

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		6			
Coil P/N Designation	В	С	В	С		
Coil Voltage (Nominal)	12	24	12	24	V	
Maximum Safe Voltage	16	32	16	32	V	
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			V		
Transient on all pins	+50V 13ms					
Reverse polarity on all pins -80		V				

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

Over Current Contactor

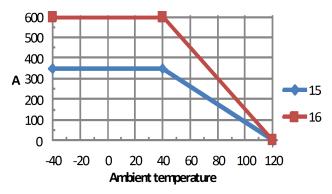
Automatic trip function 350 amp and 600 amp versions

MXSA 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			





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Environmental And Switching Specification						
Series	15			16		
Contact	S					
Contact form		S	PST-NO			
Contact Voltage Rating		1	2-48V			
Insulation resistance, A1-A2 and A1&A2 to controls	500V, 1	00M	Ω (50MΩ) after lif	e)	
Dielectric, A1-A2 and A1&A2 to controls	220	OOVA	C, 60Hz,	1mA		
Contact Resistance (max)		1.5 n	nΩ (.4 av	/g)		
Current (see chart for Temp. derating)	350A 400MCI	М		600A 00MCM		
90s	1000A	1		1500A		
10s	2000A	1		3000A		
1s	3000A	١	4	4000A		
Optional Aux, SPST, NO or NC		2 <i>P</i>	a @ 28V			
Resistive Load Switching						
Fault interrupt	3000A	١	Į	5000A		
Resistive switching @ 28V			000 cycl 2 600A	es		
Please contact factory for more detailed resitive switching specifications.						
Mechanical life 300,000 cycles						
Environmental Spe	ecification	าร				
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/s	sec				
Steam/Water-Jet/ Boiling Water	105psi Steam/2750psi Jet/ Submersion in BW					
Chemicals, Corrosion, Fungal Growth Resistant						
Timing (Max Value	es @ 25°C	2)				
Operate (including bounce)	20			ms		
Inrush	75 ms		ms			
Release	12 7 r		ms			
For details, contact factory for App. Note	8	9	12	13	#	

NOTES:

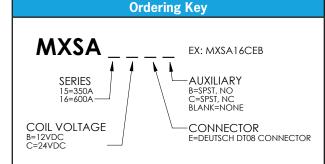
1. With power applied to Vin, the contacts will close when Vcontrol is greater than Vcontrol:Close and open when Vcontrol is less than Vcontrol:Open (see Settings Parameters for values). Connect Vcontrol to Vin to disable logic level control.

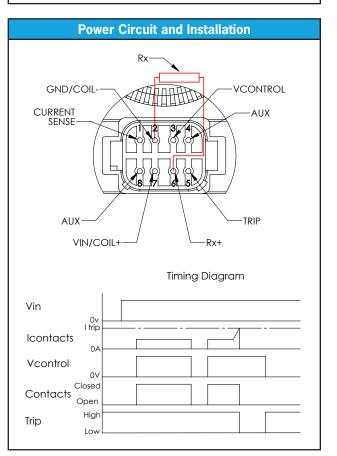
2. When the trip limit is exceeded the contacts will open and the Trip indicator line will go low. The TRIP pin is an open drain. After a trip, Vcontrol needs to be brought low to reset the contactor.

3. Connect resistor Rx as shown in red to set the current trip level. Choose Rx using the equation in Settings Parameters. No resistor = 600A.

4. 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.

5. Current Sense: Indicates the current through the main contacts (A2 and A1). The current sense range is from -600 to +600 amps.





Settings Parameters					
Coil Voltage	B C				
Vin Input Voltage Range	10-16	20-30	V		
Vcontrol Pin Input Resis- tance 10k with 100k pull down			Ω		
Vcontrol:Close	2.5-32		V		
Vcontrol:Open	0-1.5		V		
Current Trip Setting Range	urrent Trip Setting Range ±(20-600)		А		
Rx Value (I_Trip is the trip evel in Amps) $Rx = 100k\Omega * I_Trip / 600A$		A			
Current Sense Accuracy	Sense Accuracy ±7%				
Over Current Response Time	2ms + release time		ms		
Max Sink Current on Trip Pin	10		mA		

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