

Rectifier **Thyristor Technology** Water-Cooled



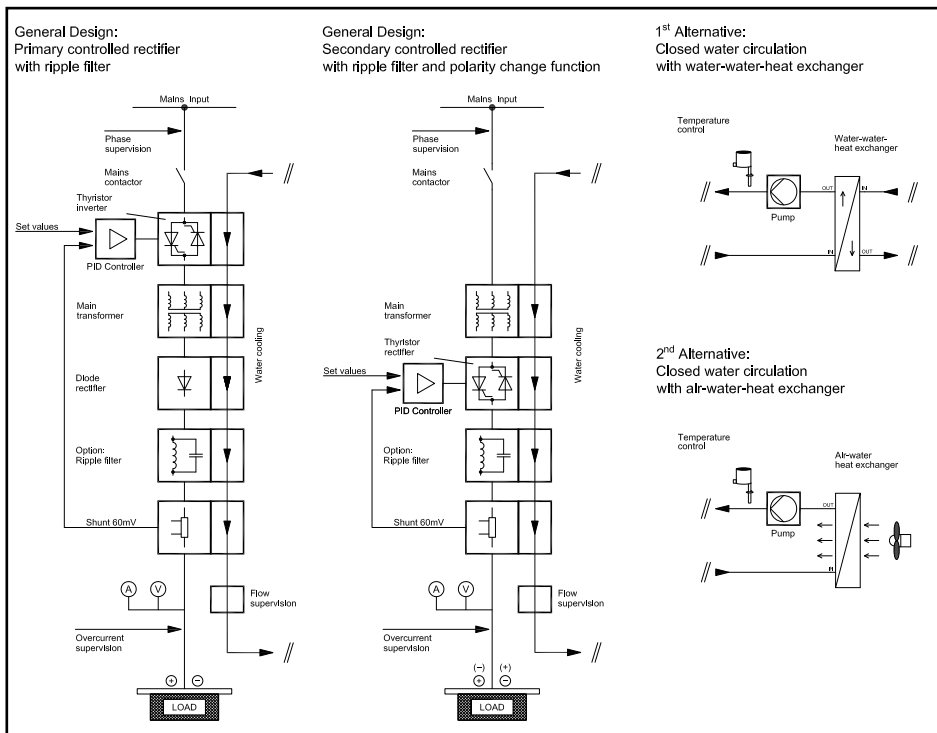
Powerful

Cooling a rectifier by means of water is one of the most efficient and eco-friendly cooling technologies. By circulating the untreated water in a cooling loop it is recycled and can be re-used for cooling the most powerful rectifiers. Even if the ambient temperature exceeds 40 °C we can ensure that our water-cooled rectifiers do not need to be derated like air-cooled systems.

A 25-year track record of operating completely water-cooled rectifiers is the proof that a carefully engineered cooling design can comply with the highest demands. Paying attention to the smallest details allows us to combine water and electricity in a safe and reliable way. Our water cooling technology is perfected to the special needs in power conversion and is particularly recommended for high power applications or when size matters.

Thyristor Technology

Water-Cooled



Further Options

- Electronic polarity reverser
- Field bus interface
- Pulse operation
- Ripple filter
- Water temperature booster

Technical Data

Mains voltage	3 x 400 V / 50 Hz + N + PE (and all common mains voltages or 60 Hz)
Output current	1,000 A to 100,000 A
Output voltage	6 V to 900 V
Ripple (general) Ripple (optional)	approx. 5 % at full load 2 to 3 % at full load
Duty factor	100 % (24/7)
Efficiency	80 % to 93 %
Ambient temperature (general) Ambient temperature (optional)	+ 35 °C + 40 °C
Water inlet temperature	+ 16 °C to 35 °C
Protection grade	IP 23 to IP 54

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