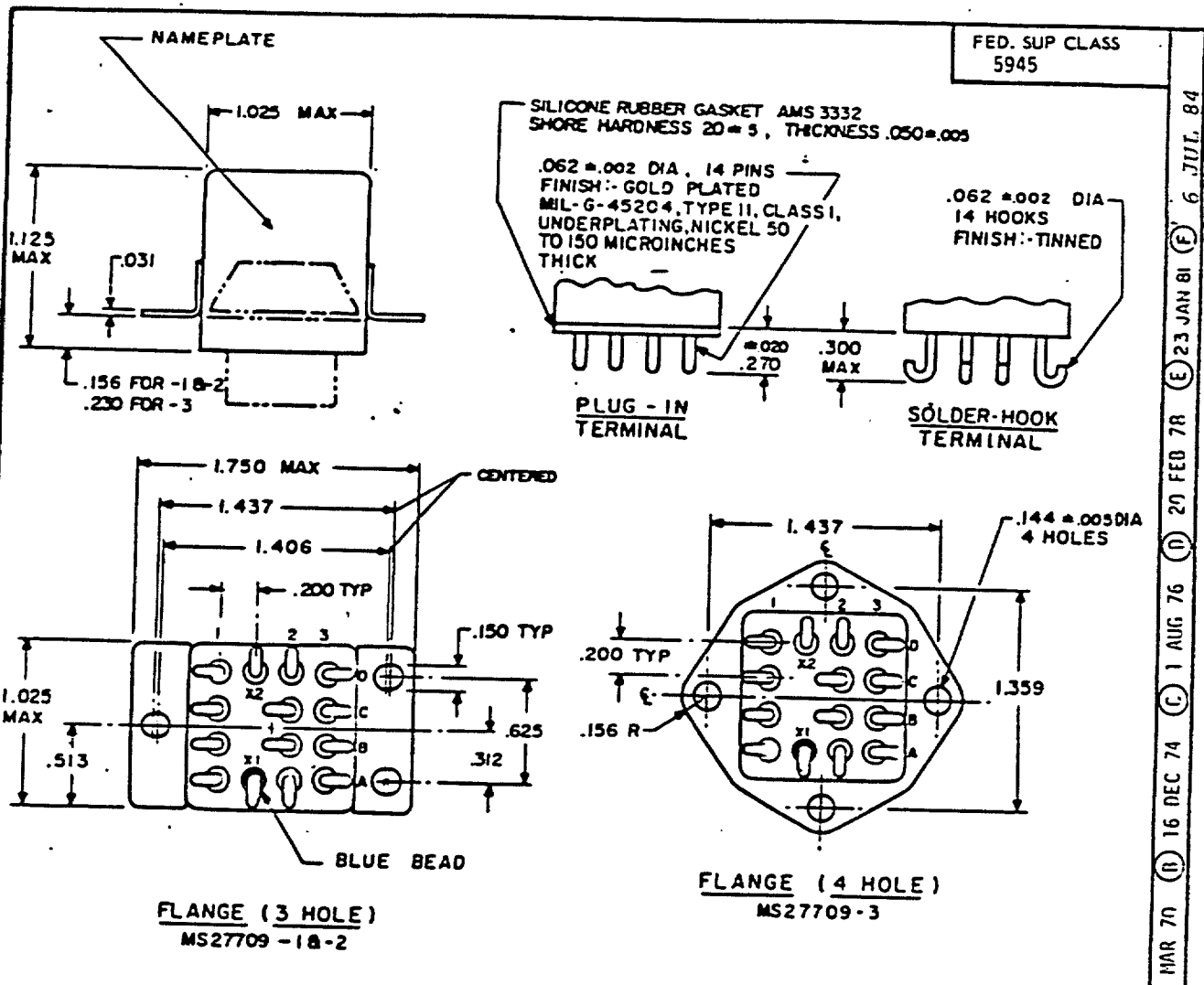
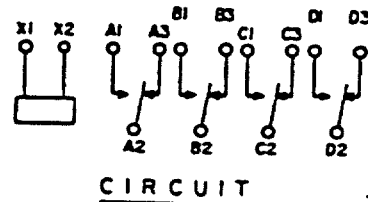


User activities:
Army -
Navy -
Air Force -Review activities:
Army - EC
Navy -
Air Force - 99,11

MS PART NUMBER	TYPE	COIL TYPE	TERMINAL TYPE	(F) MOUNTING OR MATING SOCKET	MAX WEIGHT IN LBS
MS27709-1			SOLDER HOOK	FLANGE (3 HOLE)	0.2
-2			PLUG-IN	M 12883/40, -01, -05, -07, -11, -13, -17, -19 OR -23.	0.2
-3	I	DC	SOLDER HOOK	FLANGE (4 HOLE)	0.2
-4			SOLDER HOOK	STUD	0.2
-5			POTTED LEADS	STUD	0.5
-6	I	AC	SOLDERED HOOK	STUD	0.5

LEAD CODING			
TERM	COLOR	TERM	COLOR
A1	BLUE	C2	WHITE-BROWN
A2	BROWN	C3	WHITE-RED
A3	RED	D1	WHITE-YELLOW
B1	YELLOW	D2	WHITE-ORANGE
B2	ORANGE	D3	WHITE-GREEN
B3	GREEN	X1	WHITE
C1	WHITE-BLUE	X2	BLACK



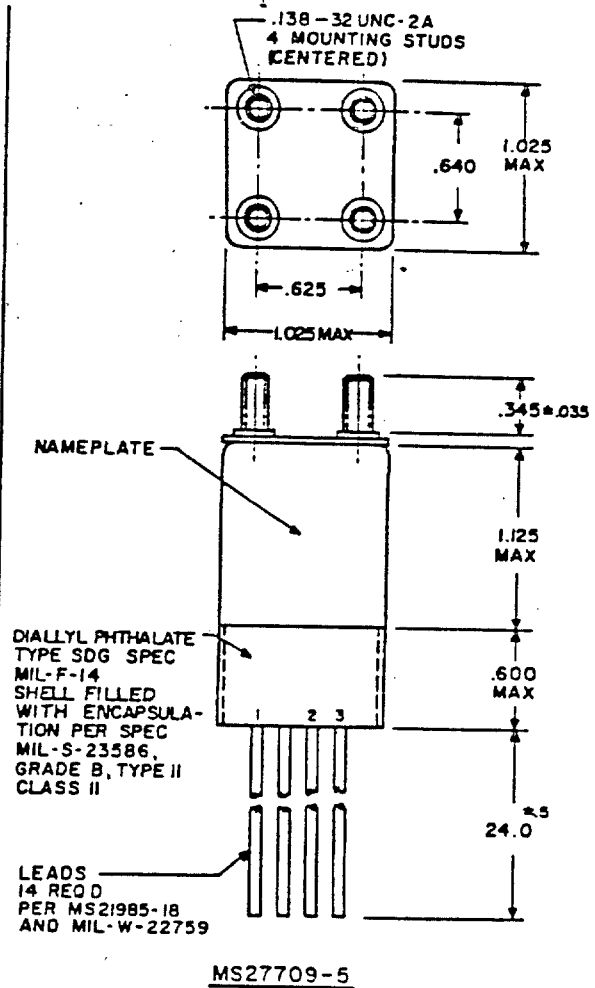
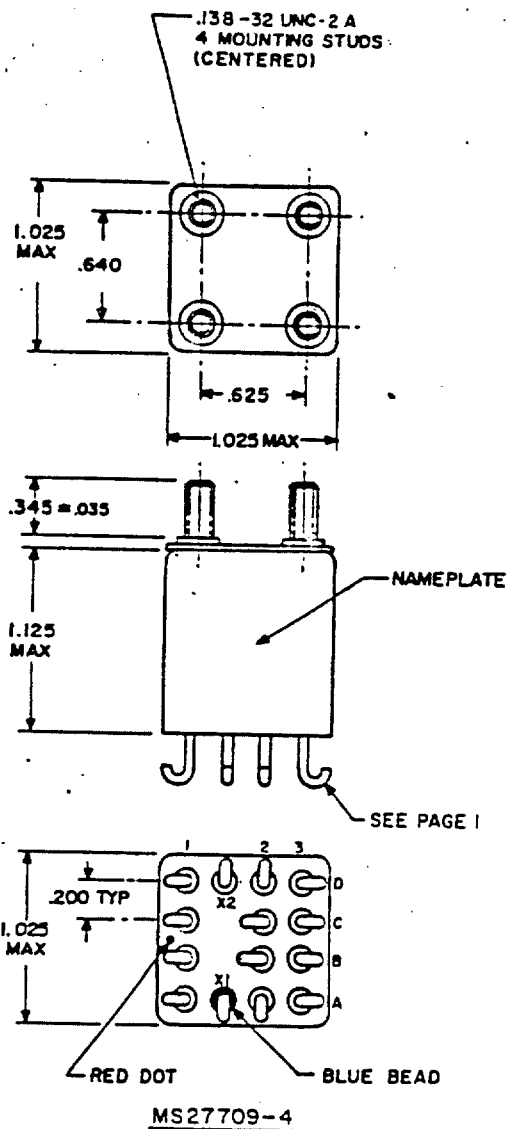
(F) Denotes change

P.A AF - 85	International Interest	TITLE	MILITARY STANDARD
Other Cust NAVY - AS		(F) RELAY, 10 AMPERES, 4 PDT, TYPE I HERMETICALLY SEALED	MS27709
Procurement Specification MIL-R-6106		SUPERSEDES:	PAGE 1 OF 3

User activities: Army -
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Air Force -

Review activities: Army - EC
Navy -
Air Force - 99,11

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.



INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
.002	.05	.062	1.57	.230	5.84	.513	13.03	1.359	34.52
.005	.13	.138	3.51	.270	6.86	.600	15.24	1.406	35.71
.020	.51	.144	3.66	.300	7.62	.625	15.88	1.437	36.50
.031	.79	.150	3.81	.312	7.92	.640	16.26	1.750	44.45
.035	.89	.156	3.96	.345	8.76	1.025	26.04	24.0	610.
.050	1.27	.200	5.08	.5	13.	1.125	28.58		

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerances are $\pm .010$ (.25 mm).
3. Metric equivalents are given for general information only.
4. Terminal numbers need not appear on the relay header, provided there is affixed to the relay a suitable legible circuit diagram that identifies each terminal location specified.
5. For design feature purposes, this standard takes precedence over procurement documents referenced herein.
6. Referenced documents shall be of the issue in effect on date of invitation for bid.

P.A AF - 85	International Interest	TITLE	MILITARY STANDARD
Other Cust NAVY - AS		(F) RELAY, 10 AMPERES, 4 PDT, TYPE I HERMETICALLY SEALED	MS27709
Procurement Specification MIL-R-6106		SUPERSEDES:	PAGE 2 OF 3

FED. SUP CLASS
5945

(F)

Operating characteristics.

MS PART NO.	Coil	Coil Data										Time milliseconds - Max2/					CONTACT SOURCE		
		volts	Freq Hz	Res. $\pm 10\%$	volts	Amp	Normal 1/	High temp test	Cont current test	Drop out voltage 1/	Hold voltage 1/	operate	release	Main		Aux	Main		
														NO	NC	NO/NC	NO	NC	NO/NC
MS27709-1	X1,X2	28	DC	220	29	.200	18	19.8	22.5	1.5	7.0	15	10	2	2	1	1	1	1
-2	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
-3	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
-4	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
-5	X1,X2	28	DC	220	29	.200	18	19.8	22.5	1.5	7.0	15	10	2	2	1	1	1	1
-6	X1,X2	115	400	---	122	.04	95	100	105	5	30	20	50	5	5	1	1	1	1

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 3/				See Appropriate Notes
		Main		Aux		Main		Aux		Main		Aux		
		NO	NC	NO	NC	400 Hz	60 Hz	400 Hz	60 Hz	400 Hz	60 Hz	400 Hz	60 Hz	
RESISTIVE	100	10	10	-	-	10		-	-	10		-	-	
INDUCTIVE				-	-			-	-			-	-	
INDUCTIVE	50	8	8	-	-	8		-	-	8		-	-	
MOTOR	100	4	4	-	-	4		-	-	4		-	-	
LAMP	100	2	2	-	-	2		-	-	2		-	-	
TRANSFER, LOAD				-	-			-	-			-	-	4/
MECHANICAL LIFE REDUCED CURRENT	400	2.5	2.5	-	-	2.5		-	-	2.5		-	-	
MIN CURRENT		APPLICABLE PER SPEC												

ENVIRONMENTAL CHARACTERISTICS

TEMPERATURE RANGE -70 °C TO +125 °C
 MAX ALTITUDE RATING 80,000 FT
 SHOCK G-LEVEL 50 G
 DURATION 10 MS
 MAX DURATION CONTACT OPENING 1 MS
 VIBRATION - SINUSOIDAL
 G-LEVEL 20 G
 FREQUENCY RANGE 10 - 2000 Hz
 VIBRATION-RANDOM
 APPLICABLE SPEC NA
 POWER SPECTRAL DENSITY NA
 RMS G MIN NA
 FREQUENCY RANGE NA
 CURVE NA
 HIGH SHOCK NA
 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	1500 V RMS	1000 V RMS

DIELECTRIC STRENGTH (ALTITUDE)

	80,000 FT.
COIL TO CASE	250V RMS
AUX CONTACTS	-
ALL OTHER POINTS	350V RMS

MAX CONTACT DROP INITIAL 150 VOLTS
 AFTER LIFE TEST 175 VOLTS
 OVERLOAD CURRENT 40 AMP DC
 RUPTURE CURRENT 50 AMP DC
 DUTY RATING CONTINUOUS
 RFI SPEC
 (APPLICABLE TO COIL CIRCUITS OF AC OPERATED RELAYS)

NOTES, APPLICATION

- 1/ Over temperature range.
- 2/ With nominal coil voltage.
- 3/ Absence of value indicates relay is not rated for 3 phase applications.
- 4/ Transfer load indicates relay suitable for transfer between unsynchronized AC power supplies at rating indicated.
- 5/ Dielectric rating may be improved by suitable insulation of terminals and wiring after installation.
- 6/ At 25°C.

P.A AF - 85

International
Interest

TITLE

RELAY, 10 AMPERES, 4 PDT, TYPE I
HERMETICALLY SEALED

MILITARY STANDARD

MS27709

Procurement Specification
MIL-R-6106

SUPERSEDES:

PAGE 3 OF 3

User activities: Army -
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APPROVED 14 July 1967
REVISED (D) For changes see pages 1 and 2 (E) FOR CHANGES SEE PAGE 1