

FOR IMMEDIATE RELEASE:

Modular Motor Protection System



May 15, 2013 – Buffalo Grove, IL - CARLO GAVAZZI is proud to launch the **DMPU Series Motor Protection System**. The DMPU is a modular electronic motor protection relay to control, monitor and protect the performance of 3-phase constant or dual speed, AC induction motors. The DMPU device measures electrical motor variables (voltage, current, harmonic distortion, power, energy and earth leakage current), monitoring overloads through the thermal model, controlling them and measuring other variables, such as motor and bearing temperature. Finally it includes a data logger function for storing trends of the electrical variables, alarms and fast data logging for storing start-up profiles.

Through the communication features, it is possible to transmit all monitored variables to a supervision control system for data collection and process control. Profibus and Modbus TCP/IP protocols are available to easily insert the **DMPU Series** into a majority of applications. The HMI operator interface is freely programmable and can show instantaneous values and alarm messages. Windows based DMPU-PS configuration and monitoring software, simplifies plant design through graphic block configuration and connection, where the blocks are all the variables that can be used, as inputs, outputs, ANSI function, electrical and temperature variables, logical functions, timers and counters.

The **DMPU Series** allows protection of the motor against damage due to thermal effect taking place during overload condition. The protection trips when motor temperature exceeds calculated TCU parameter as well as optional temperature measurements and electrical variables. The DMPU implements several ANSI functions to protect motor from operation that may damage it. For example ANSI 46 (motor inverse current), ANSI 51 LR and ANSI 48 (locked or stalled rotor) and ANSI 46 (earth leakage) are among few that are supported. All control functions such as start, stop, reverse, star-delta control and alarm indication are possible with push buttons, touch screen HMIs or communications.

- Modular, concept with these modules available:
 - ✓ **DMPUT-MBT**: Modbus TCP/IP communication
 - ✓ **DMPU-PRB**: Profibus communication
 - ✓ **DMPU-05**: Current and voltage measurements
 - ✓ **DMPU-R2**: 2 temperature or digital input & 2 outputs
 - ✓ **DMPU-EL**: Earth leakage module
 - ✓ **DMPU-HMI**: Simply two line HMI operator panel
 - ✓ **BTM-T4/T7**: 4.3" and 7" touch screen interfaces
- Integral heat sink with robust metal DIN rail adapters
- Direct voltage measurement up to 690VAC
- Direct current measurements up to 5A, higher with CTs
- Up to 23 temperature or digital inputs
- Up to 22 relay outputs
- Earth leakage through external core balance transformer
- -25° to 55°C operating temperature
- Cat III installation category (IEC60661, EN60664)

The **DMPU Series** is available from CARLO GAVAZZI's North American network of sales offices and distributors, or at www.GavazziOnline.com. Questions regarding this press release should be directed to: info@carlogavazzi.com

CARLO GAVAZZI Inc., 750 Hastings Lane, Buffalo Grove, IL 60089
Phone: 847.465.6100 Fax: 800.222.2659 Email: Sales@CarloGavazzi.com,

CARLO GAVAZZI (Canada) Inc., 2660 Meadowvale Blvd., Mississauga, ON L5N 6M6
Phone: 888.575.2275 Fax: 905.542.2248 Email: Gavazzi@CarloGavazzi.com

CARLO GAVAZZI Mexico S.A. de C.V., Calle La Montaña no. 18, Fracc. Los Pastores, Naucalpan de Juárez, EDOMEX CP 53340
Phone/Fax: 52.55.5373.7042 Email: MexicoSales@CarloGavazzi.com