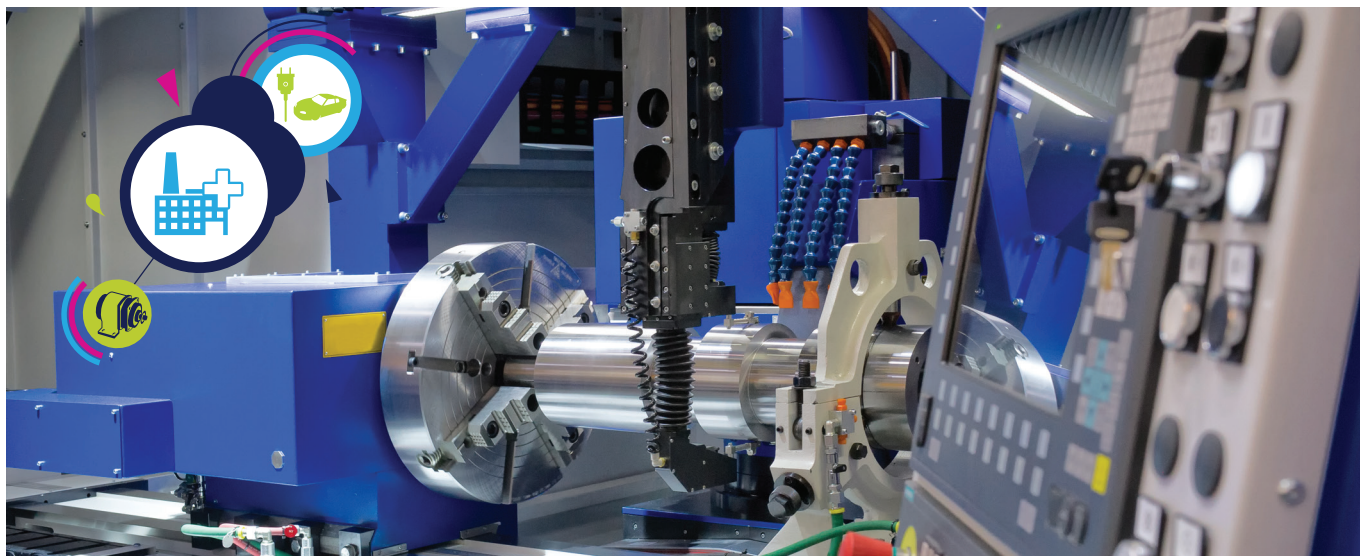


High-temperature SCRs for industrial applications



The high-temperature silicon-controlled rectifiers (SCR) are the best answer for AC powerline switching solutions

Available in through-hole and surface-mount packages, ST's silicon-controlled rectifiers provide designers with a component with temperature headroom for heatsink reduction or more compactness.

The voltage surge immunity is fully specified at 150 °C, ensuring designs are precise and secure.

These 12 to 80 A SCRs are ideal for use in charging stations, solid-state relays, inrush current limiters, motor starters, SMPS, UPS, and renewable-energy junction boxes.

KEY FEATURES

- T_j : 150 °C (max.)
- On-state RMS current: 12 to 80 A
- Blocking voltages : 600 V, 800V, 1200V
- High turn-on robustness: 200 A/μs
- High off-state immunity: 1000 V/μs
- ECOPACK2 compliant

KEY BENEFITS

- Compact circuit with high immunity
- Easy design with maximum temperature parameters
- Bounce-free and low-leakage static switching

KEY APPLICATIONS

- Industrial or electric vehicle (EV) charging stations
- Solid-state relays
- Inrush current limiters
- Bypass switches in uninterruptible power supplies
- Starters and inrush control circuits for motor drives

