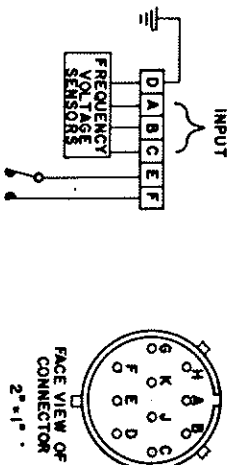
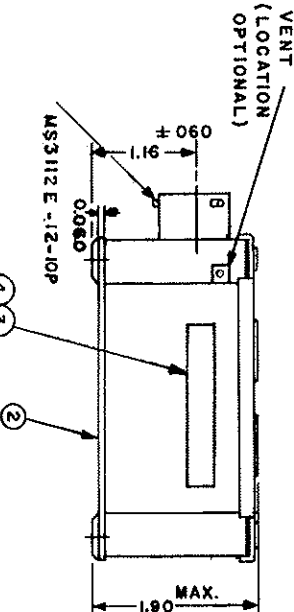
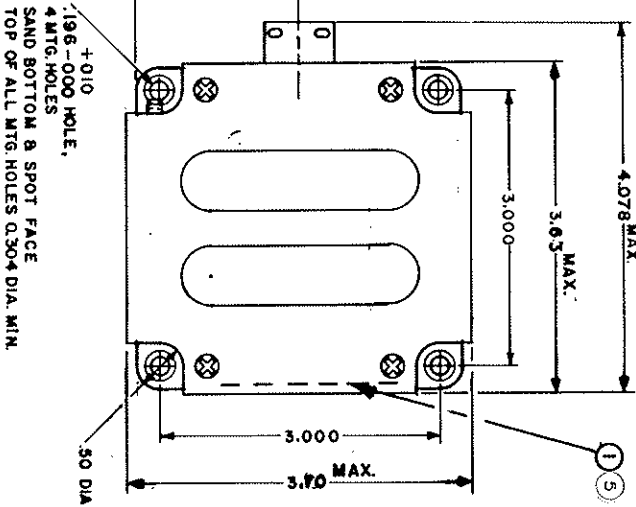


# FAA/PMA

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| REV. 6 |                                  | REVISIONS |          | DATE |                    | APPROVED |          |
|--------|----------------------------------|-----------|----------|------|--------------------|----------|----------|
| REV.   | DESCRIPTION                      | DATE      | APPROVED | REV. | DESCRIPTION        | DATE     | APPROVED |
| 1      | 18860 CONNECTOR WAS PTOZE-12-10P | 3-18-88   | TS       | 2    | 19210 NOTE UPDATED | 12-11-89 | CB       |
| 3      | 213381 ADDED ITEMS 3 & 4         |           |          | 4    | 41853 ITEM 5 ADDED | 00-03-07 | RS       |

1. CONSTRUCT: ALUMINUM CASE, GASKET SEALED, VENTED
2. NOMINAL INPUT VOLTS: 115 V L-N 400 CPS. 3  $\phi$  4 WIRE
- 2.2 NO DAMAGE RESULTS WITH INPUT CONDITIONS PER MIL-E-24021A (WEP) PAR. 3.2.1
- 2.3 DIELECTRIC STRENGTH: LEAKAGE CURRENT WILL NOT EXCEED 0.001 AMPS WHEN UNIT IS SUBJECTED TO TEST OF PAR 4.6.2 OF MIL-E-24021A
3. ENVIRONMENT
  - 3.1 TEMPERATURE -54°C TO +71°C OPERATING
  - 3.2 ACCELERATION 7g DC-FREQUENZIZED
  - 3.3 ALTITUDE 0-40,000 FEET
  - 3.4 SHOCK 10G 30  $\pm$  1 MS
  - 3.5 VIBRATION 5-15.5 CPS  $\pm$  0.15G, 15.5-54 CPS 0.01 INCH DA 54-500 CPS  $\pm$  1.5g
  - 3.6 NOISE DASPL 115 db
  - 3.7 ATTITUDE UNIT IS OPERATIONAL IN ANY ATTITUDE
- 4.0 OPERATION CONTACTS WILL REMAIN AS SHOWN (OFF CONDITION) UNTIL INPUT POWER IS ANYWHERE WITHIN THE "ON" ZONE. CONTACTS WILL REVERT TO OFF CONDITION WHENEVER INPUT VOLTAGE AND/OR FREQUENCY IS ABOVE THE HIGH SIDE OR BELOW THE LOW SIDE "OFF" LIMITS FOR TIME INTERVALS EXCEEDING THE TRANSIENT PERIOD



- 5.0 LIMITS
  - 5.1 "ON" ZONE
    - 5.1.1 "ON" ZONE VOLTAGE LIMITS 100 TO 120 VOLTS RMS ALL PHASES
    - 5.1.2 "ON" ZONE FREQUENCY LIMITS 380 TO 420 CPS
  - 5.2 "OFF" LIMITS
    - 5.2.1.1 HIGH SIDE VOLTAGE "OFF" LIMITS 131  $\pm$  5 VOLTS 3  $\phi$  (HIGHEST OF 3  $\phi$ )
    - 5.2.1.2 HIGH SIDE FREQUENCY "OFF" LIMITS 425  $\pm$  5 CPS
    - 5.2.2.4 LOW SIDE FREQUENCY "OFF" LIMITS 375  $\pm$  5 CPS
    - 5.2.3 VOLTAGE TRANSIENT LIMITS
    - 5.2.3.1 HIGH SIDE - ABOVE LIMIT 2 BUT BELOW LIMIT 1 OF FIG. 2 MIL-STD-704, 30 (HIGHEST OF 3  $\phi$ )
    - 5.2.3.2 LOW SIDE - BELOW LIMIT 3 FIG. 2 MIL-STD-704
    - 5.2.4 OVER AND UNDER FREQUENCY TIME DELAY 3  $\pm$  1 SEC
    - 6.0 OUTPUT RATING SPST 3 AMP IND. 28 V DC/115 V 400 CPS
    - 7.0 WEIGHT 12 OZ MAX
    - 8.0 ADDITIONAL REQUIREMENTS
    - 8.1 UNIT IS DUST TIGHT
    - 8.2 FIRE: MATERIALS DO NOT SUPPORT COMBUSTION, ARE SELF EXTINGUISHING AND FREE OF AFTER GLOW
    - 8.3 SMOKE: UNIT WILL NOT PRODUCE ANESTHETIC OR TOXIC FUMES OR SMOKE UNDER NORMAL OPERATION OR FAILURE
    - 8.4 ELECTROMAGNETIC INTERFERENCE: MEETS REQUIREMENTS OF DAC 7914697
    - 8.5 BONDING: MEETS REQUIREMENTS OF DAC 7916997
    - 9.0 THIS UNIT MEETS THE REQUIREMENTS OF MIL-E-24021A EXCEPT AS MODIFIED HEREON

| PARTS LIST |                                   | NARTMAN ELECTRICAL MANUFACTURING |         |
|------------|-----------------------------------|----------------------------------|---------|
| QTY        | DESCRIPTION                       | PART OR IDENTIFYING NO           | ITEM NO |
| 1          | OVERLAY                           | 39529-038                        | 5       |
| 1          | RELAY - FAA/PMA                   | 39529-024                        | 4       |
| 1          | RELAY ASSEMBLY - PRIMARY          | 58400-097                        | 3       |
| 1          | PLATE-NAME PER DAC 7912000 TYPE I | 23492-D10                        | 2       |
| 1          | REDD                              | 23211-D01                        | 1       |

| DESIGNED FOR  |         | NARTMAN ELECTRICAL MANUFACTURING |    |
|---------------|---------|----------------------------------|----|
| DATE          | BY      | DATE                             | BY |
| 27-65         | DRY DEH |                                  |    |
| TOLERANCES    |         | UNLESS OTHERWISE SPECIFIED       |    |
| .00 $\pm$ .03 |         | .000 $\pm$ .010                  |    |
| MATERIAL      |         | MONITOR-EXTERNAL POWER           |    |
| APPROVED TS   |         | CODE IDENT NO                    |    |
| APPROVED      |         | 74063 C                          |    |
| SCALE 1"=1"   |         | WEIGHT                           |    |
|               |         | SHEET                            |    |

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