

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		
Coil P/N Designation	В	С	В	С	
Coil Voltage (Nominal)	12	24	12	24	٧
Coil Voltage (max)	16	32	16	32	٧
Coil Voltage (min)	9	17	9	17	٧
Inrush Current (max, includes both coils)	3.9	1.6	3.8	1.9	Α
Hold Current after inrush (max)	0.23	0.097	0.64	0.32	Α
Coil Hold Power (max)	2.8	2.3	7.7	7.8	W
Coil Back EMF ¹	0				٧
Transient on all pins	+50V 13ms				
Reverse polarity on all pins	-80			٧	

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

Over Current Contactor

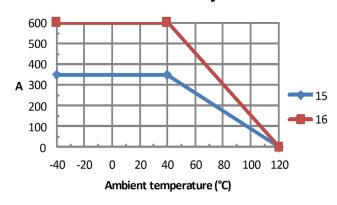
Automatic trip function 350 amp and 600 amp versions CAN-BUS Communication

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			

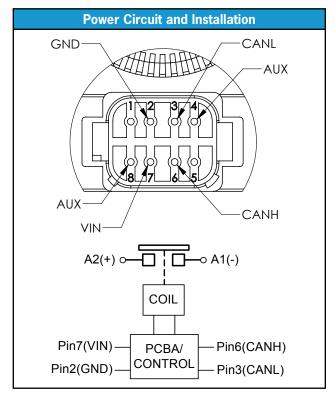
Current Carry



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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, 100M Ω (50M Ω after life)					
Dielectric, A1-A2 and A1&A2 to controls	2	200VAC,	60Hz, 1m	A		
Contact Resistance (max)	$1.5~\text{m}\Omega$ (.4 avg)					
Current (see chart for Temp. derating)		OA VICM		OA MCM		
90s	100	00A	150)OA		
10s	200	00A	300)OA		
1s	3000A 4000A)OA			
Resistive Load Switching						
Fault interrupt (1 cycle)	3000A		500)OA		
Resistive switching @ 28V	100,000 cycles 100,000 c @ 350A @ 600					
Please contact factory for more detailed r	esitive sv	vitching s	pecificat	ions.		
Mechanical life		300,00	0 cycles			
Environmental Spe	ecification	ons				
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℃					
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			Jet/		
Chemicals, Corrosion, Fungal Growth	Resistant					
Timing (Max Value	es @ 25	°C)				
Operate (including bounce)	20ms					
Inrush		75	ms			
Release	12ms 7ms			ns		
For details, contact factory for App. Note	#8	#9	#12	#13		

Ordering Key				
SERIES 15-350A 16-600A COIL VOLTAGE B=12VDC C=24VDC CONNECTOR E=DEUTSCH DT08 CONNECTOR	EX: MXCAN16CEXJV VOLTAGE SENSING V=SENSING X=NONE COMMUNICATION J=J1939 AUXILIARY B=SPST, NO X=NONE			



Settings Parameters					
Coil Voltage	В	С			
Vin Input Voltage Range	10-16 20-30		V		
Current Sense Accuracy	±				
Over Current Response Time	2ms + rel	ms			

NOTES:

1. Contactor has two coils. Both are used for pull-in. After approx mately 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 contact-volts sensing.
- Read/Write: power supply under-voltage-shutoff, contactor (open/close), trip points, trip delays, power up default (open/close).
- Contact GIGAVAC for CAN-BUS communication protocol details.

