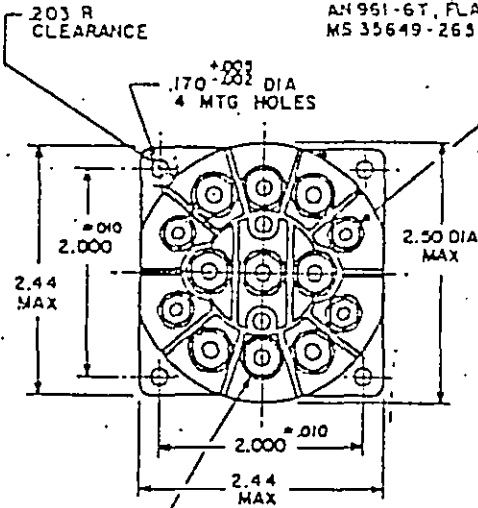


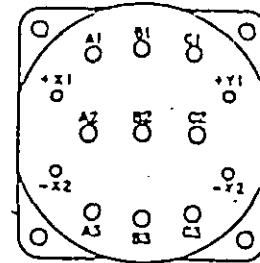
FED. SUP CLASS
5945

COIL TERMINALS

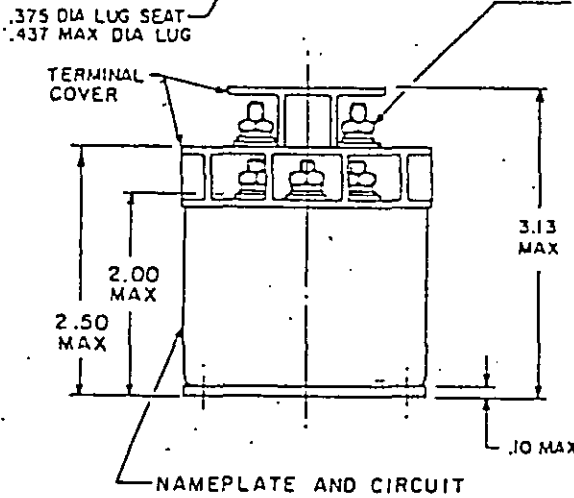
NO. 6-32 UNC-2A, STUD
MS 35338-41, LOCKWASHER
AN 951-6T, FLATWASHER
MS 35649-263 T, NUT



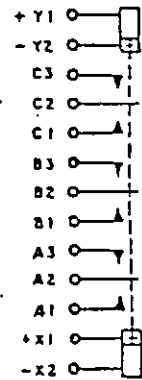
INCHES	mm
.002	0.05
.005	0.13
.010	0.25
.10	2.5
.170	4.32
.203	5.16
.375	9.52
.437	11.10
2.000	50.80
2.44	62.0
2.50	63.5
3.13	79.5



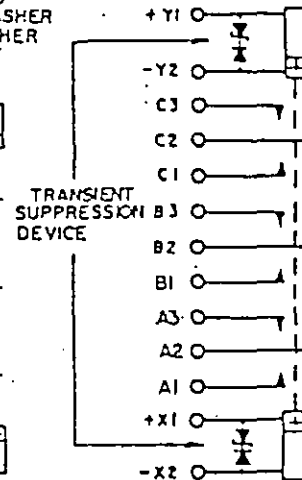
TERMINAL LAYOUT



POWER TERMINALS
NO. 10-32 UNF-2A, STUD
MS 35338-43, LOCKWASHER
AN 961-10T, FLATWASHER
MS 35650-303 T, NUT



CIRCUIT DIAGRAM - 1



CIRCUIT DIAGRAM - 2
(OBSERVE POLARITY)

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is ± 0.031 (0.79 mm).
3. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.
4. Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation form a part of this standard to the extent specified herein.
5. Weight includes terminal barriers.
6. Suppression level - the maximum induced transient voltage (back EMF) shall be 42 volts.
7. Metric equivalents are given for general information only.

MS PART NUMBER	TYPE	COIL	TERMINAL TYPE	MOUNTING	MAX WEIGHT IN POUNDS
MS 27750-1	I	DC	STUD	PLATE	.969
MS 27750-2	I	DC	STUD	PLATE	.969

(F) denotes changes

User activities: Review activities: AF-99
 This military standard is approved for use within the Department of the Air Force, and is available for use by all Departments and Agencies of the Department of Defense.

APPROVED 17 JAN 72 REVISED (E) 29 APR 1985 (F) 4 MAR 86

P.A AF-85	International Interest	TITLE	MILITARY STANDARD
Other Cust		RELAYS, ELECTROMAGNETIC, 50 AMPERES, 3 PDT-NO., CENTER OFF, HERMETICALLY SEALED	MS 27750 (85)
Procurement Specification		SUPERSEDES:	PAGE 1 OF 3
MIL-R-6106			

This military standard is approved for use within the Department of the Air Force, and is available for use by all Departments and Agencies of the Department of Defense.

Review activities: AF-99 User activities:

OPERATING CHARACTERISTICS (F)		COIL DATA										TIME-MILLISECONDS-MAX				
MS PART NO.	C	Nominal	Max	Max Pick-up Voltage		Drop Out voltage	Hold 1/1 voltage	Operate 2/2 voltage	Release 3/3 voltage	Bounce		Main	Aux			
				Volts	Freq Hz					Res Ohms	Temp C			Amp	High Test	Cont Current
MS27750-1	X1, X2	28	DC	150	29	.190	18	20	21	1.5	7.0	35	25	3		
	-2	X1, X2	28	DC	150	29	.190	18	20	1.5	7.0	35	25	3		

RATED CONTACT LOAD (AMPERES PER POLE)												CASE GROUNDED		
TYPE OF LOAD	LIFE OPERATING CYCLES x 10 ³	28 V dc		115 V ac, 1 PHASE		115/200 V ac, 3 PHASE 4/		See		Appropriate		Notes		
		Main	Aux	Main	Aux	Main	Aux	Main	Aux	Main	Aux	Main	Aux	
Resistive	50	25	15	50	50	50	50	50	50	50	50	50	50	
Inductive	20	15	15	50	50	50	50	50	50	50	50	50	50	
Motor	30	15	15	30	30	30	30	30	30	30	30	30	30	
Lamp	50	10	10	15	15	15	15	15	15	15	15	15	15	
Transfer, Load	10			12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	
Mechanical Life Reduced Current	200	7	7	14	14	14	14	14	14	14	14	14	14	
Min Current	50	1	1	5	5	5	5	5	5	5	5	5	5	

1/ Over temperature range.
 2/ With nominal coil voltage.
 3/ From nominal coil voltage.
 4/ Absence of value indicates relay is not rated for 3 phase applications.
 5/ Transfer load indicates relay suitable for transfer between unsynchronized ac power supplies at rating indicated.

P.A AF-85	International Interest	TITLE	MILITARY STANDARD
Other Cust		RELAYS, ELECTROMAGNETIC, 50 AMPERES, 3 PDT-NO., CENTER OFF, HERMETICALLY SEALED	MS27750 (85)
Purchase Specification MIL-R-6106		SUPERSEDES:	PAGE 2 OF 3

FED. SUP CLASS
5945

User activities:

Review activities: A F-99

This military standard is approved for use within the Department of the Air Force, and is available for use by all Departments and Agencies of the Department of Defense.

ENVIRONMENTAL CHARACTERISTICS

Temperature range - - - - -55°C to +71°C
 Max altitude rating - - - - -50,000 ft
 Shock G-level - - - - -50 G
 Duration - - - - -6 ms
 Max duration contact opening - 10 μs
 Vibration sinusoidal
 G-level - - - - -10 G
 Frequency range - - - - -70-2,000 Hz
 Acceleration: 15 G

ELECTRICAL CHARACTERISTICS

Insulation resistance, initial - - - 100 megohms
 After life or environmental tests - - 50 megohms
 Dielectric strength (sea level)

	Initial	After life tests
Coil to case	1000 V rms	1000 V rms
Aux contacts		
All other points	1000 V rms	1150 V rms
Dielectric strength (altitude)		
50,000 Ft		
Coil to case	500 V rms	
Aux contacts		
All other points	700 V rms	
Max contact drop initial		150 volts
After life test		175 volts
Overload current	100 A dc; 115/200 V ac;	
	400 Hz 400 A	
Rupture current	125 A dc; 115/200 V ac;	
	400 Hz 400 A	
Duty rating		Continuous

APPROVED 17 JAN 72 REVISED (F) FOR CHANGES SEE PAGES 1 & 2

P.A AF-85	International Interest	TITLE	MILITARY STANDARD
Other Cust		RELAYS, ELECTROMAGNETIC, 50 AMPERES, 3 PDT-NO., CENTER OFF, HERMETICALLY SEALED	MS27750 (85)
Procurement Specification		SUPERSEDES:	PAGE 3 OF 3
MIL-R-6106			