

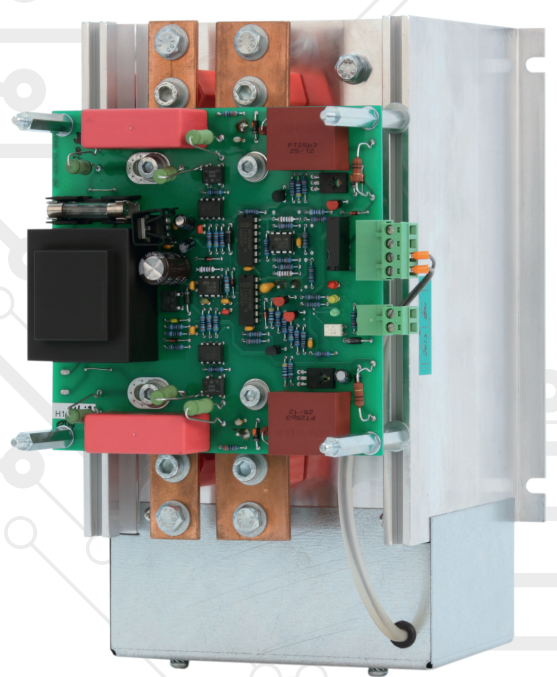
BLR-TS



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Non-mechanic switching: Smooth, fast and always at zero crossing. In contrast to contactors, the switching time of Thyristor switches is always precise to the millisecond.

Transients are minimized this way. Reaction times to the trigger signal are in the milli-second range- this is why thyristor switches are the ideal choice for applications with quickly changing loads(i.e welding or lifting cranes). On top of this, the BELUK Thyristor switches are known for their robust design and long working life.



Soft Switching at Zero Crossing

The firing electronics of the BELUK TS switch precisely when there is exactly equal voltage at mains and the capacitor. This is fast, and free of transients and therefore gentle and causes very low wear and tear on the capacitors.

Fast

The BELUK TS switches at the next possible zero crossing after the trigger signal from the controller is present. In a typical case this is 10 ms after the switching signal. This is ideal for fast changing loads like cranes, elevators, welding sets but also for wind farms, oil-rigs, or for the automotive industry.

Robust

Beluk thyristor switches are well known for their robustness. All thyristor modules used have a minimum blocking voltage of 1800V, and are designed for a long lifetime. A permanent overload of 20% will not damage the devices. Only from 75 kvar capacitor size, a temperature-controlled fan is used for cooling. Below this size, the thermal losses are dispensed passively by a heat sink.

Protected

All BELUK TS are protected against overheating. Before damage can occur, the thyristor switch will switch itself off to prevent damage. Even a failing cabinet fan or too high temperatures in the cabinet won't be able to damage your investment.

Low Maintenance

Thyristor switches of the BELUK TS series only need a yearly visual inspection of the heat sink and the cooling fan. No further maintenance is required. The present operating condition is displayed via LEDs.

Compact

The BELUK TS thyristor switch is very compact in its dimensions (200 x 160 x 215mm no fan, 260 x 160 x 215 with fan). Consequently, there is a higher number of possible arrangements in the cabinet, where the thyristor switches do not interfere with one another thermally.

Nominal Voltage/ Losses	25kvar	50kvar	65kvar	75kvar	100kvar	125kvar	130kvar
400 V	36A/ 68W	72A/ 122W		109A/ 205W	144A/ 250W		
440 V	33A/ 61W	66A/ 111W		99A/ 184W	131A/ 244W		
480 V	30A/ 52W	60A/ 104W		90A/ 172W	120A/ 224W	150A/ 261W	
525 V			72A/ 122W				144A/ 250W
690 V		42A/ 75W			84A/ 145W		

Technical Data

Recovery time	typically after 1 period
Controlled Phases	2, semi-controlled
Supply Voltage	Direct from the power connection (separate power supply optional available)
Consumption of supply	max. 9 VA
Voltage Trigger- signal	8 - 30 V DC
Consumption Trigger signal	2 mA bei 12 V DC
Auto shut-off temperature	80° Celsius