



Thyristor Switch (TS)



The highly efficient TS delivers accurate, reliable, switch-free performance. Connect to bus systems, use as a stand-alone unit, or use in combination with all established two-point controllers - PLCs or computer systems. With simple mounting, minimal space requirements, quick commissioning, and safe operation, TS are seamlessly integrated into various applications. Status LEDs provide a quick overview of system status and load percentage.

PRODUCT HIGHLIGHTS

- Ideal for Ohmic or transformer type loads
- Easily install with compact unit footprint and simplified mounting design
- Customizable faults, alarms, status, limits, set points for easy integration to existing control systems
- Scalable PLC/PAC integration for closed-loop, thermal process control; optional system interface connection to bus module

TYPICAL APPLICATIONS

These features are ensured by the trigger circuit, thyristors, diodes, and HL recommendations.

- Windmill plants
- Lifts and cranes
- Primary pulsed welding plants

Phase Type

L1; L2; L3

AC Input Line Voltage Rating

400 V to 480 V 50 / 60 Hz

Max Continuous Current

100 A

Switch Modes

On-Off

Trigger Signal Voltage

DC 12V

Trigger Signal Consumption

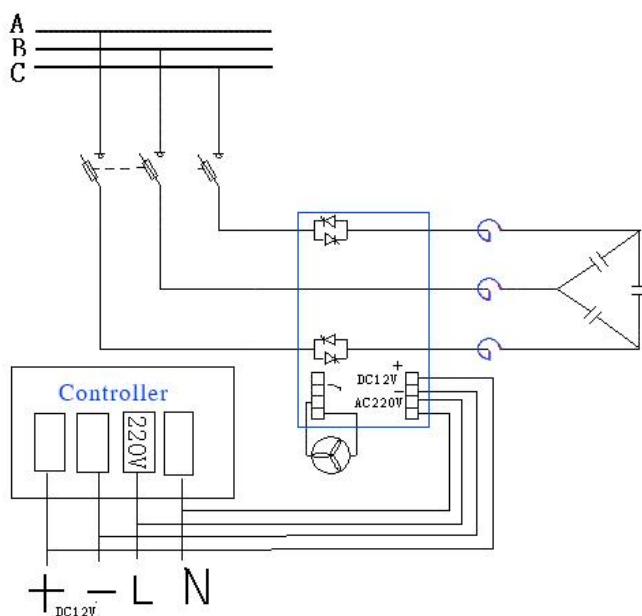
45 mA at 12 V DC

Temperature Range

-10 °C to +60 °C

TS specifications

Specification	Details
Power	230 V - 480 V; 50/60 Hz
Rated Current	72 A
Max Continuous Current	100 A (at max 45 °C ambient temperature)
Discharging of Capacitors	Discharge resistors
Response speed	20 ms
Firing Unit	
Auxiliary Voltage	From power circuit
Trigger Signal Voltage	DC 12 V
Trigger Signal Consumption	45 mA at 12 V DC
Temperature Range	-10 °C to +60 °C
Overtemperature Protection	80 °C at heatsink
Common Data	
Cooling	AN and fan
Protection Degree	IP30
Humidity	10-95 % (no condensation)
Fan Power	21 W
Max Altitude	2500 m above sea level
Ambient Temperature	-20 °C to +45 °C



Ele. specifications

Three-phase total compensation switching TS

Rated Voltages	230 V -15% +10%	230 V -15% +10%, 230 V -57% combined with 12 V input
	400 V -15% +10%	400 V -15% +10%, 400 V -57% combined with 12 V input
	480 V -15% +10%	480 V -15% +10%, 480 V -57% combined with 12 V input
Frequency	For all types from 47 to 63 Hz. Max frequency change 5% per half-wave	

Three-phase splitting phase compensation switching TS

Code	Phase Type
1S	Single phase power controller for single phase operation
2S	Two phase power controller for three phase operation (economic three phase circuit)
3S	Three phase power controller for three phase operation

Environmental Specifications

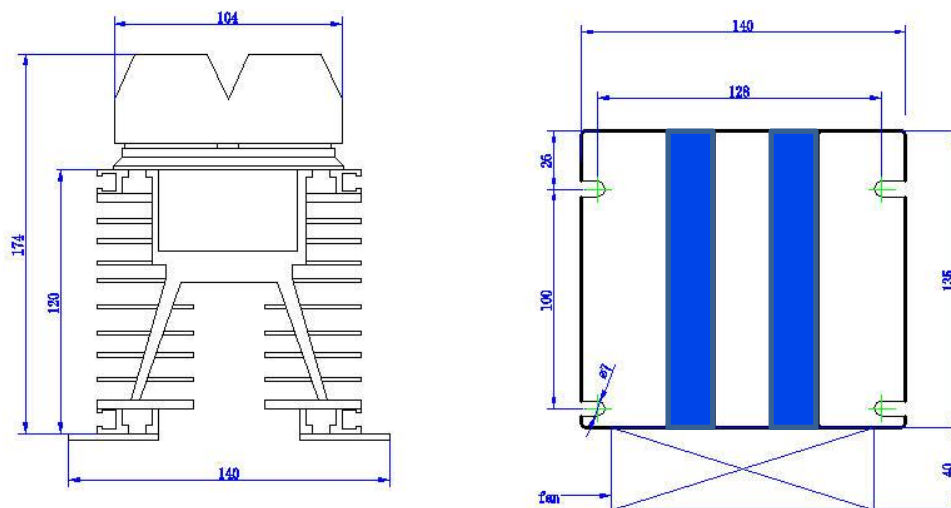
Ambient Temperature	-20°C to +45°C by external fan cooling with rated current
	At higher temperatures, operation is permissible with reduced current limits.
	Max 40 °C (104 °F) for UL applications
Storage Temperature	-25 to +55°C
Humidity	5% to 95% relative humidity
Site Altitude	Up to 2500 m above sea level

Regulatory Approvals

Certifications	CE conformity
	ISO 9001 Quality Standards

400 V ~ 480 V System voltage

Type KVAR	Width	Height	Depth	Weight
	mm	mm	mm	kg
400 V 12.5 (50 Hz) / 15 (60 Hz)	140	174	136	4.0
400 V 25 (50 Hz) / 30 (60 Hz)	140	174	136	4.0
400 V 30 (50 Hz) / 36 (60 Hz)	140	174	136	4.1
400 V 50 (50 Hz) / 60 (60 Hz)	140	174	136	4.1
480 V 12.5 (50 Hz) / 15 (60 Hz)	140	174	136	4.0
480 V 25 (50 Hz) / 30 (60 Hz)	140	174	136	4.0
480 V 30 (50 Hz) / 36 (60 Hz)	140	174	136	4.2
480 V 50 (50 Hz) / 60 (60 Hz)	140	174	136	4.2

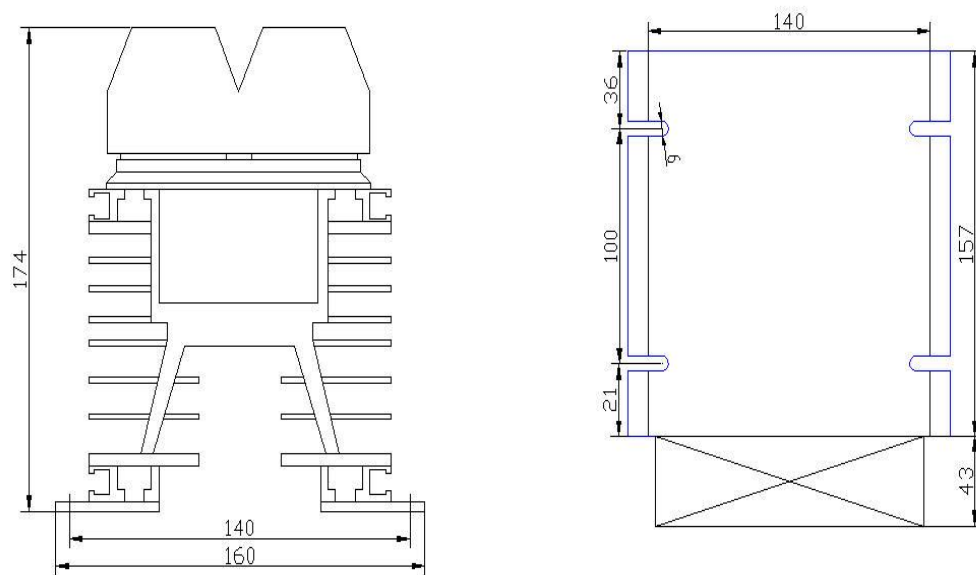


Drawing - Three-phase total compensation switching TS

Drawing - Three-phase splitting phase compensation switching TS

230 V System voltage

Type KVAR	Width	Height	Depth	Weight
	mm	mm	mm	kg
230 V 3 x 6.67 (50 Hz) / 3 x 8.0 (60 Hz)	160	174	157	4.9
230 V 3 x 8.33 (50 Hz) / 3 x 10.0 (60 Hz)	160	174	157	4.9
230 V 3 x 10 (50 Hz) / 3 x 12 (60 Hz)	160	174	157	5.0
230 V 3 x 17 (50 Hz) / 3 x 20.5 (60 Hz)	160	174	157	5.0



Drawing - Three-phase splitting phase compensation switching TS



Sino-German joint venture

About LTEC

We have specialized in the production of reactors, capacitors, filters, and transformers since 2004. Our primary production plant in Kunshan City spans an area of 20,000 square meters and is located just a one-hour drive from Shanghai Pudong International Airport (PVG).

Our R&D teams are based in Gelsenkirchen and Taipei, and we hold approximately 120 patents related to our products.

In 2023, **Drosseln GmbH** invested in **Jiangsu LTEC Electric Co., Ltd.**, forming a Sino-German joint venture with the purpose of enhancing competitiveness in the Asian market.

We provide our customers with world-class LV and HV products, along with reliable technology and friendly, flexible customer support. Additionally, we develop **"tailor-made"** products and solutions tailored to your applications.

Our products have been exported to the United States, Germany, the United Kingdom, Israel, Australia, and more than **60** countries and regions worldwide.

Just contact us

We are right here waiting for you...