

# COOLTECH

**No heat sink calculations required!**

July 1, 2005

Designed for superior thermal performance in harsh industrial environments, Crouzet's new CoolTech series is the most advanced DIN rail solid-state relay in its range on the market today. Based on GN SSR technology, the CoolTech solid-state relays have a combination of features not found in equivalent competitor's products. These include:

► **Epoxy-Free Design**

*The epoxy-free design of the CoolTech SSR eliminates the stress placed on internal components due to the expansion and contraction of epoxy during normal use. Moreover, this eliminates the possibility of a catastrophic failure as a result of severe stress in the encapsulant during load failure.*

► **Direct-Bond Copper Substrate**

*The DBC substrate, along with the unique vertical placement of the substrate, allows the SCR die to efficiently transfer heat to the heat sink and into ambient air. As a result, the SCR die operate at a lower temperature than competitive relays, which accounts for the CoolTech's higher I<sup>2</sup>T and surge-current ratings.*

► **EMC Compliant (level 3)**

*Compliance with level 3 requirements of the EMC Directive enhances the CoolTech's ability to operate safely and reliably in harsh electrical environments by providing additional protection from; surge currents, electrostatic discharge, electrical transients, and conducted/radiated emissions.*

## New DIN Rail SSR's Provide Enhanced Reliability



**Additional features and benefits include:**

- **30A (22.5mm), 45A (45mm), & 25A 3-Phase**
- **Built-In Internal Transient Protection**
- **LED Input Status Indicator**
- **Relay or Contactor Terminal Configuration**
- **IP20 Touch-Safe Housing**
- **100k UL508 Endurance Rating**
- **DIN-Rail or Panel-Mount Back Plate**
- **UL/CSA/TuV Approved, CE Compliant**
- **RoHS Compliant in January 2006**

The new CoolTech solid-state relays are ideal for use in numerous commercial & industrial applications, including: mercury relay replacement, professional food-service equipment (ovens, fryers, dispensing equipment, conveyors, etc.), sterilizers, temperature control systems, plastic extrusion / thermoforming machinery, HVAC&R, kilns, packaging equipment, sorting equipment, wave solder & reflow systems, lighting systems, pump controls, incubators, motor-switching, UPS systems, and much more.

For additional information, please visit our web site @ [www.crouzet-usa.com](http://www.crouzet-usa.com), or contact us directly @ (800) 677-5311.