

## Press Release

### **RSBS GENERATION 3 SOFT STARTER: REDUCE SINGLE PHASE COMPRESSOR START CURRENT BY >50%**

No more light flicker and voltage disturbances due to reduced compressor starting current.

Lainate, May 2020 - Carlo Gavazzi Automation, the international electronics group with activities in the design, manufacture and marketing of electronic equipment, today presents its new scroll compressor soft starter.

The RSBS is a compact soft starter for single phase compressors with operational current up to 32 AAC. It is a known fact that single phase voltage networks are prone to voltage fluctuations. When starting a single phase compressor, the inrush current can be as high as 5 to 6 times the compressor rated current. These high starting currents can create annoying disturbances including light flickering, tripping of fuses, stalling of generators.

The RSBS uses a current limiting algorithm to reduce the compressor starting current by more than 50%, when compared to a direct on line (DOL) start. The control algorithm automatically detects when the compressor reaches full speed to make sure that the internal bypass relay switches ON when the current is at an optimum level. A special function ensures that the compressor gets enough starting torque even when the starting pressures are not equalised.

“By using the new RSBS soft starter we can avoid high starting currents on compressors, that could cause several disturbances and adverse effects to adjacent equipment and may also cause annoyances to the occupants of the building,” Jason Demicoli, International Product Manager, says. “This launch will give us the opportunity to strengthen Carlo Gavazzi’s role in the HVAC market, particularly heat pumps.”

Developed by our competence centre in Malta, the RSBS generation 3 of soft starters encompasses a number of new design features to sustain the harsh conditions present in single phase installations within the HVAC & Refrigeration market.

#### **Main technical features**

- Current limit algorithm to minimise compressor start current
- HP function to start even with unequalised pressures
- Integrated monitoring functions to protect compressor
- Voltage dips and interruptions detection
- Wide operational temperature range
- Rated for 10 starts per hour
- IP20 enclosure
- Alarm relay output (changeover)
- Improved design for longer lifetime
- DIN rail or panel mount

#### **ABOUT CARLO GAVAZZI AUTOMATION**

Carlo Gavazzi Automation is an international electronics group with activities in the design, manufacture and marketing of electronic equipment targeted at the global markets of industrial and building automation.

Carlo Gavazzi Automation provides customers with technologically innovative, high quality and competitive solutions, in compliance with their requirements and expectations through its 22 National Sales Companies in Europe, the Americas and Asia & Pacific, operating with its production sites in Denmark, Italy, Malta, Lithuania and China.

#### **For further information:**

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