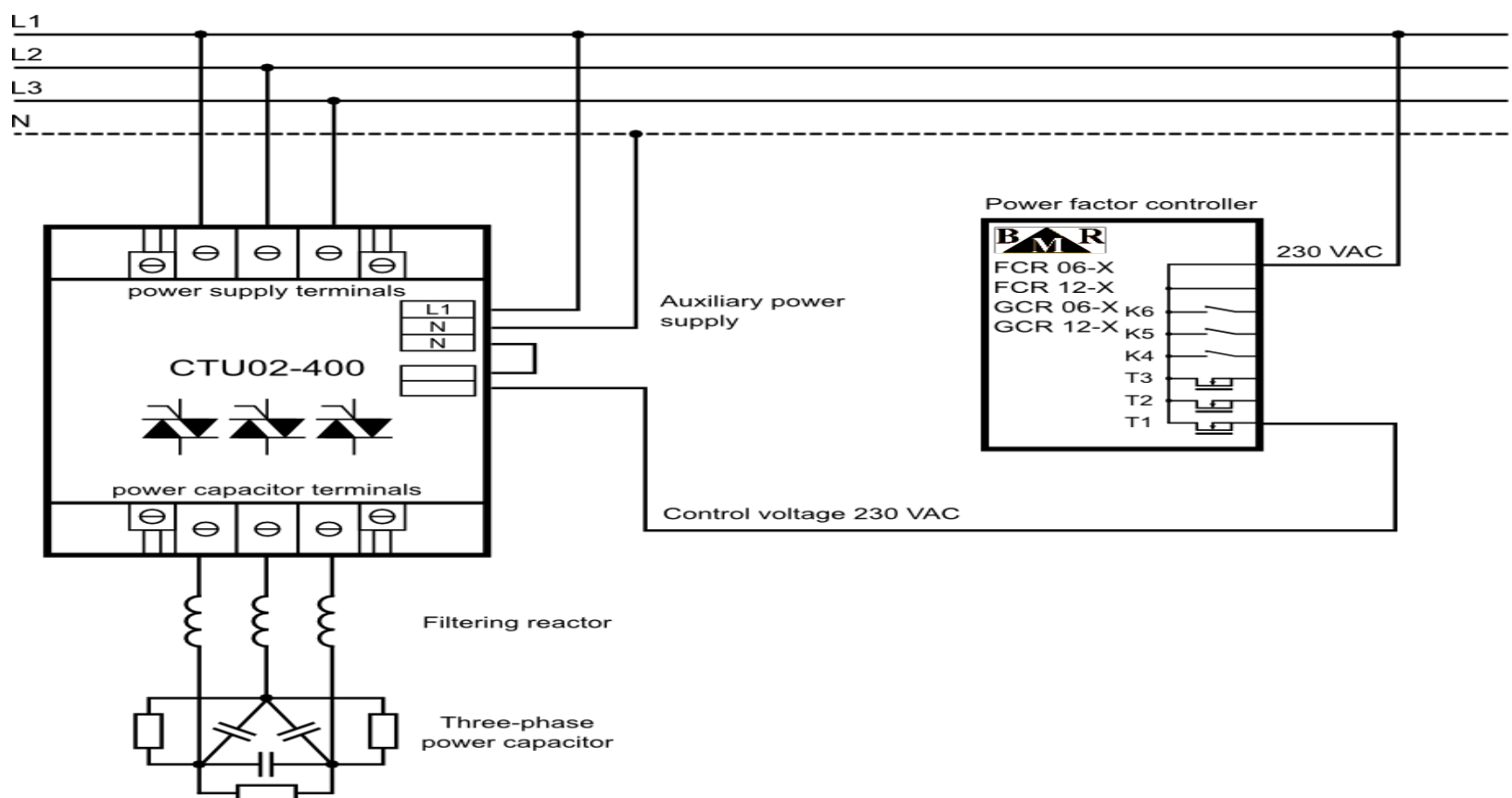
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Technical specification

Parameter	CTU02-400-10	CTU02-400-30	CTU02-400-50	CTU02-400-72
System voltage	400 VAC 50 Hz (+10%,-15%)			
Reverse blocking voltage	1600 V			
Power of three-phase capacitor	10 kVAr	30 kVAr	50 kVAr	72 kVAr
Maximum switching current	15 A	42,5 A	75 A	105 A
Control voltage	24 VDC or 230 VAC 50 Hz			
Control circuit input power	0,24 VA			
Auxiliary power supply input	230 V, 2 VA			
Operating status signalization	LED			
Load type	capacitive, resistive and combined LC			
Power dissipation	300 W			
Size of conductor	35 mm ²			
Fan input power	-	-	3 VA	3 VA
Working temperature	-25°C ... +45°C			
Weight	3 kg	5 kg	5,5 kg	5,5 kg
Protection degree	IP00			
Dimensions	see chapter 5. Dimensions			

Wiring diagram: -



Picture . Connection diagram with 230 V AC control voltage

MADHURA INTERNATIONAL

International Convention Centre, A-202, Trade Towers, Senapati Bapat Road, Pune 411 016 India

Tel: 00-91-20-2563 2783/2563 8494 Web: www.madhura.net