Sensata
Technologies

GIGAVAC®

MXC & GXC: CAN-BUS ENABLED SMART-TACTORS

Background

Contactors are a critical safety component in many modern systems and applications including electric vehicles, energy storage systems, smart grid, renewables, and charging systems. Most contactors on the market today simply open and close a high voltage, high current circuit. Some offer additional features such as AUX feedback to report the contactor position or status. This type of technology has been around for many years. Due to the location of contactors in the system, they have the potential to provide a wealth of data and information that can be leveraged to make informed decisions.

Cutting-edge customers continue to push the envelope and demand to know what is happening in the system in real-time so they can perform predictive analytics, improve system up-time, and make performance decisions "at the edge".

… perfect for datalogging, telematics, and predictive maintenance…
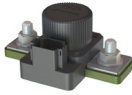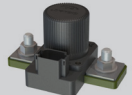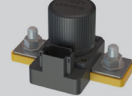
Solution

High performance, CAN-bus enabled contactors from Sensata GIGAVAC are ideal for these applications. Sensata GIGAVAC is an innovator with its robust hermetic sealing technology and a partner of choice with its strong engineering support and commitment to world class operations. The new MXC and GXC Series of CAN-enabled contactors offer a great amount of valuable data, information, and performance features like never before. OEM's and integrators can now tap into the CAN-bus to easily monitor current, terminal voltage, control voltage, temperature, contactor state, and cycle count. They can also configure under-voltage and over-voltage setpoints, define over-current trip points, define the power-up state, and establish a delay-on-break. The MXC & GXC are perfect for datalogging, telematics, and predictive maintenance and are essential during R&D, prototyping, test, and development phases of any new application, project, or program. With an available DBC file, designers can be up and running in minutes with plug-and-play simplicity.

RECOMMENDED PRODUCTS

Product	Function	Features	Brand
MXC15	350A, 48V	Great for low voltage, low current applications. Low profile installation and chassis mount main terminals make packaging easy	Gigavac
MXC16	600A, 48V	Ideal for low voltage, high current applications, or where multiple loads pass through the same power distribution contactor	Gigavac
GXC15	350A, 800V	Well suited for high voltage applications that require real-time monitoring for safety and performance	Gigavac
GXC16	600A, 800V	Excellent for high voltage, high current applications that require maximum power throughput and critical performance	Gigavac

SMART-TACTOR APPLICATION

- Data Logging
- Flight Recorders
- Telematics
- Prototyping
- Remote Diagnostics

GND
CANL
AUX
AUX
VIN
CANH
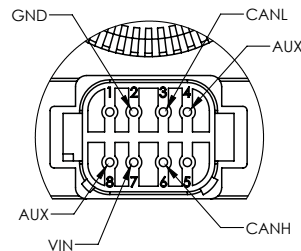
CONTROLLER AREA NETWORK (CAN)

Twisted Wire Pair (BUS)

Instrument Cluster

Chassis Controller

Engine Controller

ABS

Body Controller

Diagnostic Gateway

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