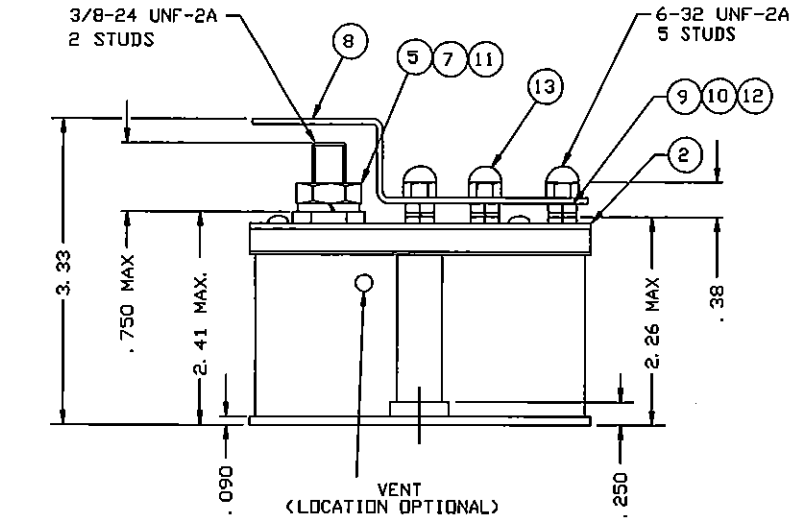
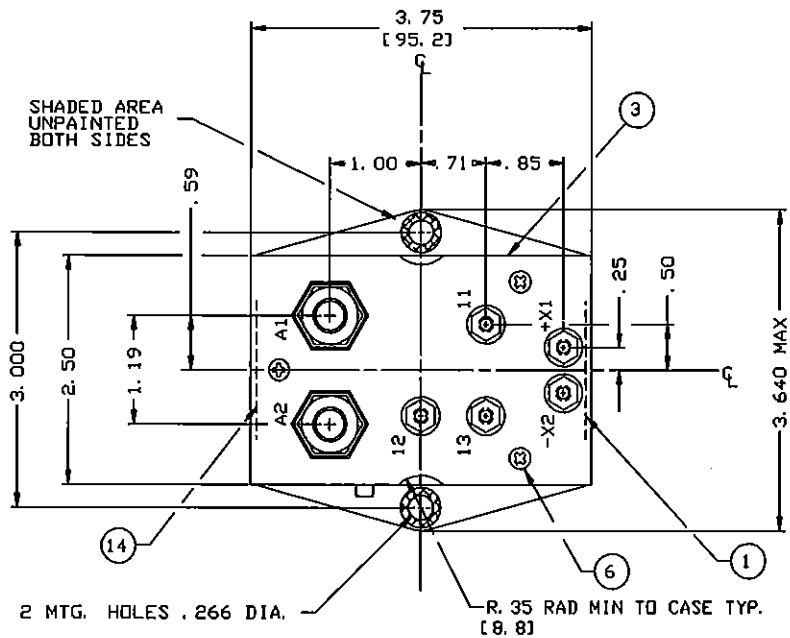
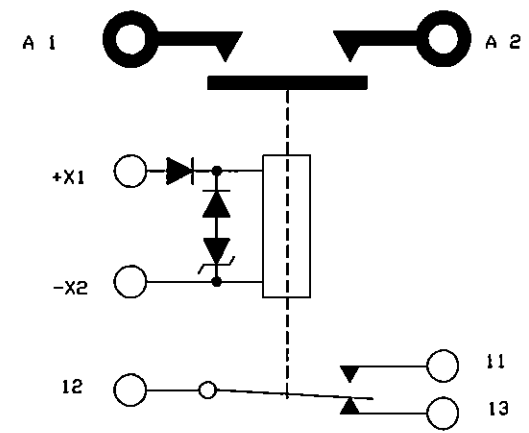


REVISONS		RELEASED		
REV	ECN No.	DESCRIPTION	DATE	APPROVED
B	41115	STEERING DIODE ADDED TO SCHEMATIC	99/11/24	RS
C	43554	5.3 FINISH WAS BLACK EPOXY	00/11/29	RS
D	14-012010	DEL. ITEM 15; ITEM 14 WAS 39529-037 OVERLAY	14/08/08	MDM



- NOTES:
1. THIS UNIT MEETS THE MATERIAL AND WORKMANSHIP REQUIREMENTS OF MIL-R-6106J.
 2. TERMINAL SHIELD, ITEM 8, OMITTED FROM TOP VIEW FOR CLARITY.
 3. SEE SHEET 2 FOR DETAILED SPECIFICATIONS.
 4. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS.



SCHEMATIC DIAGRAM

FIND NO	QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FSCN NO	DRAWING OR SPECIFICATION	MATERIAL OR NOTE
15						
14	1	48336-004	NAME PLATE		2-1616994-7	
13	5	50406-170	NUT 6-32 HEX. CAP			NYLON
12	5	51702-204	WASHER-FLAT 3/8 X 9/64 X .032			BRASS
11	2	51704-024	WASHER-FLAT 5/8 X 25/64 X .062			BRASS
10	5	50406-034	NUT 6-32 X 5/16 X 5/64 HEX.			BRASS
9	5	51806-014	WASHER-LOCK NO. 6			BRONZE
8	1	44198-002	TERMINAL SHIELD			
7	2	51807-084	WASHER-LOCK NO. 3/8 SPLIT TYP.			BRONZE
6	3	51200-020	SCREW NO. 4 X 1/4 PAN HD.			ST. STEEL
5	2	50407-164	NUT 3/8-24 X 5/8 X 7/32 HEX			BRASS
4	1	44178-030	CONTACTOR ASSEMBLY-PRIMARY			
3	1	44179-002	PLATE-WIRING DIAGRAM			
2	1	44088-003	PLATE-BASE COVER			
1	1	16043-094	PLATE-NAME			

UNLESS OTHERWISE SPECIFIED TOLERANCES ON DIMENSIONS IN INCHES		UNLESS OTHERWISE SPECIFIED TOLERANCES ON DIMENSIONS IN MM		RELEASE		SIZE	CODE IDENT	DWG NO.	
2 PL DEC.	3 PL DEC.	3 PL DEC.	ANGLES	DR BY	CSC	00/12/19	A	74063	A-400DC
± .06	± .010	± 1*		CHK BY	CC	00/12/19			
UNLESS OTHERWISE SPECIFIED TOLERANCES ON DIMENSIONS IN MM				ENGR	JL	00/12/20			
2 PL DEC.	3 PL DEC.	3 PL DEC.	ANGLES	MFG	NH	00/12/21			
± 1.5	± .25	± 1*		CONTR NO.					
				GOVT APPVL					
				SCALE NONE	SHEET 1 OF 2		REF TE P/N: 1616056-6		

DETAIL SPECIFICATIONS

REVISIONS		RELEASED	APPROVED
REV	ECN No.	DESCRIPTION	DATE
D	14-012010	SEE SHEET 1 FOR REVISIONS	14/08/08

- 1.0 ELECTRICAL (<25°C)
 - 1.1 NOM OPERATING VOLTAGE 28 VDC
 - 1.2 MAX OPERATING VOLTAGE 32 VDC
 - 1.3 PICK-UP VOLTAGE <MAX> SEE TABLE 1
 - 1.4 DROP-OUT VOLTAGE SEE TABLE 1
 - 1.5 COIL RESISTANCE (<±10%) 60 OHMS
 - 1.6 COIL CURRENT <MAX> 0.6 AMP
 - 1.7 DUTY CONTINUOUS

- 2.0 CONTACT DATA

	<u>MAIN</u>	<u>AUX</u> <SEE NOTES>
2.1 CONTACT RATING	28 VDC	28 VDC
2.1.1 RESISTIVE	400 AMP	5 AMP
2.1.2 INDUCTIVE	150 AMP	3 AMP
2.1.3 MOTOR	250 AMP	-
2.1.4 OVERLOAD	3200 AMP	-
2.1.5 RUPTURE	4000 AMP	-
2.1.6 MINIMUM OPERATING CYCLE <LIFE> AT RATED RES/MOTOR LOAD	50,000	
2.1.7 MINIMUM OPERATING CYCLE <LIFE> AT RATED INDUCTIVE LOAD	20,000	
2.1.8 MECHANICAL LIFE <75 AMP>	100,000	

- 3.0 ENVIRONMENTAL DATA
 - 3.1 AMBIENT TEMPERATURE RANGE -55°C - +71°C
 - 3.2 ALTITUDE 50,000 FEET
 - 3.3 DIELECTRIC STRENGTH

	<u>SEA LEVEL</u>	<u>ALTITUDE</u>
3.3.1 COIL TO CASE	1250 VRMS	1000 VRMS
3.3.2 ALL OTHER POINTS	1500 VRMS	500 VRMS
 - 3.4 INSULATION RESISTANCE 100 MEGOHMS INITIAL
50 MEGOHMS AFTER LIFE TEST
 - 3.5 VIBRATION <SINUSOIDAL> .06 D. A., 5 - 55 HZ
10 G, 55 - 500 HZ
 - 3.6 SHOCK <6 - 9 MILLISECONDS> 25 G
 - 3.7 ACCELERATION <MAX> 15 G

- 4.0 OPERATING DATA (<25°C AND 28 VDC)
 - 4.1 OPERATE TIME <MAX> .035 SEC.
 - 4.2 RELEASE TIME <MAX> .015 SEC.
 - 4.3 CONTACT BOUNCE TIME <MAX> .004 SEC.

- 5.0 PHYSICAL DATA
 - 5.1 WEIGHT <MAX> 1.45 LB
 - 5.2 TERMINAL STRENGTH PER THE REQUIREMENTS OF MIL-R-6106J
PARA. 3.4.8
 - 5.3 FINISH BLACK LACQUER
GASKET SEALED/VENTED
 - 5.5 MARKING PER MIL-STD-130

- 6.0 NOTES
 - 6.1 AUXILIARY CONTACTS ARE GOLD PLATED FOR LOW LEVEL 28 VDC LOADS OF 7 -100 mA. EXCEEDING THIS LOW LEVEL RATING MAY DISPLACE THE GOLD PLATING AND RESULT IN UNRELIABLE LOW LEVEL SWITCHING.
 - 6.2 AUXILIARY CONTACTS WILL NOT RETURN TO THE NORMAL <DE-ENERGIZED> POSITION IF THE MAIN CONTACTS ARE TACK WELDED.

TABLE 1

COIL VOLTAGE <VDC> OVER TEMPERATURE RANGE					
MAX PICKUP VOLTAGE			MAX HOLD VOLTAGE		MINIMUM DROPOUT VOLTAGE
NORMAL	HIGH TEMP	CONT CURRENT	HIGH TEMP	CONT CURRENT	1.0
14	18	21	7	9	

REF.	HARTMAN® MANSFIELD, OHIO				
DR BY	CSC	00/12/19	CONTACTOR-CONTINUOUS DUTY		
CHK BY			SPST N. O., 400 AMP, 28 VDC		
ENGR					093
MFG					
RELEASE	SIZE	CODE IDENT	DWG NO.		
CONTR NO.	A	74063	A-400DC		
GOVT APPVL	SCALE	NONE	SHEET 2 OF 2		