

POWER CONNECTION
 ZINC PLATED, M12X1.75 BOLT
 STAINLESS M12X1.75 FLANGED NUT
 TORQUE 200-300 IN-LB [22-33 Nm]

MATING DEUTSCH CONNECTOR *	
PART NUMBER	DESCRIPTION
DT06-08SA	CONNECTOR HOUSING
0462-201-16141	SOCKET
114017	SEALING PLUG
HDT-48-00	RECOMMENDED CRIMPER
W8S	WEDGE

* AVAILABLE AS AN ASSEMBLY [\(0857-3/4\)](#)

Coil Ratings (25°C, Currents & Power At Nominal V)

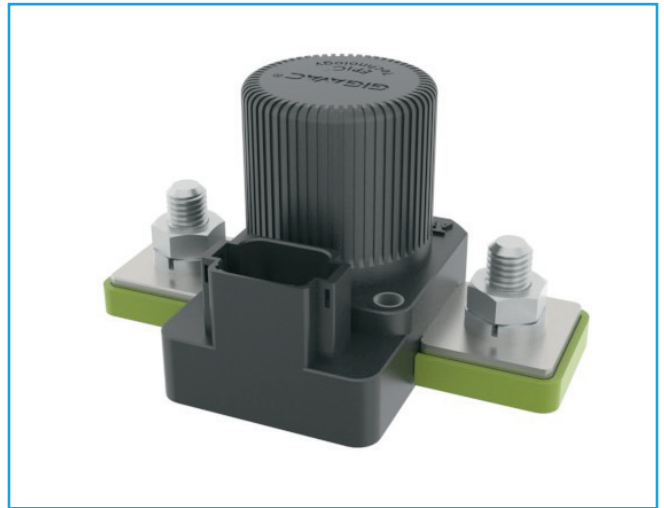
Series	15		16		
	B	C	B	C	
Coil P/N Designation	B	C	B	C	
Coil Voltage (Nominal)	12	24	12	24	V
Coil Voltage (max)	16	32	16	32	V
Coil Voltage (min)	9	17	9	17	V
Inrush Current (max)	3.9	1.6	3.8	1.9	A
Hold Current after inrush (max)	0.23	0.097	0.64	0.32	A
Coil Hold Power (max)	2.8	2.3	7.7	7.8	W
Coil Back EMF ¹	0				V
Transient on all pins	+50V 13ms				
Reverse polarity on all pins	-80				V

¹ Coils are switched internally with a FET, so no fly-back/suppression voltage is seen at the coil inputs.

CAN-BUS Contactor

Automatic trip function
 350 amp and 600 amp versions
 CAN-BUS Communication

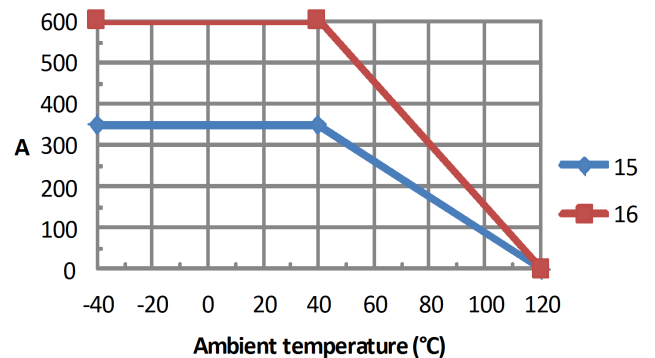
MXCAN
 Smart-Tactor™



Key Features

EPIC® Seal	Ceramic to metal braze. Gas filled hermetic chamber protects key components. Exceeds IP69K standard
Contacts / Form	Silver / SPST / NO
Coil	Efficient two coil design with no PWM or EMI emissions.
Suppression	Coil suppression built in
High Shock and Vibration	For rugged environments, off-road and tracked vehicles
Installation	Not direction sensitive
Reference	MIL-R-6106, RoHS

Current Carry



Environmental And Switching Specification			
Series	15	16	
Contacts			
Contact form	SPST-NO		
Contact Voltage Rating	12-48V		
Insulation resistance, A1-A2 and A1&A2 to controls	500V, 100MΩ (50MΩ after life)		
Dielectric, A1-A2 and A1&A2 to controls	2200VAC, 60Hz, 1mA		
Contact Resistance (max)	1.5 mΩ (.4 avg)		
Current (see chart for Temp. derating)	350A 400MCM	600A 500MCM	
90s	1000A	1500A	
10s	2000A	3000A	
1s	3000A	4000A	
Resistive Load Switching			
Fault interrupt (1 cycle)	3000A	5000A	
Resistive switching @ 28V	100,000 cycles @ 350A	100,000 cycles @ 600A	
Please contact factory for more detailed resistive switching specifications.			
Mechanical life	300,000 cycles		
Environmental Specifications			
Weight (Max, with hardware)	1.6lbs, 725g	2lbs, 910g	
Vibration (10 - 2000Hz)	15G		
Shock, 1/2 Sine, 11ms	20G		
Temperature Range (ambient)	-40°C to 85°C		
Max Terminal Temperature	125°C		
Water Resistance	IP67 and IP69K		
Seal: Hermetic Vacuum Braze, tested to E-9 std cc/sec			
Steam/Water-Jet/ Boiling Water	105psi Steam/2750psi Jet/ Submersion in BW		
Chemicals, Corrosion, Fungal Growth	Resistant		
Timing (Max Values @ 25°C)			
Operate (including bounce)	20ms		
Inrush	75ms		
Release	12ms	7ms	
For details, contact factory for App. Note	#8	#9	#12 #13

NOTES:

1. Contactor has two coils. Both are used for pull-in. After approximately 75 milliseconds, one coil is electronically removed from the coil drive circuit. The remaining coil supplies low continuous hold power sufficient for the contactor to meet all of its specified performance specifications. This provides the lowest coil power possible without the use of PWM electronics that have been known to cause EMI emissions and/or crosstalk on system control power.

2. Control and Communication

Protocol: J1939

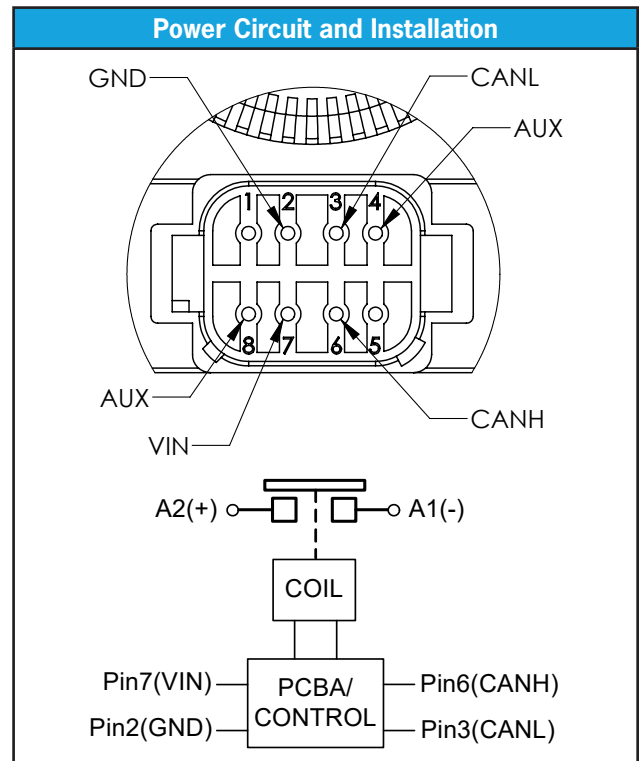
Features:

- Read: device ID, firmware version, current, temperature, contactor cycle-log and optional non-isolated contact-volts sensing.

- Read/Write: power supply under-voltage-shutoff, contactor (open/close), trip points, trip delays, power up default (open/close).

- Visit www.gigavac.com for the latest CAN-BUS protocol information.

Ordering Key			
MXCAN1	E	J	EX: MXCAN16CEXJV
RATING 5=350A 6=600A	COIL VOLTAGE B=12VDC C=24VDC	CONNECTOR E=DEUTSCH DT08 CONNECTOR	CONTACT VOLTS SENSING V=SENSING X=NONE COMMUNICATION J=J1939 AUXILIARY B=SPST, NO X=NONE



Settings Parameters			
Coil Voltage	B	C	
Vin Input Voltage Range	10-16	20-30	V
Current Sense Accuracy	±7%		
Over Current Response Time	2ms + release time	ms	

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