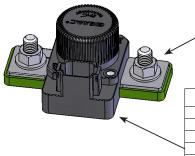


CASE MATERIAL DUPONT ZYTEL FR50

3D MODEL AVAILABLE UPON REQUEST



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
Maximum Safe Voltage	16	32	16	32	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	

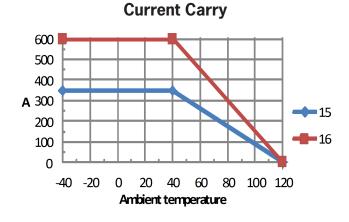
¹ Coils are switched internally with a FET, so no fly-back/suppression voltage is seen at the coil inputs.

Over Current Contactor

Automatic trip function 350 amp and 600 amp versions 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		

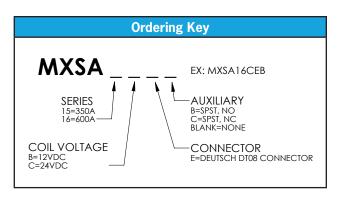


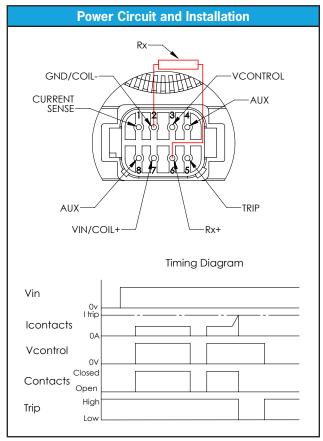
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Rev 10	11-28-17	© 2017 GIGAVAC, LLC	Page 1 of 2 MXSA

Environmental And Switching Specification				
Series	15 16			
Contact	s			
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	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		
Optional Aux, SPST, NO or NC	24	A @ 28V		
Resistive Load Switching				
Fault interrupt	3000A	5000A		
Resistive switching @ 28V	100,000 cycles 100,000 cycl @ 350A @ 600A			
Please contact factory for more detailed resitive switching specifications.				
ricase contact factory for infore detailed r	esitive switchin	g specifications	S.	
Mechanical life	· · · · · · · · · · · · · · · · · · ·	g specifications 000 cycles	5.	
	300,		S	
Mechanical life	300,			
Mechanical life Environmental Spe	300, ecifications	000 cycles		
Mechanical life Environmental Specific (Max, with hardware)	300, ecifications	2lbs, 910g		
Mechanical life Environmental Sport Weight (Max, with hardware) Vibration (10 - 2000Hz)	300, ecifications 1.6lbs, 725g	2lbs, 910g		
Mechanical life Environmental Specific Meight (Max, with hardware) Vibration (10 - 2000Hz) Shock, 1/2 Sine, 11ms	300, ecifications 1.6lbs, 725g -40°	2lbs, 910g 15G 20G		
Mechanical life Environmental Sport Weight (Max, with hardware) Vibration (10 - 2000Hz) Shock, 1/2 Sine, 11ms Temperature Range (ambient)	300, ecifications 1.6lbs, 725g -40°	2lbs, 910g 15G 20G C to 85°C		
Mechanical life Environmental Special	300, ecifications 1.6lbs, 725g -40°	2lbs, 910g 15G 20G C to 85°C 125°C		
Mechanical life Environmental Sport Weight (Max, with hardware) Vibration (10 - 2000Hz) Shock, 1/2 Sine, 11ms Temperature Range (ambient) Max Terminal Temperature Water Resistance	300, ecifications 1.6lbs, 725g -40° IP67 -9 std cc/sec 105psi Ste	2lbs, 910g 15G 20G C to 85°C 125°C		
Mechanical life Environmental Special	300, ecifications 1.6lbs, 725g -40° IP67 -9 std cc/sec 105psi Ste Subme	2lbs, 910g 15G 20G C to 85°C 125°C and IP69K		
Mechanical life Environmental Special	300, ecifications 1.6lbs, 725g -40° IP67 -9 std cc/sec 105psi Ste Subme	2lbs, 910g 15G 20G C to 85°C 125°C and IP69K am/2750psi Jet/ersion in BW		
Mechanical life Environmental Special	300, ecifications 1.6lbs, 725g -40° IP67 -9 std cc/sec 105psi Ste Submo	2lbs, 910g 15G 20G C to 85°C 125°C and IP69K am/2750psi Jet/ersion in BW		
Mechanical life Environmental Special	300, ecifications 1.6lbs, 725g -40° IP67 -9 std cc/sec 105psi Ste Submo	2lbs, 910g 15G 20G C to 85°C 125°C and IP69K am/2750psi Jet/ersion in BW esistant		
Mechanical life Environmental Spo Weight (Max, with hardware) Vibration (10 - 2000Hz) Shock, 1/2 Sine, 11ms Temperature Range (ambient) Max Terminal Temperature Water Resistance Seal: Hermetic Vacuum Braze, tested to E Steam/Water-Jet/ Boiling Water Chemicals, Corrosion, Fungal Growth Timing (Max Value) Operate (including bounce)	300, ecifications 1.6lbs, 725g -40° IP67 -9 std cc/sec 105psi Ste Submo	2lbs, 910g 15G 20G C to 85°C 125°C and IP69K am/2750psi Jet/ersion in BW esistant	ms	

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	В	С		
Vin Input Voltage Range	10-16 20-30		V	
Vcontrol Pin Input Resistance	10k with 100k pull down		Ω	
Vcontrol:Close	2.5-32		V	
Vcontrol:Open	0-1.5		V	
Current Trip Setting Range	±(20-600)		Α	
Rx Value (I_Trip is the trip level in Amps)	Rx = 100kΩ * I_Trip / 600A		А	
Current Sense Accuracy	±7%			
Over Current Response Time	t Response Time 2ms + release time		ms	
Max Sink Current on Trip Pin 10)	mA	

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