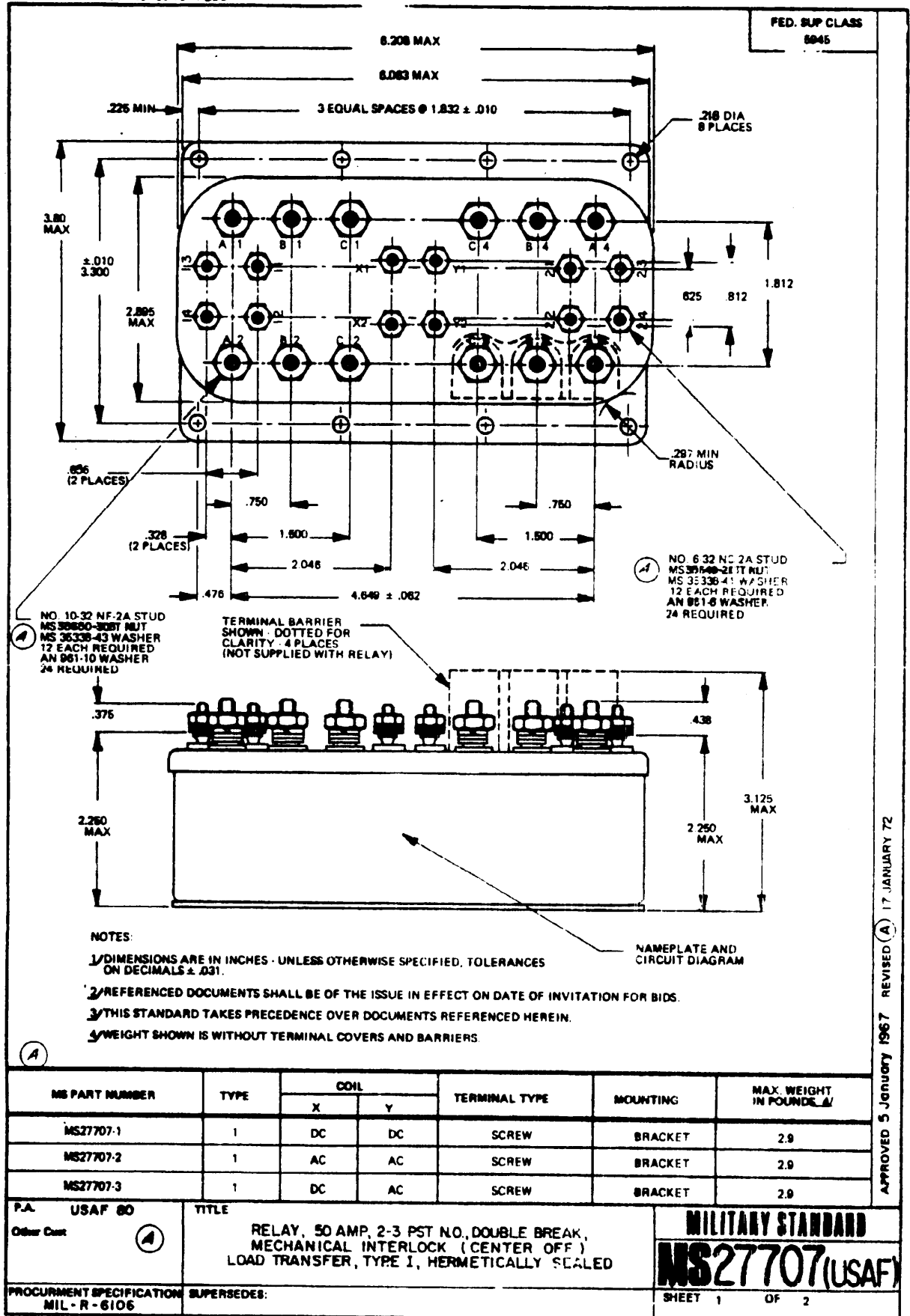


PROJ NO. 5945-P255

FED. SUP CLASS
5945

This standard has been approved by the AFLC (80) Department of the Air Force and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

MS PART NUMBER	TYPE	COIL		TERMINAL TYPE	MOUNTING	MAX. WEIGHT IN POUNDS <i>M</i>
		X	Y			
MS27707-1	1	DC	DC	SCREW	BRACKET	2.9
MS27707-2	1	AC	AC	SCREW	BRACKET	2.9
MS27707-3	1	DC	AC	SCREW	BRACKET	2.9
P.A. USAF 80 Other Cont		TITLE RELAY, 50 AMP, 2-3 PST NO, DOUBLE BREAK, MECHANICAL INTERLOCK (CENTER OFF) LOAD TRANSFER, TYPE I, HERMETICALLY SEALED				MILITARY STANDARD MS27707(USAF)
PROCUREMENT SPECIFICATION MIL-R-6106		SUPERSEDES:				SHEET 1 OF 2

APPROVED 5 Jan 66

DD FORM 672 (Limited Coordination)

EDITION OF 1 SEP 57 MAY BE USED

APPROVED 5 January 1967 REVISED (A) 17 JANUARY 72

OPERATING CHARACTERISTICS													FED. SUP CLASS 5845			
MS PART NO. MS27707	COIL	COIL DATA									TIME-MILLISECONDS - MAX. 4/					
		Nominal			Max.		Max Pick-up Voltage			Drop Out Voltage 1/	Operate	Release	Bounce			
		Volts	Freq Hz	Res Ω	Volts	Amps	Normal 1/	High Temp Test	Cont Current Test				Main		Aux	
		NO	NC	NO	NC	NO	NC	NO	NC				NO	NC		
MS-27707-1	X-Y	28	DC	-	29	0.6	18	21	22.5	1.5-7	25	10	2	-	4	4
MS27707 2	X-Y	115	400	-	124	0.2	80	100	104	5-40	35	50	2	-	4	4
MS27707-3	X	28	DC	-	29	0.6	18	21	22.5	1.5-7	25	10	2	-	4	4
	Y	115	400	-	124	0.2	80	100	104	5-40	35	50	2	-	4	4

RATED CONTACT LOAD (AMPERES PER POLE)													CASE GROUNDED			
TYPE OF LOAD	LIFE OPERATING CYCLES $\times 10^3$	28 VDC				115 VAC, 1 PHASE				115/200 VAC, 3 PHASE 2/				See Appropriate Notes		
		Main		Aux		Main		Aux		Main		Aux				
		NO	NC	NO	NC	400Hz	60Hz	400Hz	60Hz	400Hz	60Hz	400Hz	60Hz			
RESISTIVE	100	50	-	5	5	50	-	5	-	50	-	-	-			
INDUCTIVE	20	50	-	5	5	50	-	5	-	50	-	-	-			
INDUCTIVE																
MOTOR	100	50	-			50	-			50	-	-	-			
LAMP	100	5	-	1	1	5	-	1	-	5	-	-	-			
TRANSFER LOAD	50	-	-			-	-			50	-	-	-	3		
MECHANICAL LIFE REDUCED CURRENT	400	12.5	-	1.25	1.25	12.5	-	1.25	-	12.5	-	-	-			
MIN CURRENT	50	5	-	PER SPEC		5	-		-	5	-	-	-			

ENVIRONMENTAL CHARACTERISTICS

TEMPERATURE RANGE -70 to +125°C

MAX ALTITUDE RATING 80,000 FT

SHOCK G-LEVEL 50 G

DURATION 11 ms

MAX DURATION CONTACT OPENING 2 ms

VIBRATION - SINUSOIDAL 10 G

G-LEVEL 10 - 1500 Hz

FREQUENCY RANGE 15 G

ACCELERATION 15 G

AUXILIARY CONTACTS

NOTES, APPLICATION CIRCUIT

- 1/ OVER TEMPERATURE RANGE
- 2/ ABSENCE OF VALUE INDICATES RELAY IS NOT RATED FOR 3 PHASE APPLICATIONS
- 3/ TRANSFER LOAD INDICATES RELAY SUITABLE FOR TRANSFER BETWEEN UNSYNCHRONIZED AC POWER SUPPLIED AT RATING INDICATED.
- 4/ WITH NOMINAL COIL VOLTAGES

ENVIRONMENTAL CHARACTERISTICS

INSULATION RESISTANCE, INITIAL 100 MEGOHMS

AFTER LIFE OR ENVIRONMENTAL TESTS 50 MEGOHMS

DIELECTRIC STRENGTH (SEA LEVEL) Initial

	Initial	After Life Test
COIL TO CASE	1800 V RMS	1125 V RMS
AUX CONTACTS	1250 V RMS	1000 V RMS
ALL OTHER POINTS	1800 V RMS	1350 V RMS

DIELECTRIC STRENGTH (ALTITUDE)

	80,000 FT
COIL TO CASE	500 VRMS
AUX CONTACTS	500 VRMS
ALL OTHER POINTS	700 VRMS

MAX CONTACT DROP INITIAL 150 VOLTS

AFTER LIFE TEST 175 VOLTS

OVERLOAD CURRENT (NO) 400 AMPS

RUPTURE CURRENT (NO) 800 AMPS

DUTY RATING CONTINUOUS

RFI SPEC MIL-STD-461

(APPLICABLE TO COIL CIRCUITS OF AC OPERATED RELAYS)

(A) ENTIRE SHT REVISED

P.A. USAF 80	TITLE	MILITARY STANDARD
Other Cast	RELAY, 50 AMP, 2-3 PST NO, DOUBLE BREAK, MECHANICAL INTERLOCK (CENTER OFF) LOAD TRANSFER, TYPE I, HERMETICALLY SEALED	MS27707(USAF)
PROCUREMENT SPECIFICATION MIL-R-8105	SUPERSEDES:	SHEET 2

This standard has been approved by the AFPC (BO) Department of the Air Force and is mandatory for use by that activity. All other military activities are required to employ this standard, where suitable.

APPROVED 5 January 1967 REVISED (A) SEE SITS 1 AND 2