

3.65 MAX. DIA.

1.71

2.875

.75

.27

VENT
(LOCATION OPTIONAL)

3.42 SQ.

1.71

2.875

.87

A1

A2

B1

B2

9

13

.664 MAX. LUG DIA.

.562 DIA. LUG SEAT

.250-28 UNF-2A 4 STUDS.

.31 RAD. WRENCH CLEARANCE

PAINT REMOVED BOTH SIDES EITHER OF 2 OPPOSITE MTG. HOLES.

.218 ±.010 DIA. HOLE 4 MTG. HOLES.

KEYWAY

NS34ZOW10-6P

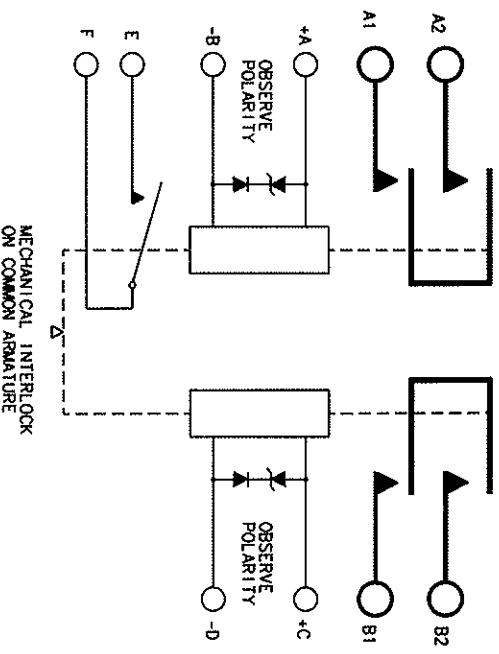
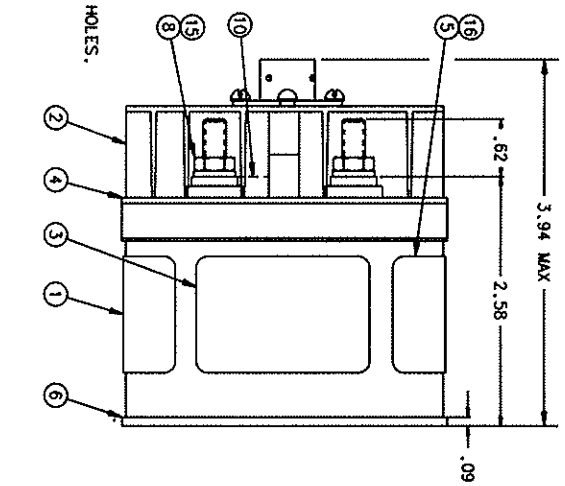
16

15

10

8

5



16	2	39529-002	OVERLAY			
15	4	51807-034	WASHER - LOCK NO. 1/4 SPLIT		MS35338-101	BRONZE
14						
13	2	51805-011	WASHER - LOCK NO. 5 SPLIT			BRONZE
12						
11						
10	2	51701-180	WASHER - .015 X .103 X 3/16			MTLAR
9	2	51205-351	SCREW - 5-40 X 7/8 RD. HD.			BRASS
8	4	50407-364	NUT 1/4-28 X 7/16 X 3/16 HEX.		MS35650-32555	BRASS
7						
6	1	41529-020	CONTACTOR ASSEMBLY - PRIMARY			
5	1	42277-001	PLATE - WIRING DIAGRAM			
4	1	42330-001	PLATE - BASE COVER			
3	1	25695-001	PLATE - WARNING			
2	1	17539-005	SHIELD - TERMINAL			
1	1	16043-001	PLATE - NAME			
ITEM NO.	QTY	PART OR IDENTIFYING NO.	NAME/CAPTURE OR DESCRIPTION	FSC# NO.	DRAWING OR SPECIFICATION	MATERIAL OR NOTE
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON						
REF. DOUGLAS 5D0040-1			HARTMAN ELECTRICAL MANUFACTURING MAAMSFIELD, OHIO			
DR BY RLS 99/12/15			RELAY, EM, 2 SPST CENTER OFF 100 AMP., 28 VDC			
CHK BY RS 99/12/15						
ENGR MGR 99/12/15						
MFG TC 99/12/15						
RELEASE			SIZE CODE IDENT DWG NO.			
CONTR NO.			C 74063 D-32A			
GOVT APPL.			SCALE NONE			
* .06 * .010 * 1 *			093			
SHEET 1 OF 2						

REV.		REVISIONS		RELEASED		APPROVED	
REV.	DESCRIPTION	DATE					
1	SEE SHEET 1 FOR REVISIONS						RS

- 1.0 COIL DATA
 - 1.1 NOMINAL OPERATING VOLTAGE 28 VDC
 - 1.2 MAXIMUM OPERATING VOLTAGE 30 VDC
 - 1.3 PICK-UP VOLTAGE 18 VDC MAX. (OVER TEMP. RANGE)
- 1.4 DROPOUT VOLTAGE 21 VDC MAX. DURING HIGH TEMP. TEST.
22.5 VDC MAX. CONT. CURRENT TEST
1.5-7.5 VDC (OVER TEMP. RANGE)
- 1.5 HOLD VOLTAGE 8.0 VDC (OVER TEMP. RANGE)
- 1.6 COIL RESISTANCE AT 77°F 163 OHMS ± 10%
- 1.7 COIL CURRENT AT 77°F & 30 VDC .215 AMP MAX.
- 1.8 DUTY CYCLE CONTINUOUS
- 1.9 PEAK INDUCED TRANSIENT VOLTAGE (BACK EMF) ±45 VOLTS
- 2.0 CONTACT DATA MAIN (2-SPST) 28 VDC
AUXILIARY (SPST) 28 VDC
- 2.1 RESISTIVE 100 AMP
.1 AMP
- 2.2 INDUCTIVE 100 AMP
.1 AMP
- 2.3 MOTOR 80 AMP
- 2.4 LAMP 50 AMP
- 2.5 CONTACT DROP MAX. 1 AMP
150 MV INITIAL
175 MV AFTER START OF LIFE TESTS:
800 AMP DC (N.O. CONTACTS)
1000 AMP DC (N.O. CONTACTS)
50,000 AT RATED RESISTIVE LOAD
50,000 AT RATED INDUCTIVE LOAD
50,000 AT RATED MOTOR LOAD
50,000 AT RATED LAMP LOAD
100,000 AT 25% RATED RESISTIVE LOAD.
- 2.6 OVERLOAD
- 2.7 RUPTURE
- 2.8 MINIMUM OPERATING CYCLES (LIFE) 50,000 AT +21°C
-55°C TO +71°C
50,000 FT.
- 3.0 ENVIRONMENTAL DATA
- 3.1 TEMPERATURE RANGE
- 3.2 ALTITUDE MAXIMUM
- 3.3 DIELECTRIC STRENGTH
- 3.3.1 AT SEA LEVEL (2-5 SEC) 28 VDC 115 VAC
1250 VRMS 1500 VRMS
COIL TO CASE
ALL OTHER POINTS 1250 VRMS 1500 VRMS
AFTER LIFE TEST 1000 VRMS 1125 VRMS
- 3.3.2 AT ALTITUDE 50,000 FEET (60 SEC) 500 VRMS
ALL POINTS 100 VRMS
500 VDC INITIAL
50 VRMS MINIMUM AT 500 VDC, AFTER ENVIRONMENTAL TESTS.
- 3.4 INSULATION RESISTANCE
- 3.5 VIBRATION (SINUSOIDAL) .06 DA (10-55 HZ)
10 G'S (55-500 HZ)
MAX. DURATION CONTACT OPENING, 2 MILLISECONDS
- 3.6 SHOCK (REF. MIL-STD-202 METHOD 213) 25 G'S FOR SIX (6) MILLI-SECONDS, NO CONTACT OPENING IN EXCESS OF TWO (2) MILLISECONDS.
- 3.7 ACCELERATION 15 G'S
- 4.0 OPERATIONAL DATA 28 VDC .050 SECOND MAX.
28 VDC .040 SECOND MAX.
28 VDC .002 SECOND MAX.
MAKE
- 4.1 OPERATE TIME AT 77°F
- 4.2 RELEASE TIME AT 77°F
- 4.3 CONTACT BOUNCE TIME AT 77°F
- 5.0 PHYSICAL DATA
- 5.1 CONSTRUCTION
- 5.2 TERMINAL STRENGTH (REF. MIL-STD-202, METHOD 211) GASKET SEALED (VENTED)
SIZE BULL TORQUE
1/4-28 50 LB. 75 LB.-IN.
- 5.3 FINISH: BLACK LACQUER
SHALL NOT DETERIORATE WHEN EXPOSED TO SKYDROL.
LD-4 MIL-H-83282.
- 5.4 TERMINALS: IN CONFORMANCE WITH MIL-R-6106 AND AS SPECIFIED HEREIN.
- 5.5 WEIGHT: 1 LB. 15 OZ. MAX.
- 6.0 NOTES:
- 6.1 THIS PART MEETS APPLICABLE MIL-R-6106 CONFORMANCE REQUIREMENTS. THIS DEVICE HAS AUXILIARY CONTACTS RATED FOR LOW LEVEL OPERATION (3 MA-100 MA)
- 6.2 DIODES ARE: JAN14 IN4249 (1000 PIV)
ZENER JAN14 IN4479 (45 VOLTS)
TERMINALS SHALL BE SUPPLIED WITH SPECIFIED HARDWARE REF. TABLE ON SHEET ONE (1).
- 6.3 HARDWARE:
- 6.4 IDENTIFICATION SHALL BE PER MIL-STD-1285 AND SHALL ALSO INCLUDE THE FOLLOWING INFORMATION:
RELAY
(FUNCTIONAL DESCRIPTION)
- 6.5 MARKING SHALL PROVIDE FOR GOOD LEGIBILITY AND WILL NOT ERODE.
- 6.6 WARNING LEGEND SHALL READ: "DO NOT DIELECTRIC COIL CIRCUIT"
- 6.7 UNLESS OTHERWISE SPECIFIED PARAMETER AND TEST TERMINOLOGY USED HEREIN IS AS DEFINED IN MIL-R-6106.
- 6.8 REMOVE PAINT FROM BOTH SIDES AT EITHER OF TWO OPPOSITE MOUNTING HOLES.
- 6.9 TERMINAL SHIELD 2 IS SECTIONED TO CLARIFY TOP VIEW.

REF. DOUGLAS 5D0040-1		HARTMAN ELECTRICAL MANUFACTURING MANSFIELD, OHIO	
DR BY	RLS	99/12/15	RELAY, EM, 2 SPST CENTER OFF 100 AMP., 28 VDC 093
CHK BY	RS	99/12/15	
ENGR	7403	99/12/15	
MFG	7403	99/12/15	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		SIZE	CODE IDENT
2 PL DEC. 13 PL DEC. 13 PL DEC. 13 PL DEC. 13		C	74063
2 PL DEC. 13 PL DEC. 13 PL DEC. 13 PL DEC. 13		SCALE	NONE
2 PL DEC. 13 PL DEC. 13 PL DEC. 13 PL DEC. 13		D-32A	
2 PL DEC. 13 PL DEC. 13 PL DEC. 13 PL DEC. 13		SHEET 2 OF 2	

Mouser Electronics

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