

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 (0857-7)

Coil Ratings (25°C, Currents & Power At Nominal V)			
Series	16		
Coil P/N Designation	B C		
Coil Voltage (Nominal)	12	24	V
Maximum Safe Voltage	16	32	V
Inrush Current (max, includes both coils)	3.8	1.9	A
Hold Current after inrush (max)	0.64	0.32	A
Coil Hold Power (max) 7.7		7.8	W
Coil Back EMF ¹	0		V
Transient on all pins	+50V 13ms		
Reverse polarity on all pins	-80		V

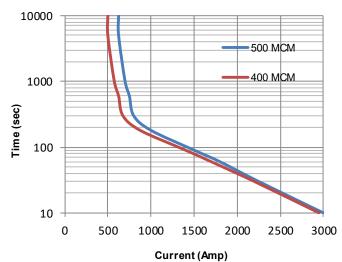
1 Coils are switched internally with a FET, so no fly-back/suppression voltage is seen at the coil inputs.

Selectable Time | MXST16 Delay On Break Contactor | 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 vs Time with 85°C terminal temperature rise



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Environmental And Switching Specification				
Series	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 r	nΩ (.4 avg)	1	
Current (see chart for Temp. derating)	600/	A, 500MCM	1	
90s		1500A	1	
10s		3000A	1	
1s		4000A	1	
Optional Aux, SPST, NO or NC	2/	A@28V		
Resistive Load Switching				
Fault interrupt	5000A			
Resistive switching @ 28V	100,000 cycles @ 600A			
Please contact factory for more detailed resitive switching specifications.				
Mechanical life 300,000 cycles				
Environmental Specifications				
Weight (Max, with hardware)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)	20 ms		ms	
Inrush	75 m		ms	
For details, contact factory for App. Note	12 13 #		#	

NOTES:

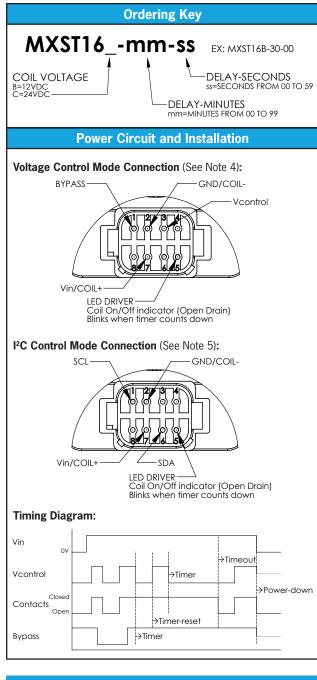
1. The MXST Delay on Break contactor is designed for applications that require electrical power to be maintained for a specific amount of time after the engine is shut off. The contactor is triggered by an "OFF" signal - usually from the ignition key - and then maintains power for a programmed amount of time before it turns OFF (open).

2. 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.

3. The Bypass pin overrides the timing circuit and can be used in cases where an immediate opening of the contactor is required. The Bypass pin does not need to be connected if this function is not required.

4. Caution: In Voltage Control Mode, Pin 1 is digital input - leave it open or pull it low. Pin 6 is digital output - leave it open only.

5. Also available with I²C option that allows customer to program and control the time delay feature. Please contact GIGAVAC for more details.



Settings Parameters			
Coil Voltage	В	С	
Vin Input Voltage Range	10-16 20-30		V
Vcontrol Pin (10k Ω input resistance)	30 max		V
Vcontrol_Close	>=2.0		V
Vcontrol_Open	<=0.8		V
Bypass_Active	Pull Low (0)		V
Bypass_Inactive	Leave Open (5)		V
Max Sink Current on LED Driver Pin	10		mA

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