

PROJ. NO. 6210-0488

FED. SUP CLASS
6210

USER SYMBOLS:

REVIEWER SYMBOLS:

NAVY - AS
USAF - 11, 85

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PANEL ASSEMBLIES (a)

PART NO.	CLASS	DESCRIPTION
MS23007-1	I	PANEL ASSEMBLY - WITH OUTER CASE
MS23007-11	I	PANEL ASSEMBLY - WITHOUT OUTER CASE
MS23007-2	II	PANEL ASSEMBLY - WITH OUTER CASE
MS23007-22	II	PANEL ASSEMBLY - WITHOUT OUTER CASE
MS23007-3	III	PANEL ASSEMBLY - WITH OUTER CASE
MS23007-33	III	PANEL ASSEMBLY - WITHOUT OUTER CASE

(a) NOTE SHEET NOS. 2 AND 3

REQUIREMENTS:

1. MATERIAL:

- A. CHASSIS BODY & OUTER CASE: STEEL, SHEET, QQ-S-699, .060 THICK.
 B. TOP PANEL: STEEL, SHEET, QQ-S-699, .125 THICK.
 C. CHASSIS FLANGE: STEEL, SHEET, QQ-S-699, .187 THICK.
 D. COVERS, TOP PANEL: PLASTIC, TRANSPARENT, CONFORMING TO L-P-391, .125 THICK.
 E. CARDS (FACSIMILE, CIRCUIT & SWITCH IDENTIFICATION): HEAVY GRAY DRAWING PAPER.

2. FINISH: SEE PROCUREMENT SPECIFICATION.

3. THREADS: IN ACCORDANCE WITH HANDBOOK 28.

- (A) 4. DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS $\pm .015$, ANGLES $\pm 1^\circ$.
 INTERPRET DIMENSIONING AND TOLERANCING IN ACCORDANCE WITH USASI Y14.5-1966 (ANSI)

5. TAXIWAY SWITCHES: TWELVE (12), SPST, SHALL BE PROVIDED BUT NOT MOUNTED. SEE PROCUREMENT SPECIFICATION.

6. WIRE SIZES, LENGTH, ETC: SEE PROCUREMENT SPECIFICATION.

7. TERMINAL BOARDS AND WIRING INSTALLATION: SEE PROCUREMENT SPECIFICATION.

8. EXACT SHAPE OF SWITCH OPTIONAL, PROVIDED DIMENSIONS ARE NOT EXCEEDED, INTERCHANGEABILITY AND PERFORMANCE IS NOT AFFECTED AND THE DESIGN CHANGE IS APPROVED BY THE QUALIFYING ACTIVITY.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
 REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

(A) REVISED

P.A. NAVY - AS Other Cust	TITLE	MILITARY STANDARD
USAF - 82	PANEL ASSEMBLY, WITH OR WITHOUT OUTER CASE	MS23007
PROCUREMENT SPECIFICATION MIL-P-8944	SUPERSEDES	SHEET 1 OF 11

DD FORM 672-1 (Coordinated)
1 MAR 72

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PLATE NO. 22061

APPROVED 15 APR 68 REVISED (A) 13 NOV 1975

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<p>MS25002-4 (MOD) MS91528-1A4B</p> <p>OUTER CASE (IF APPLICABLE SEE SHEET 9)</p> <p>CHASSIS (SEE SHEET 6)</p> <p>CIRCUIT IDENTIFICATION CARD (UNDER PLASTIC COVER)</p> <p>MS24510-15 2 REQD</p> <p>MS24509-5 (8 REQD)</p> <p>SCREW NO. 10-32 UNF-3A X .375 LG (8 REQD)</p> <p>SCREW NO. 4-40 UNC-3A X .250 LG (12 REQD) (DRILL AND TAP AT ASSY)</p> <p>MS25002-1 (MOD) MS91528-1A4B</p> <p>SWITCH IDENTIFICATION CARD (UNDER PLASTIC COVER)</p> <p>PLACE DESIGNATION "W IND LTS, OBST LTS & BCN" ON CARD AT THIS SWITCH.</p> <p>12 PUSH-PULL SWITCHES TO BE SUPPLIED FOR INSTALLATION ON FACSIMILIE (SEE SHEET 11)</p> <p>SEE INSTRUCTION CARD AND/OR T.O.</p> <p>3.750*</p> <p>13.750*</p> <p>19.000 (REF)</p> <p>VIEW B (SHEET 3)</p> <p>FACSIMILE CARD (UNDER PLASTIC COVER)</p> <p>4.000*</p> <p>9.500*</p> <p>16.000 (REF)</p> <p>ASSEMBLY -1 (WITH OUTER CASE)</p> <p>ASSEMBLY -11 (W/O OUTER CASE)</p>		<p>FED. SUP CLASS 6210</p>
<p>MS25002-4 (MOD) MS91528-1A4B</p> <p>OUTER CASE (IF APPLICABLE SEE SHEET 9)</p> <p>CHASSIS (SEE SHEET 6)</p> <p>CIRCUIT IDENTIFICATION CARD (UNDER PLASTIC COVER)</p> <p>MS24510-15 2 REQD</p> <p>MS24509-5 (16 REQD)</p> <p>SCREW NO. 10-32 UNF-3A X .375 LG (8 REQ'D)</p> <p>SCREW NO. 4-40 UNC-3A X .250 LG (12 REQD) (DRILL AND TAP AT ASSY)</p> <p>*-DIMENSION FOR PLASTIC PANEL COVERS</p> <p>MS25002-1 (MOD) MS91528-1A4B</p> <p>SWITCH IDENTIFICATION CARD (UNDER PLASTIC COVER)</p> <p>PLACE DESIGNATION "W IND LTS, OBST LTS & BCN" ON CARD AT THIS SWITCH.</p> <p>12 PUSH-PULL SWITCHES TO BE SUPPLIED FOR INSTALLATION ON FACSIMILIE (SEE SHEET 11)</p> <p>SEE INSTRUCTION CARD AND/OR T.O.</p> <p>3.750*</p> <p>13.750*</p> <p>19.000 (REF)</p> <p>VIEW B (SHEET 3)</p> <p>FACSIMILE CARD (UNDER PLASTIC COVER)</p> <p>4.000*</p> <p>9.500*</p> <p>16.000 (REF)</p> <p>ASSEMBLY -2 (WITH OUTER CASE)</p> <p>ASSEMBLY -22 (W/O OUTER CASE)</p>		<p>APPROVED 15 APR 68</p> <p>REVISED (A) FOR CHANGES SEE SHEETS 1 T-HRU 11</p>

<p>P.A. NAVY - AS Other Cust</p> <p>USAF- 82</p>	<p>TITLE</p> <p>PANEL ASSEMBLIES, AIRPORT LIGHTING CONTROL</p>	<p>MILITARY STANDARD</p> <p>MS23007</p>
<p>PROCUREMENT SPECIFICATION MIL-P-8944</p>	<p>SUPERSEDES:</p>	<p>SHEET 2 OF 11</p>

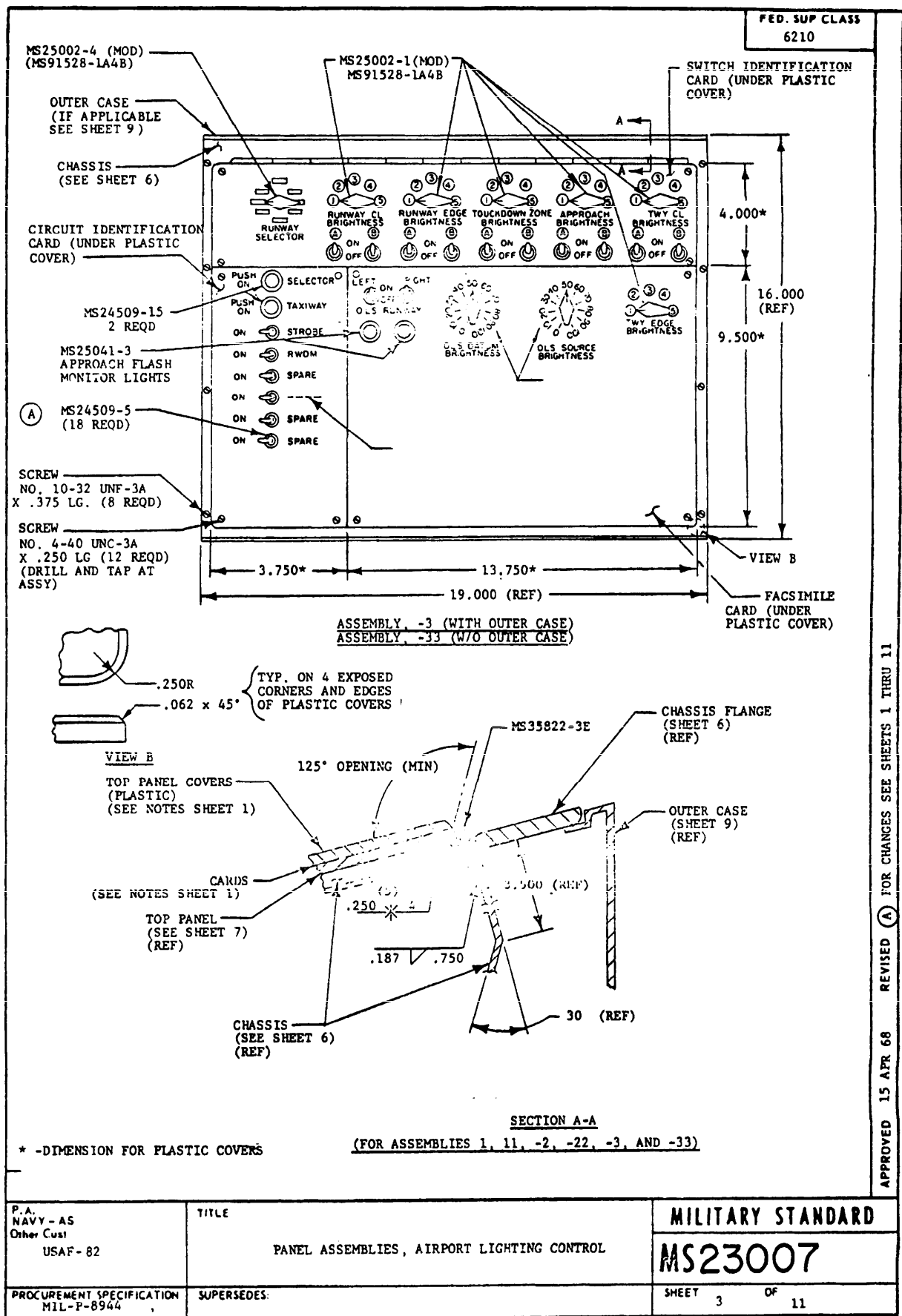
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PLATE NO. 3065

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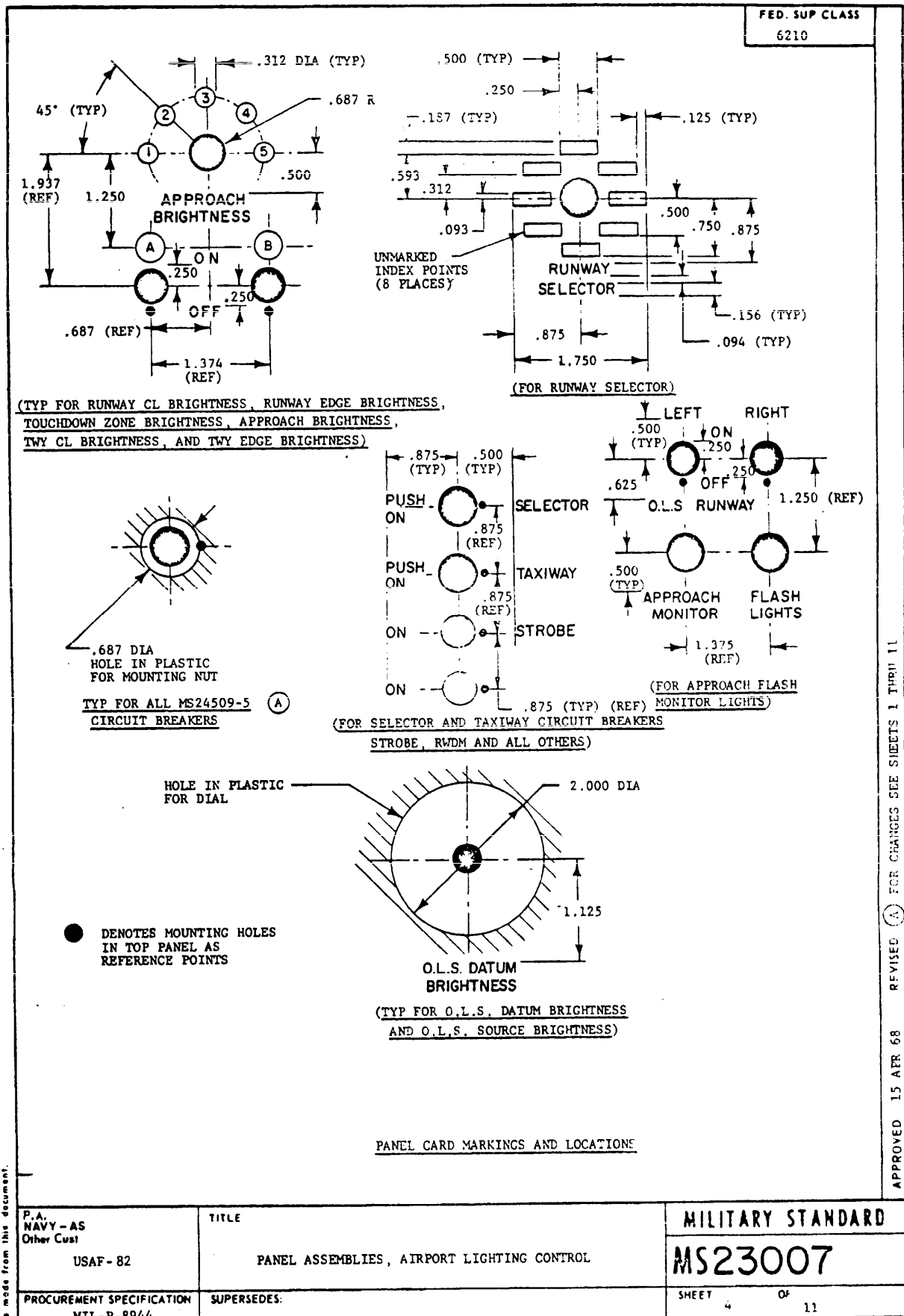
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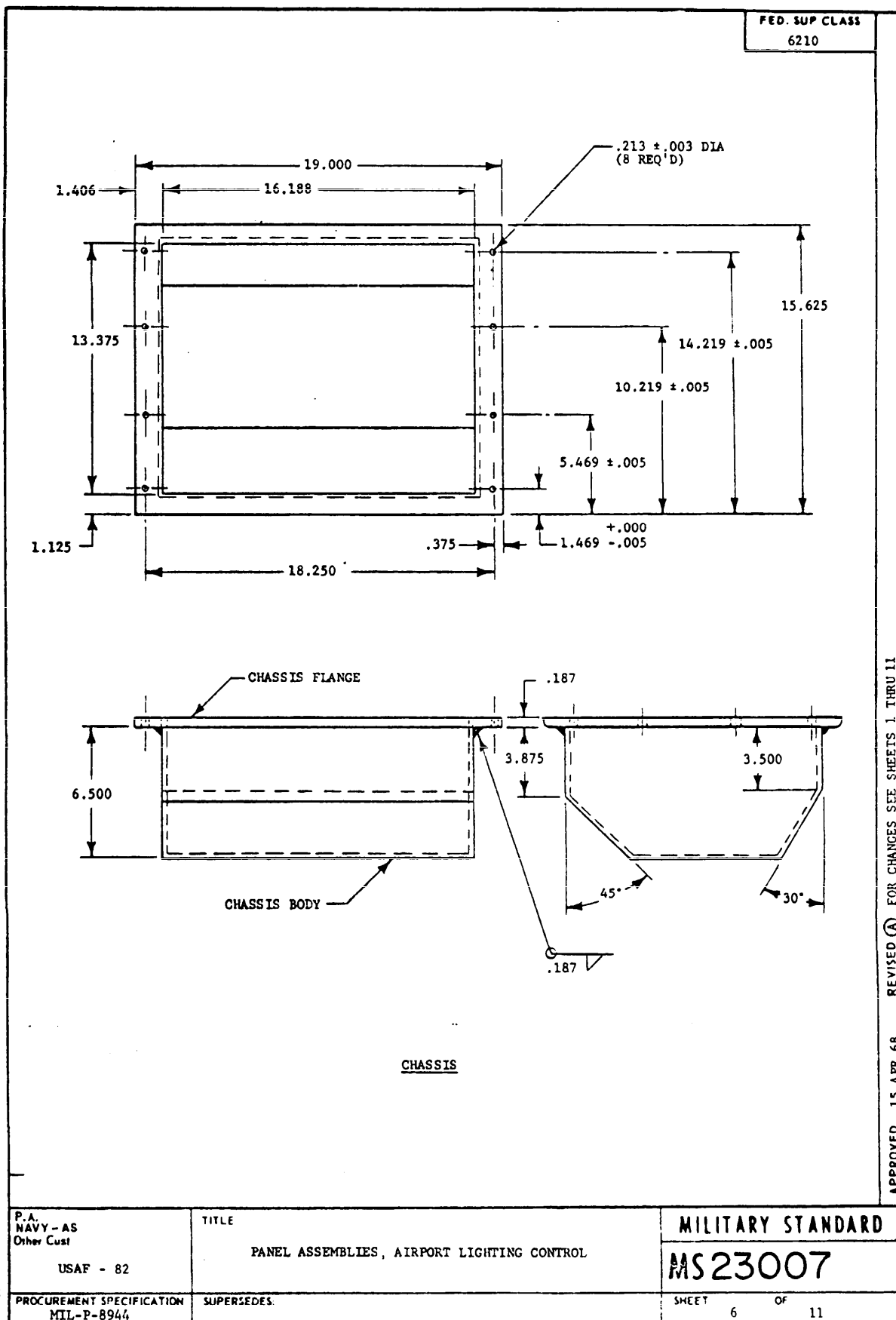
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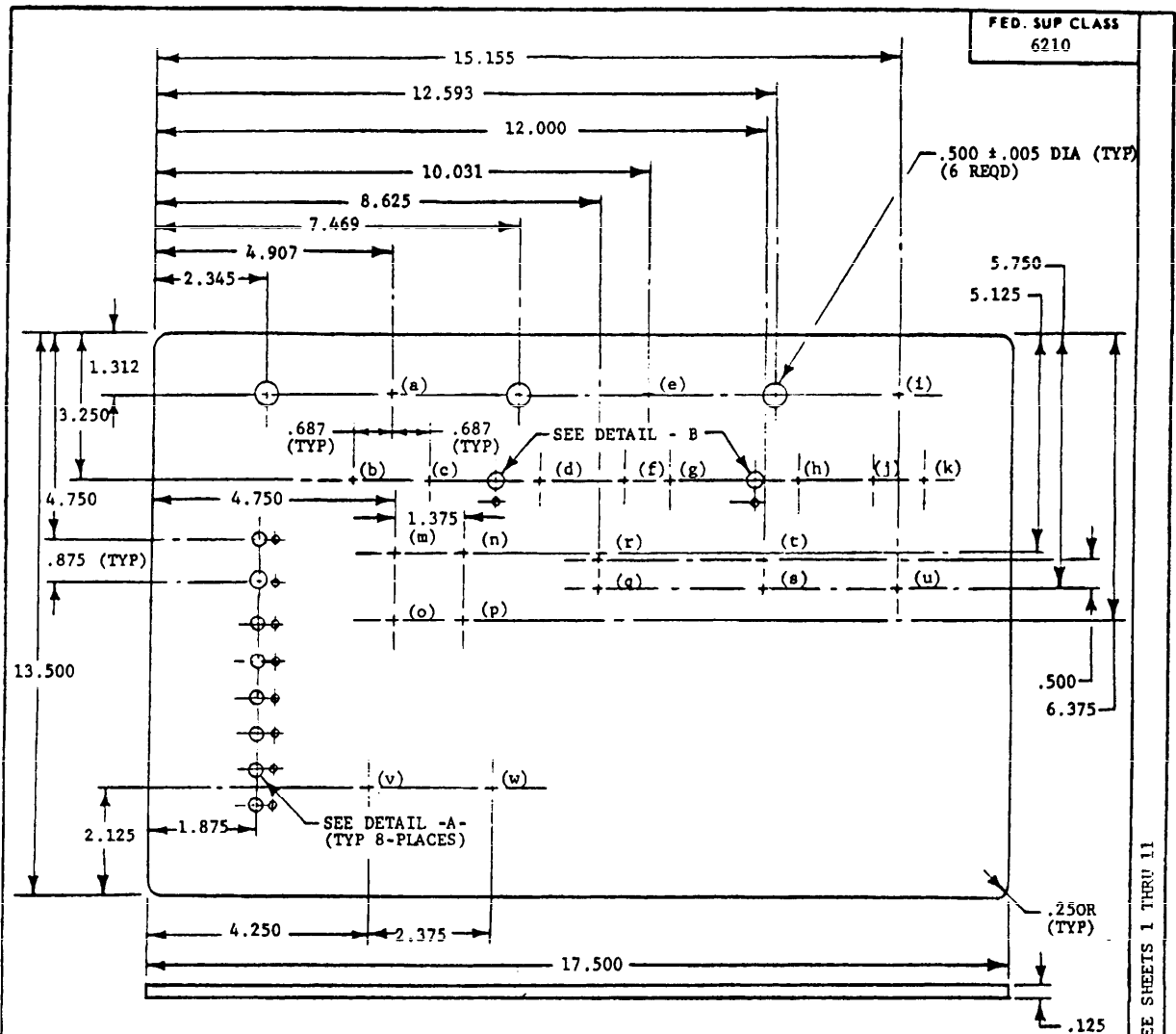
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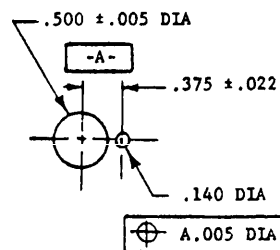
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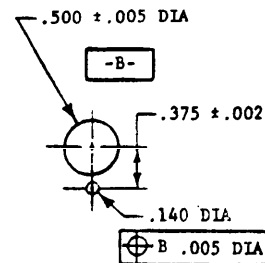
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TOP PANEL (SEE TABLE II)



DETAIL - A-



DETAIL - B-

NOTE: REMOVE BURRS AND BREAK SHARP EDGES .015 MAX

P.A. NAVY - AS Other Cust USAF - 82	TITLE PANEL ASSEMBLIES, AIRPORT LIGHTING CONTROL	MILITARY STANDARD MS23007
PROCUREMENT SPECIFICATION: MIL-P-8944	SUPERSEDES.	SHEET 7 OF 11



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TABLE II				
HOLE	HOLE DIAMETER $\pm .005$			
	MS23007-1 MS23007-11	MS23007-2 MS23007-22	MS23007-3 MS23007-33	SEE DETAIL - B
a	.047	.500	.500	
b	.047	.500	.500	*
c	.047	.500	.500	*
d	.047	.500	.500	*
e	.047	.500	.500	
f	.047	.500	.500	*
g	.047	.500	.500	*
h	.047	.500	.500	*
i	.047	.500	.500	
j	.047	.500	.500	*
k	.047	.500	.500	*
m	.047	.047	.500	*
n	.047	.047	.500	*
o	.047	.047	.500	
p	.047	.047	.500	
q	.047	.047	.386	
r	.047	.047	.185	
s	.047	.047	.385	
t	.047	.047	.185	
u	.047	.500	.500	
v	.047	.047	.144 	
w	.047	.047	.144 	

 - COUNTERSINK FOR NO. 6 FLAT HEAD SCREW

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P.A. NAVY - AS Other Cust	TITLE PANEL ASSEMBLIES, AIRPORT LIGHTING CONTROL	MILITARY STANDARD MS23007
USAF - 82 PROCUREMENT SPECIFICATION MIL-P-8944	SUPERSEDES:	SHEET 8 OF 11

DD FORM 672-1 (Coordinated)
1 MAR 72

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PLATE NO. 73085

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		FED. SUP CLASS 6210
<p>OUTER CASE</p>		
P.A. NAVY - AS Other Cust	TITLE PANEL ASSEMBLIES, AIRPORT LIGHTING CONTROL	MILITARY STANDARD
USAF - 82		MS23007
PROCUREMENT SPECIFICATION MIL-P-8944	SUPERSEDES:	SHEET 9 OF 11

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FED. SUP CLASS 6210																																					
<p style="text-align: center;">.375-32 UNEF-2B HEX NUT AND LOCK WASHER</p> <p style="text-align: center;">2.000 DIA</p> <p style="text-align: center;">2.812 DIA</p> <p style="text-align: center;">.312</p>	<p style="text-align: center;">.125 MAX MOUNTING THICKNESS</p> <p style="text-align: center;">2.062</p> <p style="text-align: center;">STOP</p> <p style="text-align: center;">STOP ARM</p>																																				
<p style="text-align: center;">.500</p> <p style="text-align: center;">.343</p> <p style="text-align: center;">.250 DIA</p> <p style="text-align: center;">.500</p> <p style="text-align: center;">.375-32 UNEF-2A</p> <p style="text-align: center;">.175 DIA X .062 POSITIONING LUG</p> <p style="text-align: center;">LOCK RING</p>	<p style="text-align: center;">(REAR VIEW)</p>																																				
<p style="text-align: center;">VIEW B-B (UNMOUNTED)</p> <p style="text-align: center;">1 2 3</p> <p style="text-align: center;">(WIRING AND CONNECTION DIAGRAM)</p>																																					
<p>TABLE III</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="3">KNOB ROTATION (322°)</th> <th colspan="3" rowspan="2">INPUT</th> <th colspan="6">OUTPUT</th> </tr> <tr> <th colspan="2">VOLTS</th> <th rowspan="2">TERMS</th> <th colspan="2">CONSTANT CURRENT</th> <th colspan="2">CONSTANT IMPEDANCE</th> </tr> <tr> <th>VOLTS</th> <th>CYCLES</th> <th>TERMS</th> <th>VOLTS</th> <th>TERMS</th> <th>MAX AMPS</th> <th>MAX KVA</th> <th>MAX AMPS</th> <th>MAX KVA</th> </tr> </thead> <tbody> <tr> <td>CW</td> <td>120</td> <td>50/60</td> <td>1-2</td> <td>0-120</td> <td>1-3</td> <td>2.25</td> <td>0.27</td> <td>3.0</td> <td>0</td> </tr> </tbody> </table> <p style="text-align: center;">VARIABLE TRANSFORMER (SEE TABLE III)</p>		KNOB ROTATION (322°)	INPUT			OUTPUT						VOLTS		TERMS	CONSTANT CURRENT		CONSTANT IMPEDANCE		VOLTS	CYCLES	TERMS	VOLTS	TERMS	MAX AMPS	MAX KVA	MAX AMPS	MAX KVA	CW	120	50/60	1-2	0-120	1-3	2.25	0.27	3.0	0
KNOB ROTATION (322°)	INPUT					OUTPUT																															
				VOLTS		TERMS	CONSTANT CURRENT		CONSTANT IMPEDANCE																												
	VOLTS	CYCLES	TERMS	VOLTS	TERMS		MAX AMPS	MAX KVA	MAX AMPS	MAX KVA																											
CW	120	50/60	1-2	0-120	1-3	2.25	0.27	3.0	0																												
P.A. NAVY - AS Other Cust USAF - 82	TITLE PANEL ASSEMBLIES, AIRPORT LIGHTING CONTROL		MILITARY STANDARD MS23007																																		
PROCUREMENT SPECIFICATION MIL-P-8944	SUPERSEDES:		SHEET 10 OF 11																																		

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DD FORM 1 MAR 72 672-1 (Coordinated)

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PLATE NO. 2305

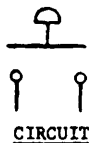
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CURRENT CAPACITY 125 VOLTS, 60 CYCLES
INDUCTIVE
3A 80% P.F.

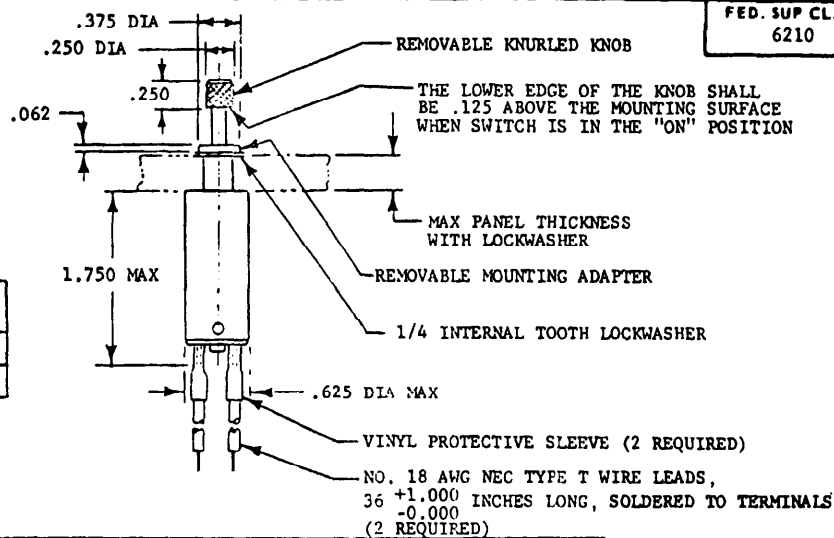


TABLE IV - PUSH-PULL SWITCH (SEE NOTE 8)

SWITCH DATA	
TYPE	SPST PUSH-PULL
ACTUATING FORCE	1 ± 1/2 LB
TOTAL TRAVEL	1/4 MIN
MINIMUM OPERATING CYCLES	10,000 AT 3A, 125V AC
WEIGHT	.04 LB MAX
STRENGTH OF PUSH BUTTON AND PUSH BUTTON STOP	15 LBS
STRENGTH OF TERMINALS	5 LBS
CONTACT GAP	DOUBLE .020
AMBIENT TEMPERATURE RANGE	-20°C TO 55°C

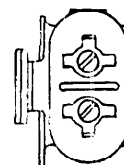
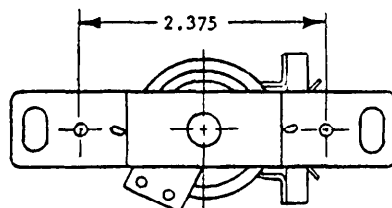


TABLE V - WARNING BUZZER (W/O LEADS) (EDWARDS 1054 FLASH BUZZER OR EQUAL)

OPERATING CHARACTERISTICS					MOUNTING	MIN DEPTH IN INCHES OF OUTLET BOX AND/ OR PLASTIC COVER	FINISH PLATE	APPROX WEIGHT LBS
VOLTS AC	V-A	AMPS	DC OHMS	FINISH				
120	6.0	.05	1400	ZINC PLATED	MOUNTS ON ANY STANDARD SINGLE GANG BOX OR SINGLE GANG OPENING	1-3/8	STD GANG PLATE WITH SINGLE TOGGLE OPENING (NOT SUPPLIED)	1/4

TABLE VI - WIRING AND MODIFICATION FOR MS25002 SWITCH

PART NO.	WAFER NO.	ELECTRICAL CONNECTIONS WITH KNOB POINTER AT POSITION								
		1	2	3	4	5	6	7	8	
MS25002-1	1	-	-	11-13	11-14	11-15	11-16	11-17	-	5 POSITION - NO OFF
MS25002-4 MODIFIED	1	-	11-12	11-13	11-14	11-15	11-16	11-17	11-18	8 POSITION - NO OFF CONTINUOUS ROTATION
	2	21-22	-	-	-	-	-	-	-	
	3	-	31-32	31-33	31-34	31-35	31-36	31-37	31-38	
	4	41-42	-	-	-	-	-	-	-	

P.A.
NAVY - AS
Other Cust

USAF - 82

PROCUREMENT SPECIFICATION
MIL-P-8944

TITLE

PANEL ASSEMBLIES, AIRPORT LIGHTING CONTROL

SUPERSEDES.

MILITARY STANDARD

MS23007

SHEET 11 OF 11

