

Switching Devices - Thyristor Modules for Dynamic PFC

- Ultrafast Smooth Switching
- Natural Cooled
- Compact Design
- Enhanced Life of System

Features

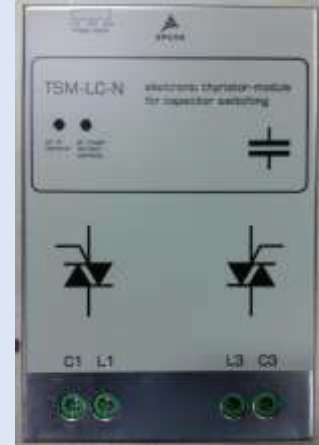
- Easy installation: it can be used similar to a contactor
- All the intelligence needed is offered within the thyristor module itself
- Reaction time: 5 milliseconds only
- Permanent self-controlling of: voltage parameter phase sequence capacitor output
- Display of operation faults activation
- Voltage range: 415 V and 440 V
- Output range: 440 V: 10, 25 and 50 KVAR
- Rated PIV of 2.2 KV
- Totally enclosed

Applications

- Main supply networks with high load fluctuations for dynamic PFC systems
- Presses
- Welding machines
- Elevators
- Cranes
- Wind turbines

Advantages

- Optimized switching behaviour by micro-processor controlled alignment to capacitor branches with or without detuning reactor.
- No wear-out parts (no fan)
- Monitoring of voltage, phase and temperature; status via LEDs
- Switching without delay
- No auxiliary voltage required
- Maintenance free
- Long service life



Selection table TSM series

	TSM-LC 10	TSM-LC-N 25	TSM-LC-N 50
Ordering code	B44066T0010R440	B44066T3025R442	B44066T3050R442
Rated voltage	380....440 V	380....440 V	380....440 V
Max. grid voltage: in conventional PFC systems(without reactors)	440 V	440 V	440 V
in detuned PFC system (7% detuning)	440 V (no upwards tolerance)	440 V (no upwards tolerance)	440 V (no upwards tolerance)
in detuned PFC system (14% detuning)	440 V	440 V	440 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Maximum power / at nominal voltage	10 KVAR	25 KVAR	50 KVAR
Power circuit	Direct connection 4 pole via terminal clamps	Direct Cable Connection	Direct Cable Connection
Neutral required	No*	No*	No*
Aux. supply voltage required	No	No	No
Connection	from bottom	from bottom	from bottom
Losses (PD in W)	2.0 x I (in A) typical; 35 W (thermal)	2.0 x I (in A) typical; 75 W (thermal)	2.0 x I (in A) typical; 150 W (thermal)
Recommended fuses superfast	3 x BS Type (AC 690 V) 40 A	3 x BS Type (AC 690 V) 80 A	3 x BS Type (AC 690 V) 160 A
Dimensions in mm (w x h x d)	163 x 150 x 75	157 x 200 x 180	157 x 200 x 180
Weight	1.75 kg	4.8 kg	4.8 kg
LED display per phase	2	2	2
Cascading	yes	yes	yes
Ambient temperature	-10 °C ... 55 °C	-10 °C ... 55 °C	-10 °C ... 55 °C
Discharge resistors EW-22 needed	1	1	1
Three phase current limitation reactor needed***	1	1	1



Network Techlab (I) Pvt. Ltd.

operation with three phase capacitor banks, for dynamic PFC systems, in industrial plants.
 *100KVAR TSM is available on request
 *690V TSM is available on request
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