

TF 300

REVISIONS

| SYM | DESCRIPTION                     | DATE   | E.M.N. NO. | DRAFT | CHKD | APPD |
|-----|---------------------------------|--------|------------|-------|------|------|
| Ø   | ORIGINAL RELEASE FOR PRODUCTION | 1-9-67 | H          | WTD   |      |      |

— ELECTRICAL SPECIFICATIONS —

TRANSFORMER, RF MATCHING

COIL DATA:

PRIMARY WINDING: 47.5Ω, 75Ω, 100Ω, AT 50K/50K CPS, 25KW AVERAGE, 100 KW PEAK  
 SECONDARY WINDINGS: TO BE CONNECTED IN PARALLEL FOR 25, 40 OR 50Ω LOAD. FOR 100 Ω OUTPUT, USE 7&16 AND CONNECT 9 TO 14 IN SERIES

— MECHANICAL SPECIFICATIONS —

CASE DATA: HERMETICALLY SEALED

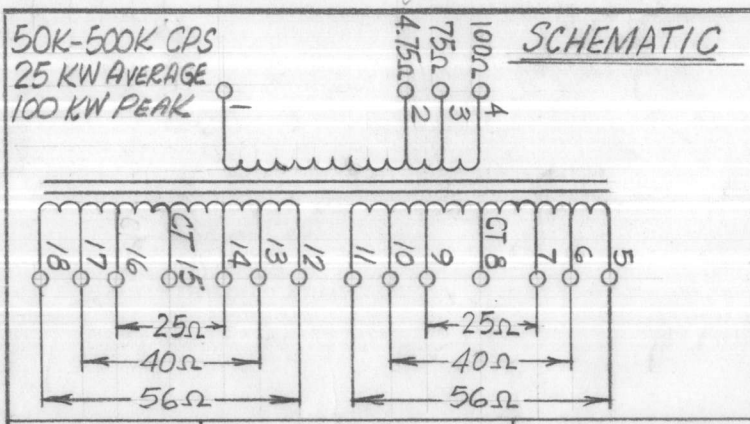
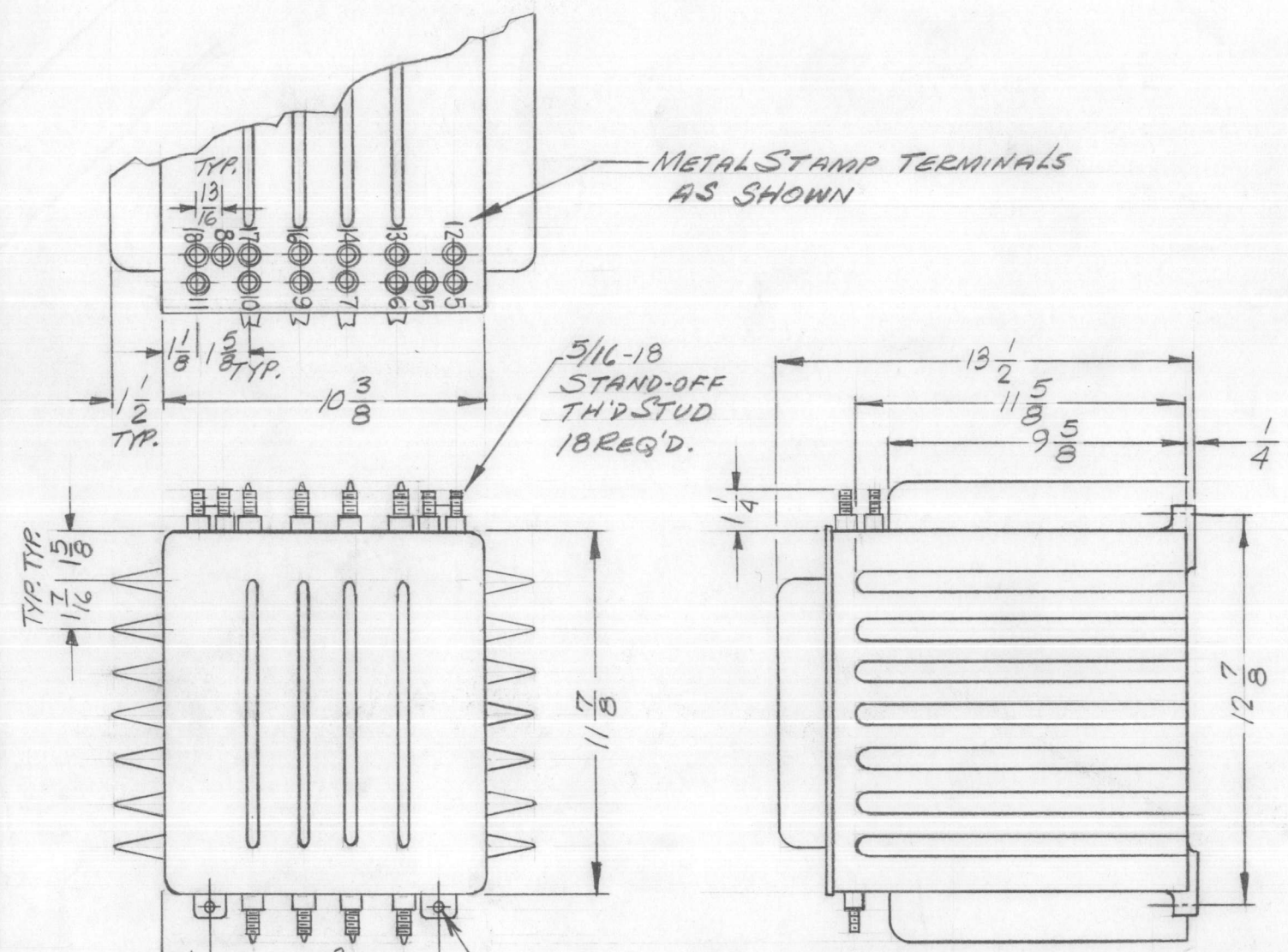
CAST ALUMINUM  
 BODY DIMENSIONS (SEE PICTORIAL)  
 OIL FILLED

MOUNTING DATA: MOUNTING METHOD (4) 5/16 DIA HOLES  
 MOUNTING DIMENSIONS (SEE PICTORIAL)

TERMINAL DATA: (18) TERMINALS  
 STAND-OFF THREADED STUD 5/16-18 x 1-1/4 HIGH  
 (NOTE: TERM. HARDWARE TO BE SUPPLIED BY MFG)

FINISH: BLACK PAINT

MARKING: METAL STAMP TERMINALS 1 THRU 18 AS SHOWN



| REQ'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|--------|------|-------------|-------------|--------|
|--------|------|-------------|-------------|--------|

POSE LIST OF MATERIAL

MATERIAL: H

FINISH: H

TITLE: THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK

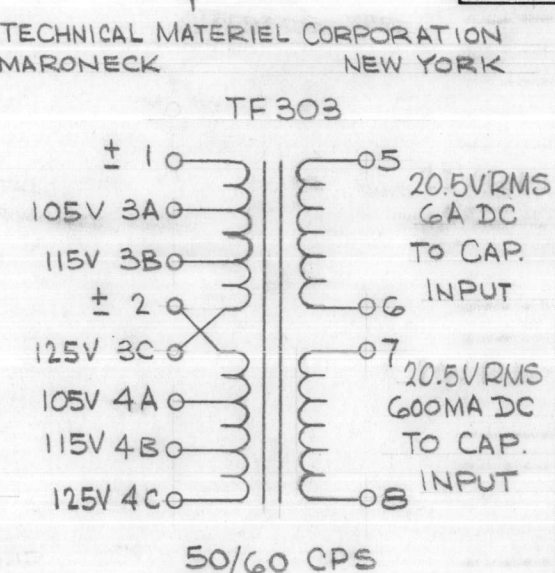
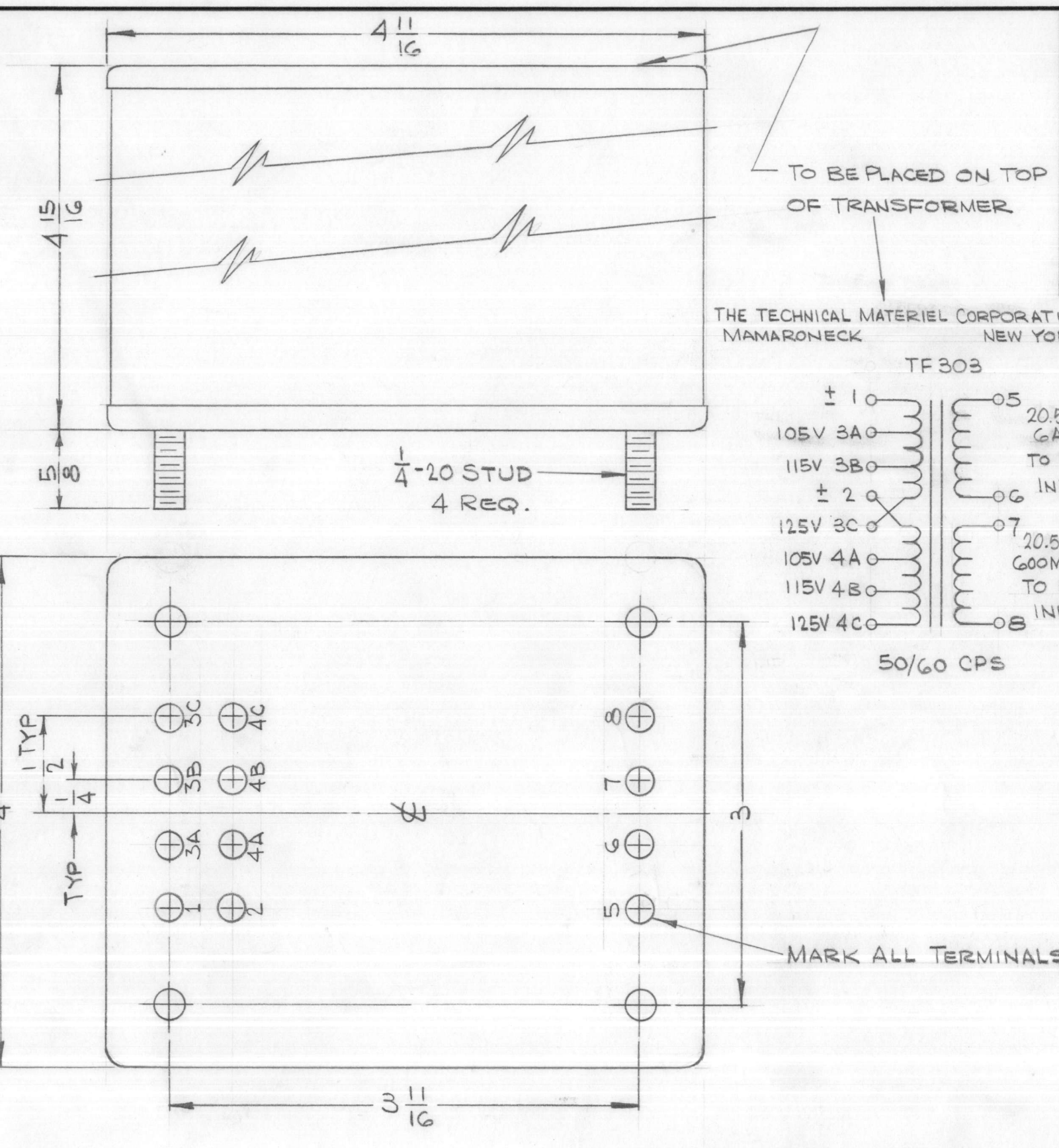
TRANSFORMER, RF MATCHING

|   |                  |                                     |                             |                        |
|---|------------------|-------------------------------------|-----------------------------|------------------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | DRAWN: H. Austin | DATE: 3-30-66                       | FINAL APPROVAL: [Signature] | DATE: 1/9/67           |
| DECIMALS: .X ± .05, .XX ± .01, .XXX ± .005  | TOLERANCES       | FRACTIONS: ± 1/64, ANGLES: ± 0° 30' | ELECT. DES. [Signature]     | MECH. DES. [Signature] |
| SHEET   |                  |                                     | REV. LTR.                   |                        |

NOTES

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

|            |               |               |
|------------|---------------|---------------|
| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO.    |
| SCALE: H   | CODE: C       | S401-30(6392) |



| REVISIONS |                                 |         |            |       |         |
|-----------|---------------------------------|---------|------------|-------|---------|
| SYM       | DESCRIPTION                     | DATE    | E.M.N. NO. | DRAFT | APPD    |
| X         | EXPERIMENTAL RELEASE            | 3-1-65  |            | H.A.  | J.M. NL |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION | 3-11-65 | AA         | H.A.  | J.M.    |

- CASE DATA:
- A. HERMETICALLY SEALED
  - B. FULLY ENCLOSED
  - C. GRAY (FINISH)
  - D. MATERIAL STEEL, HOT TIN DIPPED

- PRIMARY WINDING
- A. 105, 115, 125V
  - B. 50/60 CPS
  - C. SINGLE PHASE

- SECONDARY WINDINGS
- A. 20.5: 20.5 V
  - B. 6ADC; 600MADC

- TERMINAL DATA
- A. QUANTITY 12
  - B. SOLDER LUG

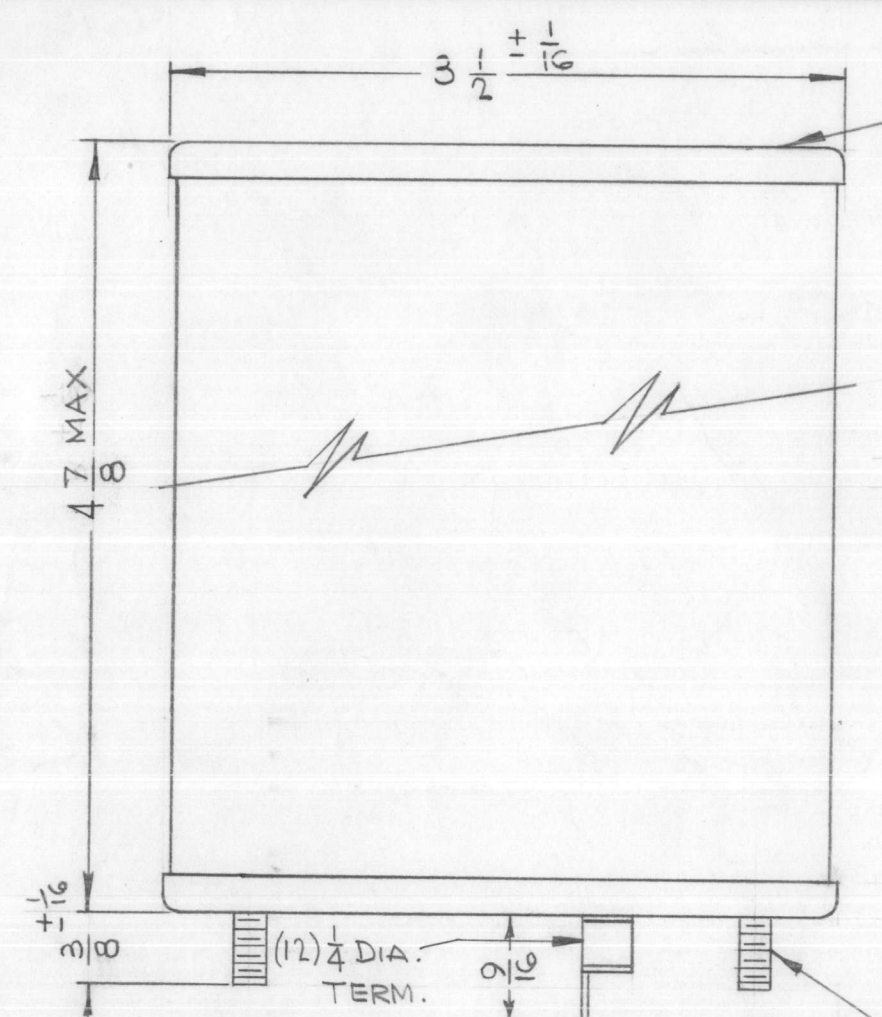
MARKING: SCHEMATIC TO BE STAMPED IN BLACK, LETTERING GOTHIC, AS PER TMC SPEC. S727 LOCATED AS SHOWN.

| REQ'D.  | ITEM | PART NUMBER                       | DESCRIPTION  | SYMBOL                               |
|---|------|-----------------------------------|--|--------------------------------------|
| <b>EATON LIST OF MATERIAL</b>   |      |                                   |  |                                      |
| MATERIAL  |      | SEE SPEC                          | <b>THE TECHNICAL MATERIEL CORP.<br/>MAMARONECK, NEW YORK</b> |                                      |
| FINISH  |      | SEE SPEC                          | TITLE<br><b>TRANSFORMER, POWER</b>                           |                                      |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |      | DRAWN<br>H. AUSTIN                | DATE<br>3-1-65   | FINAL APPROVAL<br><i>[Signature]</i> |
|   |      | CHECKED<br><i>[Signature]</i>     | DATE<br>3/11/65  | DATE<br>3/23/65                      |
|   |      | ELECT. DES.<br><i>[Signature]</i> | DATE<br>3/12/65  | DATE                                 |
|   |      | MECH. DES.                        | DATE   | DATE                                 |
|   |      |                                   |  | <b>TF 303</b>                        |
|   |      |                                   |  | SHEET                                |
|   |      |                                   |  | REV. LTR.                            |

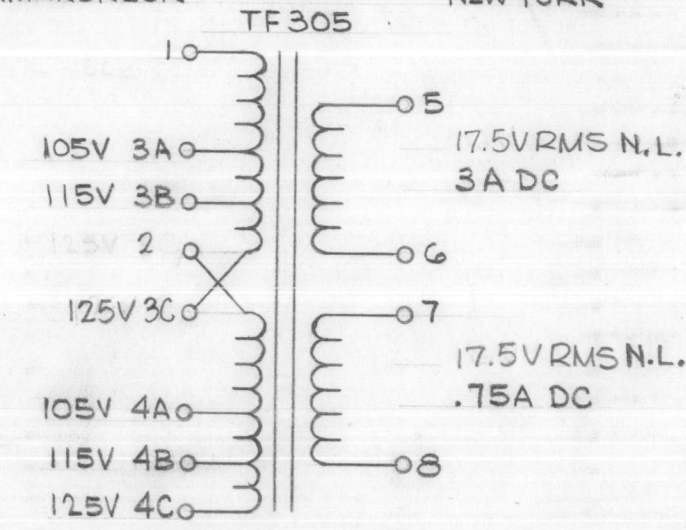
|   |  |               |         |            |  |
|---|--|---------------|---------|------------|--|
| Q'TY./UNIT  |  | MODEL USED ON |         | ASS'Y. NO. |  |
| SCALE   |  | CODE          | S401-30 |            |  |
| 1:1   |  | C             | (6344)  |            |  |
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NOTES

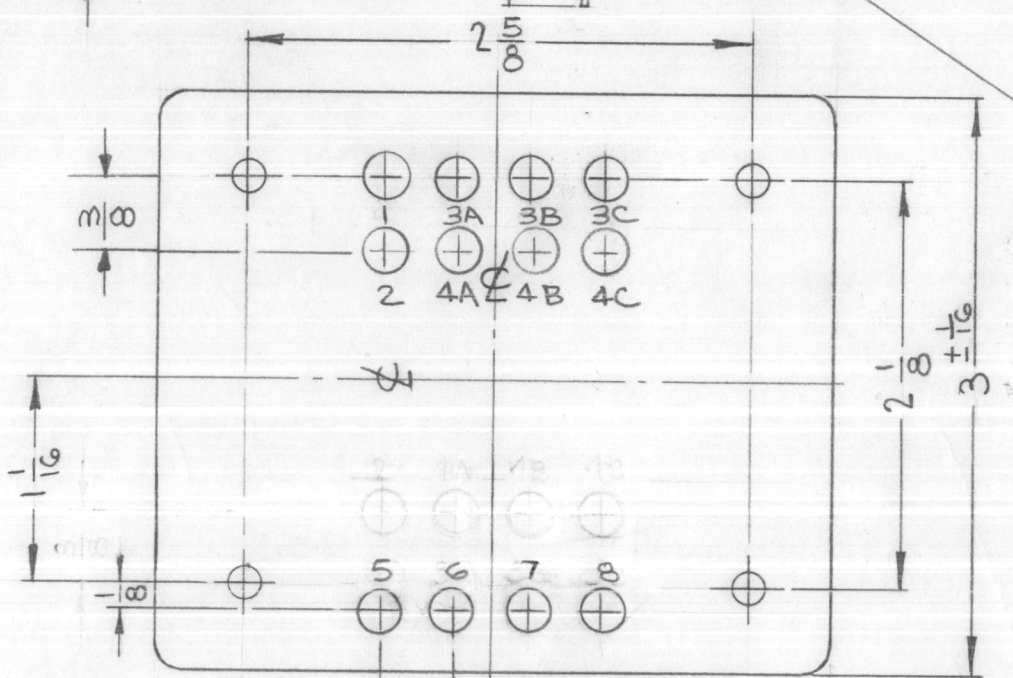
# STANDARD DRAWING



THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK



50/60 CPS



8-32 STUD  
4 REQ.

TF 305 B

| REVISIONS |  |         |            |       |           |
|-----------|--|---------|------------|-------|-----------|
| SYM       | DESCRIPTION  | DATE    | E.M.N. NO. | DRAFT | CHKD APPD |
| X         | EXPERIMENTAL RELEASE   | 3-1-65  |            | HLA   | J.M.      |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION  | 3-11-65 |            |       | J.M.      |
| A         | 4-7/8 MAX. WAS 4-3/8 ± 1/8; "N.L." ADD. TO 17.5V RMS (2 PL.) " (NO LOAD)" ADD. TO SECONDARY WINDINGS OF CASE DATA. | 4-19-65 | 13839      | J.F.  | JCB       |
| B         | TERM CONFIG & STAMPING TURNED 180°   | 6-17-65 | 14279      | J.F.  | JCB JC    |

**CASE DATA:**

- A. HERMETICALLY SEALED
- B. FULLY ENCLOSED
- C. GREY
- D. STEEL, HOT TIN DIPPED

**PRIMARY WINDINGS**

- A. 105, 115, 125V
- B. 50/60 CPS
- C. SINGLE PHASE

**SECONDARY WINDINGS (NO LOAD)**

- A. 17.5V RMS, 17.5V RMS
- B. 3A, DC; .75ADC

**TERMINAL DATA**

- A. QUANTITY 12
- B. SOLDER LUG

**MARKING:** SCHEMATIC TO BE STAMPED IN BLACK, LETTERING GOTHIC, AS PER TMC SPEC. S727 LOCATED AS SHOWN.

| REQ'D.  | ITEM | PART NUMBER | DESCRIPTION  | SYMBOL          |
|---|------|-------------|--|-----------------|
| <b>LIST OF MATERIAL</b>   |      |             |  |                 |
| MATERIAL  |      | SEE SPEC.   | <b>THE TECHNICAL MATERIEL CORP.<br/>MAMARONECK, NEW YORK</b> |                 |
| FINISH  |      | SEE SPEC.   | TITLE<br>TRANSFORMER,  |                 |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |      |             | DRAWN<br>H. AUSTIN   | DATE<br>3-1-65  |
|   |      |             | CHECKED<br>JCB   | DATE<br>3-11-65 |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  |      |             | ELECT. DES.<br>J.P. Eaton                                    | DATE<br>3-23-65 |
|   |      |             | TOLERANCES<br>± 1/64<br>ANGLES<br>± 0° 30'                   |                 |
| Q'TY./UNIT  |      |             | FINAL APPROVAL   | DATE            |
| SCALE   |      |             |  | 3/23/65         |
| MODEL USED ON   |      |             | <b>TF 305</b>  |                 |
| ASS'Y. NO.  |      |             | <b>B</b>   |                 |
| CODE  |      |             | SHEET  |                 |
| C   |      |             | REV. LTR.  |                 |
| S401-30<br>(6465)   |      |             |  |                 |

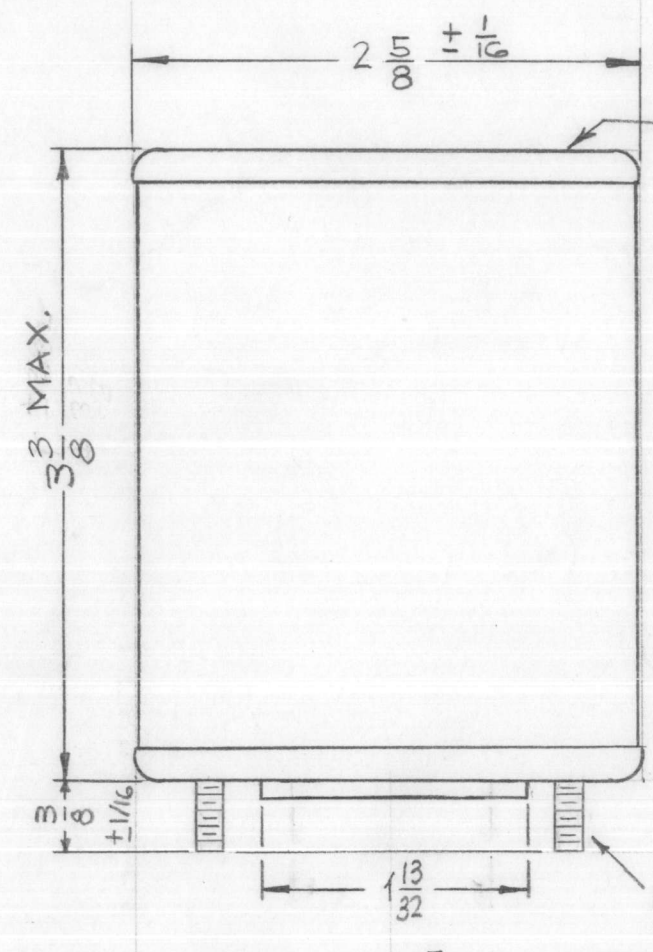
**NOTES**

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TF 306 A

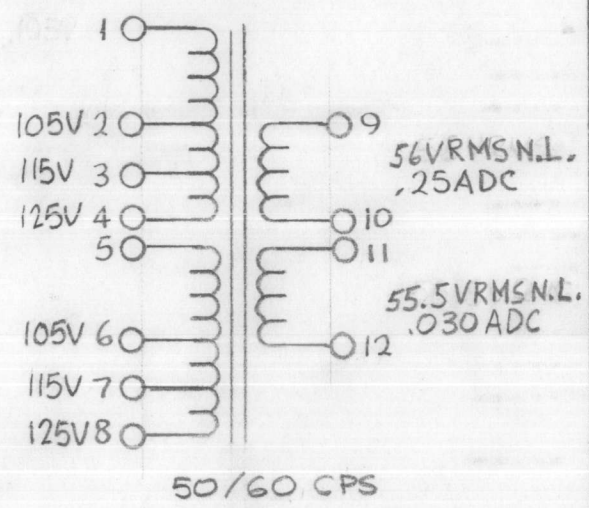
REVISIONS

| SYM | DESCRIPTION   | DATE    | E.M.N. NO. | DRAFT | CHKD | APPD |
|-----|---|---------|------------|-------|------|------|
| X   | EXPERIMENTAL RELEASE  | 2-25-65 |            | HCA   | JM   |      |
| Ø   | ORIGINAL RELEASE FOR PRODUCTION                               | 3-11-65 | #          | HCA   | JM   |      |
| A   | 3-3/8 MAX. WAS 3-3/8 ± 3/32; "H.L." ADD. TO 56VMRS & 55.5VMRS | 4-19-65 | 13839      | LL    | JCL  |      |

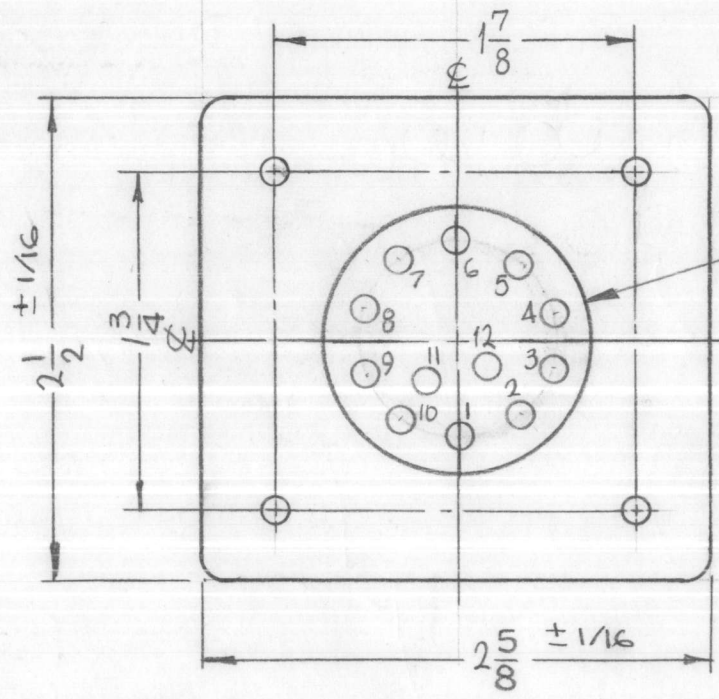


THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK

TF 306



8-32 STUD  
4 REQ.



CASE DATA:

- A. HERMETICALLY SEALED
- B. FULLY ENCLOSED
- C. GRAY
- D. MATERIAL STEEL HOT TIN DIPPED

PRIMARY WINDINGS

- A. 105, 115, 125V
- B. 50/60 CPS
- C. SINGLE

SECONDARY WINDINGS (NO LOAD)

- A. 56V; 55.5V
- B. 250MADC; 30MADC

TERMINAL DATA:

- A. QUANTITY 12
- B. SOLDER LUG

MARKING: SCHEMATIC TO BE STAMPED IN BLACK, LETTERING GOTHIC AS PER TMC SPEC. S-727 LOCATED AS SHOWN.

| REQ'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|--------|------|-------------|-------------|--------|
|--------|------|-------------|-------------|--------|

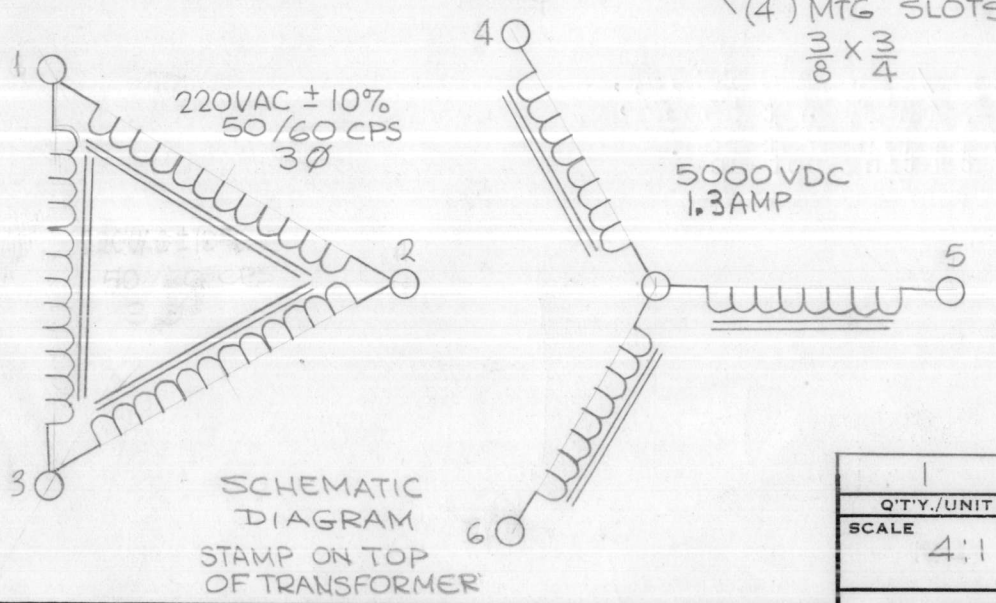
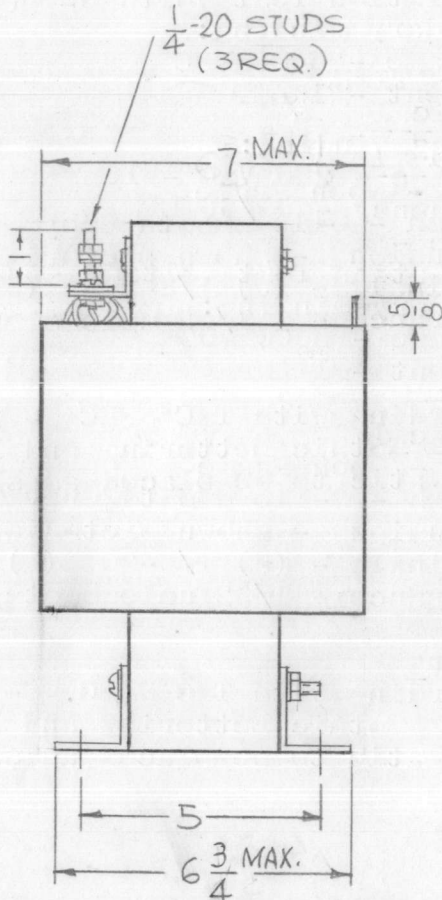
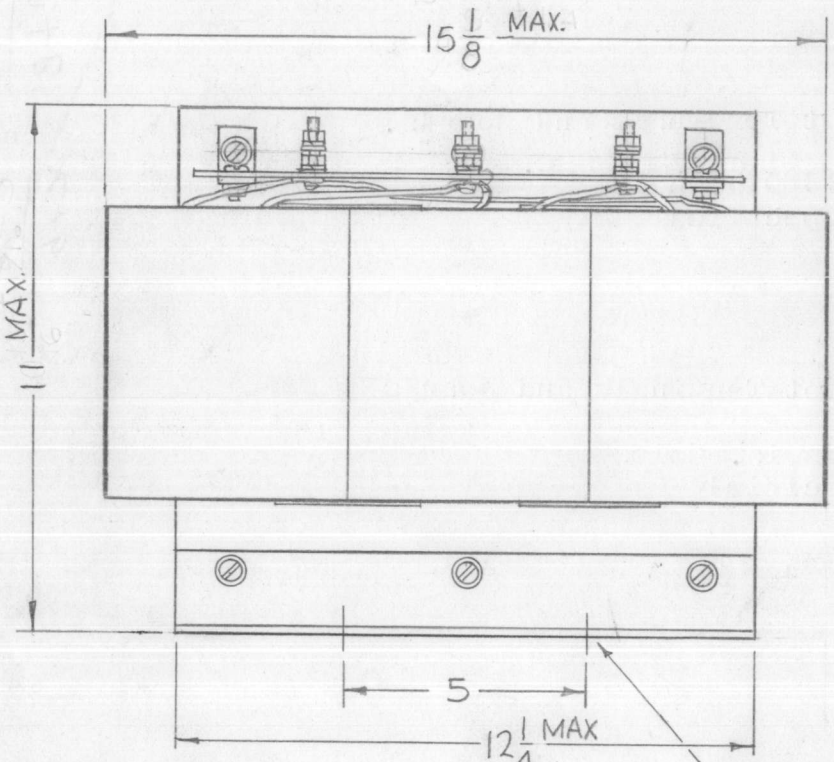
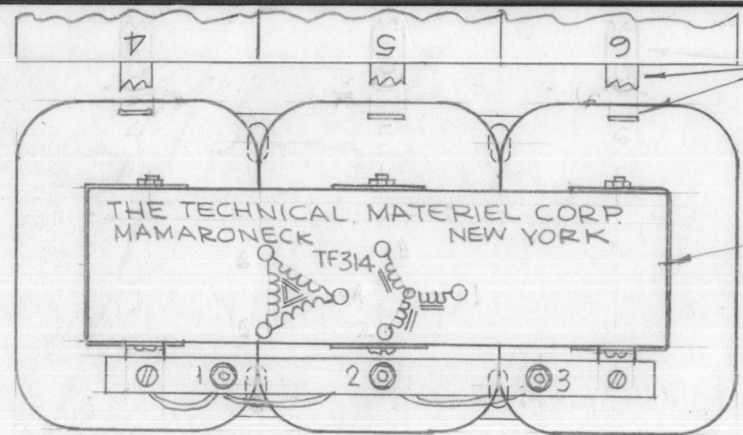
|          |           |  |  |  |
|----------|-----------|--|--|--|
| EATON    |           | LIST OF MATERIAL                                     |  |  |
| MATERIAL | SEE SPECS | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |  |  |
| FINISH   | SEE SPECS | TITLE<br>TRANSFORMER,                                |  |  |

|            |               |                   |
|------------|---------------|-------------------|
| Q'TY./UNIT | ARCA-1        | ASS'Y. NO.        |
| SCALE      | 1:1           | S401-30<br>(6470) |
|            | MODEL USED ON | CODE              |
|            | C             |                   |

|   |            |                    |                 |                       |                 |
|---|------------|--------------------|-----------------|-----------------------|-----------------|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |            | DRAWN<br>HCA       | DATE<br>2-25-65 | FINAL APPROVAL<br>MMA | DATE<br>3/23/65 |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  | TOLERANCES | ELECT. DES.<br>JCL | DATE<br>3-25-65 | TF 306                |                 |
| FRACTIONS<br>± 1/64<br>ANGLES<br>± 0° 30'   |            | MECH. DES.         | DATE            | SHEET                 | REV. LTR.<br>A  |

NOTES

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TF 314

| REVISIONS |                                 |        |            |            |      |           |
|-----------|---------------------------------|--------|------------|------------|------|-----------|
| SYM       | DESCRIPTION                     | DATE   | E.M.N. NO. | DRAFT      | CHKD | APPD      |
| X2        | COMPLETELY REVISED & REDRAWN    | 6-9-66 | X2         | <i>MB</i>  |      | <i>MB</i> |
| X3        | RATING CHANGED WAS 1 AMP        | 1-5-67 | X3         | <i>MB</i>  |      | <i>MB</i> |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION | 1-9-67 | 4          | <i>WTO</i> |      |           |

**SPECIFICATIONS**

**Electrical**  
 Primary Winding:  
 Voltage - 220 VAC ± 10%  
 Frequency - 50/60 CPS  
 Phase - 3  
 Insulation Test Voltage - 2000 VRMS PR 4000 VRMS SEC.  
 Secondary Winding:  
 Voltage - 5000 VDC  
 Current - 1.3 AMP

**Mechanical**  
 Case - Open Frame  
 Finish - S-115 Smooth Grey Enam. except Terminals and Boards  
 Dimensions - shown pictorially  
 Terminals - (3) 1/4-20 (3) with 3/16 Dia. Holes  
 Tolerance ± 1/32 unless otherwise specified

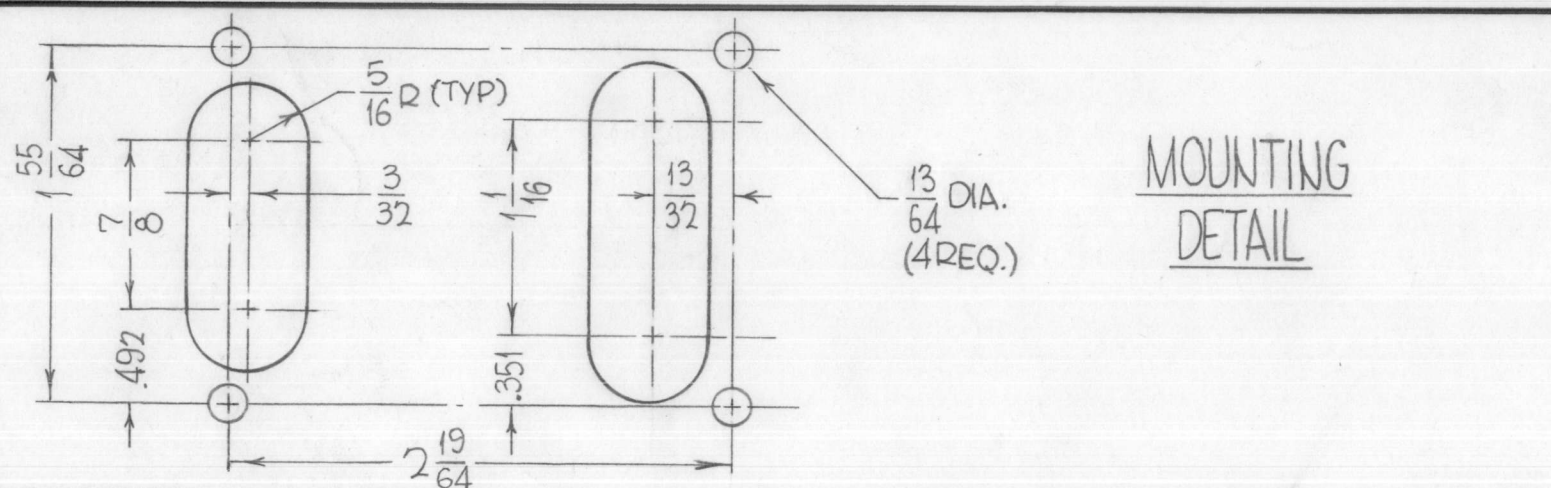
**Stamping**  
 According with TMC SPEC. S-727  
 Black Gothic Lettering and Line Work  
 Schematic to be placed as shown

NOTE: Manufactured in accordance w/MIL-SPEC T-27-A, except that MIL-SPEC T-27-A shall not appear on case and qualification testing not req.

| REQ'D.   | ITEM | PART NUMBER | DESCRIPTION  | SYMBOL      |
|--|------|-------------|--|-------------|
| F. BUDETTI LIST OF MATERIAL  |      |             |  |             |
| MATERIAL   |      |             | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |             |
| SEE SPECS  |      |             |  |             |
| FINISH   |      |             | TITLE  |             |
| SEE SPECS  |      |             | TRANSFORMER, POWER STEP-UP                           |             |
| UNLESS OTHERWISE SPECIFIED   |      |             | DRAWN <i>MB</i>                                      | DATE 6-9-66 |
| DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |      |             | CHECKED  | DATE        |
|  |      |             | ELECT. DES. <i>WTO</i>                               | DATE        |
|  |      |             | MECH. DES.   | DATE        |
|  |      |             | SHEET  |             |
|  |      |             | REV. LTR.  |             |

|            |               |                |
|------------|---------------|----------------|
| 1          | AP-129        | A5263          |
| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO.     |
| SCALE 4:1  | CODE C        | S401-30 (7195) |

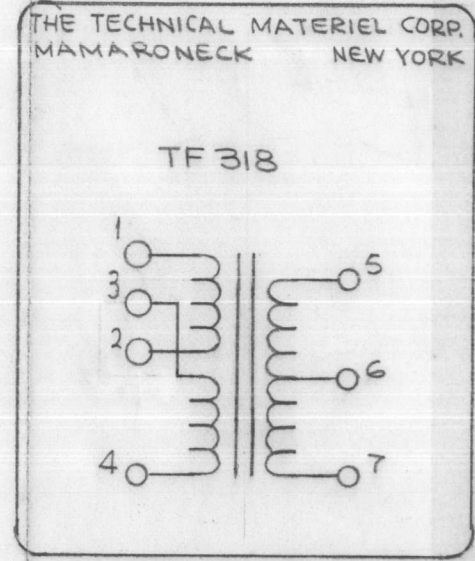
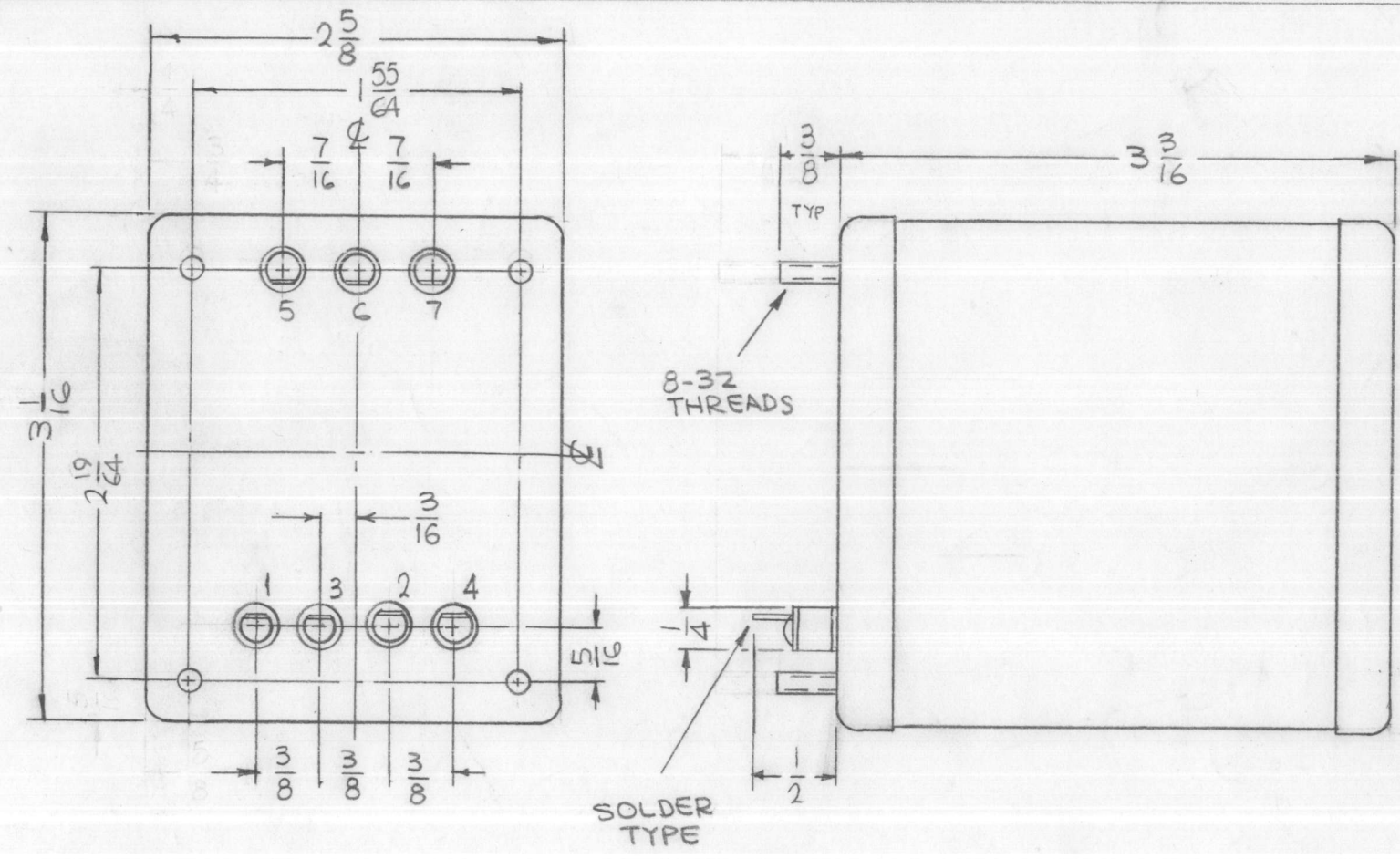
THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.



MOUNTING  
DETAIL

TF 318

| REVISIONS |   |         |            |       |           |
|-----------|---|---------|------------|-------|-----------|
| SYM       | DESCRIPTION   | DATE    | E.M.N. NO. | DRAFT | CHKD APPD |
| X1        | 3-3/16 WAS 3 1/8, ELE., MECH. SPEC. REV., MTG. DET. & MFG NO. ADDED | 12-1-65 |            | Jc    |           |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION                                     | 12-2-65 |            |       | File      |
| A         | DIM 5/16 WAS 9/16   | 5.17.66 | 16254      | wfw   |           |



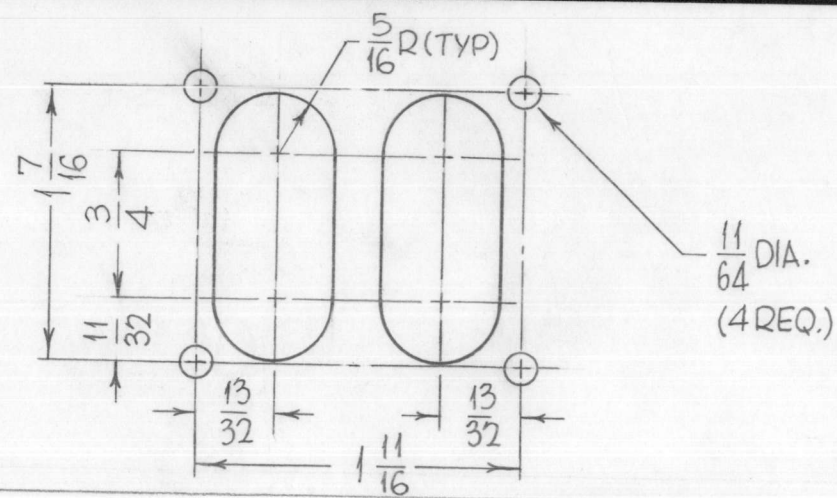
- ELECTRICAL SPECIFICATIONS-
- TRANSFORMER RF OUTPUT
  - COIL DATA:
    - PRIMARY WINDING: TERM. 1 & 4, WITH TERM. 2 & 3 JUMPED  
5KΩ IMPEDENCE
    - SECONDARY WINDING: TERM. 5 & 7  
3KΩ IMPEDENCE
- MECHANICAL SPECIFICATIONS-
- CASE DATA:
    - A. HERMETICALLY SEALED
    - B. RECTANGULAR STEEL CASE, MIL TYPE Y Y
    - C. BODY DIMENSIONS: 3-1/16 LONG  
2-5/8 WIDE  
3-3/16 HIGH
  - MOUNTING DATA:
    - A. MOUNTING METHOD: STUD
    - B. MOUNTING DIMENSIONS: (4) 8-32 STUDS ON 1-55/64 X 2-19/64 CENTERS 3/8 HIGH
  - TERMINAL DATA:
    - A. (7) TERMINALS
    - B. SOLDER TYPE 1/2 HIGH INSULATED
  - FINISH: SMOOTH GRAY ENAMEL (TMC SPEC S115) EXCEPT TERMINAL END
  - MARKING: METAL STAMP TERMINALS 1 THRU 7 AS SHOWN. MARK BOTTOM AS SHOWN PER TMC SPEC. S727.
- TEST VOLTAGE 1500 VOLTS. (Dc)

MANUFACTURE IN ACCORDANCE WITH MIL-SPECS. 27A EXCEPT MIL-SPECS SHALL NOT APPEAR ON CASE & TESTING QUALIFICATIONS NOT REQ.

NOTES

|   |               |                |
|---|---------------|----------------|
| Q'TY./UNIT  | MODEL USED ON | ASS'Y. NO.     |
| SCALE   | CODE          |                |
|   | C             | S401-30 (6633) |
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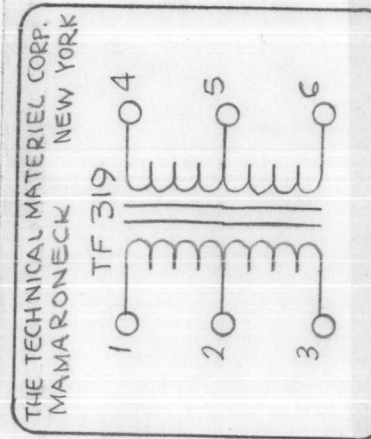
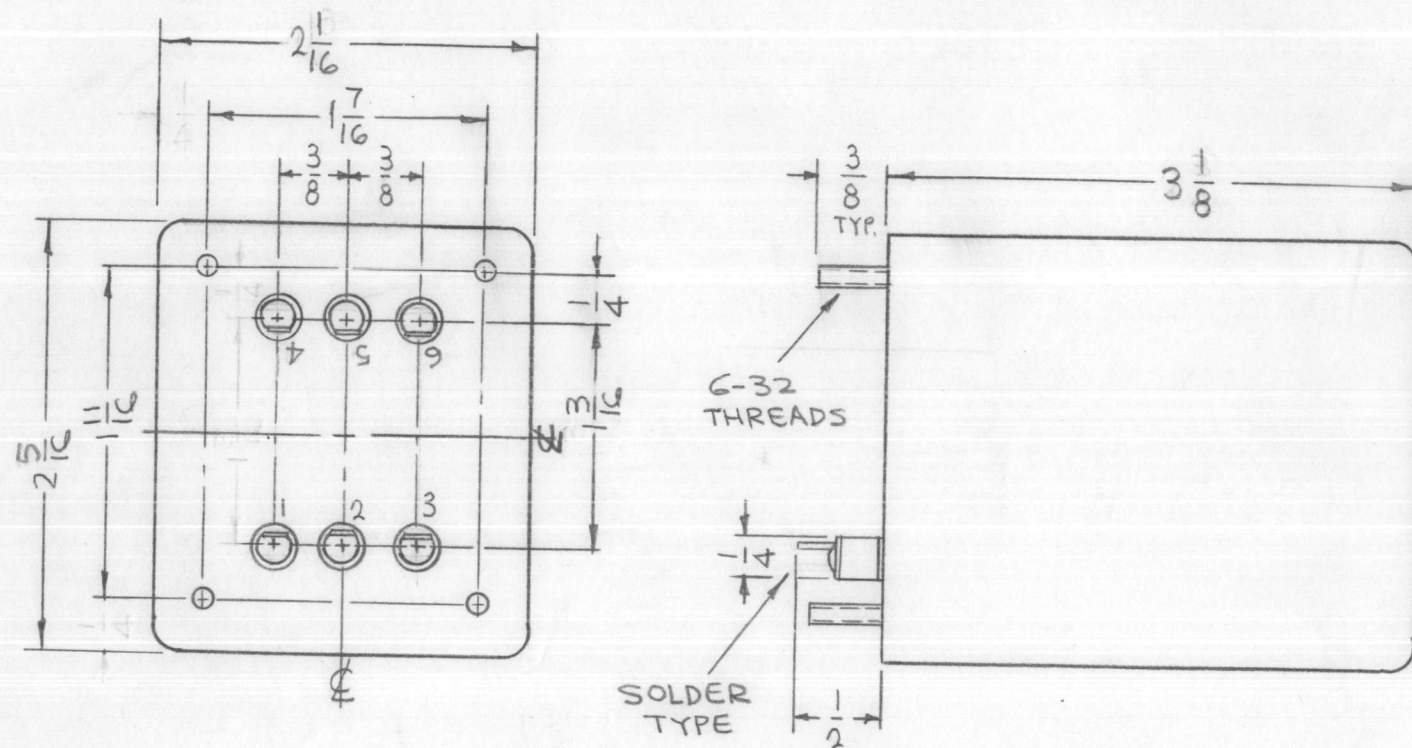
| REQ'D.  | ITEM      | PART NUMBER                                       | DESCRIPTION | SYMBOL |
|---|-----------|---|-------------|--------|
| F. BUDETTI LIST OF MATERIAL   |           |   |             |        |
| MATERIAL  |           | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK |             |        |
| FINISH  |           | TITLE   |             |        |
|   |           | XFMR, RF OUTPUT                                   |             |        |
| DRAWN   | DATE      | FINAL APPROVAL                                    | DATE        |        |
| Checked   | DATE      |   | DATE        |        |
| ELECT. DES.   | DATE      |   | DATE        |        |
| MECH. DES.  | DATE      |   | DATE        |        |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |           | SHEET   |             |        |
| DECIMALS  | FRACTIONS | REV. LTR.   |             |        |
| .X ± .05  | ± 1/64    |   |             |        |
| .XX ± .01   | ANGLES    |   |             |        |
| .XXX ± .005   | ± 0° 30'  |   |             |        |
|   |           | M/L ZS  | 12/2/65     |        |



MOUNTING  
DETAIL

TF 319

| REVISIONS |  |         |            |       |      |      |
|-----------|--|---------|------------|-------|------|------|
| SYM       | DESCRIPTION  | DATE    | E.M.N. NO. | DRAFT | CHKD | APPD |
| X1        | 2-5/16 WAS 2-9/16, ELE., MECH. SPEC. REV., MTG. DET., MFG. NO. ADDED | 12-1-65 |            | Jc    |      |      |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION                                      | 12-2-65 | Ø          |       |      |      |



- ELECTRICAL SPECIFICATIONS-
- TRANSFORMER, RF INTERSTAGE
  - COIL DATA:  
PRIMARY WINDING: TERM. 1,3 10KΩ IMPEDENCE  
SECONDARY WINDING: TERM. 4,6 2.5KΩ IMPEDENCE
- MECHANICAL SPECIFICATIONS-
- CASE DATA:  
A. HERMETICALLY SEALED  
B. RECTANGULAR STEEL CASE, MIL TYPE Y Y  
C. BODY DIMENSIONS: 2-5/16 LONG  
2-1/16 WIDE  
3-1/8 HIGH
  - MOUNTING DATA:  
A. MOUNTING METHOD: STUD  
B. MOUNTING DIMENSIONS: (4) 6-32 STUDS ON  
1-7/16 X 1-11/16 CENTERS 3/8 HIGH
  - TERMINAL DATA:  
A. (6) TERMINALS  
B. SOLDER TYPE 1/2 HIGH INSULATED
  - FINISH:  
SMOOTH GRAY ENAMEL (TMC SPEC. S115) EXCEPT  
TERMINAL END.
  - MARKING:  
METAL STAMP TERMINALS 1 THRU 6 AS SHOWN  
MARK BOTTOM AS SHOWN PER TMC SPEC. S727.

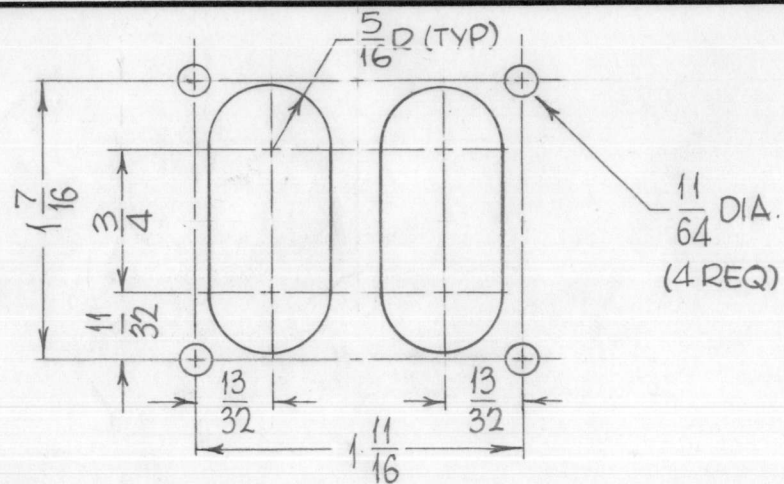
TEST VOLTAGE 1500VOLTS. (DC)

MANUFACTURE IN ACCORDANCE WITH MIL-SPECS .27A  
EXCEPT MIL-SPECS SHALL NOT APPEAR ON CASE &  
TESTING QUALIFICATIONS NOT REQ.

NOTES

|   |               |                |
|---|---------------|----------------|
| 1   | VLLA-1        |                |
| Q'TY./UNIT  | MODEL USED ON | ASS'Y. NO.     |
| SCALE   | CODE          | S401-30 (6634) |
| THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN. |               |                |

| REQ'D.  | ITEM | PART NUMBER | DESCRIPTION   | SYMBOL  |
|---|------|-------------|---|---|
| F. BUDETTI LIST OF MATERIAL   |      |             |   |   |
| MATERIAL  |      |             | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK  |   |
| FINISH  |      |             | TITLE<br>XFMR, RF INTERSTAGE  |   |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |      |             | DRAWN: [Signature]<br>CHECKED: [Signature]<br>ELECT. DES.: [Signature]<br>MECH. DES.: [Signature] | DATE: 11-12-65<br>DATE: 12-1-65<br>DATE: [Blank]<br>DATE: [Blank] |
| DECIMALS: .x ± .05, .xx ± .01, .xxx ± .005<br>FRACTIONS: ± 1/64, ± 0° 30'<br>TOLERANCES: [Blank]            |      |             | FINAL APPROVAL: [Signature]<br>DATE: 12/2/65<br>SHEET: TF 319<br>REV. LTR.: Ø                     | DATE: 12/2/65<br>SHEET: [Blank]                                   |
| M/L 28  |      |             | 12/2/65   |   |



MOUNTING  
DETAIL

TF 320

REVISIONS

| SYM | DESCRIPTION   | DATE    | E.M.N. NO. | DRAFT | CHKD | AFFD |
|-----|---|---------|------------|-------|------|------|
| X1  | 2 5/16 W 2 9/16, 3 1/8 W 2 3/4 ELE. MECH. SPEC. REV. MTG. DET. & MFG. NO. ADDED | 12-1-65 | —          | Jc    |      |      |
| Ø   | ORIGINAL RELEASE FOR PRODUCTION   | 12-2-65 | Ø          |       |      |      |

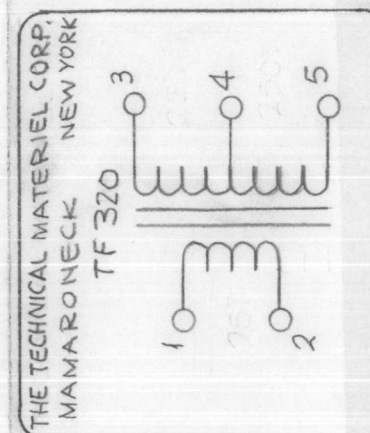
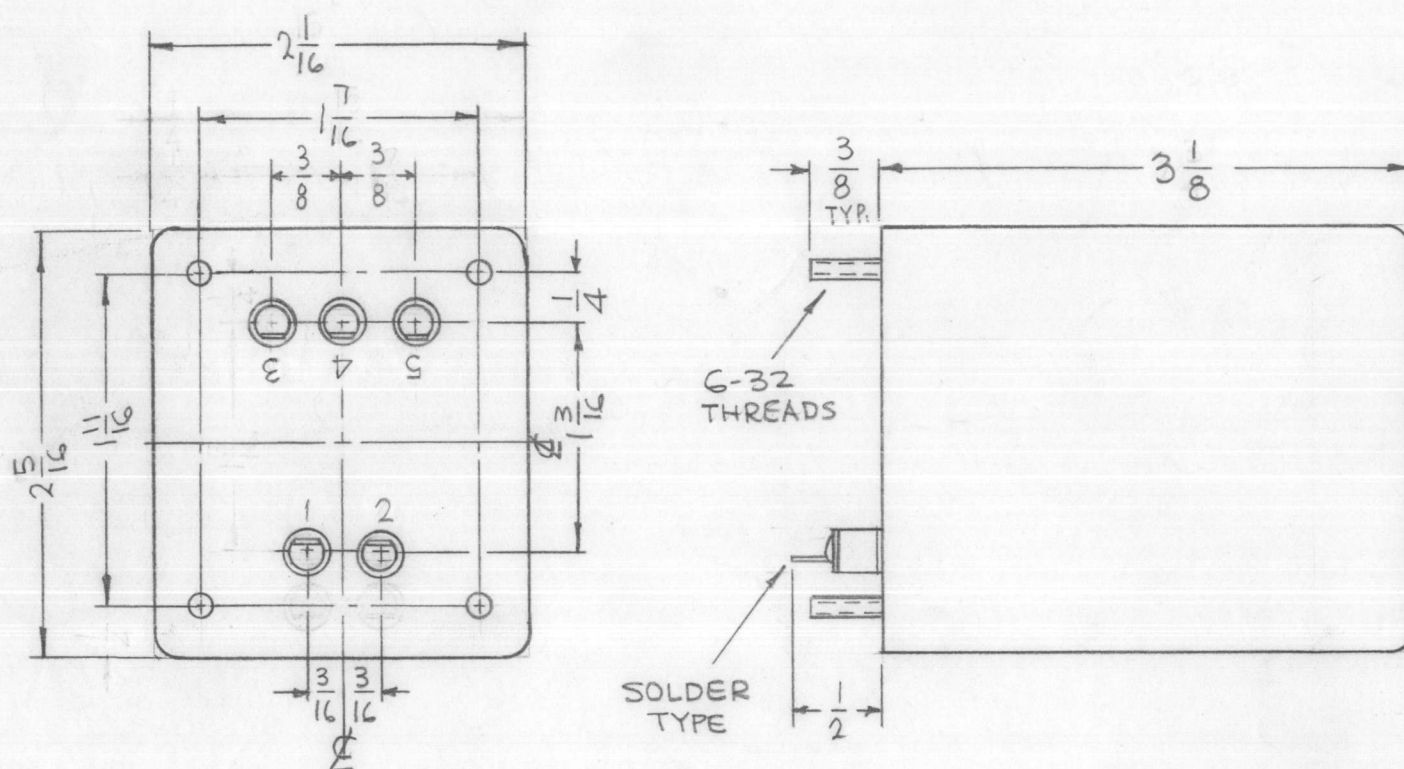
-ELECTRICAL SPECIFICATIONS-

1. TRANSFORMER, RF, INPUT
2. COIL DATA:  
PRIMARY WINDING: TERM. 1,2 50 ~ IMPEDENCE  
SECONDARY WINDING: TERM. 3,5 200 ~ IMPEDENCE

-MECHANICAL SPECIFICATIONS-

1. CASE DATA:  
A. HERMETICALLY SEALED  
B. RECTANGULAR STEEL CASE, MIL TYPE Y Y  
C. BODY DIMENSIONS: 2-5/16 LONG  
2-1/16 WIDE  
3-1/8 HIGH
2. MOUNTING DATA:  
A. MOUNTING METHOD: STUD  
B. MOUNTING DIMENSIONS: (4) 6-32 STUDS ON  
1-7/16 X 1-11/16 CENTERS 3/8 HIGH
3. TERMINAL DATA:  
A. (5) TERMINALS  
B. SOLDER TYPE 1/2 HIGH INSULATED
4. FINISH:  
SMOOTH GRAY ENAMEL (TMC SPEC. S115) EXCEPT  
TERMINAL END.
5. MARKING:  
METAL STAMP TERMINALS 1 THRU 5 AS SHOWN  
MARK BOTTOM AS SHOWN PER TMC SPEC. S727.

TEST VOLTAGE 1500 VOLTS. (DC)



MANUFACTURE IN ACCORDANCE WITH MIL-SPECS .27A  
EXCEPT MIL-SPECS SHALL NOT APPEAR ON CASE &  
TESTING QUALIFICATIONS NOT REQ.

NOTES

|            |               |               |
|------------|---------------|---------------|
| 1          | VLLA-1        |               |
| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO.    |
| SCALE      | CODE          | 5401-30(6635) |
|            | A             |               |

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY  
OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR  
REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

| REQ'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|--------|------|-------------|-------------|--------|
|--------|------|-------------|-------------|--------|

F. BUDETTI LIST OF MATERIAL

MATERIAL THE TECHNICAL MATERIEL CORP.  
MAMARONECK, NEW YORK

FINISH TITLE  
XFMR, RF INPUT

|   |  |             |      |                |           |
|---|--|-------------|------|----------------|-----------|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |  | DRAWN       | DATE | FINAL APPROVAL | DATE      |
| DECIMALS .X ± .05 FRACTIONS ± 1/64  |  | CHECKED     | DATE | TF 320         | Ø         |
| TOLERANCES .XX ± .01 ANGLES ± 0° 30'  |  | ELECT. DES. | DATE |                |           |
| .XXX ± .005   |  | MECH. DES.  | DATE | SHEET          | REV. LTR. |

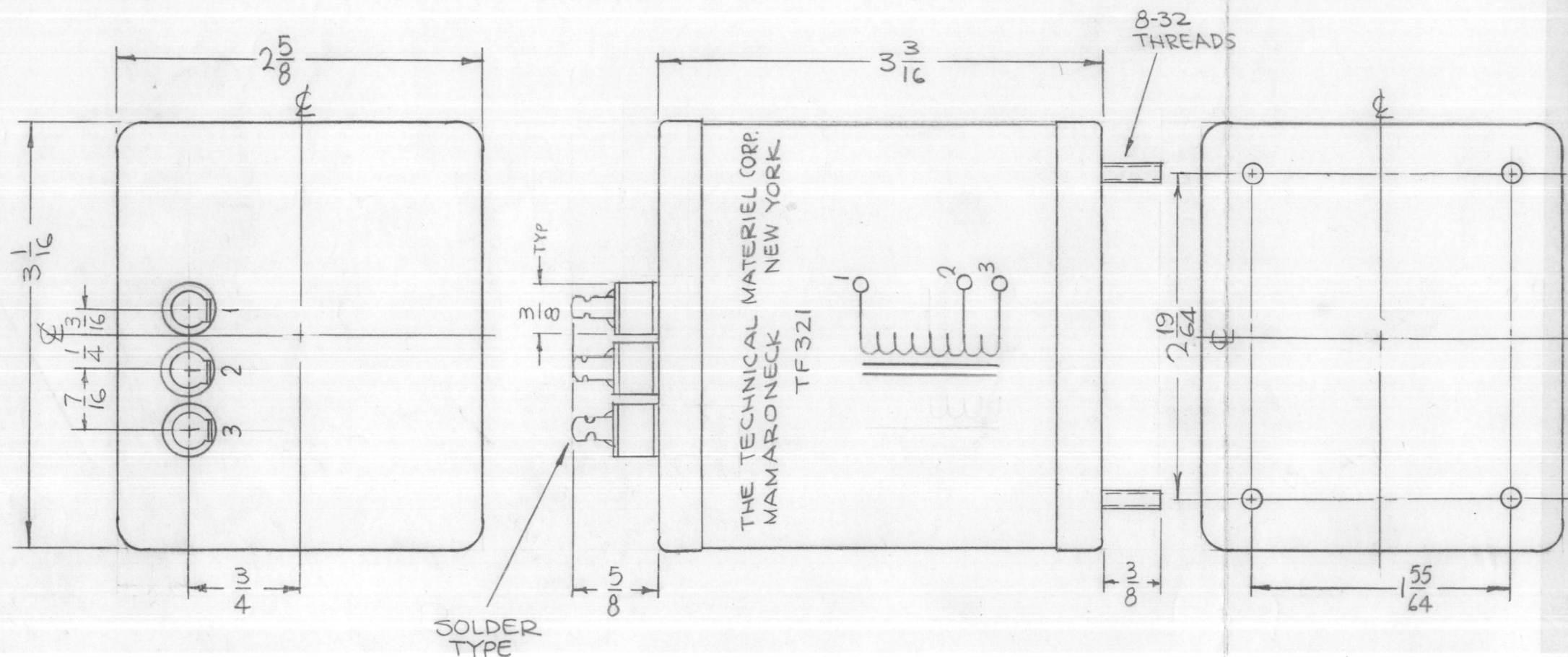
M/L 28 12/2/65



TF321

REVISIONS

| SYM | DESCRIPTION                     | DATE   | E.M.N. NO. | DRAFT | CHKD | APPD |
|-----|---------------------------------|--------|------------|-------|------|------|
| Ø   | ORIGINAL RELEASE FOR PRODUCTION | 1-9-67 |            | WFO   |      |      |



-ELECTRICAL SPECIFICATIONS-

- 1.
- 2.

-MECHANICAL SPECIFICATIONS-

1. CASE DATA:
  - A. HERMETICALLY SEALED
  - B. RECTANGULAR STEEL CASE, MIL TYPE Y Y
  - C. BODY DIMENSIONS  $3-1\frac{1}{16}$  LONG  
 $2-5\frac{1}{8}$  WIDE  
 $3-3\frac{1}{16}$  HIGH
2. MOUNTING DATA:
  - A. MOUNTING METHOD: STUD
  - B. MOUNTING DIMENSIONS: (4) 8-32 STUDS ON  $1-55\frac{1}{64}$  X  $2-19\frac{1}{64}$  CENTERS  $3\frac{1}{8}$  HIGH
3. TERMINAL DATA
  - A. (3) TERMINALS
  - B.  $3\frac{1}{8}$  HIGH INSULATED
4. FINISH:
  - SMOOTH GRAY ENAMEL (TMC SPEC. S115) EXCEPT TERMINAL END.
5. MARKING:
  - METAL STAMP TERMINALS 1 THRU 3 AS SHOWN
  - MARK BOTTOM AS SHOWN PER TMC SPEC. S727.

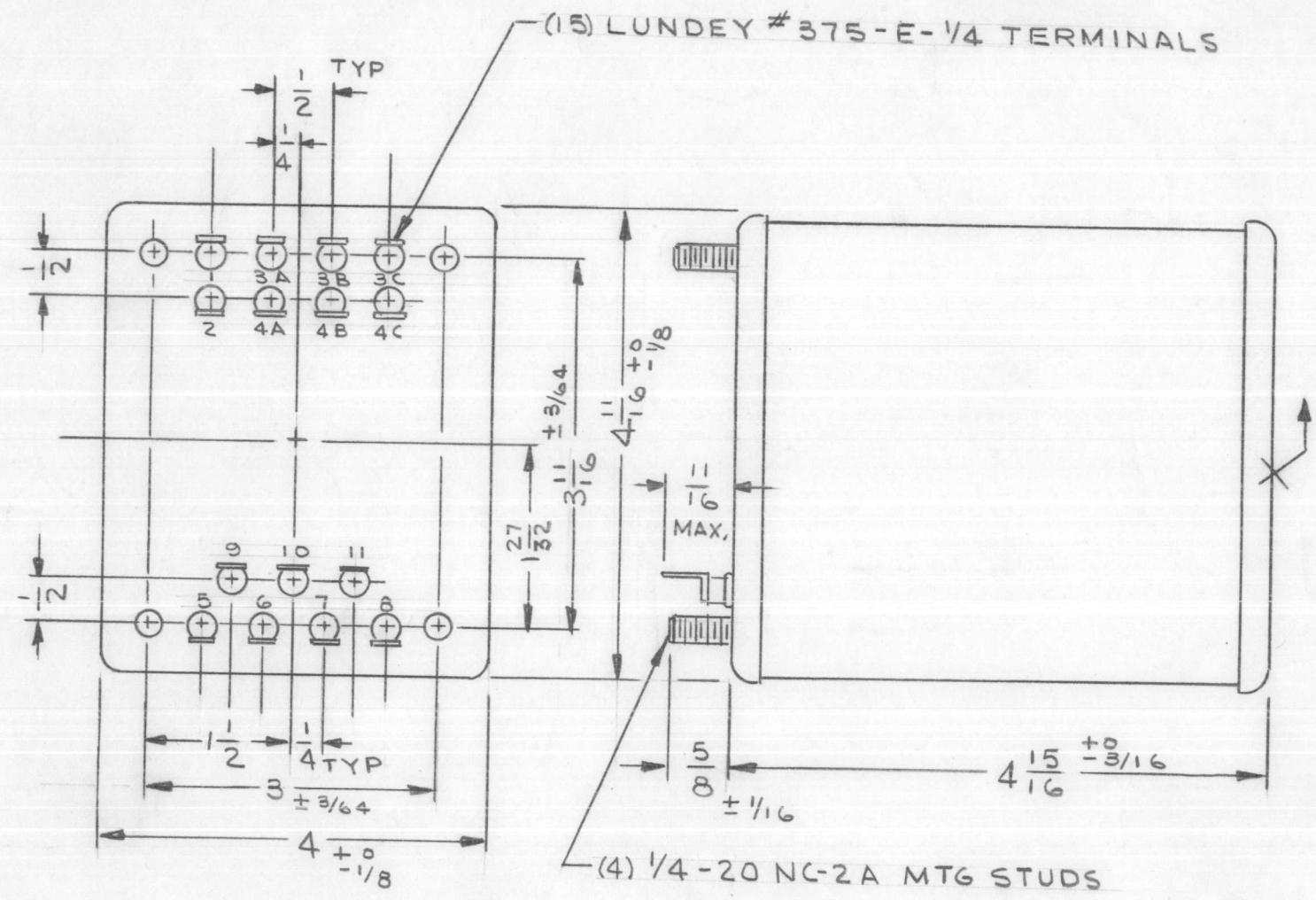
TEST VOLTAGE 2500 VOLTS.(DC)

MANUFACTURE IN ACCORDANCE WITH MIL-SPECS. 27A EXCEPT MIL-SPECS SHALL NOT APPEAR ON CASE & TESTING QUALIFICATIONS NOT REQ.

| REQ'D.  | ITEM | PART NUMBER  | DESCRIPTION | SYMBOL   |       |      |                |      |         |      |  |  |             |      |  |  |            |      |  |  |
|---|------|--|-------------|--|-------|------|----------------|------|---------|------|--|--|-------------|------|--|--|------------|------|--|--|
| F. BUDETTI LIST OF MATERIAL   |      |  |             |  |       |      |                |      |         |      |  |  |             |      |  |  |            |      |  |  |
| MATERIAL  |      | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK   |             |  |       |      |                |      |         |      |  |  |             |      |  |  |            |      |  |  |
| FINISH  |      | TITLE<br>XFMR, AUTO  |             |  |       |      |                |      |         |      |  |  |             |      |  |  |            |      |  |  |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |      |  |             |  |       |      |                |      |         |      |  |  |             |      |  |  |            |      |  |  |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  |      | TOLERANCES<br>± 1/64<br>ANGLES<br>± 0° 30'   |             | <table border="1"> <tr> <td>DRAWN</td> <td>DATE</td> <td>FINAL APPROVAL</td> <td>DATE</td> </tr> <tr> <td>CHECKED</td> <td>DATE</td> <td></td> <td></td> </tr> <tr> <td>ELECT. DES.</td> <td>DATE</td> <td></td> <td></td> </tr> <tr> <td>MECH. DES.</td> <td>DATE</td> <td></td> <td></td> </tr> </table> | DRAWN | DATE | FINAL APPROVAL | DATE | CHECKED | DATE |  |  | ELECT. DES. | DATE |  |  | MECH. DES. | DATE |  |  |
| DRAWN   | DATE | FINAL APPROVAL   | DATE        |  |       |      |                |      |         |      |  |  |             |      |  |  |            |      |  |  |
| CHECKED   | DATE |  |             |  |       |      |                |      |         |      |  |  |             |      |  |  |            |      |  |  |
| ELECT. DES.   | DATE |  |             |  |       |      |                |      |         |      |  |  |             |      |  |  |            |      |  |  |
| MECH. DES.  | DATE |  |             |  |       |      |                |      |         |      |  |  |             |      |  |  |            |      |  |  |
| SCALE<br>1:1  |      | CODE<br>C  |             | ASS'Y. NO.<br>S401-30(6636)  |       |      |                |      |         |      |  |  |             |      |  |  |            |      |  |  |
| NOTES   |      | <p>THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.</p> |             |  |       |      |                |      |         |      |  |  |             |      |  |  |            |      |  |  |
|   |      | SHEET  |             | REV. LTR.  |       |      |                |      |         |      |  |  |             |      |  |  |            |      |  |  |

TF323 B

| REVISIONS |  |         |            |       |           |
|-----------|--|---------|------------|-------|-----------|
| SYM       | DESCRIPTION                              | DATE    | E.M.N. NO. | DRAFT | CHKD APPD |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION          | 6-15-65 | -A-        | JC    | WP        |
| A         | TERMINALS IF 2 WAS ± NOW 0. ON SCHEMATIC | 8-3-65  | 14583      | H.V.  | JCS JSE   |
| B         | "NO LOAD" ADDED TO VOLTAGE SPEC SCHEM    | 12-6-66 | 17357      | WLO   | JCS JSE   |



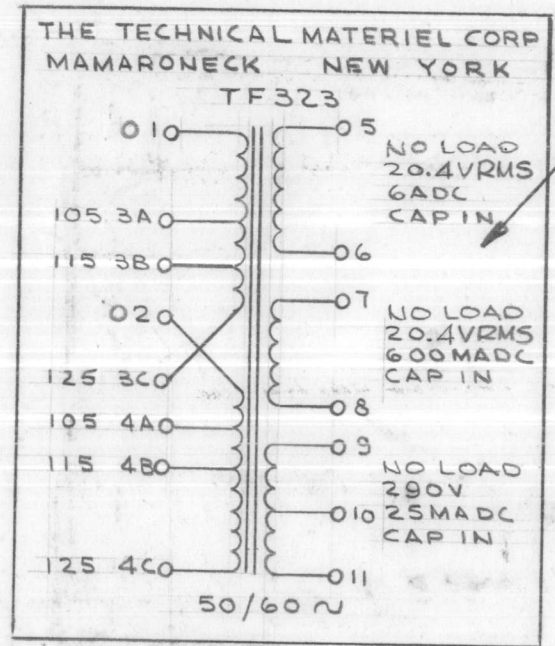
**CASE DATA:**  
 A. HERMETICALLY SEALED  
 B. FULLY ENCLOSED  
 C. GRAY (TMC S115)  
 D. STEEL, HOT TIN DIPPED

**PRIMARY:**  
 WINDING #1, #2: 125V, 250VAC  
 125VAC TAP @ 105 & 115

**SECONDARY (NO LOAD) WINDING**  
 A. 20.4VRMS 6ADC, CAP. IN  
 B. 20.4VRMS 600MADC, CAP. IN  
 C. 290V, 25MADC, CENTER TAP, CAP IN

**TERMINAL DATA**  
 A. QTY. 15  
 B. SOLDER LUG

**MARKING:**  
 SCHEMATIC DIAGRAM TO BE MARKED IN BLACK, AS PER TMC S-727, LOCATED AS INDICATED.



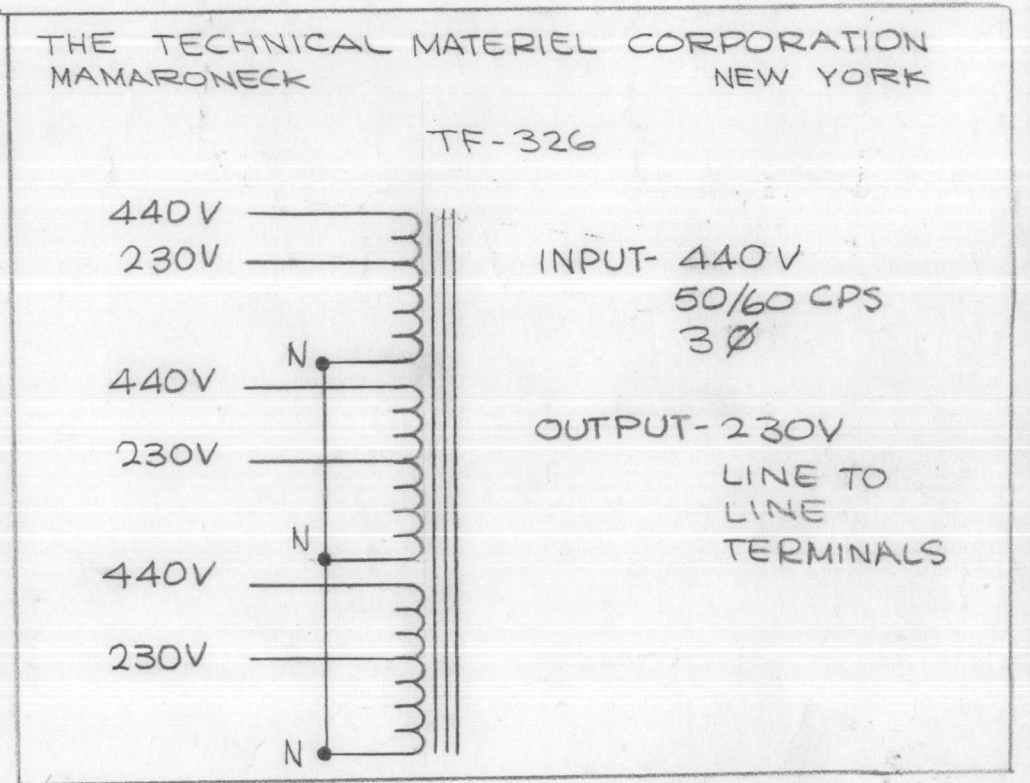
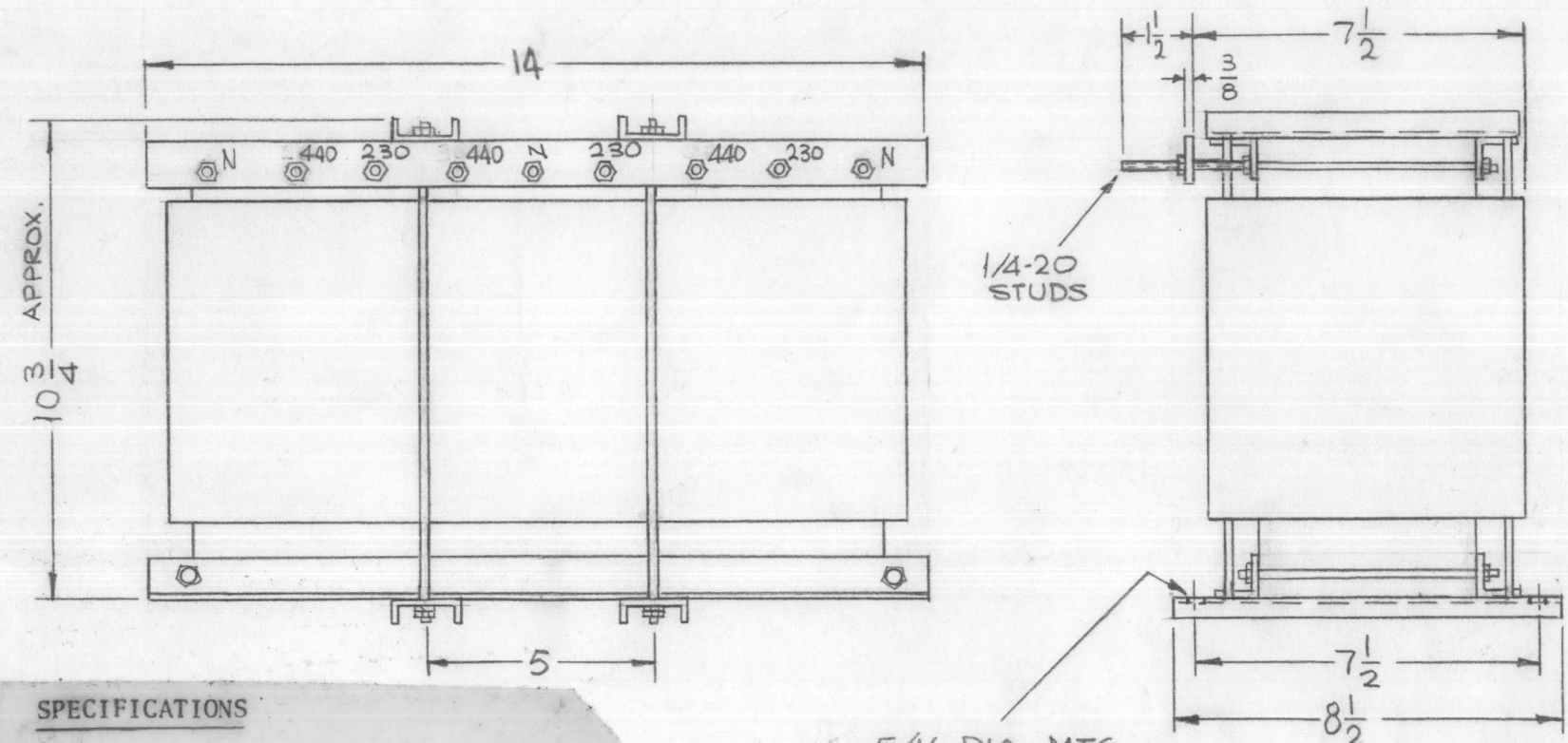
SCHEMATIC DIAGRAM TO BE PLACED ON TOP SURFACE OF TRANSFORMER IN DIRECTION SHOWN.

X INDICATES SURFACE & TOP OF SCHEMATIC

| REQ'D.  | ITEM | PART NUMBER | DESCRIPTION  | SYMBOL          |
|---|------|-------------|--|-----------------|
| <b>EATON LIST OF MATERIAL</b>   |      |             |  |                 |
| MATERIAL  |      |             | <b>THE TECHNICAL MATERIEL CORP.<br/>MAMARONECK, NEW YORK</b> |                 |
| FINISH  |      |             | TITLE<br><b>TRANSFORMER, POWER</b>                           |                 |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES   |      |             | DRAWN<br>JL  | DATE<br>6/14/65 |
| SCALE<br>#  |      |             | CHECKED<br>JCS   | DATE<br>6/15/65 |
| MODEL USED ON<br>RTIA-1   |      |             | FINAL APPROVAL<br>J. E. Eaton                                |                 |
| ASS'Y. NO.<br>S401-30 (#6632)   |      |             | DATE<br>6/18/65  |                 |
| THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN. |      |             | ELECT. DES.<br>NL  | DATE            |
| TOLERANCES<br>DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  |      |             | FRACTIONS<br>± 1/64<br>ANGLES<br>± 0° 30'                    |                 |
| NOTES   |      |             | <b>TF323 B</b>   |                 |
|   |      |             | SHEET  | REV. LTR.       |

| SYM | DESCRIPTION                     | REVISIONS |            |       |      |      |
|-----|---------------------------------|-----------|------------|-------|------|------|
|     |                                 | DATE      | E.M.N. NO. | DRAFT | CHKD | APPD |
| Ø   | ORIGINAL RELEASE FOR PRODUCTION | 4-29-66   | Ø          | WPS   |      |      |
| A   | ADD DIM. NOTE. CHG'D 17" TO 14" | 11/3/66   | 17181      | RME   | JCS  |      |

TF 326



SCHEMATIC - TO BE STAMPED ON XFMR. LETTERING (GOTHIC) AND LINES, BLACK PER TMC SPECIFICATION S727.

**SPECIFICATIONS**

**WINDING DATA**

- 1- INPUT - 440V 50/60 CPS, 3PH
- 2- CURRENT RATING, 40A - RMS EACH PHASE
- 3- TAPS - EACH WINDING TAPPED AT 230V.
- 4- BREAKDOWN TEST VOLTAGE 2000V AC.
- 5- CASE - OPEN FRAME.
- 6- FINISH - S115 SMOOTH GREY ENAMEL EXCEPT TERMINAL BOARD & TERMINALS.

NOTE: MFG - IN ACCORDANCE W/MIL-T-27A EXCEPT MIL-7-27A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQ'D.

NOTE: DIMENSIONS FOR REF. ONLY

|               |               |                |
|---------------|---------------|----------------|
| 1             | TSTE-10K      | API31          |
| Q'TY./UNIT    | MODEL USED ON | ASS'Y. NO.     |
| SCALE 1/4"=1" | CODE C        | S401-30 (6382) |

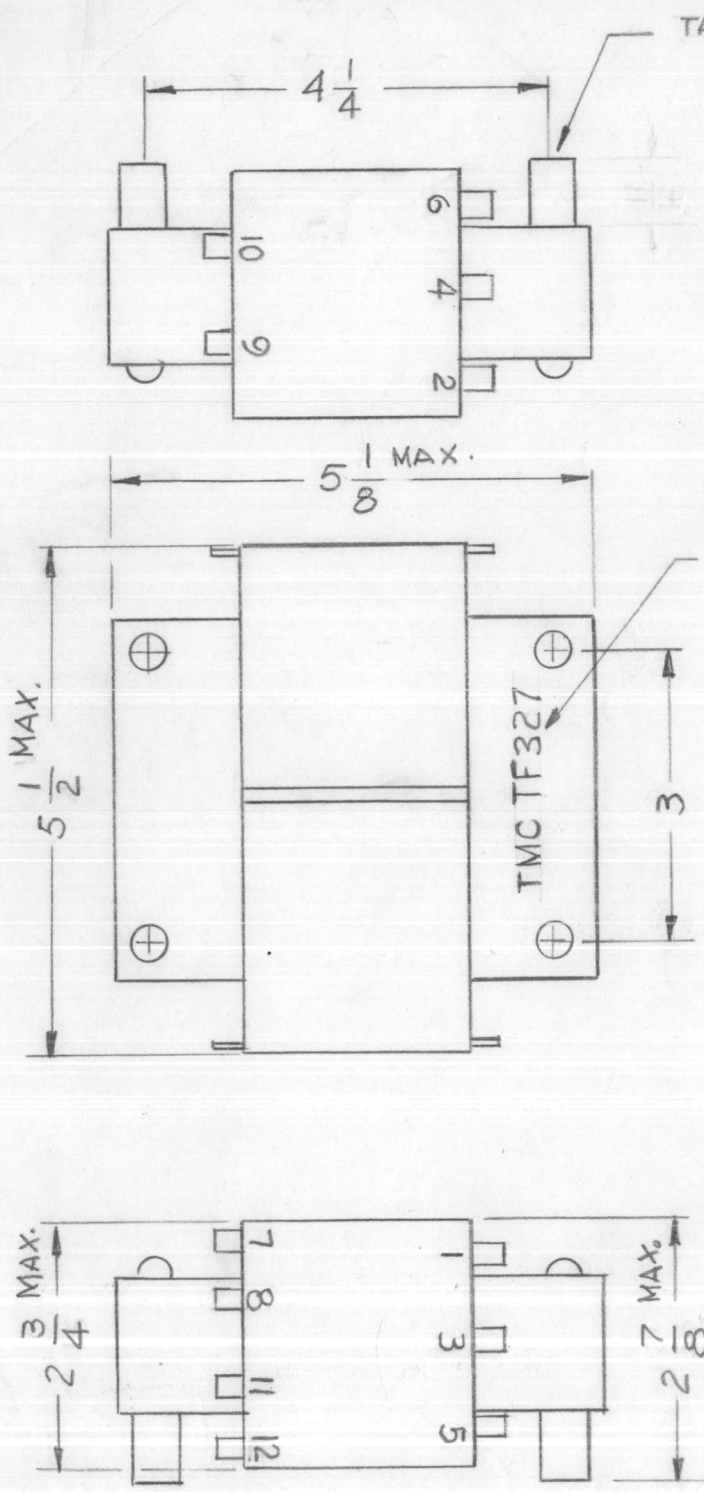
THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

| REQ'D.  | ITEM | PART NUMBER                                       | DESCRIPTION  | SYMBOL                     |
|---|------|---|--------------|----------------------------|
| F. BUDETTI LIST OF MATERIAL   |      |   |              |                            |
| MATERIAL  |      | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK |              |                            |
| FINISH  |      | TITLE XFMR, POWER, FIXED                          |              |                            |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |      | DRAWN SRG   | DATE 4-1-65  | FINAL APPROVAL [Signature] |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005   |      | CHECKED [Signature]                               | DATE 4/28/66 | DATE 4/29/66               |
| FRACTIONS ± 1/64 ANGLES ± 0° 30'  |      | ELECT. DES. [Signature]                           | DATE 4/29/66 | DATE                       |
| TOLERANCES  |      | MECH. DES. [Signature]                            | DATE         | DATE                       |
|   |      |   | SHEET        | REV. LTR. A                |

NOTES

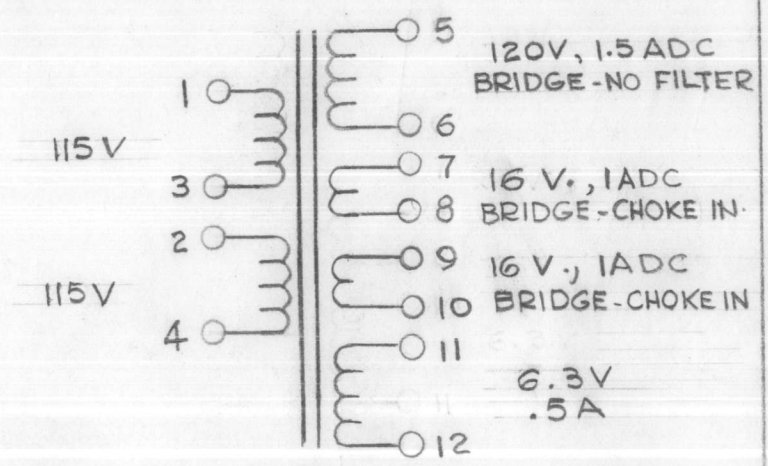
# STANDARD DRAWING

TF 327



TAPPED FOR 8-32

MARKED WITH TMC P/N  
1/8 HIGH WHITE GOTHIC



| REVISIONS |  |          |            |        |      |      |
|-----------|--|----------|------------|--------|------|------|
| SYM       | DESCRIPTION  | DATE     | E.M.N. NO. | DRAFT  | CHKD | APPD |
| X1        | DIMS. 5 1/8 WAS 5, 5 1/2 WAS 5 1/4, 2 3/4 WAS 2 9/16, & 2 7/8 WAS 2 21/32 - SCHEMATIC MODIFIED | 11-1-65  | X1         | G.D.L. |      |      |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION  | 11/12/65 |            | J.V.   |      |      |

**SPECS**

**Primary**  
 115VAC 50/60 CPS 1 PHASE, PARALLEL CONNECTED  
 230VAC 50/60 CPS 1 PHASE, SERIES CONNECTED

**Secondary**  
 #1 - 120 VOLTS 1.5 AMP DC  
 #2 - 32 VOLTS CT 1 AMP DC  
 #3 - 6.3 VOLTS 0.5 AMPS AC

**CASE DATA**

TYPE - OPEN  
 TERMINALS - SOLDER LUG  
 MARKING - TERMINALS AND TMC P/No. ARE TO BE STAMPED ON COMPONENT AS SHOWN.

REF: BERKSHIRE # BTC 6967

| REQ'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|--------|------|-------------|-------------|--------|
|--------|------|-------------|-------------|--------|

| LANGER   |  | LIST OF MATERIAL                                     |  |
|----------|--|--|--|
| MATERIAL |  | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |  |
| FINISH   |  | TITLE<br>TRANSFORMER, POWER                          |  |

|              |               |                |
|--------------|---------------|----------------|
| 1            | RARB-1/RASB-1 | A5129          |
| Q'TY./UNIT   | MODEL USED ON | ASS'Y. NO.     |
| DO NOT SCALE | CODE          | S401-30 (6967) |

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

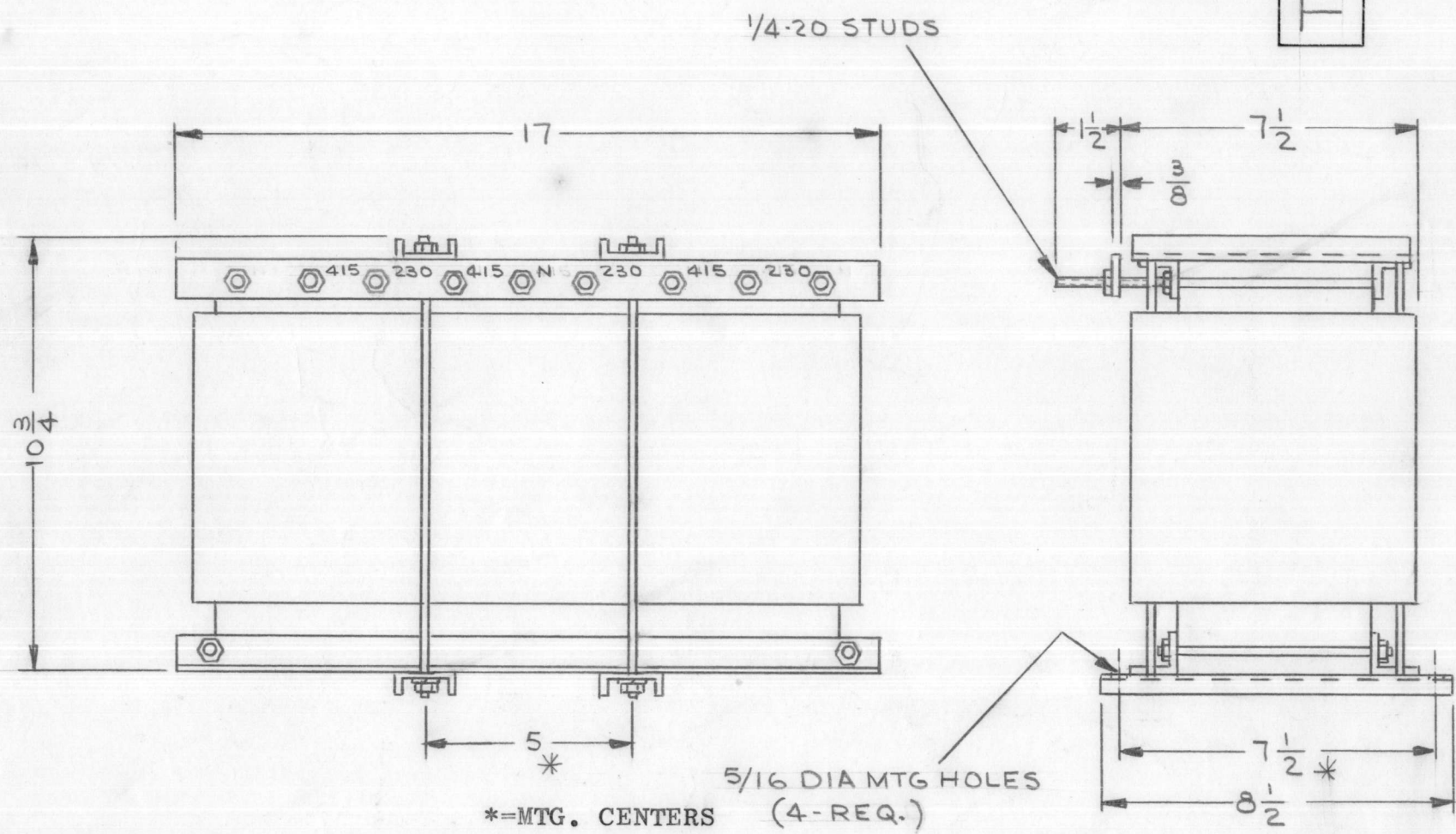
|   |            |                  |                |                |               |
|---|------------|------------------|----------------|----------------|---------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |            | DRAWN G.D.L.     | DATE 17 DEC 65 | FINAL APPROVAL | DATE 11/12/65 |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  | TOLERANCES | CHECKED Bm       | DATE 11-10-65  | TF 327         | Ø             |
| FRACTIONS<br>± 1/64<br>ANGLES<br>± 0° 30'   |            | ELECT. DES. J.V. | DATE 11-12-65  |                |               |
|   |            | MECH. DES. J.V.  | DATE 11/12/65  | SHEET          | REV. LTR.     |

**NOTES**

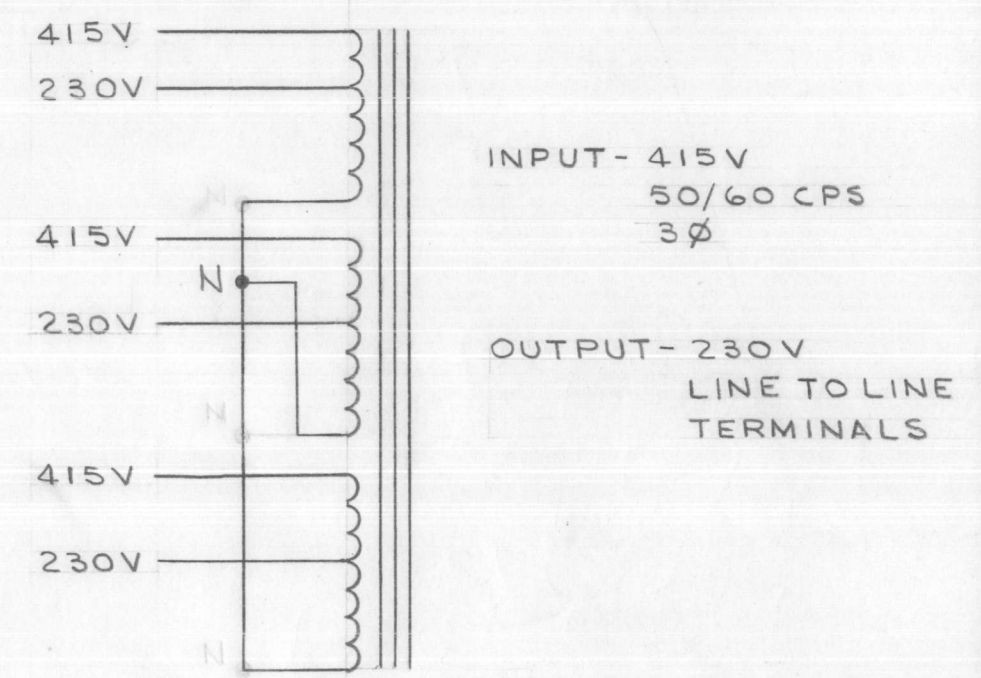
M/LAK 11/12/65

TF 329

| REVISIONS |   |         |            |        |           |
|-----------|---|---------|------------|--------|-----------|
| SYM       | DESCRIPTION   | DATE    | E.M.N. NO. | DRAFT  | CHKD APPD |
| X1        | UNDER SPECIFICATIONS NO. 7 ADDED. CENTERS ADDED TO 5" DIM & 7-1/2" DIM. NOTE * = MTG. | 7-20-65 | AA         | JC     |           |
| X2        | REMOVED TWO NEUTRAL CONNECTIONS, ADD MFG NO.  | 2-17-65 |            | L.A.K. |           |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION   | 2-27-67 |            | L.A.K. |           |



THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK  
NEW YORK  
TF 329



SCHMATIC - TO BE STAMPED ON XFMR

**SPECIFICATIONS**

**WINDING DATA:**

- INPUT- 415V 50/60 CPS, 3PH
- CURRENT RATING, 40A - RMS EACH PHASE
- TAPS - EACH WINDING TAPPED AT 230V.
- BREAKDOWN TEST VOLTAGE 2000V AC.
- CASE - OPEN FRAME.
- FINISH - S115 SMOOTH GREY ENAMEL EXCEPT TERMINAL BOARD & TERMINALS.
- TERMINAL BOARD: BLACK PHENOLIC 3/8" THICK.

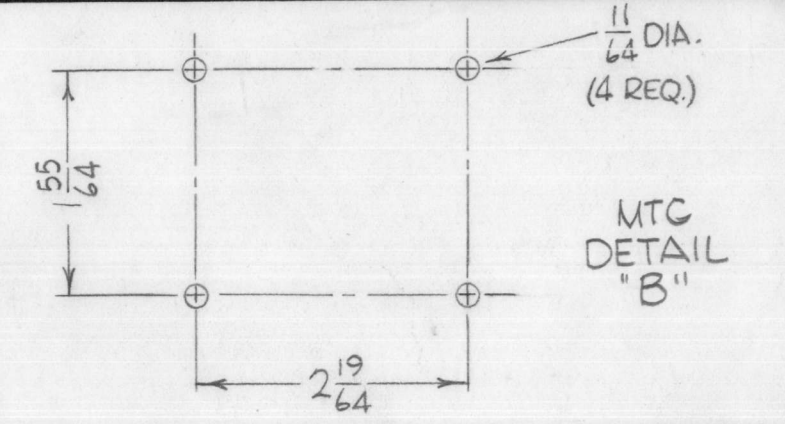
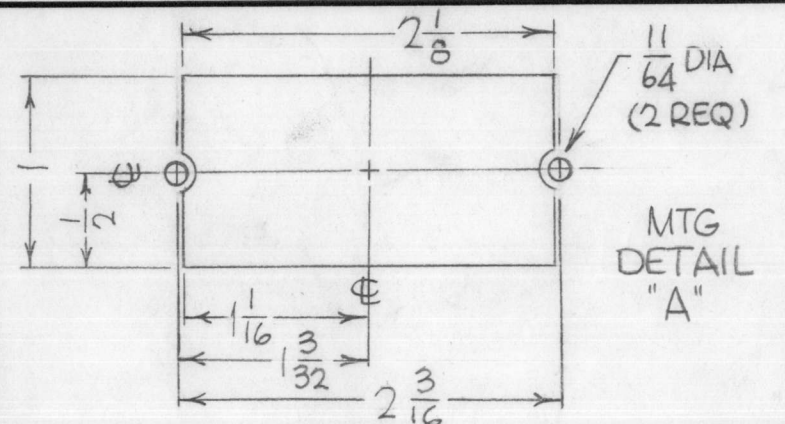
NOTE: MFG - IN ACCORDANCE WITH/MIL-T-27A EXCEPT MIL-7-27A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

|            |               |                |  |
|------------|---------------|----------------|--|
| I          |               | GPT-10KG       |  |
| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO.     |  |
| SCALE      | CODE          | S401-30 (7048) |  |
| NONE       | C             |                |  |

| REQ'D.  | ITEM | PART NUMBER  | DESCRIPTION  | SYMBOL                     |
|---|------|--|--------------|----------------------------|
| F. BUDETTI LIST OF MATERIAL   |      |  |              |                            |
| MATERIAL  |      | SEE SPECS  |              |                            |
| FINISH  |      | SEE SPECS  |              |                            |
|   |      | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |              |                            |
|   |      | TITLE<br>TRANSFORMER, POWER, FIXED                   |              |                            |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |      | DRAWN JL   | DATE 7/20/65 | FINAL APPROVAL [Signature] |
|   |      | CHECKED [Signature]                                  | DATE         | 2/27/67                    |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005   |      | ELECT. DES. [Signature]                              |              | DATE                       |
| FRACTIONS ± 1/64 ANGLES ± 0° 30'  |      | MECH. DES. [Signature]                               |              | DATE                       |
| TOLERANCES  |      | SHEET  |              |                            |
|   |      | REV. LTR.  |              |                            |

**NOTES**

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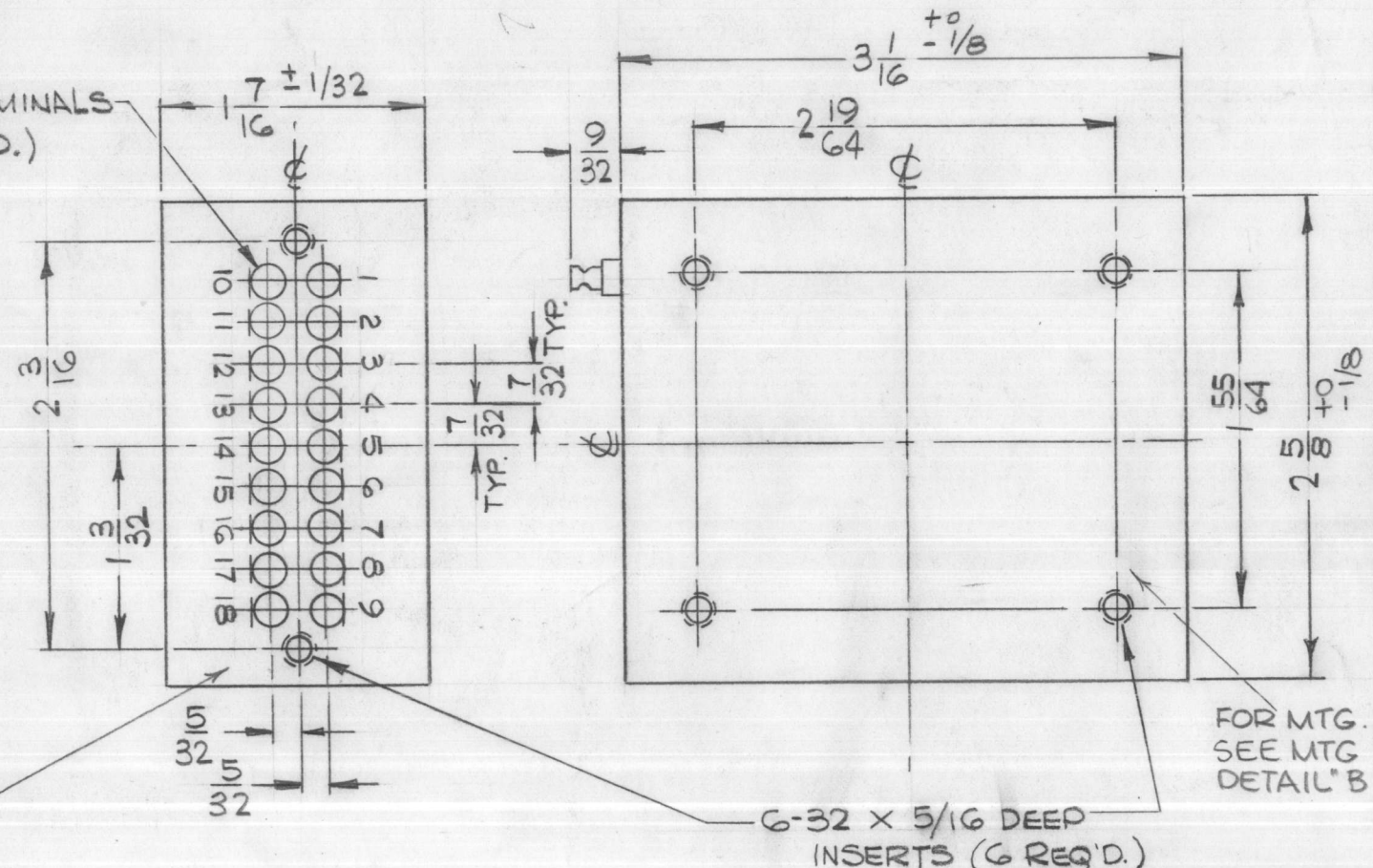
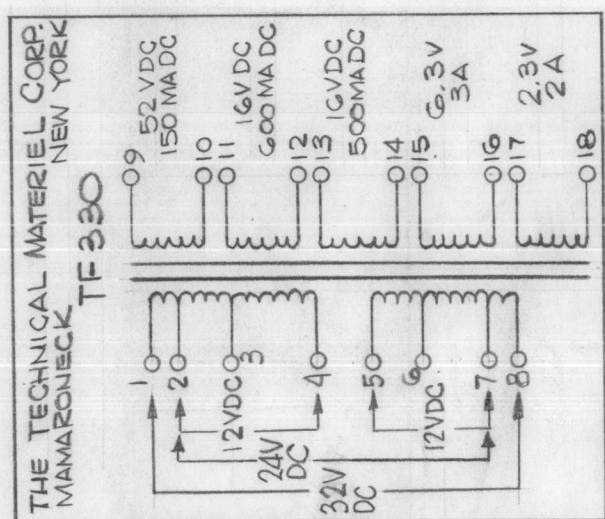
TF330

| REVISIONS |                                 |         |            |       |      |           |
|-----------|---------------------------------|---------|------------|-------|------|-----------|
| SYM       | DESCRIPTION                     | DATE    | E.M.N. NO. | DRAFT | CHKD | APPD      |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION | 10-2-67 | Ø          | R.G.  |      | <i>JH</i> |

NOTE - MTG DETAILS SHOWN ABOVE ARE ALTERNATE, EITHER ONE CAN BE USED.

- ELECTRICAL SPECIFICATIONS —
1. TRANSFORMER, L.V. POWER
  2. COIL DATA: PRIMARY WINDING: SEE PICTORIAL  
SECONDARY WINDING: SEE PICTORIAL

- MECHANICAL SPECIFICATIONS —
1. CASE DATA: A - HERMETICALLY SEALED  
B - RECTANGULAR STEEL CASE, MIL TYPE  
C - BODY DIMENSIONS: 1 7/16 WIDE  
2 5/8 LONG  
3 1/16 HIGH
  2. MOUNTING DATA:  
A - MOUNTING METHOD: STUD  
B - MOUNTING DIMENSIONS: (4) 6-32 X 5/16 DEEP INSERTS ON 1-55/64 X 2-19/64 CENTERS (OR) (2) 6-32 X 5/16 DEEP INSERTS ON 2-3/16 CENTERS.
  3. TERMINAL DATA: A - (18) TERMINALS  
B - SPHERE #T-170-E-153
  4. FINISH: SMOOTH GRAY ENAMEL (TMC SPEC. S115) EXCEPT TERMINAL END
  5. MARKING: METAL STAMP TERMINALS 1 THRU 18 AS SHOWN. MARK TOP AS SHOWN PER TMC SPEC. S727.



TEST VOLTAGE: PRI.: 300V  
SEC.: 500V

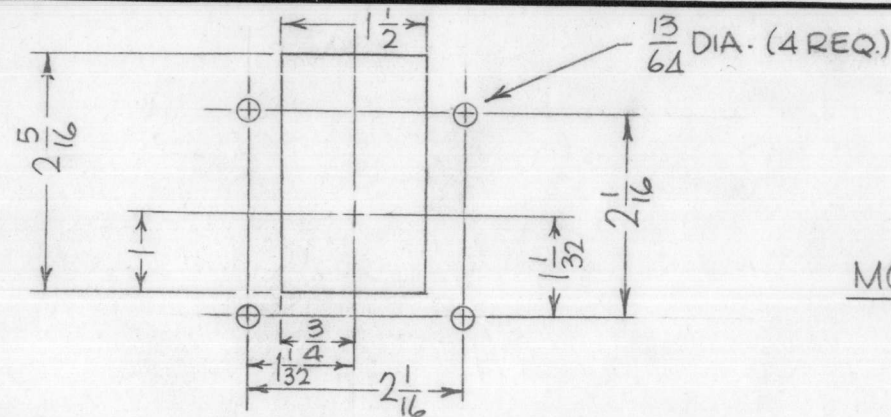
FOR MTG. SEE MTG. DETAIL "A"

| REQ'D.  | ITEM | PART NUMBER | DESCRIPTION  | SYMBOL   |
|---|------|-------------|--|--|
| POSE LIST OF MATERIAL   |      |             |  |  |
| MATERIAL  |      |             | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK   |  |
| FINISH  |      |             | TITLE<br>TRANSFORMER, L.V. POWER   |  |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |      |             | DRAWN <i>H. AUSTIN</i> DATE 12-27-65<br>CHECKED <i>[Signature]</i> DATE 1-6-66<br>ELECT. DES. <i>[Signature]</i> DATE 1-6-66<br>MECH. DES. <i>[Signature]</i> DATE | FINAL APPROVAL <i>[Signature]</i> DATE<br>TF 330<br>SHEET<br>REV. LTR. |
| Q'TY./UNIT<br>SCALE<br>CODE<br>ASS'Y. NO.   |      |             | TOLERANCES<br>DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005<br>FRACTIONS<br>± 1/64<br>ANGLES<br>± 0° 30'  |  |

|               |            |
|---------------|------------|
| TPSG-1        |            |
| Q'TY./UNIT    | ASS'Y. NO. |
| SCALE         | CODE       |
|               | C          |
| S401-30(7023) |            |

NOTES

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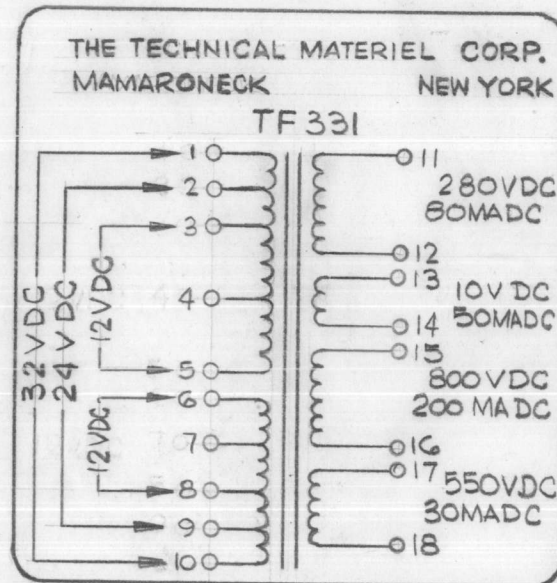
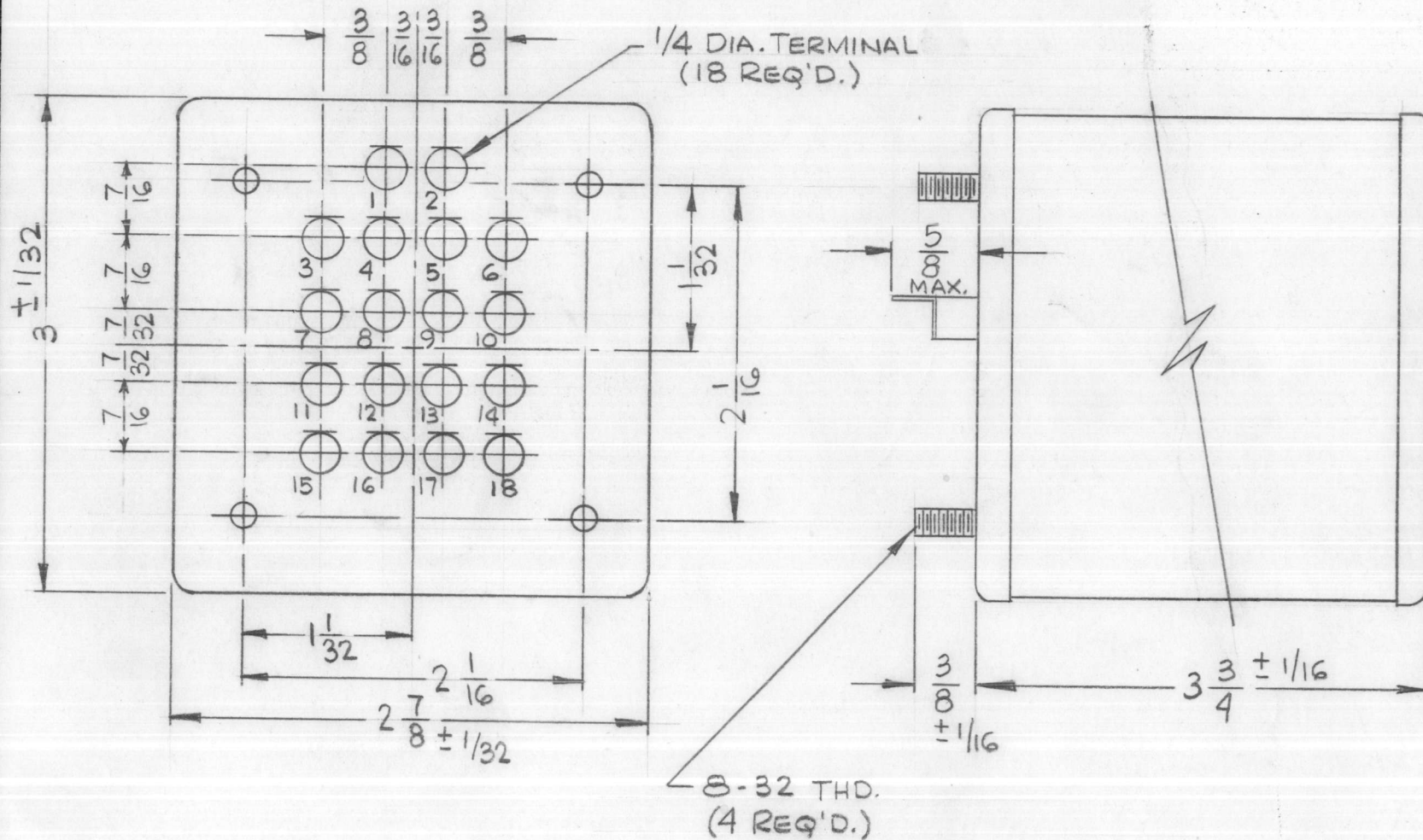


MOUNTING DETAIL

TF331

REVISIONS

| SYM | DESCRIPTION                     | DATE   | E.M.N. NO. | DRAFT | CHKD | APPD |
|-----|---------------------------------|--------|------------|-------|------|------|
| φ   | ORIGINAL RELEASE FOR PRODUCTION | 8/7/69 | φ          | ⊙     |      |      |



- ELECTRICAL SPECIFICATIONS —
1. TRANSFORMER, H V POWER
  2. COIL DATA:  
PRIMARY WINDING: SEE PICTORIAL  
SECONDARY WINDING: SEE PICTORIAL

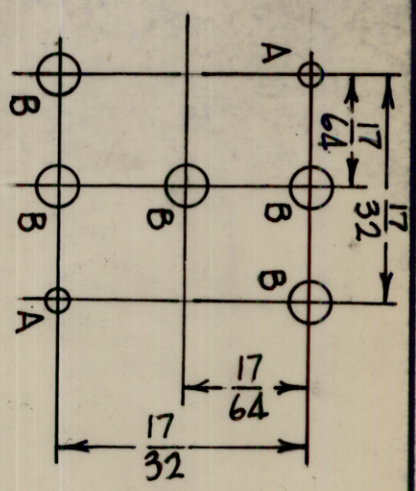
- MECHANICAL SPECIFICATIONS —
1. CASE DATA:  
A. HERMETICALLY SEALED  
B. RECTANGULAR STEEL CASE, MIL TYPE  
C. BODY DIMENSIONS: 3" LONG  
2 7/8" WIDE  
3 3/4" HIGH
  2. MOUNTING DATA:  
A. MOUNTING METHOD: STUD  
B. MTG. DIMENSIONS: (4) 8-32 STUDS ON 2 1/16" CTRS. - 3/8" HIGH
  3. TERMINAL DATA: A-(18) TERMINALS  
B-LUNDEY-250 E
  4. FINISH: SMOOTH GRAY ENAMEL (TMC SPEC. S113) EXCEPT TERMINAL END
  5. MARKING: METAL STAMP TERMINALS  
1 THRU 18 AS SHOWN.  
MARK TOP AS SHOWN PER TMC SPEC. S727
- TEST VOLTAGE: PRI.: 300 V  
SEC.: 1000 V FOR 11-12, 13-14  
1500 V FOR 15-16, 17-18

| REQ'D.  | ITEM | PART NUMBER | DESCRIPTION   | SYMBOL                            |
|---|------|-------------|---|-----------------------------------|
| POSE LIST OF MATERIAL   |      |             |   |                                   |
| MATERIAL  |      |             | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK  |                                   |
| FINISH  |      |             | TITLE<br>TRANSFORMER, H.V. POWER  |                                   |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |      |             | DRAWN<br>H. AUSTIN<br>DATE<br>12-27-65<br>FINAL APPROVAL<br>[Signature]<br>DATE<br>8/7/69   | DATE<br>8/7/69                    |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005<br>TOLERANCES<br>FRACTIONS<br>± 1/64<br>ANGLES<br>± 0° 30' |      |             | ELECT. DES.<br>[Signature]<br>DATE<br>1-6-66<br>MECH. DES.<br>[Signature]<br>DATE<br>1-6-66 | SHEET<br>TF 331<br>REV. LTR.<br>φ |

|            |               |                |
|------------|---------------|----------------|
| Q'TY./UNIT | TPSG-1        | ASS'Y. NO.     |
| SCALE      | MODEL USED ON |                |
|            | CODE          |                |
|            | C             | S401-30 (7021) |

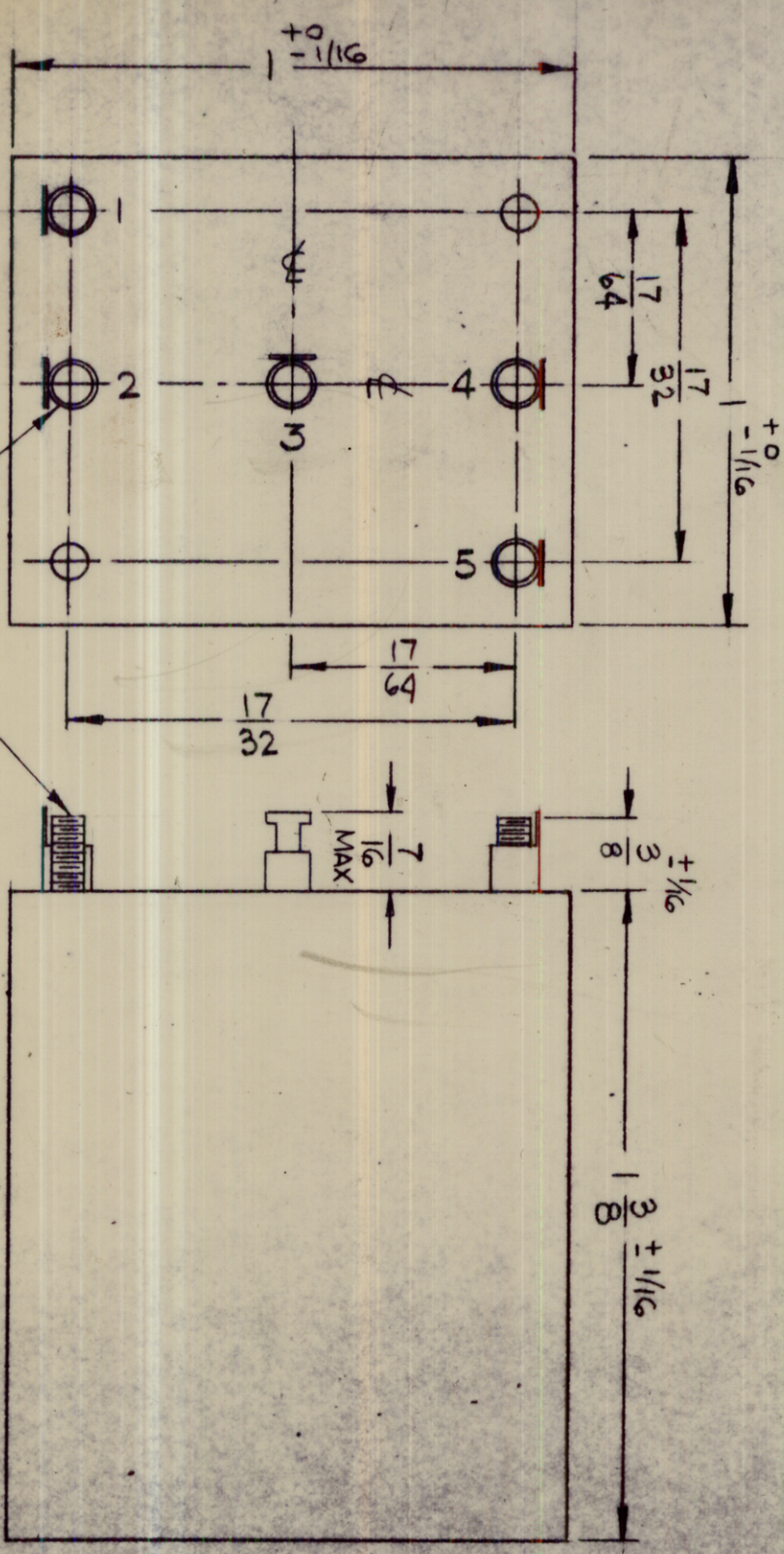
NOTES

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HOLES REQ.  
 A-9/64 DIA. 2  
 B-7/16 DIA. 5

MOUNTING DETAIL



7/32 DIA. TERMINAL  
 (5 REQ'D.)

4-40 THD.  
 (2 REQ'D.)

TF 332

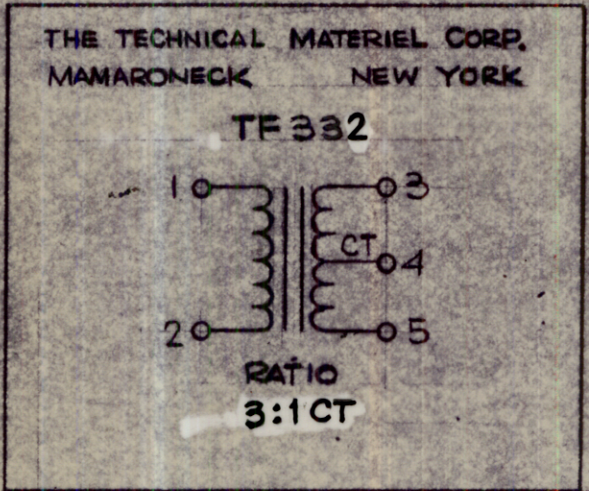
| SYMBOL | DESCRIPTION                     | DATE   | E.M.N. NO. | DRAFT | CHKD | APPD |
|--------|---------------------------------|--------|------------|-------|------|------|
| Ø      | ORIGINAL RELEASE FOR PRODUCTION | 8/7/69 | Ø          | Ø     |      |      |

REVISIONS

- ELECTRICAL SPECIFICATIONS
1. TRANSFORMER, L.V. INVERTER
  2. COIL DATA:  
 PRIMARY WINDING: SEE PICTORIAL  
 SECONDARY WINDING: SEE PICTORIAL

- MECHANICAL SPECIFICATIONS
1. CASE DATA:  
 A-HERMETICALLY SEALED  
 B-RECTANGULAR STEEL CASE, MILL TYPE  
 C-BODY DIMENSIONS: 1" WIDE  
 1" LONG  
 1 3/8 HIGH

2. MOUNTING DATA:  
 A-MTG. METHOD: STUD  
 B-MTG. DIMENSIONS: (2) 4.40 STUDS ON 1 7/32 CTG. - 3/8 HIGH
3. TERMINAL DATA: A-(5) TERMINALS  
 B-LUNDEY-199-E  
 S(IIS) EXCEPT TERMINAL END
4. FINISH: SMOOTH GRAY ENAMEL (TMC SPEC. S(IIS))
5. MARKING:  
 METAL STAMP TERMINALS 1 THRU 5 AS SHOWN. MARK TOP AS SHOWN PER TMC SPEC. 5727
- TEST VOLTAGE: 300 V



| REV. NO. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|----------|------|-------------|-------------|--------|
|          | POSE |             |             |        |

LIST OF MATERIAL

THE TECHNICAL MATERIEL CORP.  
 MAMARONECK, NEW YORK

TRANSFORMER, L.V. INVERTER

|           |               |                |
|-----------|---------------|----------------|
| QTY./UNIT | MODEL USED ON | ASBY. NO.      |
| —         | TPSG-1        |                |
| SCALE     | CODE          |                |
| —         | C             | S401-30 (7020) |

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

TOLERANCES

FRACTIONS  
 ± 1/64 ANGLES  
 ± 0° 30'

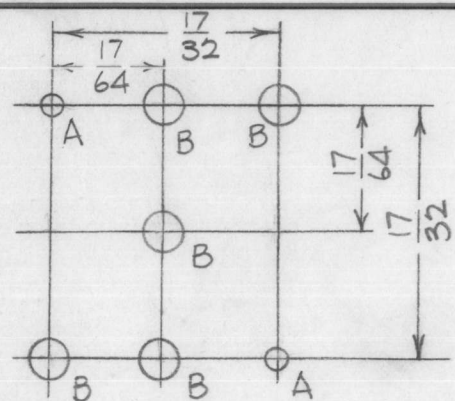
|             |           |      |          |                |  |      |  |
|-------------|-----------|------|----------|----------------|--|------|--|
| DRAWN       | H. AUSTIN | DATE | 12-21-65 | FINAL APPROVAL |  | DATE |  |
| CHECKED     |           | DATE |          |                |  |      |  |
| ELECT. DES. |           | DATE | 1-6-66   |                |  |      |  |
| MECH. DES.  |           | DATE |          |                |  |      |  |

NOTES

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TF 332



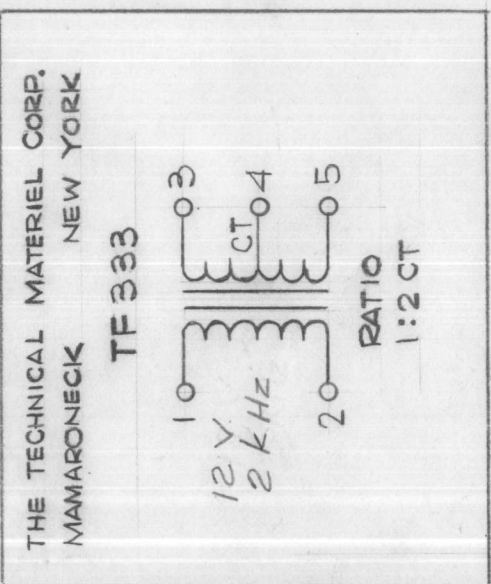
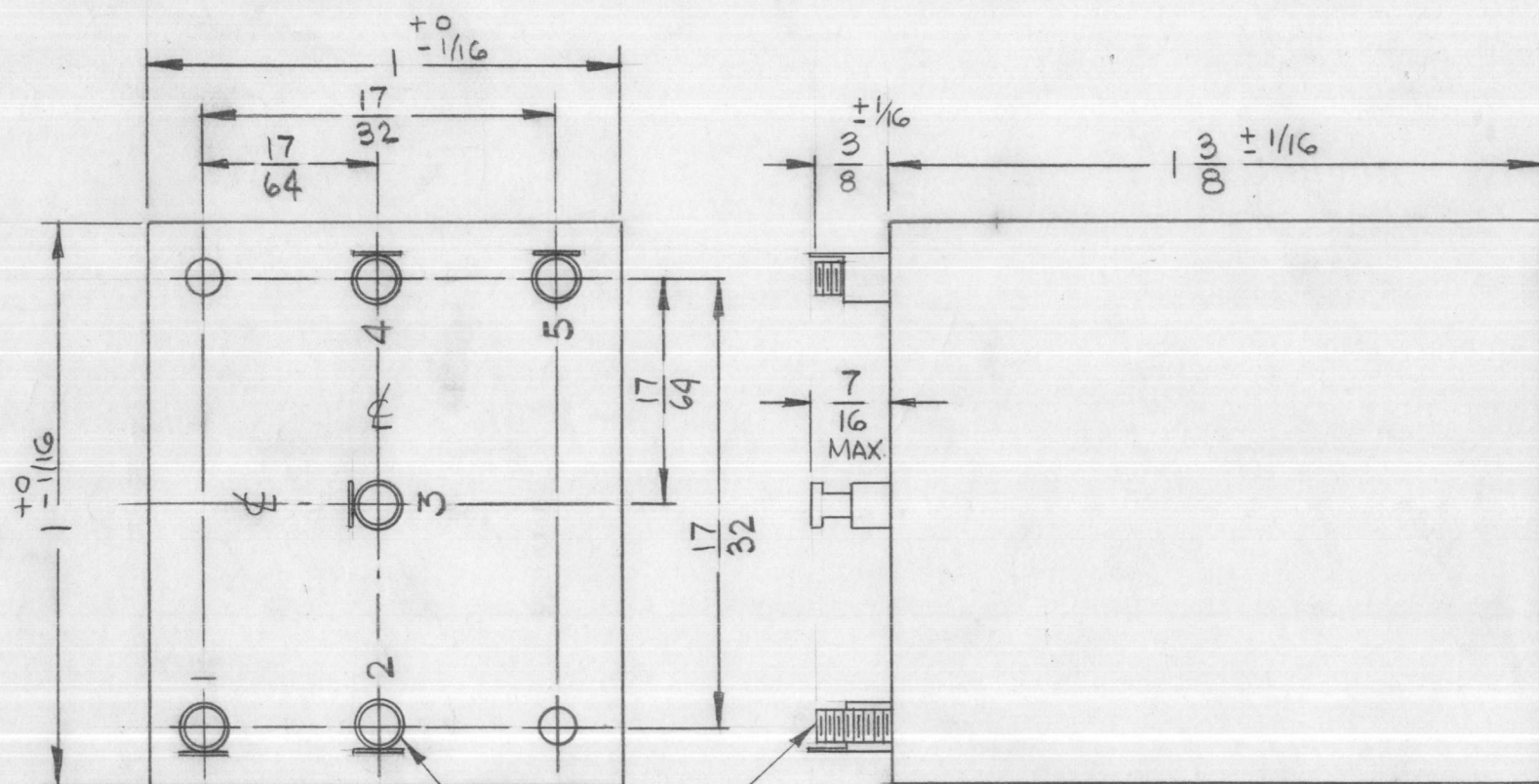


HOLES REQ  
 A - 9/64 DIA. 2  
 B - 7/16 DIA. 5

MOUNTING DETAIL

TF 333

| REVISIONS |                                 |         |            |       |           |
|-----------|---------------------------------|---------|------------|-------|-----------|
| SYM       | DESCRIPTION                     | DATE    | E.M.N. NO. | DRAFT | CHKD APPD |
| XI        | ELECT. SPEC. NO. 3 ADDED        | 12-9-67 | #          | Ends  |           |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION | 12-6-67 | Ø          | C.V.  |           |



- ELECTRICAL SPECIFICATIONS
- TRANSFORMER, H.V. INVERTER
  - COIL DATA:  
 PRIMARY WINDING: SEE PICTORIAL  
 SECONDARY WINDING: SEE PICTORIAL
  - FREQUENCY: APPROX. 2 kHz
- MECHANICAL SPECIFICATIONS
- CASE DATA:  
 A - HERMETICALLY SEALED  
 B - RECTANGULAR STEEL CASE, MIL TYPE  
 C - BODY DIMENSIONS: 1" WIDE  
 1" LONG  
 1 3/8 HIGH
  - MOUNTING DATA:  
 A - MTG. METHOD: STUD  
 B - MTG. DIMENSIONS: (2) 4-40 STUDS ON 17/32 CTRS. - 3/8 HIGH
  - TERMINAL DATA: A - (5) TERMINALS  
 B - LUNDEY-199-E
  - FINISH: SMOOTH GRAY ENAMEL (TMC SPEC. S115) EXCEPT TERMINAL END
  - MARKING:  
 METAL STAMP TERMINALS 1 THRU 5 AS SHOWN. MARK TOP AS SHOWN PER TMC SPEC. S727
- INSULATION: 300 V

NOTE:  
 TO BE MANUFACTURED IN ACCORDANCE WITH MIL-T-27, EXCEPT THAT MIL-T-27 SHALL NOT APPEAR ON CASE & QUALIFICATION TESTING IS NOT REQ.

**NOTES**

|   |               |               |
|---|---------------|---------------|
| TPSG-1  |               |               |
| Q'TY./UNIT  | MODEL USED ON | ASS'Y. NO.    |
| SCALE #   | CODE C        | S401-30(7022) |
| THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN. |               |               |

| REQ'D.  | ITEM | PART NUMBER | DESCRIPTION   | SYMBOL  |
|---|------|-------------|---|---|
| <b>POSE LIST OF MATERIAL</b>  |      |             |   |   |
| MATERIAL  |      |             | <b>THE TECHNICAL MATERIEL CORP.<br/>MAMARONECK, NEW YORK</b>                                |   |
| FINISH  |      |             | <b>TRANSFORMER, H.V. INVERTER</b>   |   |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |      |             | DRAWN H. AUSTIN<br>CHECKED [Signature]<br>ELECT. DES. [Signature]<br>MECH. DES. [Signature] | DATE 12-21-65<br>DATE 1-6-66<br>DATE 1-6-66<br>DATE |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005   |      |             | FINAL APPROVAL [Signature] DATE [Signature]<br><b>TF 333</b><br>SHEET [Signature] REV. LTR. |   |
| FRACTIONS ± 1/64 ANGLES ± 0° 30'  |      |             | ML Klein 1/6/66   |   |

# STANDARD DRAWING

**NOTES: ELECTRICAL:**

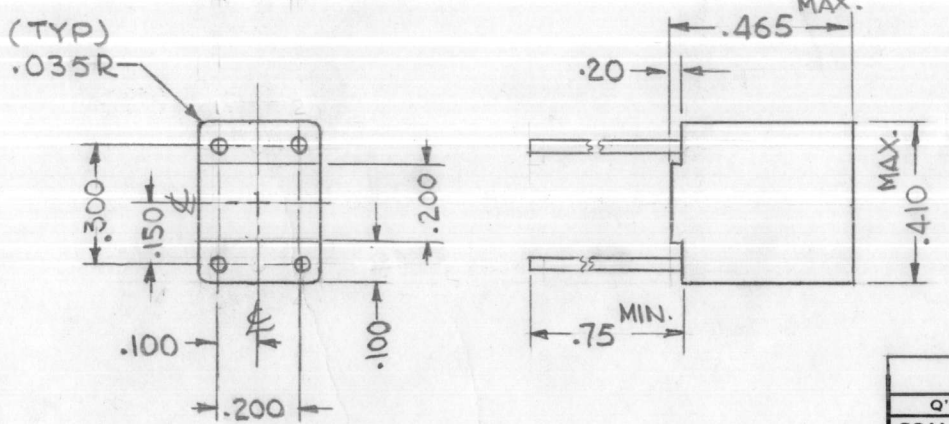
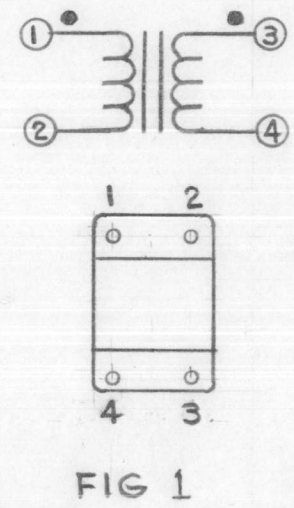
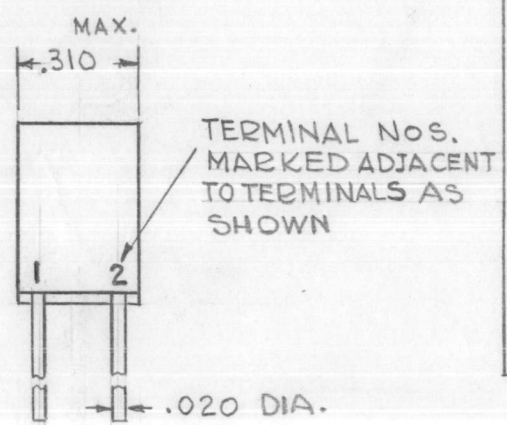
1. DIELECTRIC STRENGTH 500 VRMS, 60 CYCLES BETWEEN WINDINGS AND EACH WINDING TO CASE.
2. INSULATION RESISTANCE 10K MEGOHMS MINIMUM @ 500 VDC.
3. WORKING VOLTS: 150 MAXIMUM

TF 334

**REVISIONS**

| SYM | DESCRIPTION                     | DATE    | E.M.N. NO. | DRAFT | CHKD | APPD |
|-----|---------------------------------|---------|------------|-------|------|------|
| Ø   | ORIGINAL RELEASE FOR PRODUCTION | 10-5-65 | H          | E     |      |      |

| TMC P/N | MFG P/N | MILITARY TYPE NUMBER | APPLICATION | FIG. NO. | MAX. POWER OUT-MW | MATCHING IMPEDANCE |           | PRI. MAX. MADC-UNBAL | D.C. RESISTANCE OHMS ± 20% |           | FREQ. RESPONSE CPS ± 3 DB | OVERALL TURNS RATIO ± 3% |
|---------|---------|----------------------|-------------|----------|-------------------|--------------------|-----------|----------------------|----------------------------|-----------|---------------------------|--------------------------|
|         |         |                      |             |          |                   | PRIMARY            | SECONDARY |                      | PRIMARY                    | SECONDARY |                           |                          |
| TF334-1 | SP-7    | TF5SX16ZZ            | INPUT       | 1        | 10                | 200,000            | 1,000     | 0                    | 5300                       | 110       | 300-60,000                | 14.1 : 1                 |



| REQ'D.  | ITEM | PART NUMBER | DESCRIPTION   | SYMBOL  |
|---|------|-------------|---|---------|
| <b>LIST OF MATERIAL</b>   |      |             |   |         |
| MATERIAL  |      |             | <b>THE TECHNICAL MATERIEL CORP.</b><br>MAMARONECK, NEW YORK |         |
| FINISH  |      |             | TITLE<br><b>TRANSFORMER, TRANSISTOR</b>                     |         |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |      |             |   |         |
| DRAWN   |      | G.D.L       | DATE  | 9-27-65 |
| CHECKED   |      | J.P.B       | DATE  | 10/5/65 |
| ELECT. DES.   |      | J.C.        | DATE  | 10/5/65 |
| MECH. DES.  |      |             | DATE  |         |
| FINAL APPROVAL  |      |             | <b>TF 334</b>   |         |
| SHEET   |      |             | REV. LTR.   |         |

|              |               |            |
|--------------|---------------|------------|
| 1            | SPU - 2       |            |
| Q'TY./UNIT   | MODEL USED ON | ASS'Y. NO. |
| DO NOT SCALE | CODE<br>C     | S401-159   |

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**NOTES**

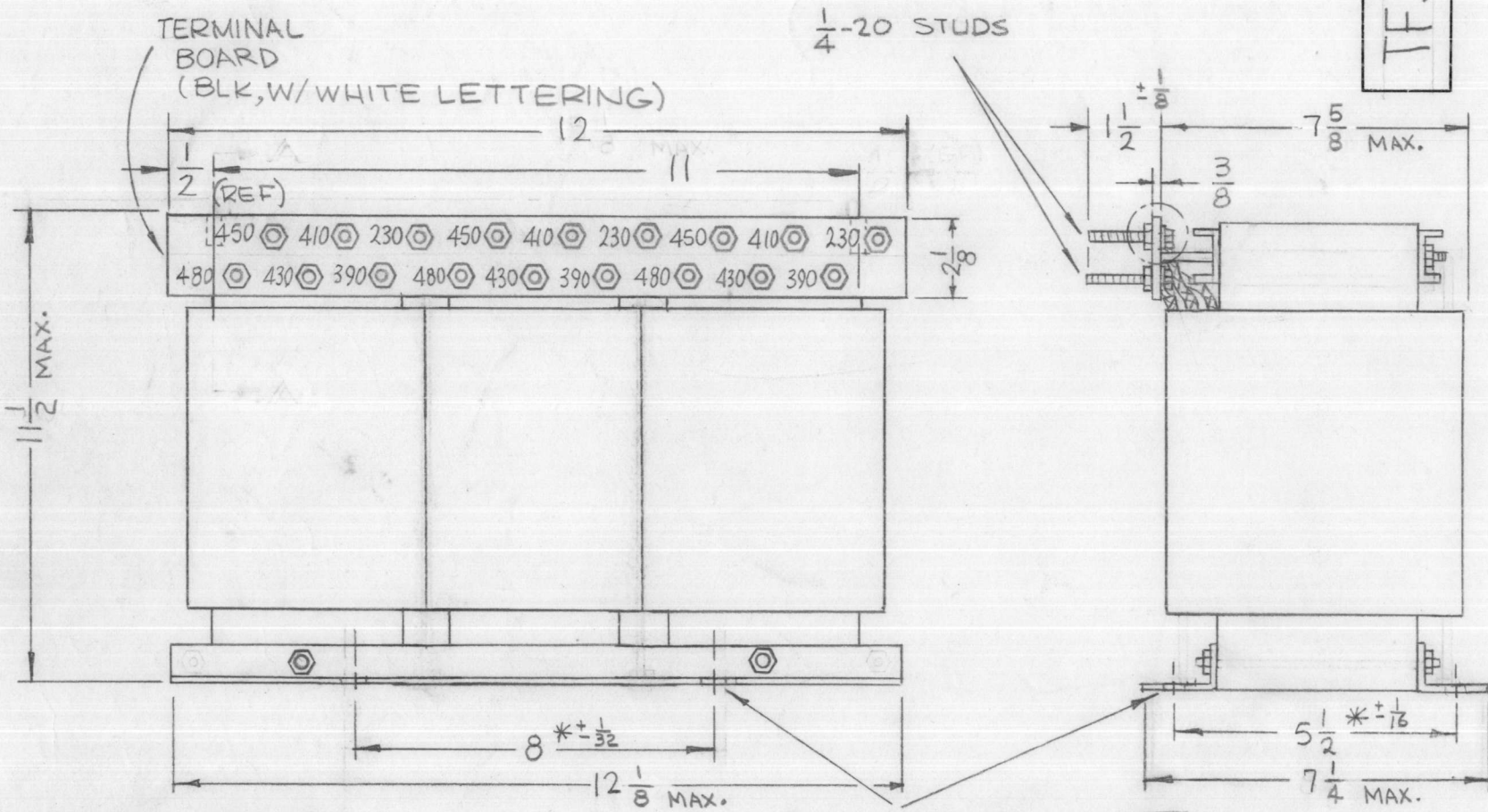
B  
TF336

REVISIONS

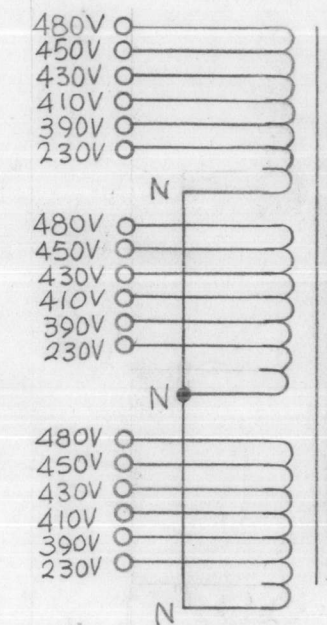
| SYM | DESCRIPTION  | DATE     | E.M.N. NO. | DRAFT | CHKD | APPD |
|-----|--|----------|------------|-------|------|------|
| X   | EXPERIMENTAL RELEASE   | 5/25/66  | -A-        | Jc    |      |      |
| Ø   | ORIGINAL RELEASE FOR PRODUCTION                                  | 6.27.66  | -A-        | Lfto  |      | JLW  |
| A   | CHG'D DIMS AND ADDED TOL. ON PICT. CHG'D NOTES 1 AND 2 ON SPECS. | 8.8.66   | 16716      | RME   | JCB  | MM   |
| B   | DIM 12 WAS 15-1/8, IT WAS F(2) 1/2 DIM ADDED SECT A-A ADDED      | 12.30.66 | 17588      | Lfto  | JCB  | JLW  |

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK

TF336



\* MTG. CENTERS



INPUT - 480, 450, 430  
410, 390 VAC  
50/60 CPS  
3Ø

OUTPUT - 230V  
LINE TO LINE  
TERMINALS  
40 AMPS

SCHEMATIC - TO BE STAMPED ON XFMR,  
IN WHITE.

SPECIFICATIONS:

WINDING DATA:

- INPUT: 480, 450, 430, 410, 390VAC, 50/60 CPS, 3PH
- OUTPUT VOLTAGE: 230 V AC
- OUTPUT CURRENT RATING: 40 AMP RMS
- BREAKDOWN TEST VOLTAGE 2000V AC.
- CASE-OPEN FRAME.
- FINISH-S115 SMOOTH GREY ENAMEL EXCEPT TERMINAL BOARD & TERMINALS.
- TERMINAL BOARD 3/8" THICK.

NOTE: MFG-IN ACCORDANCE WITH/MIL-T-27A EXCEPT MIL-7-27A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

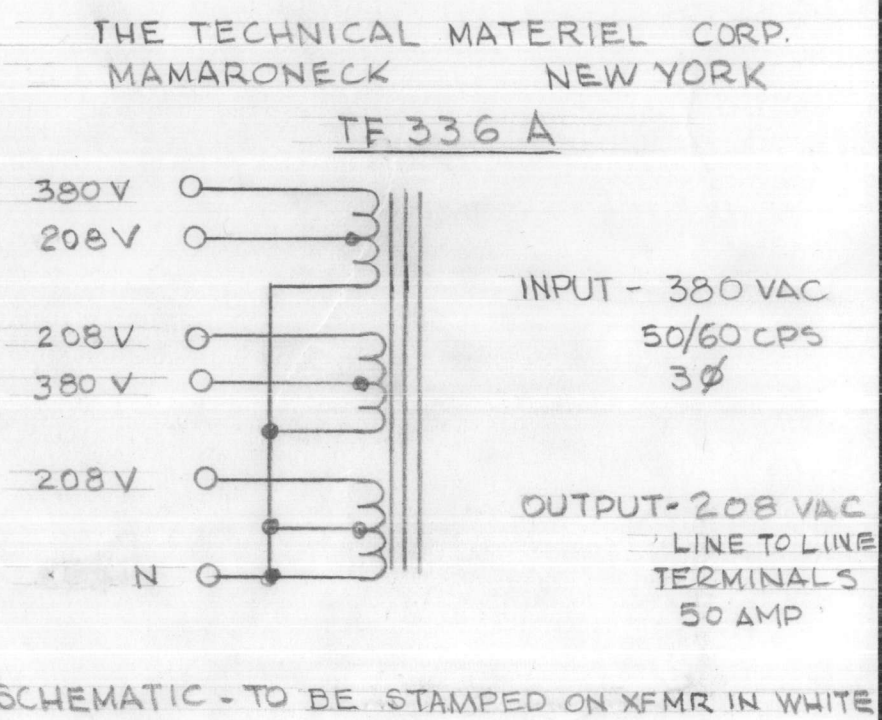
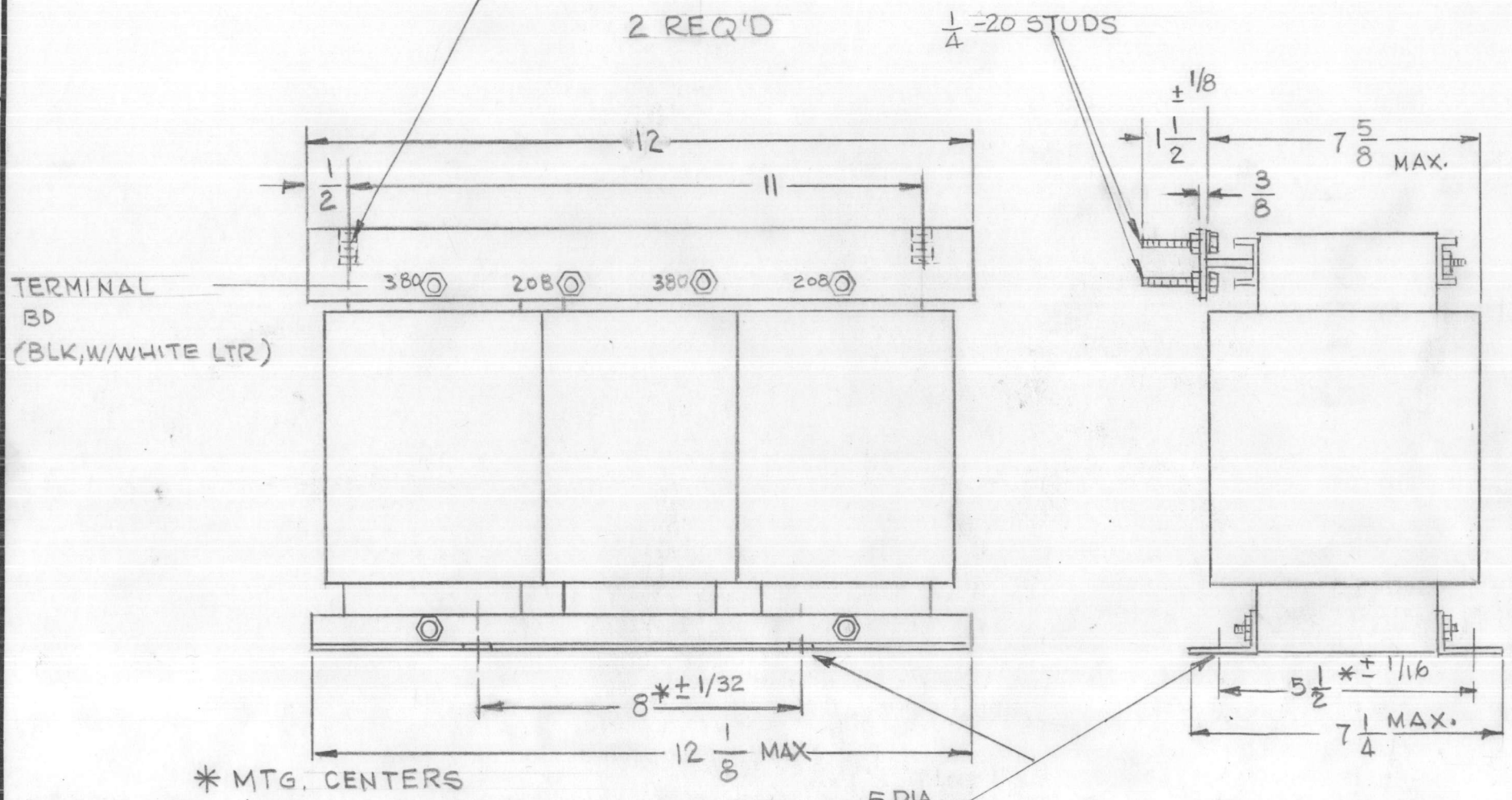
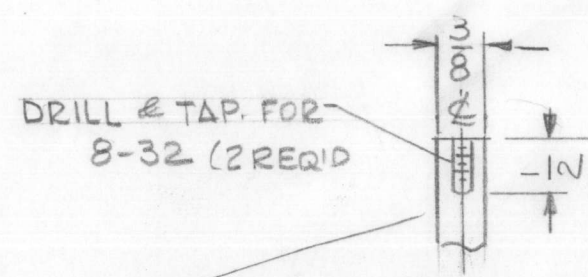
NOTES

| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO.     |
|------------|---------------|----------------|
| 1          | GPT-40K       |                |
| SCALE NONE | CODE C        | S401-30 (7168) |

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| REQ'D.  | ITEM | PART NUMBER | DESCRIPTION                                       | SYMBOL         |
|---|------|-------------|---|----------------|
| F. BUDETTI LIST OF MATERIAL   |      |             |   |                |
| MATERIAL  |      |             | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK |                |
| FINISH  |      |             | TITLE   |                |
| SEE SPECS   |      |             | TRANSFORMER, POWER, FIXED                         |                |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |      |             | DRAWN   | DATE           |
|   |      |             | 11-30-65  | FINAL APPROVAL |
|   |      |             | DATE  | DATE           |
|   |      |             | 6-24-66   | 6/27/66        |
| DECIMALS  |      |             | ELECT. DES.                                       | DATE           |
| .X ± .05  |      |             | DATE  | DATE           |
| .XX ± .01   |      |             | 6-24-66   | TF336          |
| .XXX ± .005   |      |             | MECH. DES.  | DATE           |
| TOLERANCES  |      |             |   |                |
| FRACTIONS   |      |             |   |                |
| ± 1/64  |      |             |   |                |
| ANGLES  |      |             |   |                |
| ± 0° 30'  |      |             |   |                |
|   |      |             | SHEET   | REV. LTR.      |
|   |      |             |   |                |

| REVISIONS  |       |      |      |     |                                 |        |
|------------|-------|------|------|-----|---------------------------------|--------|
| E.M.N. NO. | DRAFT | CHKD | ZONE | LTR | DESCRIPTION                     | DATE   |
|            | GDL   |      |      |     | ORIGINAL RELEASE FOR PRODUCTION | 2-4-93 |



SPECIFICATIONS

- WINDING DATA:
- INPUT 380 VAC
  - OUTPUT VOLTAGE: 208V AC
  - OUTPUT CURRENT RATING: 50AMP RMS
  - BREAKDOWN TEST VOLTAGE 2000V AC
  - CASE-OPEN FRAME
  - FINISH-S115 SMOOTH GREY ENAMEL EXCEPT TERMINAL BOARD TERMINALS
  - TERMINAL BOARD 3/8" THICK

NOTE: MFG-IN ACCORDANCE WITH MIL-T-27A SHALL NOT APPEAR ON CASE AN QUALIFICATION TESTING IS NOT REQUIRED

| QTY / UNIT  | MODEL USED ON | ASS'Y NO.      |
|-------------|---------------|----------------|
| 1           | GPT-40K       |                |
| APPLICATION |               |                |
|             | CODE          | 5401-30 (7168) |

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS: .X ± .05, .XX ± .01, .XXX ± .005  
FRACTIONS: 1/64, ANGLES: 0°-30'

TOLS.

MATERIAL

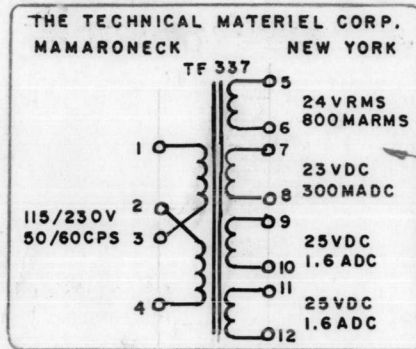
FINISH

| REQ'D  | ITEM            | PART NUMBER | DESCRIPTION | SYM. |
|--|-----------------|-------------|-------------|------|
| LIST OF MATERIAL                                     |                 |             |             |      |
| THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |                 |             |             |      |
| TRANSFORMER PWR FIXED                                |                 |             |             |      |
| SIZE   | CODE IDENT. NO. | DWG NO.     | ISSUE       |      |
| B  | 82679           | TF336A      | C           |      |
| SCALE  | 1:1             | SHEET       | OF          |      |

# STANDARD DRAWING

TF 337

| REVISIONS |                                 |        |            |       |      |      |
|-----------|---------------------------------|--------|------------|-------|------|------|
| SYM       | DESCRIPTION                     | DATE   | E.M.N. NO. | DRAFT | CHKD | APPD |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION | 4-7-66 | M          | Jc    |      |      |



SCHEMATIC DIAGRAM TO BE PLACED ON TOP SURFACE OF TRANSFORMER, PER TMC SPECIFICATION S727.

## -ELECTRICAL SPECIFICATIONS-

### TRANSFORMER, POWER

#### CASE DATA:

HERMETICALLY SEALED  
FULLY INCLOSED

FINISH: SMOOTH GRAY ENAMEL (TMC SPEC S115) EXCEPT TERM. END

#### PRIMARY WINDING:

VOLTAGE: 115V, 230V  
FREQUENCY: 50/60CPS  
PHASE: ONE

#### SECONDARY WINDING

24VRMS, 800MARMs, 23VDC, 30MADC, 25VDC 1.6ADC, 25VDC 1.6ADC  
BODY DIMENSIONS: 4-5/16" LONG  
3-11/16" WIDE  
6" HIGH

#### TERMINAL DATA: 12 TERMINALS

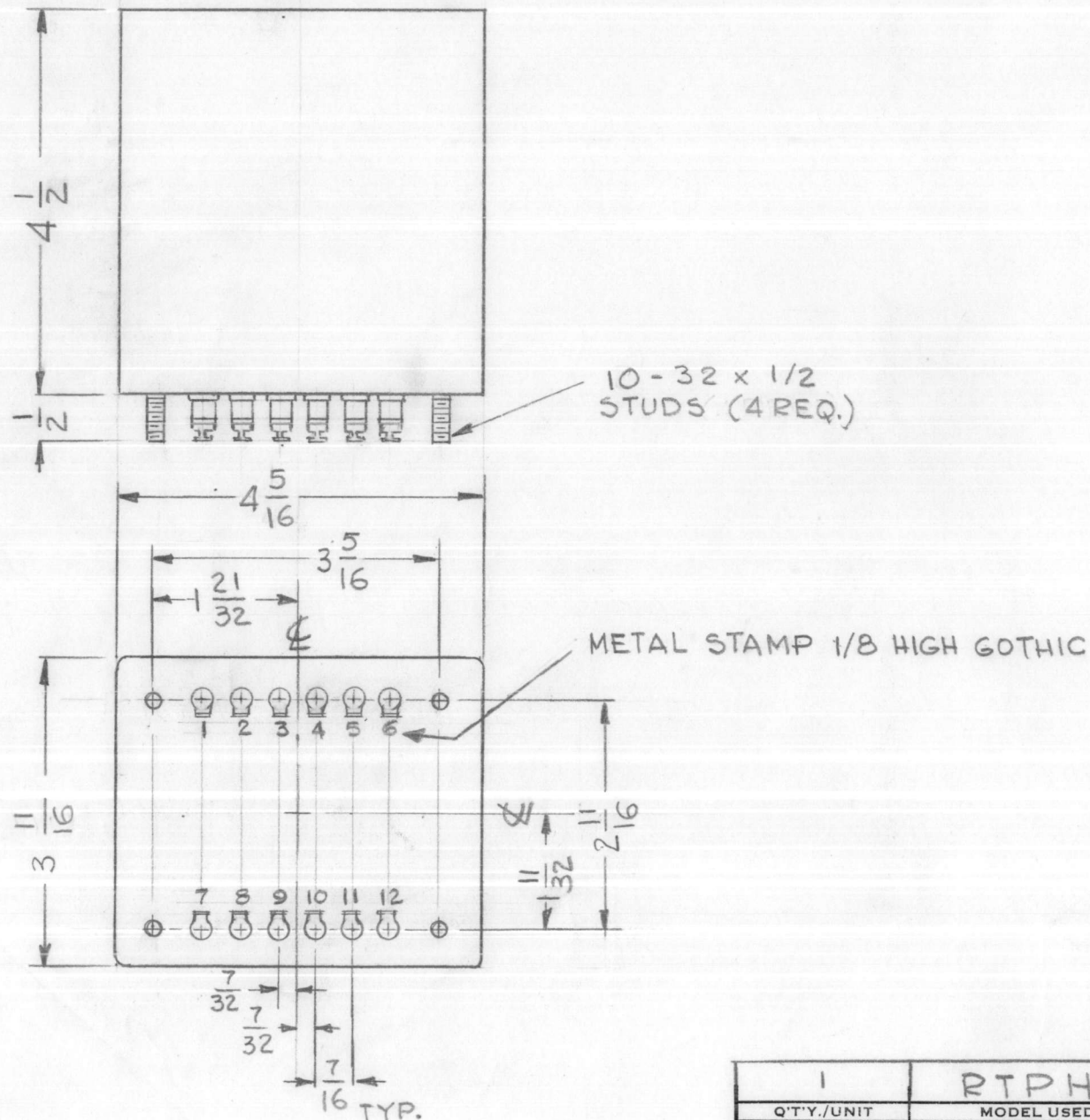
SOLDER TYPE 1/2 HIGH INSULATED

#### MOUNTING DATA:

MOUNTING METHOD: STUD

MOUNTING DIMENSIONS: (4) 10-32 STUDS ON 2-11/16 x 3-5/6 CENTERS  
1/2 HIGH

MARKING: METAL STAMP TERMINALS 1 THRU 12 AS SHOWN, MARK TOP AS SHOWN PER TMC SPEC. S727

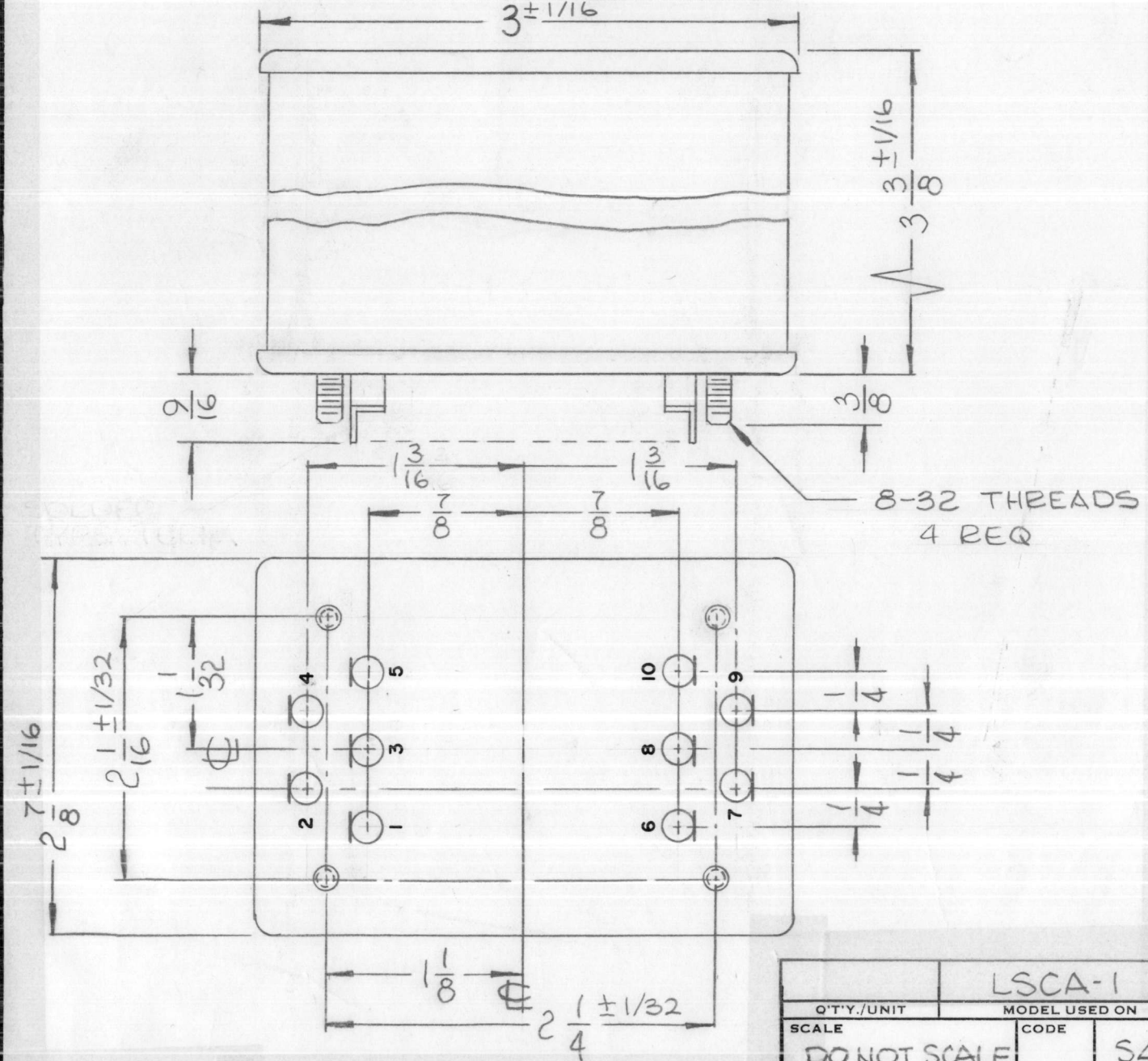
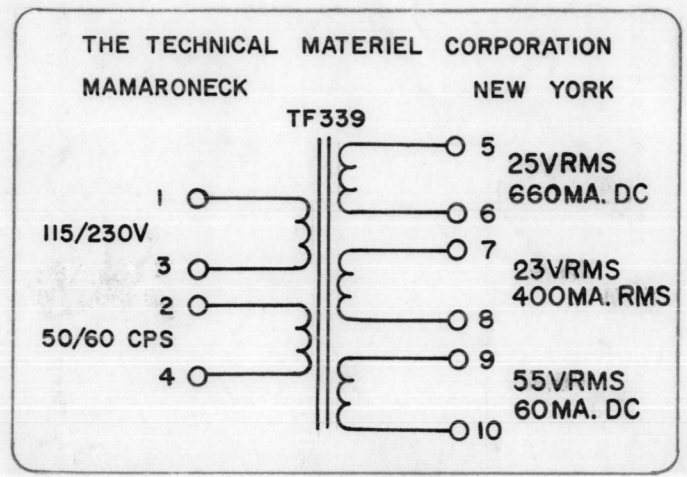


## NOTES

|   |               |                 |
|---|---------------|-----------------|
| 1   | RTPH          |                 |
| Q'TY./UNIT  | MODEL USED ON | ASS'Y. NO.      |
| SCALE   | CODE          |                 |
| 1:2   |               | S401-30 (70880) |
| THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN. |               |                 |

| REQ'D.  | ITEM | PART NUMBER  | DESCRIPTION    | SYMBOL                               |
|---|------|--|----------------|--------------------------------------|
| EATON LIST OF MATERIAL  |      |  |                |                                      |
| MATERIAL  |      | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |                |                                      |
| FINISH  |      | TITLE<br>TRANSFORMER, POWER                          |                |                                      |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |      | DRAWN<br>G.O.L.                                      | DATE<br>4-4-65 | FINAL APPROVAL<br><i>[Signature]</i> |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  |      | CHECKED<br><i>[Signature]</i>                        | DATE<br>4-7-66 | DATE<br>4/7/66                       |
| FRACTIONS<br>± 1/64<br>ANGLES<br>± 0° 30'   |      | ELECT. DES.<br><i>[Signature]</i>                    | DATE           | TF 337                               |
| TOLERANCES  |      | MECH. DES.<br>3/30/66                                | DATE<br>4/7/66 | Ø                                    |
| SHEET   |      |  |                | REV. LTR.                            |

# STANDARD DRAWING



**NOTES**

|              |               |                |
|--------------|---------------|----------------|
| Q'TY./UNIT   | MODEL USED ON | ASS'Y. NO.     |
| SCALE        | CODE          | S401-30 (7826) |
| DO NOT SCALE |               |                |

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TF339

| REVISIONS |                                 |         |            |       |      |      |
|-----------|---------------------------------|---------|------------|-------|------|------|
| SYM       | DESCRIPTION                     | DATE    | E.M.N. NO. | DRAFT | CHKD | APPD |
| X         | EXPERIMENTAL RELEASE            | 9-16-66 | VM         | JC    |      |      |
|           | ORIGINAL RELEASE FOR PRODUCTION | 9/23/66 | D          | CV    |      |      |

**SPECIFICATIONS**

**ELECTRICAL:**

1. TRANSFORMER, POWER (ISOLATION & STEP-DOWN)
2. COIL DATA:
  - PRIMARY WINDING: TERM 1,2,3,4 115/230V, 50/60 HZ (CPS)
  - SECONDARY WINDING:
    - FULL LOAD: (5&6, 9&10 CAP. INPUT) (SEE PICTORIAL)
    - NO LOAD:
      - TERM 5&6 27.1VRMS 660 MA.DC
      - TERM 7&8:24.8VRMS, 400MA.RMS
      - TERM 9&10:60.8VRMS 60MA.DC

**MECHANICAL:**

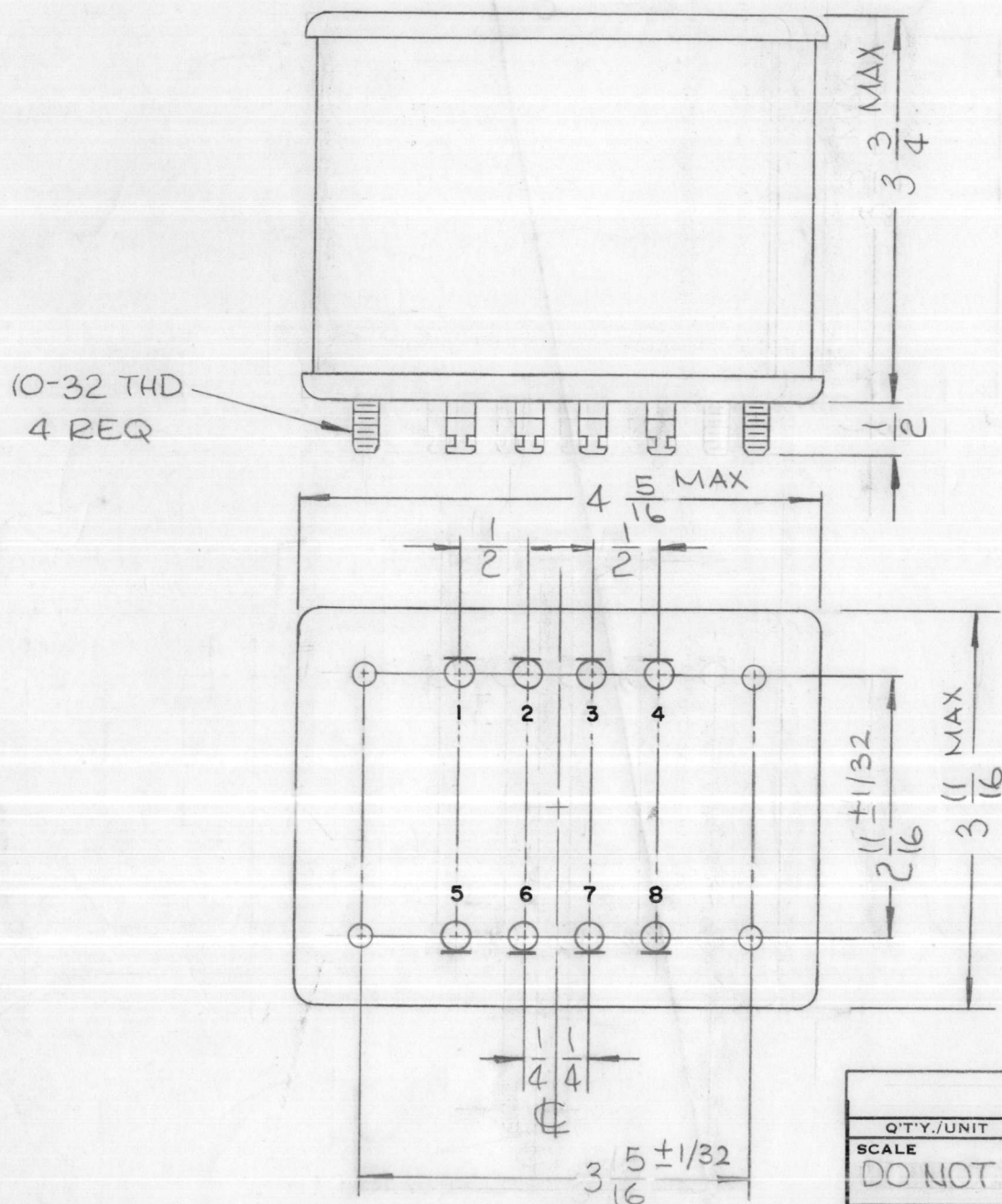
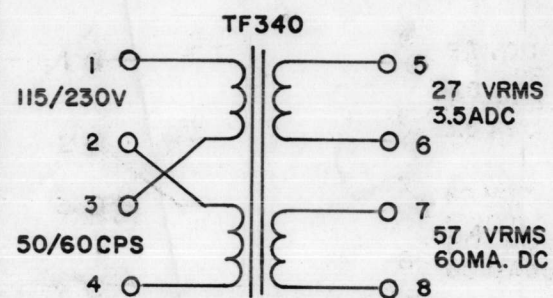
1. CASE DATA:
  - A. HERMETICALLY SEALED
  - B. RECTANGULAR STEEL CASE, MIL TYPE Y-Y
  - C. BODY DIM: SEE PICTORIAL
2. MOUNTING DATA:
  - A. MOUNTING METHOD: STUD
  - B. MOUNTING DIM. (4) 8-32 STUDS ON 2 1/16 x 2 1/4 CENTERS 3/8 HIGH
3. TERMINAL DATA:
  - A. 10 TERMINALS
  - B. SOLDER TYPE 9/16 HIGH INSULATED
4. FINISH: SMOOTH GRAY ENAMEL (TMC SPEC S115) EXCEPT TERMINAL END
5. MARKING: METAL STAMP 1 to 10 AS SHOWN. MARK TOP AS PER TMC SPEC S727. AS SHOWN

**NOTE:** TO BE MANUFACTURED IN ACCORDANCE WITH MIL-SPEC T-27-A, EXCEPT THAT MIL-SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IN NOT REQUIRED.

|   |   |            |                |           |
|---|---|------------|----------------|-----------|
| MATERIAL  | <b>THE TECHNICAL MATERIEL CORP.</b>       |            |                |           |
|   | EATON MAMARONECK, NEW YORK                |            |                |           |
| FINISH  | TITLE                                     |            |                |           |
|   | TRANSFORMER, POWER (ISOLATION & STEPDOWN) |            |                |           |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | DRAWN                                     | DATE       | FINAL APPROVAL | DATE      |
|   | WMM                                       |            | # Creator M... | 9/23/66   |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  | CHECKED                                   | DATE       | TF339          | D         |
|   | JC  |            |                |           |
| FRACTIONS<br>± 1/64<br>ANGLES<br>± 0° 30'   | ELECT. DES.                               | DATE       | SHEET          | REV. LTR. |
|   | JC  | 9-22-66    |                |           |
| TOLERANCES  |   | MECH. DES. |                |           |
|   |   | DATE       |                |           |

# STANDARD DRAWING

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK



**NOTES**

|   |               |                |
|---|---------------|----------------|
| LRCA-1  |               | ASS'Y. NO.     |
| Q'TY./UNIT  | MODEL USED ON | CODE           |
| SCALE   | DO NOT SCALE  | S401-30 (7304) |
| THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN. |               |                |

TF340

| REVISIONS |                                 |         |            |       |      |
|-----------|---------------------------------|---------|------------|-------|------|
| SYM       | DESCRIPTION                     | DATE    | E.M.N. NO. | DRAFT | CHKD |
| X         | EXPERIMENTAL RELEASE            | 9/16/66 | VM         | Jc    |      |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION | 9/23/66 | Ø          |       |      |

**SPECIFICATIONS**

**ELECTRICAL:**  
**PRIMARY:**  
 TERM 1&3: 115 VOLTS 50/60 HZ (CPS)  
 TERM 2&4: 115 VOLTS 50/60 HZ (CPS)

**SECONDARY:**  
 FULL LOAD: (WITH CAP. INPUT 5&6 2600UF 7&8 1700UF)  
 (SEE PICTORIAL)  
 NO LOAD: TERM 5&6: 28.8 VRMS  
 TERM 7&8: 60.4 VRMS  
 BREAKDOWN BETWEEN WINDINGS: 1000 VDC

**MECHANICAL:**

CASE: COLD ROLLED STEEL, HERMETICALLY SEALED  
 FINISH: S115 TMC GRAY (EXCEPT STUD, END)  
 DIMENSIONS: SHOWN PICTORIALY  
 TERMINALS: SOLDER LUG TYPE, CERAMIC STANDOFF  
 MOUNTING STUDS: 10-32 x 1/2 LONG

**STAMPING:**

TERMINALS SHALL BE METAL STAMPED (AS SHOWN).  
 SCHEMATIC DIAGRAM TO BE PLACED ON END OPPOSITE TERMINAL END.  
 BLACK GOTHIC LETTERING & LINE WORD AS PER TMC SPEC S727

**NOTE:**

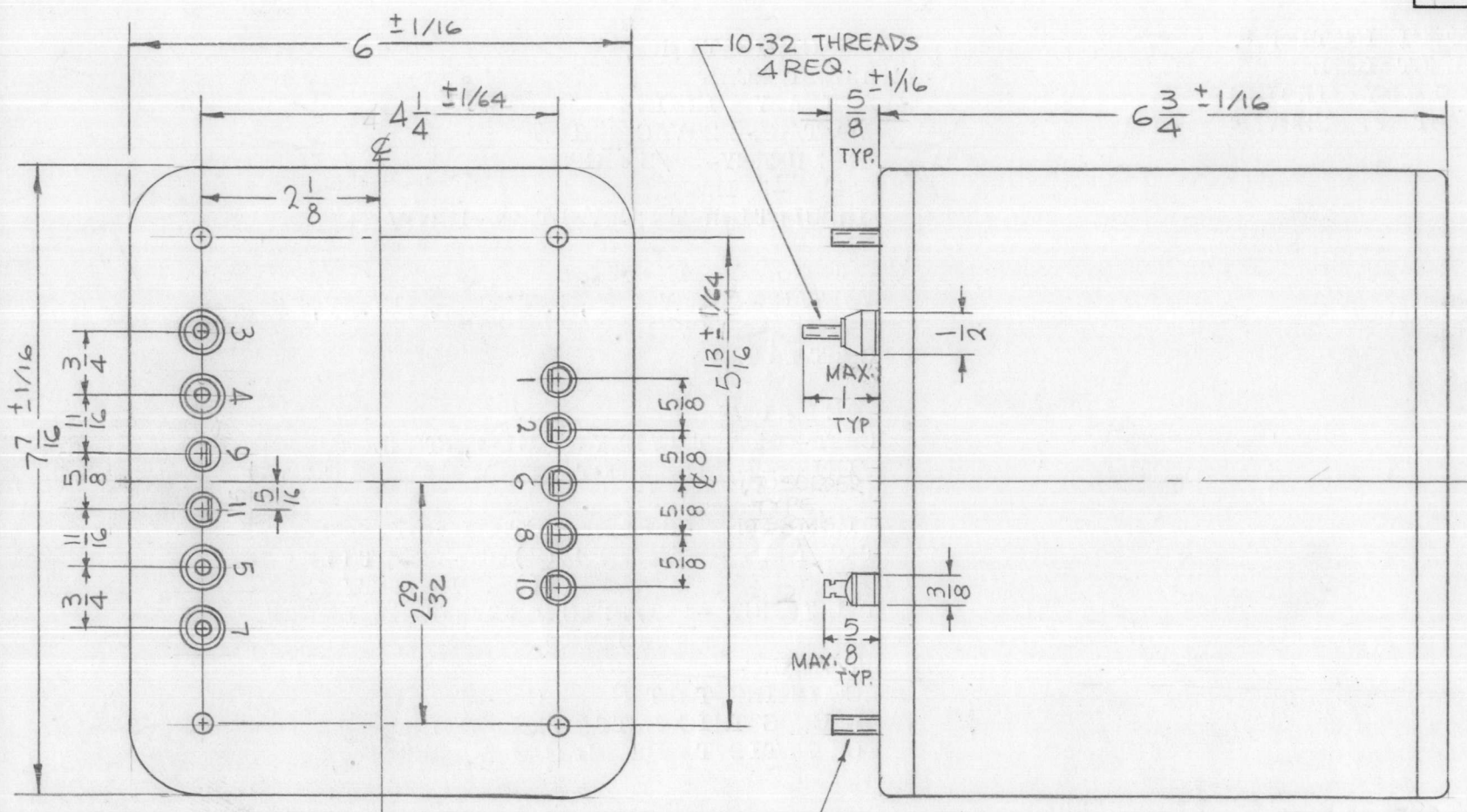
TO BE MANUFACTURED IN ACCORDANCE WITH MIL-SPEC T-27-A, EXCEPT THAT MIL-SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

| REQ'D.  | ITEM       | PART NUMBER    | DESCRIPTION  | SYMBOL    |
|---|------------|----------------|--|-----------|
| <b>EATON LIST OF MATERIAL</b>   |            |                |  |           |
| MATERIAL  |            |                | <b>THE TECHNICAL MATERIEL CORP.<br/>MAMARONECK, NEW YORK</b> |           |
| FINISH  |            |                | XFRMR, POWER   |           |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |            |                |  |           |
| DECIMALS  | TOLERANCES |                | FRACTIONS  |           |
| .X ± .05  |            |                | ± 1/64   |           |
| .XX ± .01   |            |                | ANGLES   |           |
| .XXX ± .005   |            |                | ± 0° 30'   |           |
| DRAWN   | DATE       | FINAL APPROVAL | DATE   |           |
| WHD   |            | JEC            | 9/22/66  |           |
| CHECKED   | DATE       |                |  |           |
| Ø   |            |                |  |           |
| ELECT. DES.   | DATE       | SHEET          |  | REV. LTR. |
| Jc  | 9-22-66    | TF340          |  | Ø         |
| MECH. DES.  | DATE       |                |  |           |

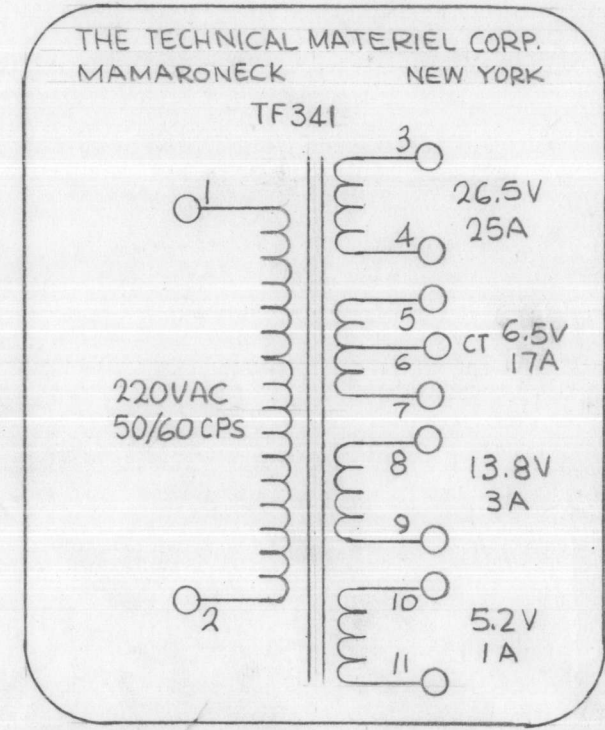
TF341

REVISIONS

| SYM | DESCRIPTION                     | DATE     | E.M.N. NO.    | DRAFT              | CHKD | APPD               |
|-----|---------------------------------|----------|---------------|--------------------|------|--------------------|
| X   | EXPERIMENTAL RELEASE            | 6-7-66   | X             | <i>[Signature]</i> |      |                    |
| Ø   | ORIGINAL RELEASE FOR PRODUCTION | 11-11-66 | <del>44</del> | <i>[Signature]</i> |      | <i>[Signature]</i> |



SPECIFICATIONS.  
ELECTRICAL  
PRIMARY WINDING  
VOLTAGE 220VAC



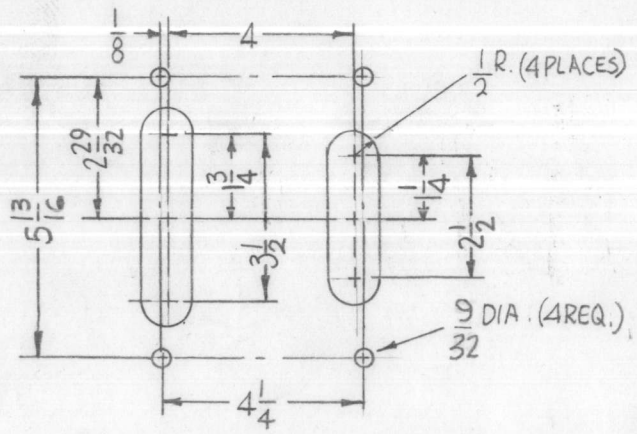
SPECIFICATIONS;  
ELECTRICAL  
PRIMARY WINDING  
VOLTAGE-220VAC  
FREQUENCY-50/60 CPS  
PHASE- SINGLE  
INSULATION TEST VOLTAGE-1500VRMS

SECONDARY WINDING.  
VOLTAGE-26.5V 25A, 6.5V 17A, 13.8V, 3A  
5.2V 1A.  
CENTER TAP

MECHANICAL  
CASE-HERMETICALLY SEALED, STEEL CASE  
FINISH-S-115 SMOOTH GREY ENAM. EXCEPT  
TERMINALS  
DIMENSIONS -SHOWN PICTORIALY  
TERMINALS- CERAMIC (4) 10-32 STUDS  
(7) SOLDER TYPE  
TOLERANCE -+ 1/32 UNLESS OTHERWISE  
SPECIFIED.

STAMPING-  
ACCORDING TO TMC SPEC S-727  
BLACK GOTHIC LETTERING & LINE WORK  
SCHEMATIC TO BE PLACED AS SHOWN.

NOTE.  
MANUFACTURED IN ACCORDANCE W/MIL-SPEC T-27-A  
EXCEPT THAT MIL SPEC T-27-A SHAL NOT APPEAR  
ON CASE AND QUALIFICATION TESTING NOT REQ.



MOUNTING DETAIL

NOTES

|            |               |                    |
|------------|---------------|--------------------|
| 1          | AP-128        | A5256              |
| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO.         |
| SCALE 1:2  | CODE C        | 5401-30 (BTC 7450) |

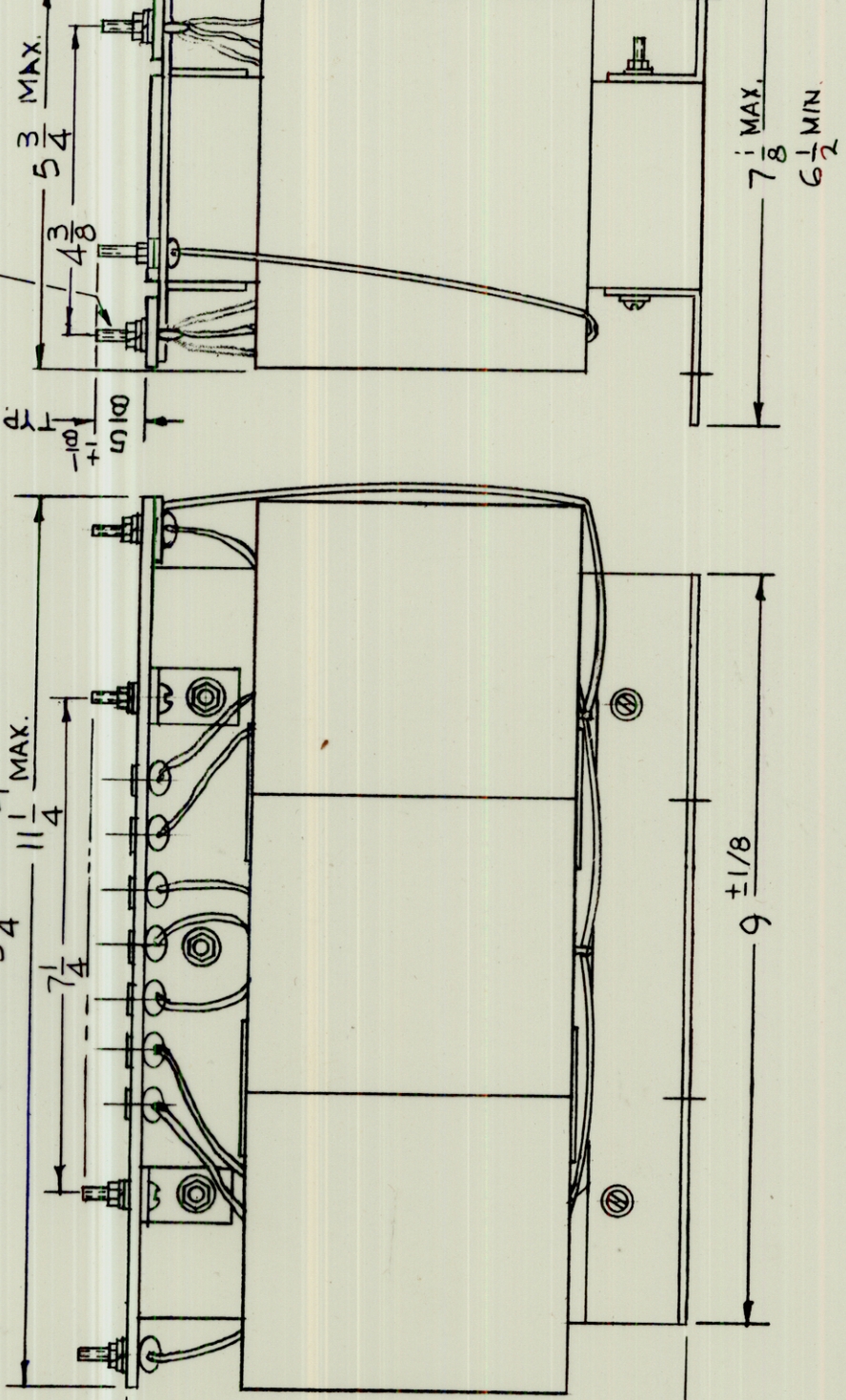
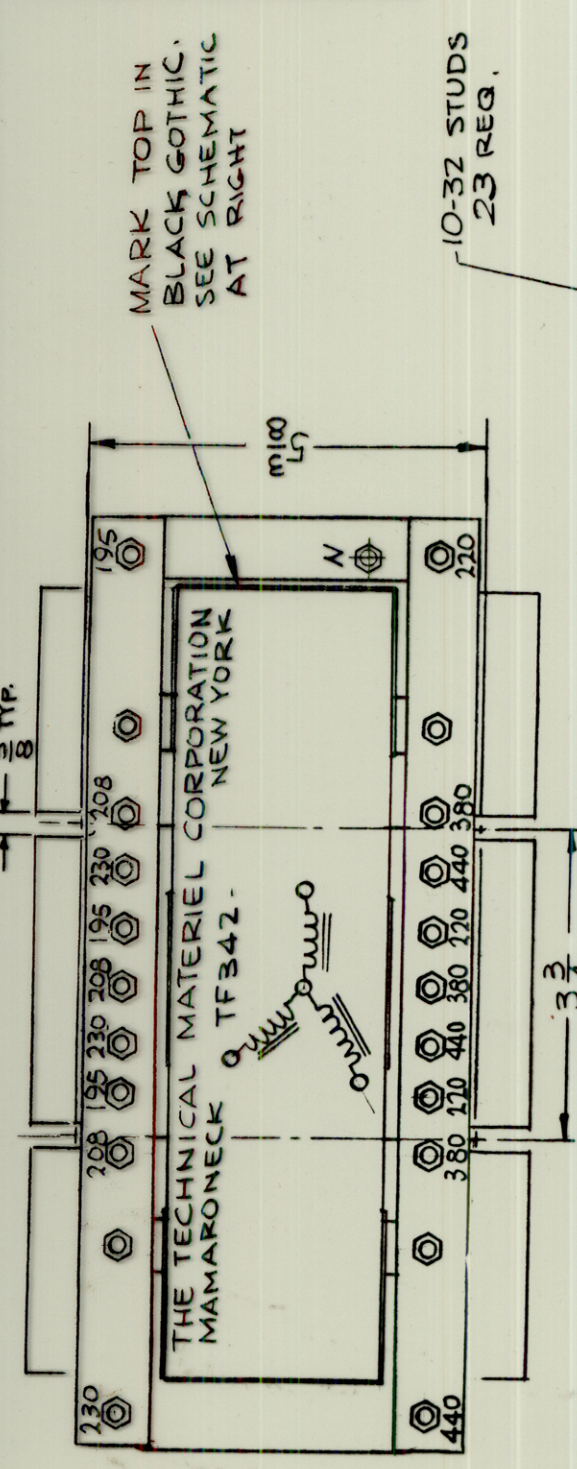
THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

| REQ'D.  | ITEM | PART NUMBER                                       | DESCRIPTION | SYMBOL  |
|---|------|---|-------------|---|
| F. BUDETTI LIST OF MATERIAL   |      |   |             |   |
| MATERIAL  |      | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK |             |   |
| FINISH  |      | TRANSFORMER, FILAMENT                             |             |   |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |      | DRAWN <i>[Signature]</i>                          | DATE 6-7-66 | FINAL APPROVAL <i>[Signature]</i> DATE 11/10/66 |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005   |      | CHECKED <i>[Signature]</i>                        | DATE 7-9-66 | TF 341  |
| FRACTIONS ± 1/64 ANGLES ± 0° 30'  |      | ELECT. DES. <i>[Signature]</i>                    | DATE        | Ø   |
| TOLERANCES  |      | MECH. DES. <i>[Signature]</i>                     | DATE        | SHEET   |
|   |      |   |             | REV. LTR.                                       |



| REVISIONS |   |          |            |        |      |      |
|-----------|---|----------|------------|--------|------|------|
| SYM       | DESCRIPTION   | DATE     | E.M.N. NO. | DRAFT  | CHKD | APPD |
| X         | EXPERIMENTAL RELEASE  | 6-8-66   | X          |        |      |      |
| X1        | 3-3/4 WAS 3-1/2   | 10-7-66  | X1         |        |      |      |
| X2        | 7-1/4, 4 3/8 ADDED  | 11-1-66  | X2         |        |      |      |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION                                 | 2-27-67  |            |        |      |      |
| A         | N <sup>o</sup> TERM & CONV. ADDED. QTY OF 10-32 STUDS 23 WAS 22 | 11/25/68 | 19102      | L.A.K. |      |      |

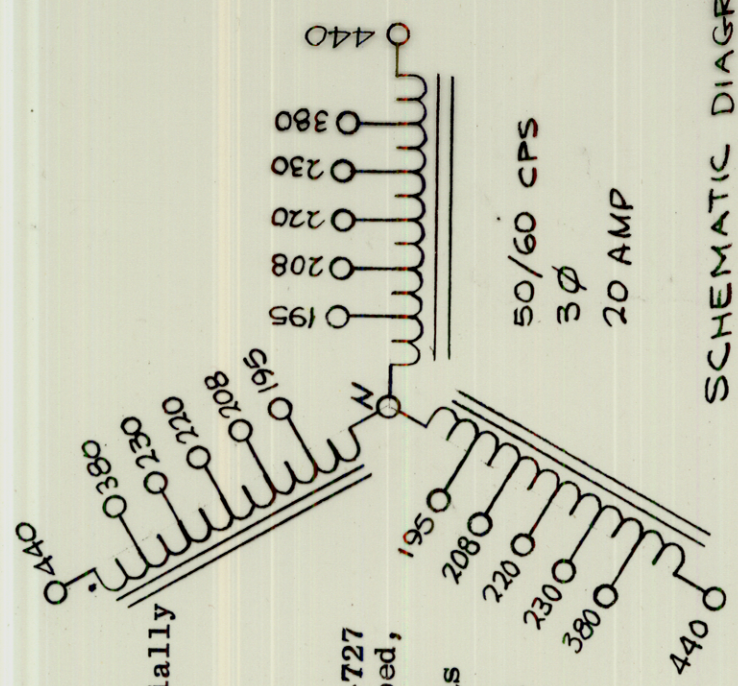
TF 342



**SPECIFICATIONS:**  
**ELECTRICAL**  
 Voltage - 195, 208, 230, 440, .220, 380 V.  
 Frequency - 50/60 CPS  
 Phase - 3Ø  
 Insulation Test Voltage - 1250 VRMS

**MECHANICAL**  
 Case - Open Frame  
 Finish - S115 Smooth Gray Enam. except Terminals  
 Dimensions - shown pictorially  
 Terminals - 10-32 Threads  
 Tole. Range + 1/32 unless otherwise specified.

**STAMPING**  
 According with TMC SPEC S-727  
 Terminals - shall be stamped, white  
 Schematic - to be placed as shown  
 Black Gothic Lettering and line work.



SCHEMATIC DIAGRAM

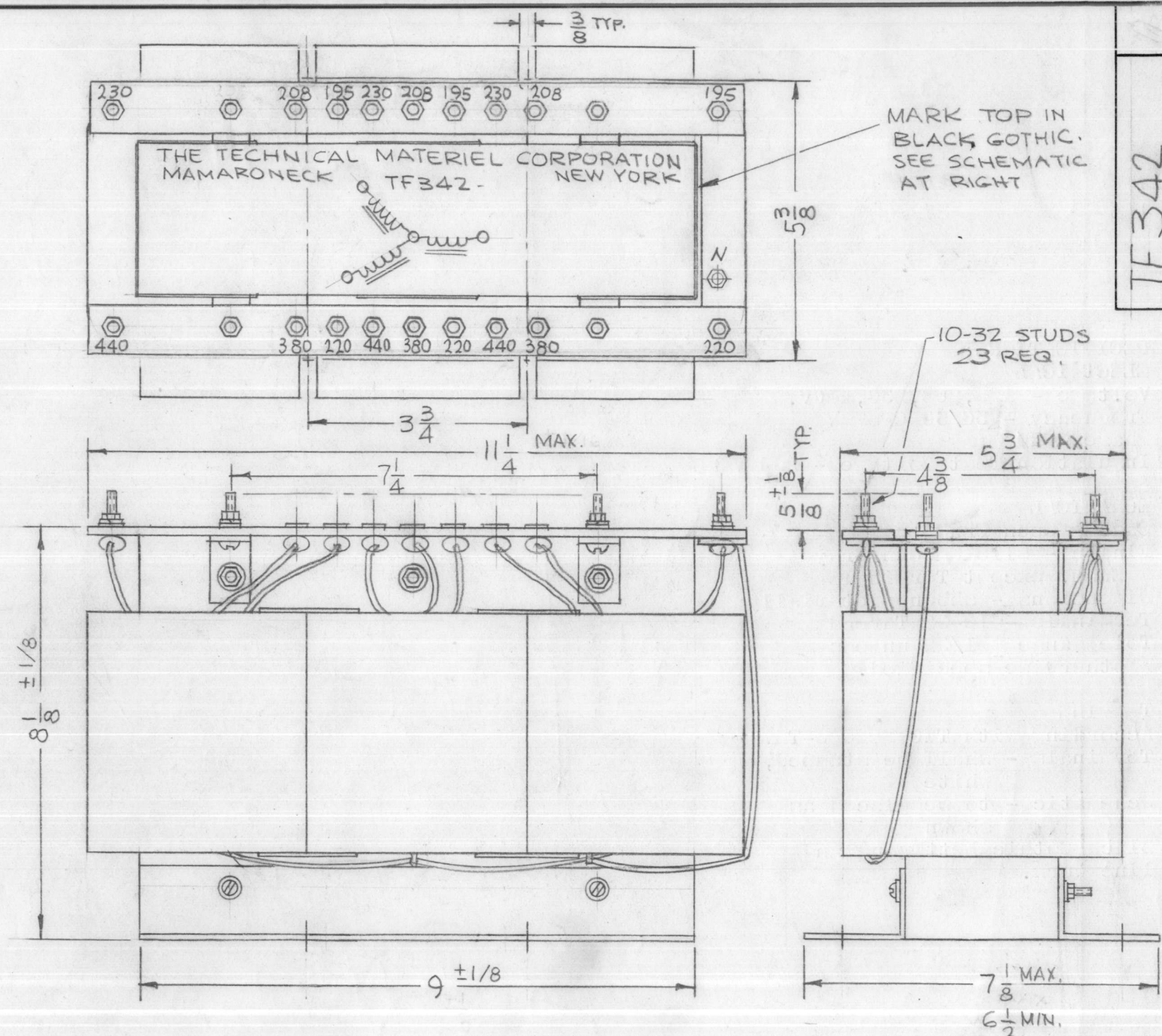
| REQ'D. | ITEM  | PART NUMBER | DESCRIPTION  | SYMBOL |
|--------|---|-------------|--|--------|
|        | F. BUDETTI  |             | LIST OF MATERIAL                                     |        |
|        | MATERIAL  |             | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |        |
|        | FINISH  |             | TRANSFORMER, AUTO.                                   |        |
|        | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |             |  |        |
|        | DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  |             |  |        |
|        | FRACTIONS<br>± 1/64<br>ANGLES<br>± 0° 30'   |             |  |        |
|        | TOLERANCES  |             |  |        |
|        |   | M/L         | 3/1/67   |        |
|        |   |             | SHEET  |        |
|        |   |             | TF 342   |        |
|        |   |             | REV. LTR.  |        |
|        |   |             | A  |        |

NOTE: Manufactured in accordance w/MIL-SPEC T-27-A, except that MIL SPEC T-27-A shall not appear on case and qualification testing not req.

|              |               |                    |
|--------------|---------------|--------------------|
| QTY./UNIT    | RAK 111-2     | BMA 15B            |
| SCALE (1:3)  | RAK 110-2     | BMA 15B            |
| DO NOT SCALE | CODE C        | S401-30 (BTC 7445) |
|              | MODEL USED ON | ASSY. NO.          |

NOTES

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MARK TOP IN BLACK GOTHIC. SEE SCHEMATIC AT RIGHT

TF342

REVISIONS

| SYM | DESCRIPTION   | DATE     | E.M.N. NO. | DRAFT  | CHKD | APPD |
|-----|---|----------|------------|--------|------|------|
| X   | EXPERIMENTAL RELEASE                                  | 6-8-66   | X          |        |      |      |
| X1  | 3-3/4 WAS 3-1/2                                       | 10-7-66  | X1         |        |      |      |
| X2  | 7-1/4, 4-3/8 ADDED                                    | 11-1-66  | X2         |        |      |      |
| Ø   | ORIGINAL RELEASE FOR PRODUCTION                       | 2-27-67  |            | L.A.K. |      |      |
| A   | "N" TERM & CONN. ADDED. QTY. OF 10-32 STUDS 23 WAS 22 | 11/25/68 | 19102      | K.H.   |      |      |

SPECIFICATIONS:

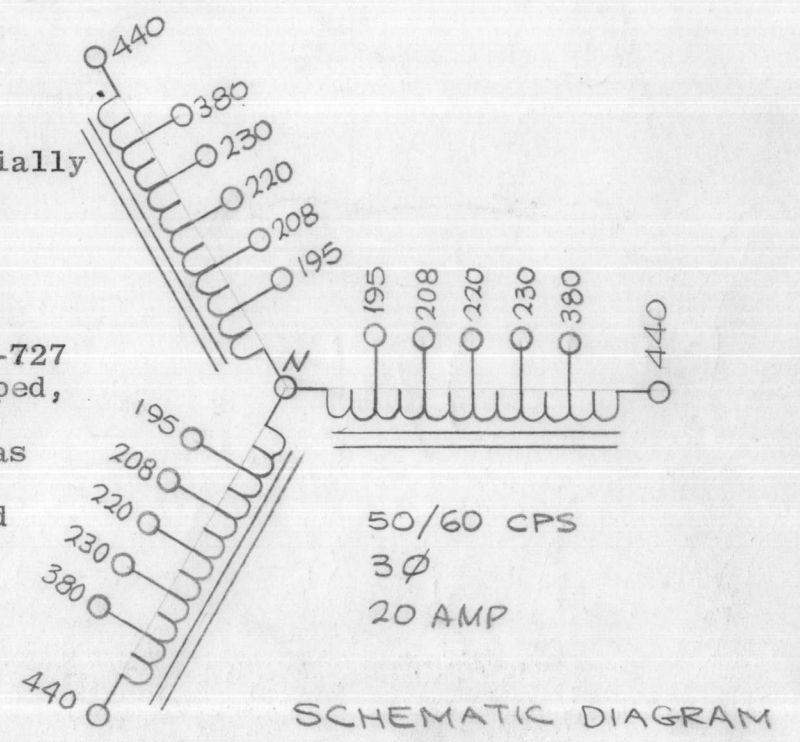
**ELECTRICAL**  
 Voltage - 195, 208, 230, 440, .220, 380 V.  
 Frequency - 50/60 CPS  
 Phase - 3Ø  
 Insulation Test Voltage - 1250 VRMS

**MECHANICAL**

Case - Open Frame  
 Finish - S115 Smooth Gray Enam. except Terminals  
 Dimensions - shown pictorially  
 Terminals - 10-32 Threads  
 Tole. Range ± 1/32 unless otherwise specified.

**STAMPING**

According with TMC SPEC S-727  
 Terminals - shall be stamped, white  
 Schematic - to be placed as shown  
 Black Gothic Lettering and line work.



NOTE: Manufactured in accordance w/MIL-SPEC T-27-A, except that MIL SPEC T-27-A shall not appear on case and qualification testing not req.

NOTES

| Q'TY./UNIT                  | MODEL USED ON | ASS'Y. NO.         |
|-----------------------------|---------------|--------------------|
| 1                           | RAK III-2     | BMA 15B            |
| 1                           | RAK II-2      | BMA 15B            |
| SCALE (1:3)<br>DO NOT SCALE | CODE<br>C     | S401-30 (BTC 744S) |

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| REQ'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|--------|------|-------------|-------------|--------|
|--------|------|-------------|-------------|--------|

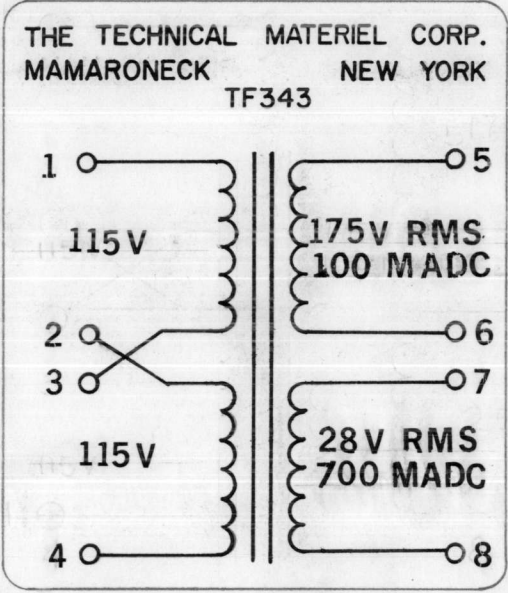
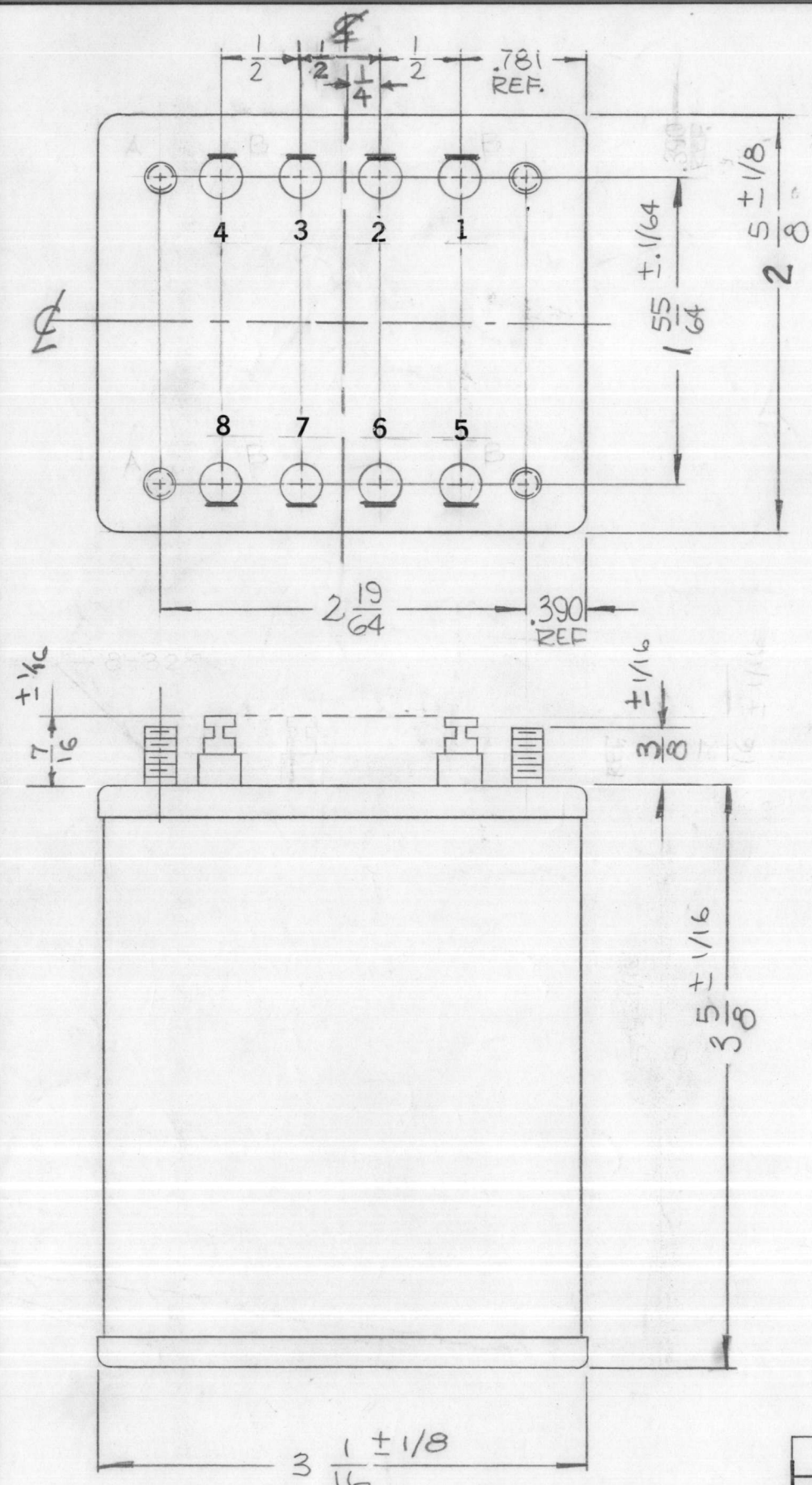
F. BUDETTI LIST OF MATERIAL

MATERIAL SEE SPECS. THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK

FINISH SEE SPECS. TITLE TRANSFORMER, AUTO.

| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |   | DRAWN       | DATE   | FINAL APPROVAL | DATE      |
|---|---|-------------|--------|----------------|-----------|
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  | FRACTIONS<br>± 1/64<br>ANGLES<br>± 0° 30' |             | 6-8-66 |                |           |
| TOLERANCES  |   | CHECKED     | DATE   |                |           |
|   |   | ELECT. DES. | DATE   | TF342          | A         |
|   |   | MECH. DES.  | DATE   |                |           |
|   |   |             |        | SHEET          | REV. LTR. |

# STANDARD DRAWING



TF343

| REVISIONS |                                 |         |            |       |      |      |
|-----------|---------------------------------|---------|------------|-------|------|------|
| SYM       | DESCRIPTION                     | DATE    | E.M.N. NO. | DRAFT | CHKD | APPD |
| X         | EXPERIMENTAL RELEASE            | 6.2.66  | —          | WFW   | JH   | CD   |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION | 6-28-66 | Ø          | GDL   | JH   | CD   |

## SPECIFICATIONS

**ELECTRICAL:**  
**PRIMARY:**  
 VOLTAGE: 115/230AC  
 FREQUENCY: 50 TO 400HZ  
 PHASE: SINGLE  
**SECONDARY:**  
 VOLTAGE: 5-6: 175V RMS  
 CURRENT: 100MADC  
 VOLTAGE: 7-8: 28V RMS  
 CURRENT: 700MADC

**MECHANICAL:**  
 CASE: CR STEEL, HERMITICALLY SEALED  
 FINISH: S115 TMC GRAY (EXCEPT STUD END)  
 DIMENSIONS: SHOWN PICTORIALY  
 TERMINALS: SOLDER LUG TYPE, CERAMIC STANDOFF  
 MTG. STUDS: 8-32 x 3/8 LONG

**STAMPING:**  
 TERMINALS SHALL BE METAL-STAMPED (AS SHOWN).  
 SCHEMATIC DIAGRAM TO BE PLACED ON END OPPOSITE TERMINAL END.  
 BLACK GOTHIC LETTERING AND LINE WORK AS PER TMC SPEC S727.

**NOTE**  
 TO BE MANUFACTURED IN ACCORDANCE WITH MIL-SPEC T-27-A, EXCEPT THAT MIL-SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED TO BE IN INCHES AND TO FOLLOW MIL-SPEC S727

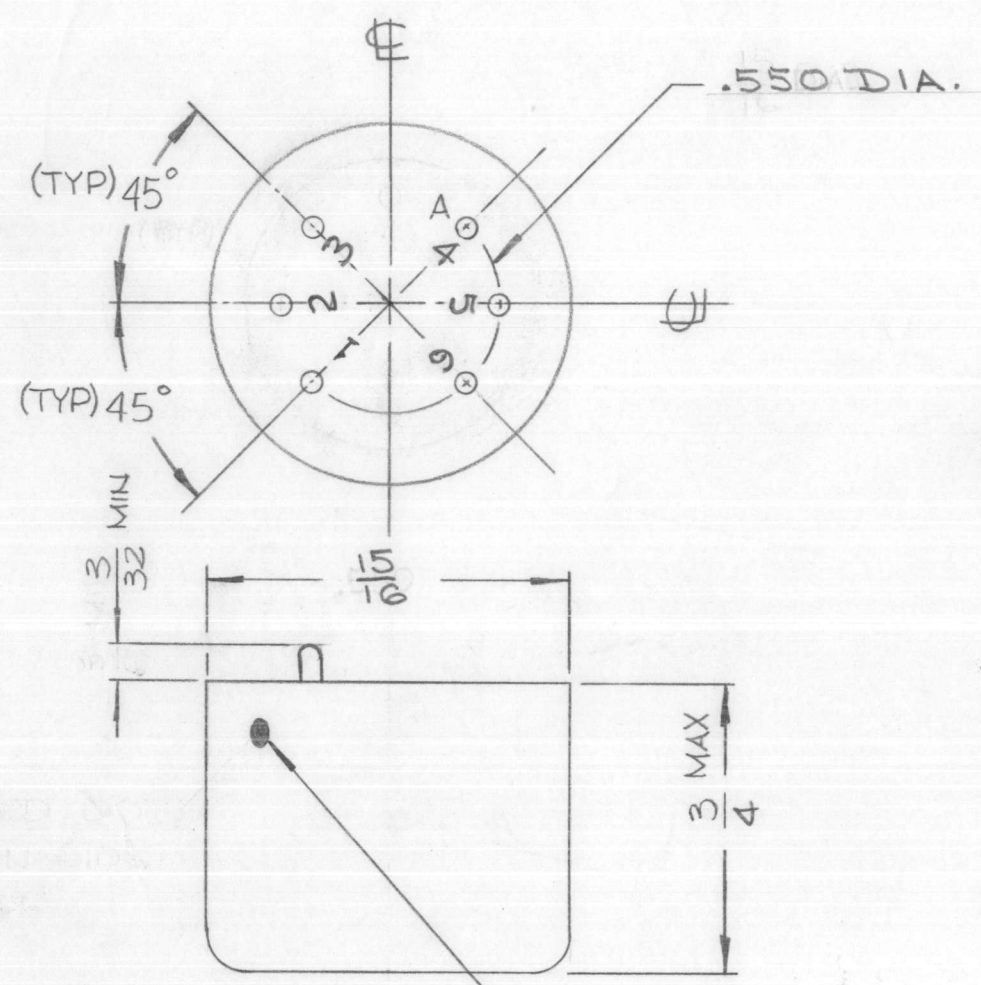
| REQ'D.  | ITEM | PART NUMBER  | DESCRIPTION     | SYMBOL                           |
|---|------|--|-----------------|----------------------------------|
| <b>LIST OF MATERIAL</b>   |      |  |                 |                                  |
| MATERIAL  |      | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK     |                 |                                  |
| FINISH  |      | TITLE<br>TRANSFORMER,<br>ISOLATION & STEP-DOWN & STEP-UP |                 |                                  |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |      | DRAWN<br>WFW   | DATE<br>6.2.66  | FINAL APPROVAL<br>Jesse M. McKay |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  |      | CHECKED<br>JH  | DATE<br>6-13-66 | DATE<br>6/28/66                  |
| FRACTIONS<br>± 1/64<br>ANGLES<br>± 0° 30'   |      | ELECT. DES.<br>C. S. Duggan                              | DATE            |                                  |
| TOLERANCES  |      | MECH. DES.<br>JC   | DATE            |                                  |
| SHEET   |      |  |                 | REV. LTR.                        |

|   |               |                  |
|---|---------------|------------------|
| 1   | CFA-2         | ASS'Y. NO.       |
| Q'TY./UNIT  | MODEL USED ON |                  |
| SCALE<br>1/1  | CODE          | S401-30(BTC7315) |
| THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN. |               |                  |

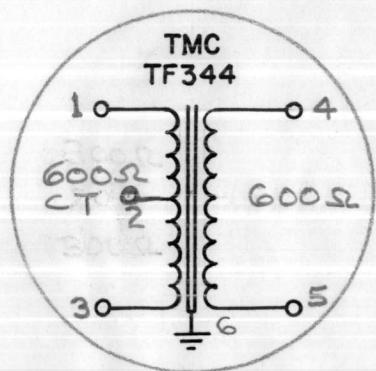
## NOTES

STANDARD DRAWING

TF344



RED DOT ON SIDE OF CASE ADJACENT TO PIN #1



| REVISIONS |                                 |         |            |       |      |      |
|-----------|---------------------------------|---------|------------|-------|------|------|
| SYM       | DESCRIPTION                     | DATE    | E.M.N. NO. | DRAFT | CHKD | APPD |
| X         | EXPERIMENTAL RELEASE            | 6.2.66  | +          | WTO   | H    | AD   |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION | 6/27/66 | Ø          | CV    |      | JW   |

SPECIFICATIONS

**ELECTRICAL:**  
 IMPEDANCE: PRIMARY: 600Ω CT  
 SECONDARY: 600Ω  
 POWER RATING: 1 WATT MAX.  
 FREQUENCY RESPONSE: 575 TO 3500HZ ±3db  
 TERMINALS: PINS (.040 DIA.) GLASS HEADER  
 CASE: CR STEEL, HOT TIN DIP, HERMITICALLY SEALED  
 FINISH: S115 TMC GRAY (EXCEPT STUD END)

**STAMPING:**  
 TERMINALS SHALL BE MARKED AS SHOWN.  
 SCHEMATIC OR CIRCUIT IDENTIFICATION AND TMC PART NUMBER (LOCATION OPTIONAL), IS TO BE MARKED ON UNIT.  
 BLACK GOTHIC LETTERING & LINE WORK AS PER TMC S727.

**NOTE**  
 TO BE MANUFACTURED IN ACCORDANCE WITH MIL-SPEC T-27-A, EXCEPT THAT MIL-SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

| REQ'D.  | ITEM | PART NUMBER  | DESCRIPTION     | SYMBOL                             |
|---|------|--|-----------------|------------------------------------|
| <b>LIST OF MATERIAL</b>   |      |  |                 |                                    |
| MATERIAL  |      | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |                 |                                    |
| FINISH  |      | TITLE<br>TRANSFORMER, AUDIO                          |                 |                                    |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES   |      | DRAWN<br>WTO   | DATE<br>6.2.66  | FINAL APPROVAL<br>J. Kelly 6/29/66 |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  |      | CHECKED<br>H   | DATE<br>6-13-66 | DATE<br>6-29-66                    |
| FRACTIONS<br>± 1/64<br>ANGLES<br>± 0° 30'   |      | ELECT. DES.<br>A. D. Dabollas                        | DATE<br>6-29-66 | DATE<br>6-29-66                    |
| TOLERANCES  |      | MECH. DES.<br>K                                      | DATE<br>6-29-66 | DATE<br>6/30/66                    |
| THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN. |      | SHEET  |                 |                                    |
|   |      | REV. LTR.  |                 |                                    |

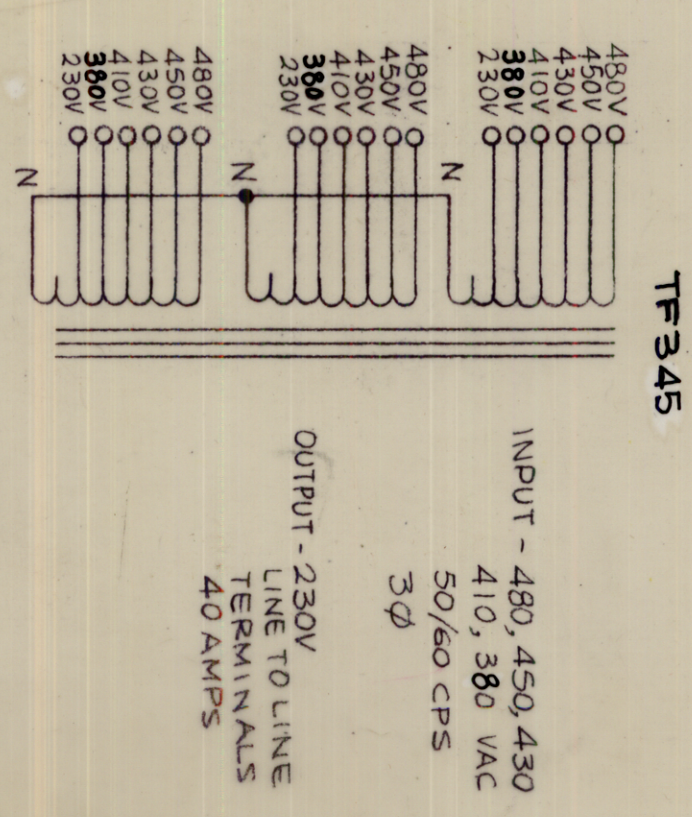
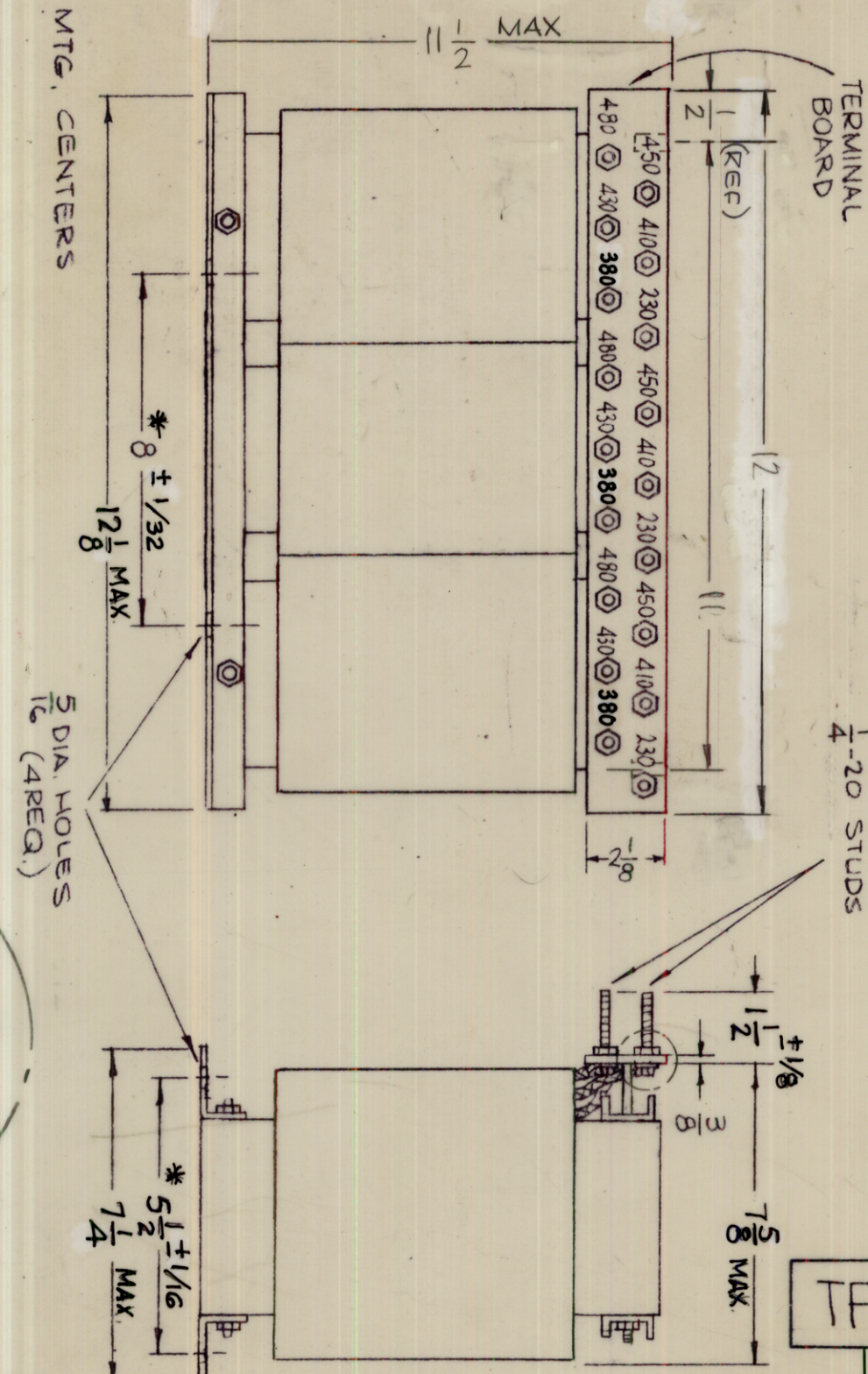
|              |               |                  |
|--------------|---------------|------------------|
| 2            | CFA-2         |                  |
| Q'TY./UNIT   | MODEL USED ON | ASS'Y. NO.       |
| SCALE<br>2/1 | CODE          | S401-30(BTC7334) |

NOTES

TF345 A

| SYM | DESCRIPTION   | DATE     | E.M.N. NO. | DRAFT | CHKD | APPD |
|-----|---|----------|------------|-------|------|------|
| X   | EXPERIMENTAL RELEASE  | 5/26/66  | M-1        | Jc    |      |      |
| XI  | SPECS REVISED & OVERALL DIMENSIONS REVISED                      | 6-27-66  |            |       |      |      |
| Ø   | ORIGINAL RELEASE FOR PROD                                       | 9/14/66  |            |       |      |      |
| A   | DIMENSIONS WAS 15-1/8, 11 & (2) 1/2 DIM ADDED<br>SECT-A-A ADDED | 12/30/66 | 7588       | WHD   |      |      |

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK

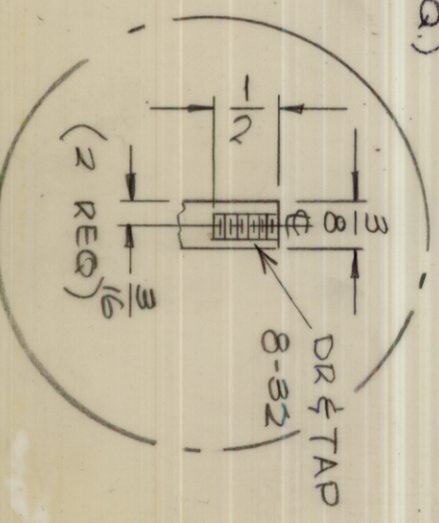


SCHEMATIC - TO BE STAMPED ON XFMR.

**SPECIFICATIONS:**

- WINDING DATA:**
1. INPUT: 480, 450, 410, 380VAC, 50/60 CPS, 3PH
  2. OUTPUT VOLTAGE 230VAC
  3. OUTPUT CURRENT RATING 40 AMPS RMS
  4. BREAKDOWN TEST VOLTAGE 2000V AC.
  5. CASE-OPEN FRAME.
  6. FINISH-S115 SMOOTH GREY ENAMEL EXCEPT TERMINAL BOARD & TERMINALS.
  7. TERMINAL BOARD 3/8" THICK.

**NOTE:** MFG. IN ACCORDANCE WITH MIL-T-27A EXCEPT MIL-7-27A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.



|           |               |                |
|-----------|---------------|----------------|
| QTY./UNIT | MODEL USED ON | ASSY. NO.      |
| 1         | GPT-40K       |                |
| SCALE     | CODE          |                |
| NONE      | C             | S401-30 (7467) |

| REQ'D. | ITEM       | PART NUMBER | DESCRIPTION  | SYMBOL |
|--------|------------|-------------|--|--------|
|        | F. BUDETTI |             |  |        |
|        |            |             | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |        |
|        |            |             | TRANSFORMER, POWER, FIXED                            |        |

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS: .x ± .05, .xx ± .01, .xxx ± .005

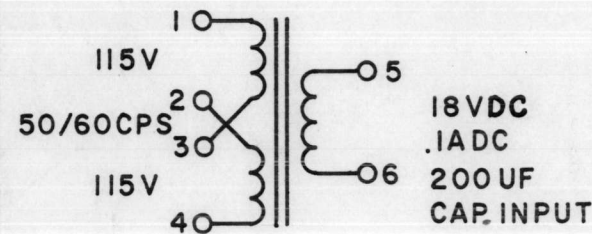
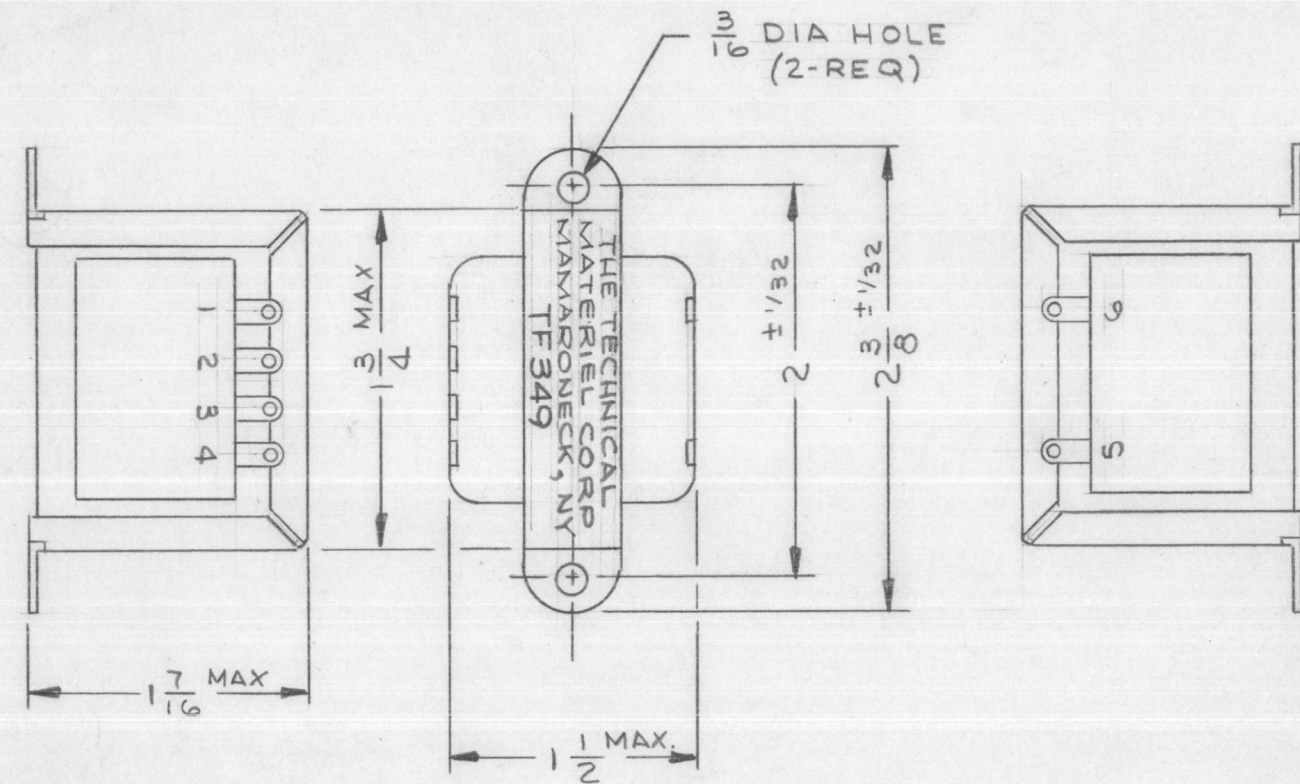
FRACTIONS: ± 1/32, ± 0° 30'

TOLERANCES

|             |      |                |      |
|-------------|------|----------------|------|
| DRAWN       | DATE | FINAL APPROVAL | DATE |
| CHECKED     | DATE |                |      |
| ELECT. DES. | DATE |                |      |
| MECH. DES.  | DATE |                |      |

TF345 A

# STANDARD DRAWING



SCHEMATIC

TF 349 A

| REVISIONS |  |          |            |       |                    |      |
|-----------|--|----------|------------|-------|--------------------|------|
| SYM       | DESCRIPTION                                    | DATE     | E.M.N. NO. | DRAFT | CHKD               | APPD |
| X         | EXP. RELEASE                                   | 10/17/66 |            | JL    | <i>JL</i>          |      |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION                | 12/2/66  | Ø          | CV    |                    |      |
| A         | MFG NOTE DEL ; FINISH & MARKING SPECS REVISED. | 7.25.67  | 18398      | WFO   | <i>[Signature]</i> | EFM  |

### SPECIFICATIONS

**TRANSFORMER POWER:**

**PRIMARY WINDING:**  
 VOLTAGE: 115/230 V AC  
 FREQUENCY: 50/60 CPS  
 PHASE: 1

**SECONDARY WINDING:**  
 FULL LOAD:  
 VOLTAGE RMS: TERM 5&6 15.7 VOLTS RMS, 18 VDC  
 CURRENT: .1A DC  
 NO LOAD:  
 VOLTAGE RMS: 18.4 V  
 CURRENT (RMS): 0.1 ADC

**DC SPECS IF ANY: (INCLUDE TYPE OF POWER SUPPLY):** DC RATINGS SPECIFIED FOR BRIDGE RECTIFIER WITH 200 uF CAP. INPUT

**BREAKDOWN VOLTAGE:**

**CASE DATA:**  
 HERMETICALLY SEALED: NO  
 CASE TYPE: OPEN FRAME  
 CASE DIMENSIONS: SHOWN PICTORIALY

**MOUNTING DATA:** SHOWN PICTORIALY

**TERMINAL DATA:**  
 NO OF TERM: 6  
 TYPE: SOLDER LUG

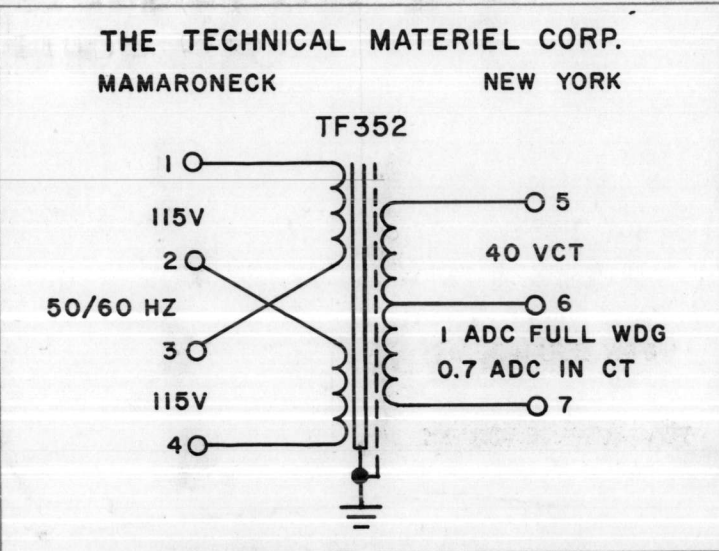
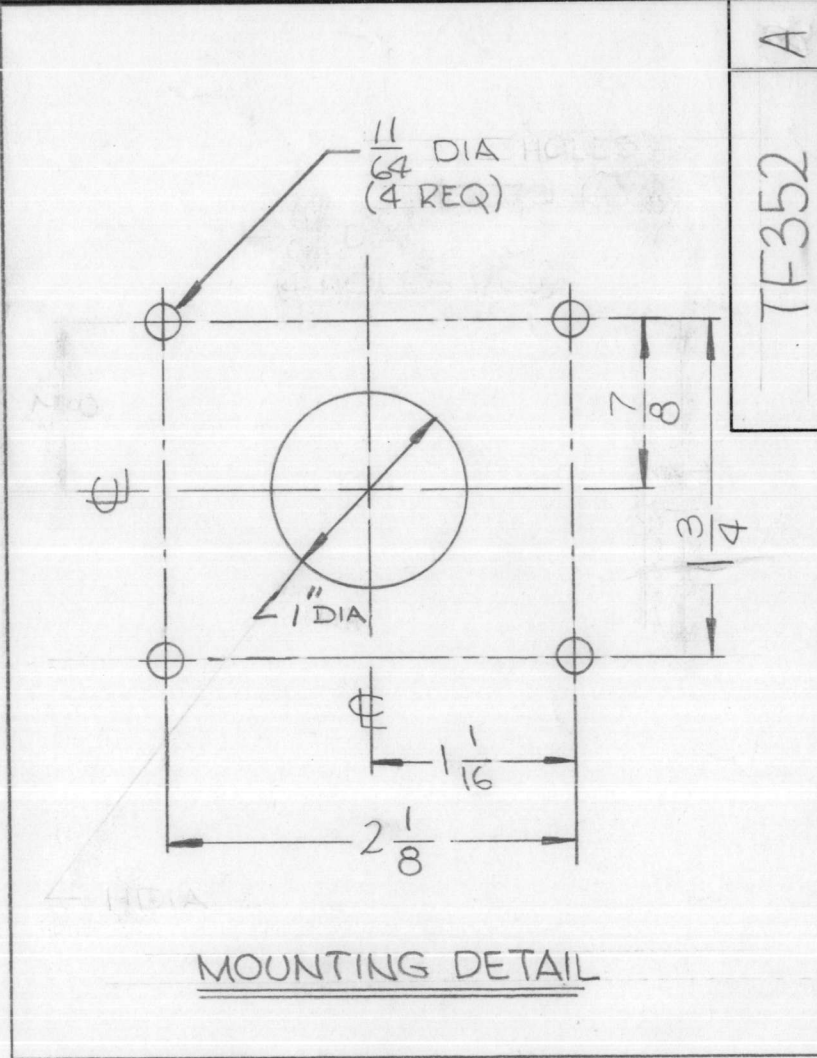
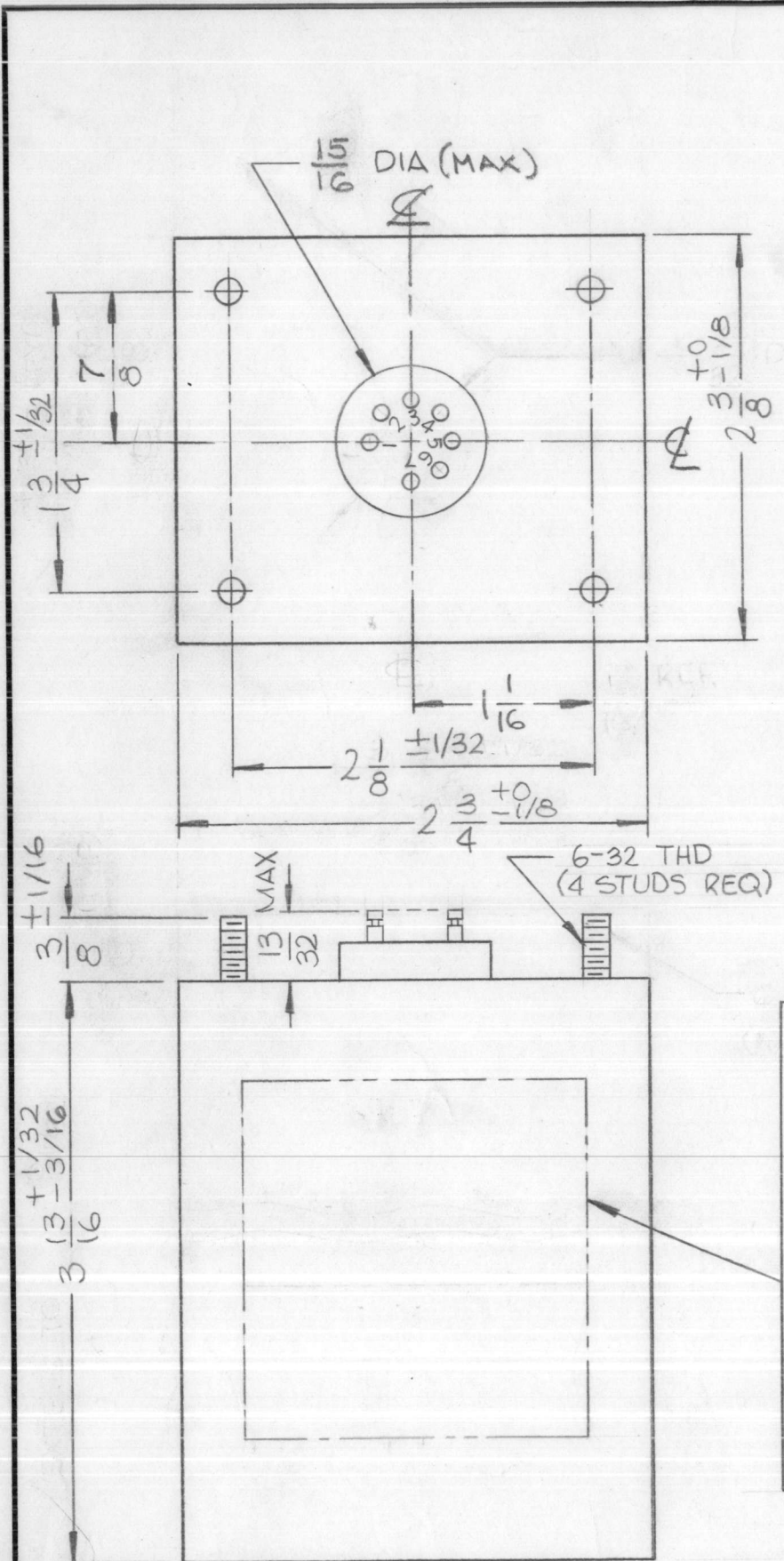
**FINISH:**  
 CADIMUM FINISH, CLEAR VARNISH

**MARKING:**  
 TERMINAL NUMBERS AND TMC IDENTIFICATION TO BE MARKED, LOCATION OF TMC IDENTIFICATION AS SHOWN IN AS SHOWN. MARKING TO BE PER TMC SPECS S566 AND S727

| REQ'D.  | ITEM | PART NUMBER | DESCRIPTION   | SYMBOL  |
|---|------|-------------|---|---|
| <b>LIST OF MATERIAL</b>   |      |             |   |   |
| MATERIAL  |      |             | <b>THE TECHNICAL MATERIEL CORP.<br/>MAMARONECK, NEW YORK</b>  |   |
| FINISH  |      |             | TITLE<br><b>TRANSFORMER, POWER-STEP-DOWN</b>  |   |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |      |             | DRAWN <i>J.L.</i> DATE 10-17-66<br>CHECKED <i>JL</i> DATE 11/29/66<br>ELECT. DES. <i>[Signature]</i> DATE 12/1/66<br>MECH. DES.      DATE | FINAL APPROVAL <i>[Signature]</i> DATE 12/1/66<br><div style="font-size: 2em; font-weight: bold; text-align: center;">TF 349</div> SHEET      REV. LTR. A |

### NOTES

|   |               |               |
|---|---------------|---------------|
| Q'TY./UNIT  | MODEL USED ON | ASS'Y. NO.    |
| SCALE   | CODE          | 5401-30(7452) |
| THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN. |               |               |



|   |               |               |
|---|---------------|---------------|
| 1   | VOX-7         | AX651         |
| Q'TY./UNIT  | MODEL USED ON | ASS'Y. NO.    |
| SCALE   | CODE          |               |
| DO NOT SCALE  |               | S401-30(7532) |
| THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN. |               |               |

NOTES

TF352 A

| REVISIONS |                                    |         |            |        |      |      |
|-----------|------------------------------------|---------|------------|--------|------|------|
| SYM       | DESCRIPTION                        | DATE    | E.M.N. NO. | DRAFT  | CHKD | APPD |
| Ø         | ORIGINAL RELEASE FOR PRODUCTION    | 1-30-67 |            | L.A.K. |      |      |
| A         | SECONDARY WINDING: CURRENT WAS .07 | 7-5-67  | 18369      | L.A.K. |      | O.P. |

SPECIFICATIONS

PRIMARY WINDING:  
 VOLTAGE: 115/230 VAC  
 FREQUENCY: 50/60 Hz  
 PHASE: 1

NOTE: ELECTRIC STATIC SHIELD BETWEEN PRIMARY & SECONDARY

SECONDARY WINDING:  
 FULL LOAD:  
 VOLTAGE: TERM 5-7 40 VCT  
 CURRENT: 1 ADC FULL WINDING  
 0.7 ADC CT WINDING

NO LOAD:  
 VOLTAGE: TERM 5-7 43.3 VCT

OPERATING TEMPERATURE: 0 TO +50°C

CASE DATA:  
 HERMETICALLY SEALED: YES  
 CASE TYPE: STEEL CASE MIL-T-27A (GA)

TERMINAL DATA:  
 NO OF TERM: 7  
 TYPE: OPTIONAL

FINISH: SMOOTH GRAY ENAMEL (TMC SPEC S115) EXCEPT TERM END

MARKING: ALL TERMINALS TO BE IDENTIFIED  
 SCHEMATIC AND TMC IDENTIFICATION TO BE MARKED ON SIDE AS SHOWN  
 MARKING TO BE PER TMC SPEC S7276 AND S727

NOTE: TO BE MANUFACTURED IN ACCORDANCE WITH MIL-T-27, EXCEPT THAT MIL-T-27 SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED

| REQ'D.  | ITEM | PART NUMBER  | DESCRIPTION   | SYMBOL         |
|---|------|--|---------------|----------------|
| LIST OF MATERIAL  |      |  |               |                |
| MATERIAL  |      | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |               |                |
| FINISH  |      | TITLE<br>XFMR, POWER, STEP-DOWN                      |               |                |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |      | DRAWN WHO  | DATE 10.26.66 | FINAL APPROVAL |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  |      | CHECKED HJC  | DATE 11/29/66 | DATE 1/30/67   |
| FRACTIONS<br>± 1/64<br>ANGLES<br>± 0° 30'   |      | ELECT. DES. JPD                                      | DATE 12/6/66  | TF352          |
| TOLERANCES  |      | MECH. DES.   | DATE          | A              |
|   |      |  |               | SHEET          |
|   |      |  |               | REV. LTR.      |

REVISIONS

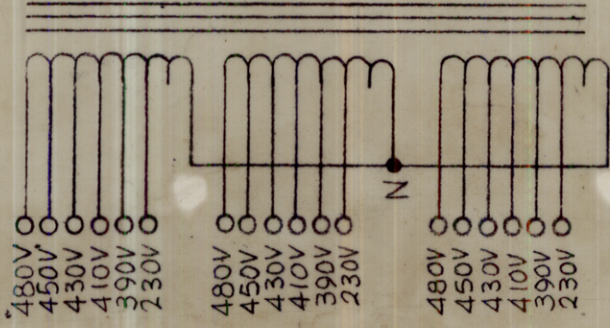
| SYM | DESCRIPTION   | DATE     | E.M.N. NO. | DRAFT  | CHKD | APPD |
|-----|---|----------|------------|--------|------|------|
| X   | EXPERIMENTAL RELEASE  | 10/14/66 | M-         | Jc     |      |      |
| X1  | 12" DIM WAS 15 5/8 MAX                                      | 12/19/66 | -M-        | Jc     |      |      |
| X2  | 15 1/8 DIM WAS 12   | 11/11/67 |            | Jc     |      |      |
| X3  | ADDED CHANNELS. 14 1/8 WAS 12 1/8 & 18 DIMENSION RELOCATED. | 2-17-67  |            | L.A.K. |      |      |
| Ø   | ORIGINAL RELEASE FOR PRODUCTION                             | 2-27-67  |            | L.A.K. |      |      |

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK  
NEW YORK

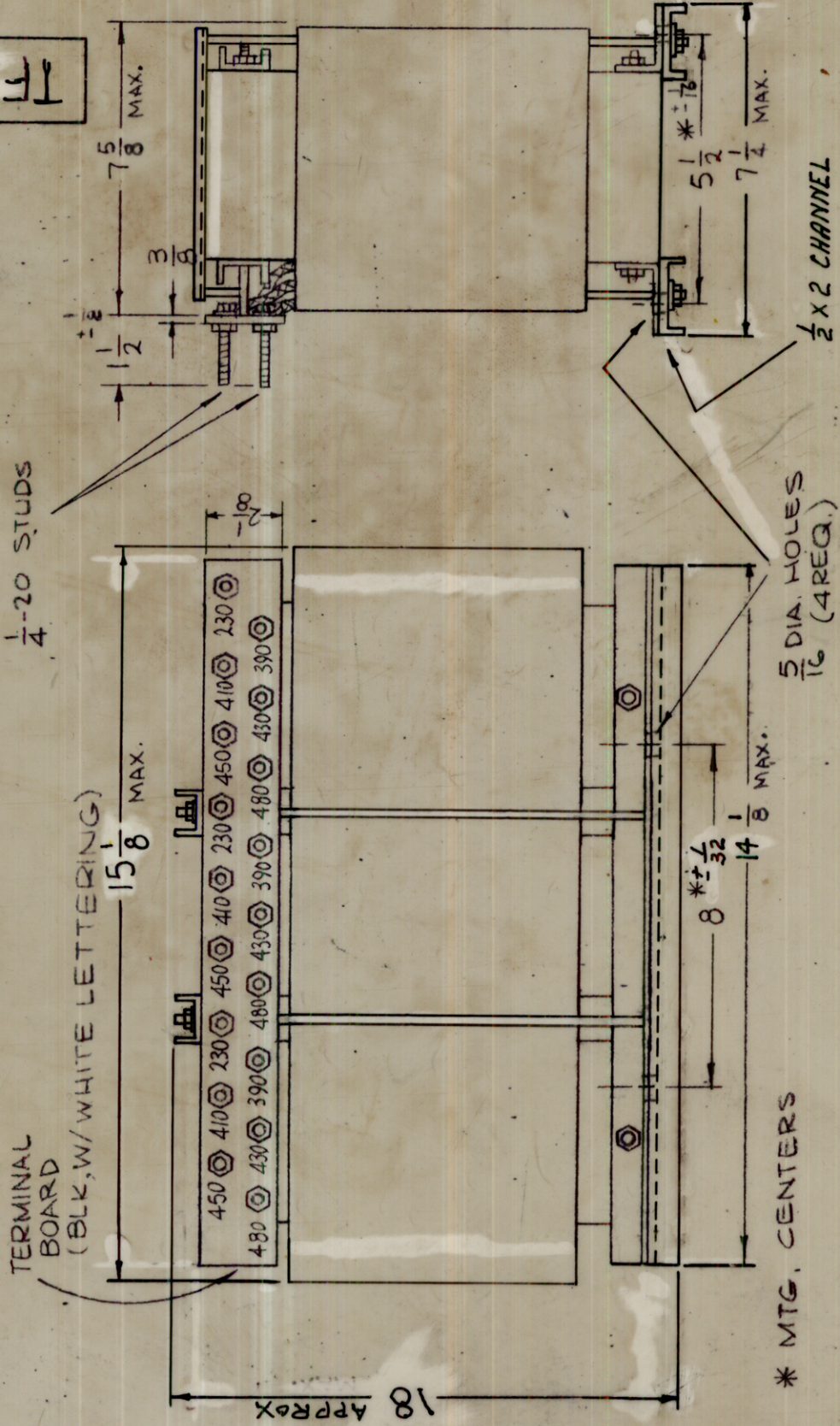
TF 353

INPUT - 480, 450, 430  
410, 390 VAC  
50/60 CPS  
3Ø

OUTPUT - 230V  
LINE TO LINE  
TERMINALS  
70 AMPS



SCHEMATIC - TO BE STAMPED ON XFMR,  
IN WHITE.



SPECIFICATIONS:

- WINDING DATA:
- INPUT: 480, 450, 430, 410, 390VAC, 50/60 CPS, 3PH
  - OUTPUT VOLTAGE: 230 V AC
  - OUTPUT CURRENT RATING: 70 AMP RMS
  - BREAKDOWN TEST VOLTAGE 2000V AC.
  - CASE-OPEN FRAME.
  - FINISH-S115 SMOOTH GREY ENAMEL EXCEPT TERMINAL BOARD & TERMINALS.
  - TERMINAL BOARD 3/8" THICK.

NOTE: MFG-IN ACCORDANCE WITH/MIL-T-27A EXCEPT MIL-7-27A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

NOTES

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

| REQ'D.     | ITEM | PART NUMBER   | DESCRIPTION  | SYMBOL                     |
|------------|------|---|--|----------------------------|
| F. BUDETTI |      |   | LIST OF MATERIAL                                     |                            |
|            |      | SEE SPECS   | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |                            |
|            |      | SEE SPECS   | AUTO TRANSFORMER                                     |                            |
|            |      | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |  |                            |
|            |      | TOLERANCES  |  |                            |
|            |      | FRACTIONS ± 1/64 ANGLES ± 0° 30'  |  |                            |
|            |      | DECIMALS .X ± .08 .XX ± .01 .XXX ± .005   |  |                            |
|            |      | SCALE NONE  | MODEL USED ON CODE C                                 | ASSY. NO. S401-30 (7689-1) |
|            |      | QTY./UNIT 1   | GPTIOKLF   |                            |
|            |      |   | DRAWN SRC  | DATE                       |
|            |      |   | CHECKED JCB  | DATE                       |
|            |      |   | ELECT. DES. RET                                      | DATE                       |
|            |      |   | MECH. DES.   | DATE                       |
|            |      |   | FINAL APPROVAL [Signature]                           | DATE 2/21/67               |
|            |      |   | TF 353   | REV. LTR. Ø                |
|            |      |   | SHEET  |                            |

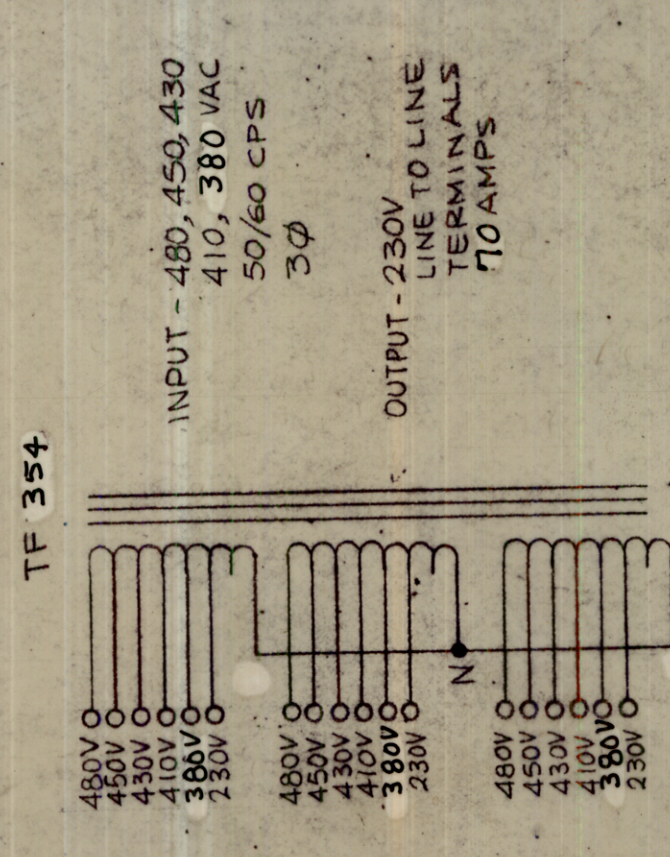


REVISIONS

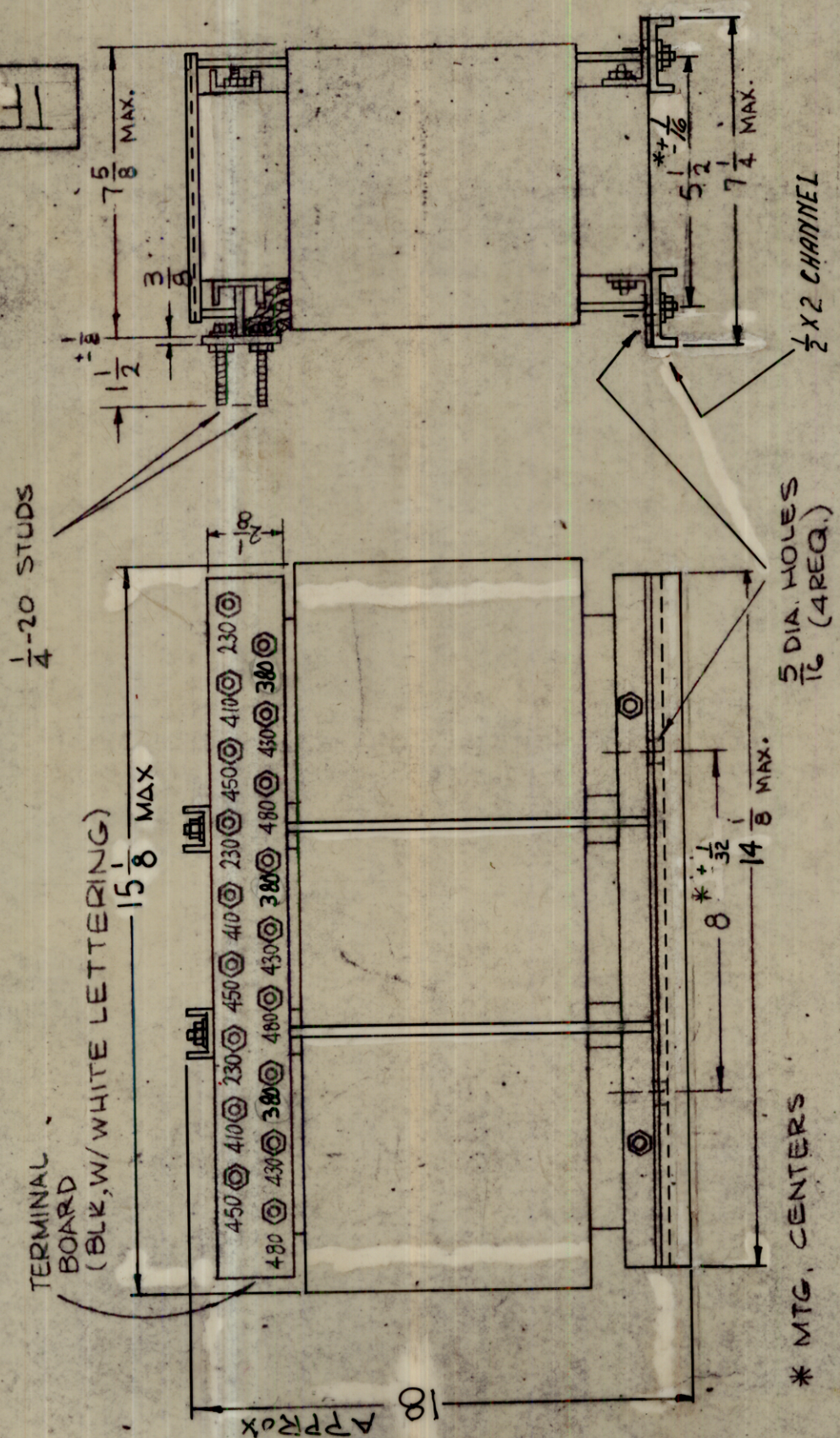
| SYM | DESCRIPTION   | DATE     | E.M.N. NO. | DRAFT  | CHKD | APPD |
|-----|---|----------|------------|--------|------|------|
| X   | EXPERIMENTAL RELEASE  | 10/4/66  | M          | Jc     |      |      |
| X1  | 1/2" DIM. WAS 15 1/8 MAX.                                   | 10/19/66 | M          | Jc     |      |      |
| X2  | 15 1/8 DIM WAS 12   | 11/12/67 |            | Jc     |      |      |
| X3  | ADDED CHANNELS, 14 1/8 WAS 12 1/8 & 18 DIMENSION RELOCATED. | 2-17-67  |            | L.A.K. |      |      |
|     | ORIGINAL RELEASE FOR PRODUCTION                             | 2-27-67  |            | L.A.K. |      |      |

TF 354

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK  
NEW YORK



SCHEMATIC - TO BE STAMPED ON XFMR,  
IN WHITE.



\* MTG. CENTERS

- SPECIFICATIONS:
- WINDING DATA:
- INPUT: 480, 450, 430, 410, 380 VAC, 50/60 CPS, 3PH
  - OUTPUT VOLTAGE: 230 V AC
  - OUTPUT CURRENT RATING: 70 AMP RMS
  - BREAKDOWN TEST VOLTAGE 2000V AC.
  - CASE-OPEN FRAME.
  - FINISH-S115 SMOOTH GREY ENAMEL EXCEPT TERMINAL BOARD & TERMINALS.
  - TERMINAL BOARD. 3/8" THICK.

NOTE: MFG-IN ACCORDANCE WITH/MIL-T-27A EXCEPT MIL-7-27A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

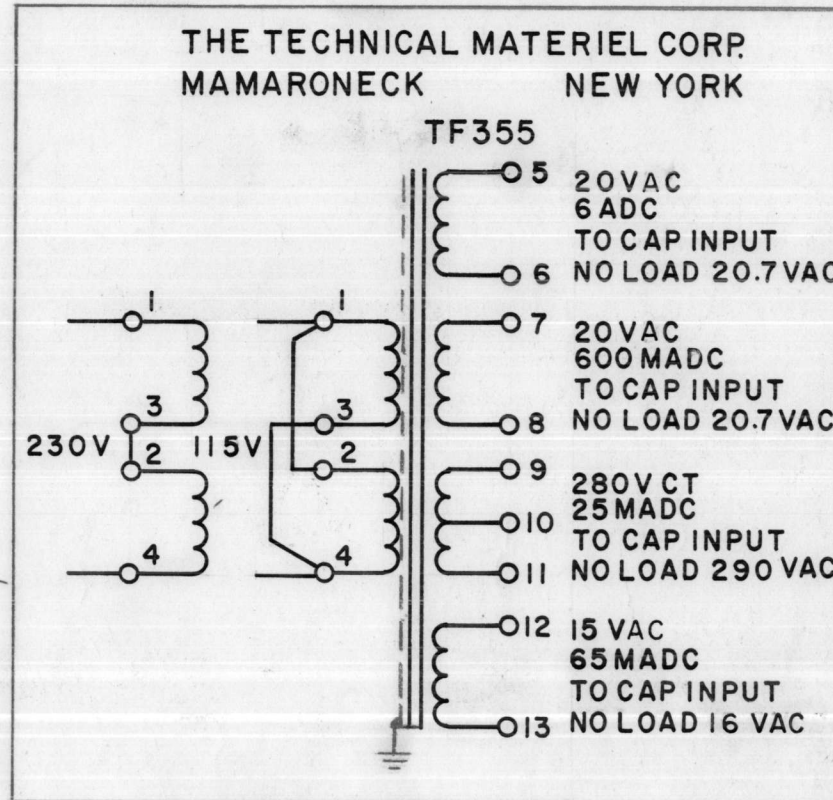
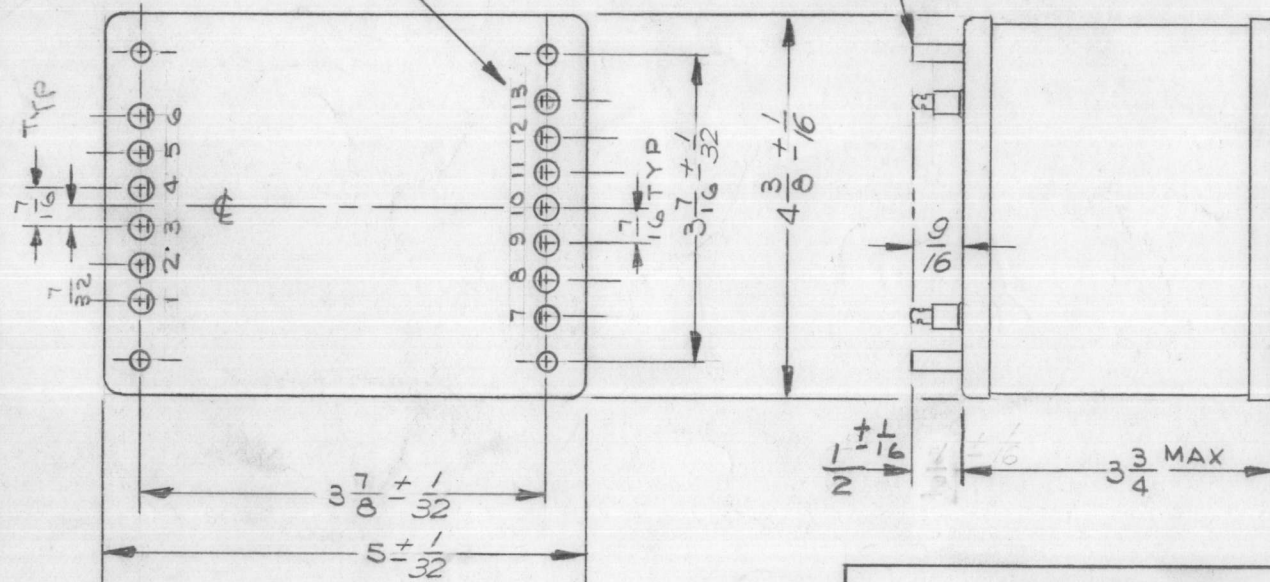
NOTES

| REQ'D.   | ITEM       | PART NUMBER | DESCRIPTION      | SYMBOL    |
|--|------------|-------------|------------------|-----------|
|  | F. BUDETTI |             | LIST OF MATERIAL |           |
|  |            | SEE SPECS   |                  |           |
|  |            | SEE SPECS   |                  |           |
| THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |            |             |                  |           |
| AUTO TRANSFORMER                                     |            |             |                  |           |
| DRAWN SRC  |            | DATE        | FINAL APPROVAL   | DATE      |
| CHECKED  |            | DATE        |                  |           |
| ELECT. DES. JLT                                      |            | DATE        |                  |           |
| MECH. DES.   |            | DATE        |                  |           |
|  |            |             | TF 354           |           |
|  |            |             |                  | REV. LTR. |

|   |               |                 |
|---|---------------|-----------------|
| QTY/UNIT  | MODEL USED ON | ASBY. NO.       |
| SCALE NONE  | C             | S401-30(7689-2) |
| THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN. |               |                 |

METAL STAMP 1/8 HIGH  
GOTHIC

#10-32 MTG STUD  
(4-REQ.)

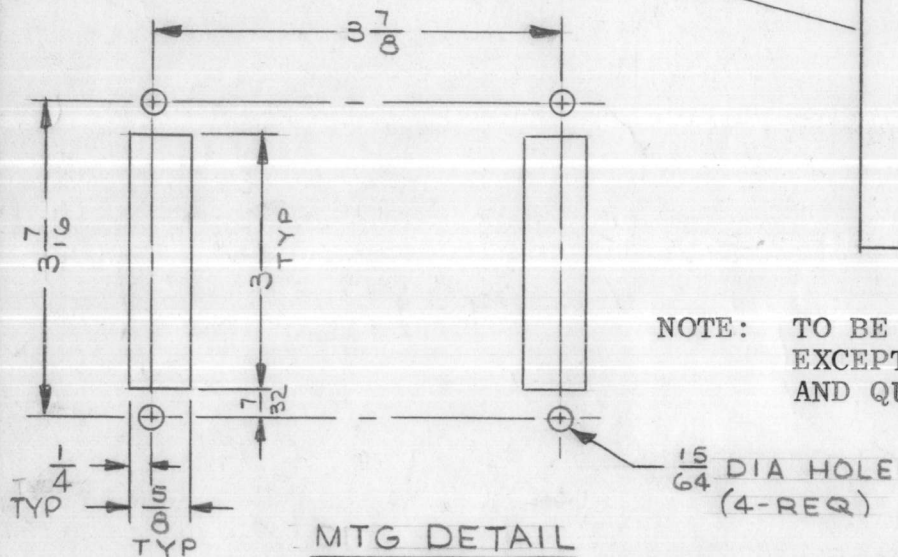


THE TECHNICAL MATERIEL CORP.  
MAMARONECK NEW YORK

TF355

**SCHEMATIC STAMP**

NOTE: TO BE MANUFACTURED IN ACCORDANCE WITH MIL-T-27,  
EXCEPT THAT MIL-T-27 SHALL NOT APPEAR ON CASE  
AND QUALIFICATION TESTING IS NOT REQUIRED



**NOTES**

|   |               |               |
|---|---------------|---------------|
| RTIH  |               |               |
| Q'TY./UNIT  | MODEL USED ON | ASS'Y. NO.    |
| SCALE   | CODE          | S401-30(7551) |
| THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN. |               |               |

**REVISIONS**

| SYM            | DESCRIPTION                                | DATE     | E.M.N. NO. | DRAFT | CHKD | APPD |
|----------------|--|----------|------------|-------|------|------|
| X              | EXP. RELEASE                               | 1/17/66  |            | JL    |      |      |
| X <sub>1</sub> | NO LOAD VOL. WAS 15.5. S401 NO. WAS (7552) | 2.16.67  | X          | RME   | JCB  |      |
| X <sub>2</sub> | UPDATED                                    | 11/13/68 |            | K.H.  |      |      |
| Ø              | ORIGINAL RELEASE FOR PRODUCTION            | 11.27.68 |            | R.G.  |      |      |

TF355

**SPECIFICATIONS**

TRANSFORMER, POWER: STEP-DOWN AND STEP-UP

PRIMARY WINDING:  
VOLTAGE: 115/230 V  
FREQUENCY: 50/60 Hz  
PHASE: 1

SECONDARY WINDING:  
FULL LOAD:  
VOLTAGE: TERM(5-6), (7-8), 20 VAC, (9-11) 280 VCT, (12-13) 15 VAC  
CURRENT: TERM(5-6) 6 ADC, (7-8) 600 MADC, (9-10) 25 MADC, (12-13) 65 MADC  
NO LOAD:  
VOLTAGE: TERM(5-6) 20.7 VAC, (7-8) 20.7 VAC, (9-10-11) 290 VAC, (12-13) 16 VAC.

ELECTRO-STATIC SHIELDING TO BE PROVIDED

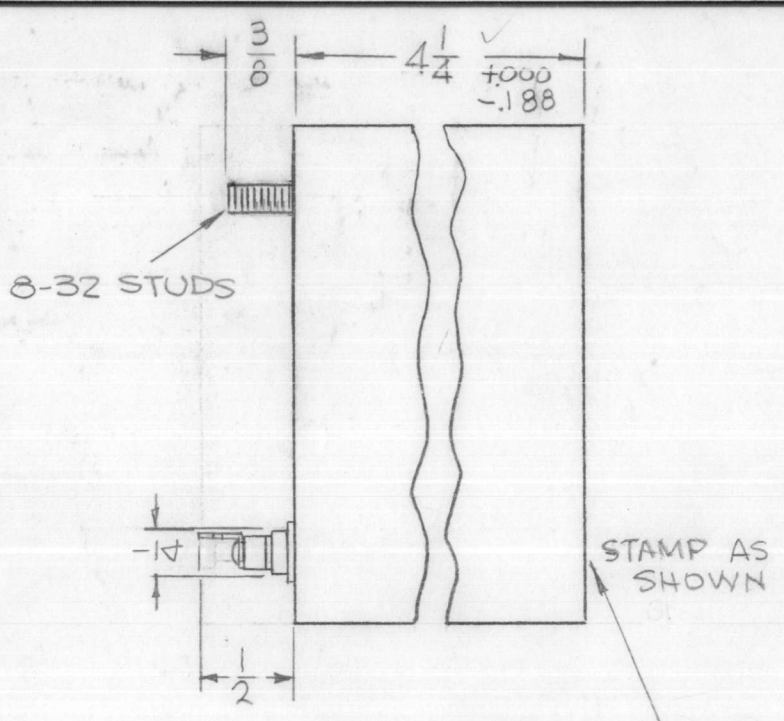
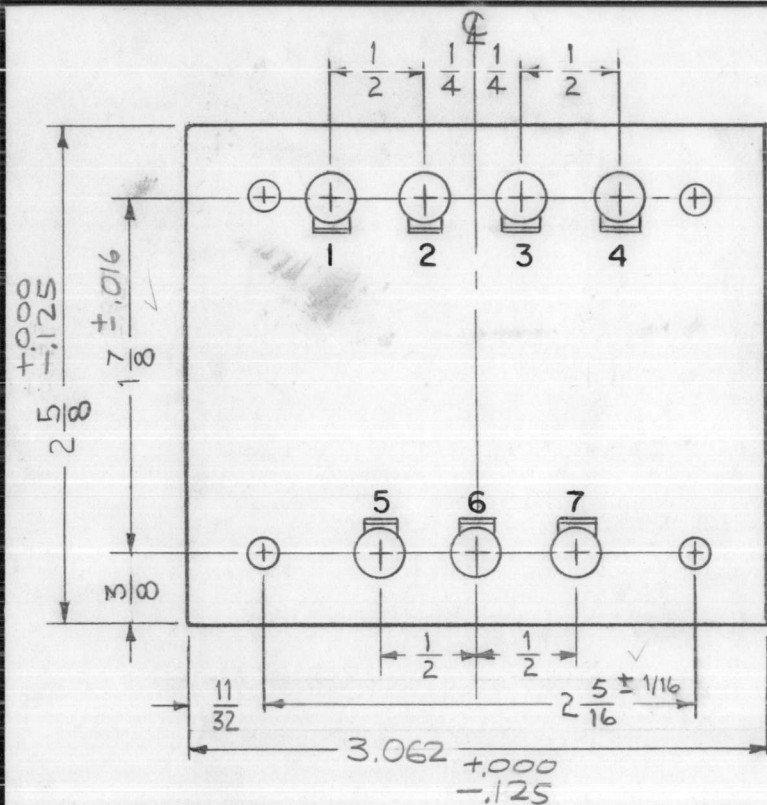
BREAKDOWN VOLTAGE: 1000 VRMS

CASE DATA:  
HERMETICALLY SEALED: NO  
CASE TYPE: STEEL CASE  
CASE DIMENSIONS: SHOWN PICTORIALY  
MOUNTING DATA: SHOWN PICTORIALY  
TERMINAL DATA:  
NO OF TERM: 13  
TYPE: SOLDER TYPE INSULATED  
FINISH: SMOOTH GRAY ENAMEL (TMC SPEC S115) EXCEPT TERM END  
MARKING: ALL TERMINALS TO BE METAL STAMPED (METAL CASES ONLY)  
MARKING TO BE PER TMC SPECS S566 AND S727

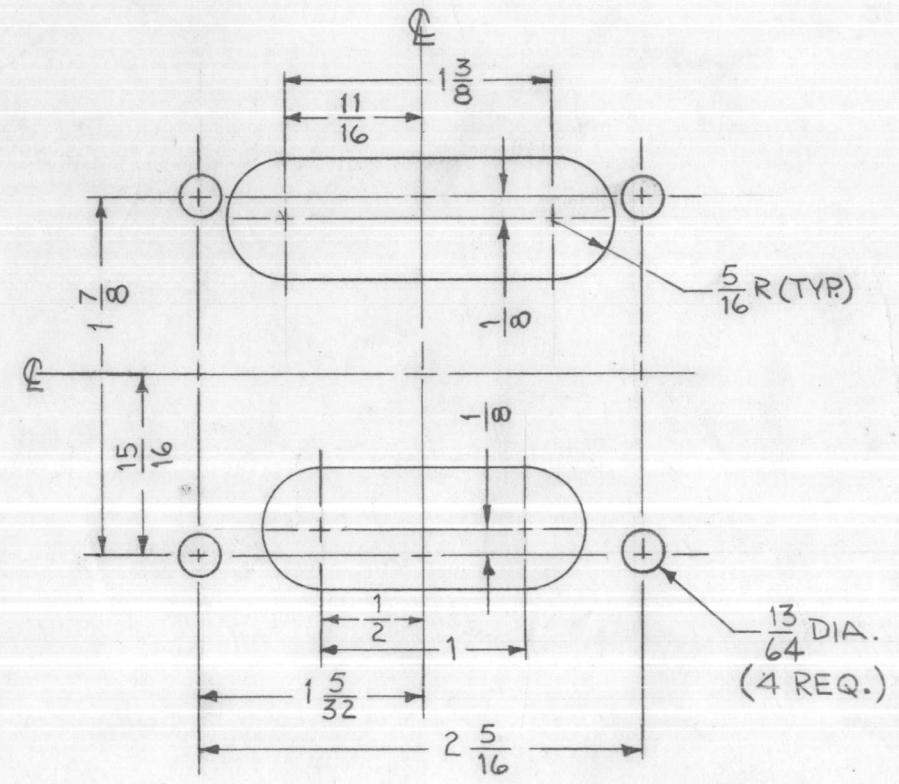
| REQ'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|--------|------|-------------|-------------|--------|
|--------|------|-------------|-------------|--------|

**EATON LIST OF MATERIAL**

|   |  |  |                  |                              |  |
|---|--|--|------------------|------------------------------|--|
| MATERIAL  |  | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |                  |                              |  |
| FINISH  |  | TITLE<br>TRANSFORMER, POWER<br>STEP-DOWN, STEP-UP    |                  |                              |  |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |  | DRAWN<br>J. LESHINSKI                                | DATE<br>10/17/66 | FINAL APPROVAL<br>J. DeMarco |  |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  |  | CHECKED<br>JCB                                       | DATE<br>2/16/67  | DATE<br>11/27/68             |  |
| FRACTIONS<br>± 1/64<br>ANGLES<br>± 0° 30'   |  | ELECT. DES.  | DATE             | SHEET                        |  |
| TOLERANCES  |  | MECH. DES.   | DATE<br>11-27-68 | REV. LTR.                    |  |



TF357



MOUNTING DETAIL

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK

TF357

REVISIONS

| SYM | DESCRIPTION                     | DATE     | EM N. NO. | DRAFT | CHKD | APPD |
|-----|---------------------------------|----------|-----------|-------|------|------|
| X   | EXP. RELEASE                    | 12-21-66 |           |       |      |      |
| Ø   | ORIGINAL RELEASE FOR PRODUCTION | 1/17/66  | Ø         | CV    |      |      |

SPECIFICATIONS

PRIMARY WINDING:  
 VOLTAGE: 115/230  
 FREQUENCY: 50/60 ~  
 PHASE: 1

SECONDARY WINDING:  
 FULL LOAD:  
 VOLTAGE: 5-7, 28 VDC CT  
 CURRENT DC: 2.25 AMPS  
 NO LOAD:  
 VOLTAGE RMS: 25 VAC  
 CURRENT: 2.25 AMPS  
 DC SPECS: BRIDGE RECTIFIER CAP INPUT

BREAKDOWN VOLTAGE: 1000 VDC  
 CASE DATA:  
 HERMETICALLY SEALED:  
 CASE TYPE: STEEL CASE HA  
 CASE DIMENSIONS: (SHOWN PICTORIALY)

TERMINAL DATA:  
 NO OF TERM: 7  
 TYPE: STANDOFF SOLDER TERM  
 TYPE OPTIONAL  
 FINISH: SMOOTH GRAY ENAMEL (TMC SPEC S115) EXCEPT TERM END  
 MARKING:  
 ALL TERMINALS TO BE METAL STAMPED (METAL CASES ONLY)  
 SCHEMATIC AND TMC IDENTIFICATION TO BE MARKED ON TOP/AS SHOWN  
 MARKING TO BE PER TMC SPECS S566 AND S727

| REQ'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|--------|------|-------------|-------------|--------|
|--------|------|-------------|-------------|--------|

| L. BUTLER LIST OF MATERIAL  |  |  |           |                |
|---|--|--|-----------|----------------|
| MATERIAL  |  | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |           |                |
| FINISH  |  | TITLE<br>XFMR, POWER STEP DOWN                       |           |                |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND INCLUDE<br>CHEMICALLY APPLIED OR PLATED FINISHES |  | DRAWN  | DATE      | FINAL APPROVAL |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  |  | 1/17/67  | 12-21-66  | [Signature]    |
| FRACTIONS<br>± 1/64<br>ANGLES<br>± 0° 30'   |  | CHECKED  | DATE      | DATE           |
| TOLERANCES  |  | 1/16-67  | 1-16-67   | 1/17/67        |
| ELECT. DES.   |  | DATE   | TF357     |                |
| MECH. DES.  |  | DATE   | Ø         |                |
|   |  | 1-16-67  | SHEET     |                |
|   |  |  | REV. LTR. |                |

NOTES

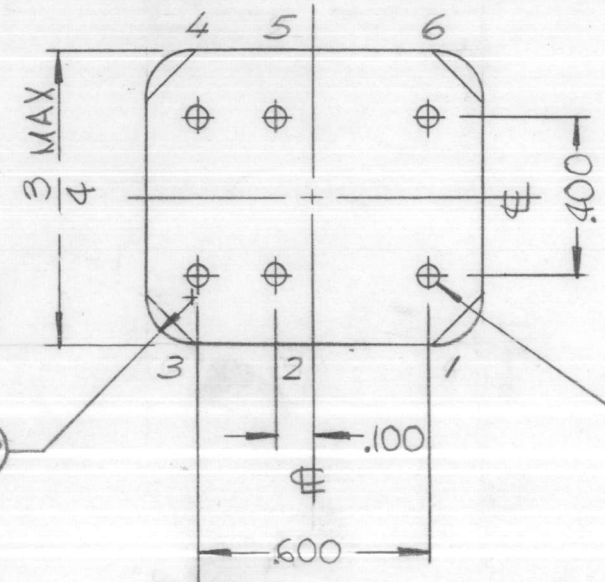
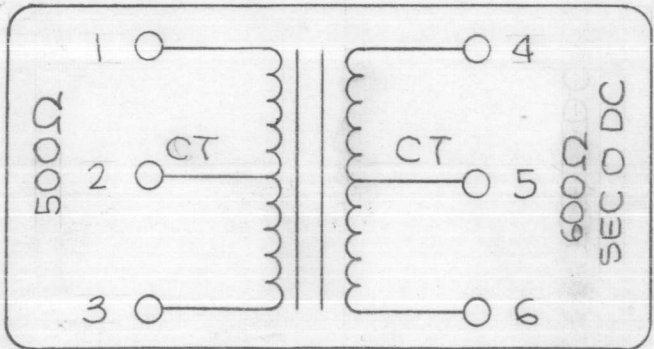
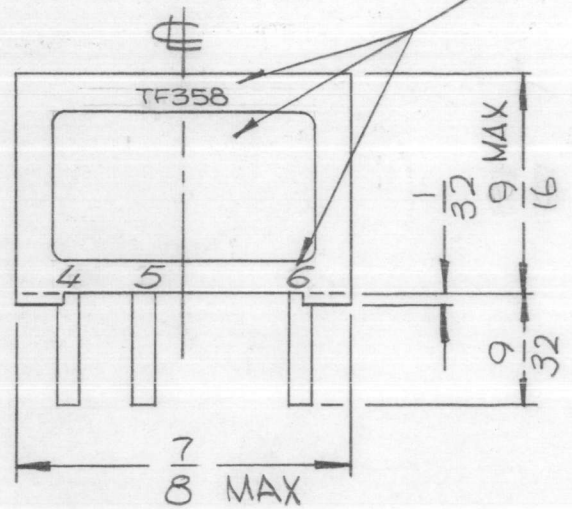
| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO.         |
|------------|---------------|--------------------|
| 1          | KMCI-1        |                    |
| SCALE      | CODE          |                    |
| 1:1        | C             | 5401-30<br>(7636B) |

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| REVISIONS |     |                        |          |          |       |           |
|-----------|-----|------------------------|----------|----------|-------|-----------|
| ZONE      | LTR | DESCRIPTION            | DATE     | E.M.N.NO | DRAFT | CHKD APPD |
|           | X   | EXPERIMENTAL REL       | 1/5/67   | X        | WLO   | JCB JDe   |
|           | Ø   | ORIG. RELEASE FOR PROD | 10-21-68 |          | R.G.  | JDe       |
|           | A   | TERMINALS RENLUMB.     | 11/3/69  | 19631    | KH    | KD JP     |

NOTE

LETTERING & MARKING TO BE LOCATED AS SHOWN PER TMC SPEC 5727, NO ADDITIONAL MARKING OTHER THAN SHOWN, TO BE ADDED TO XFMR.



.040 DIA PINS (6 REQ)

PERFORMANCE CHARACTERISTICS

1. PER MIL-T-27A PERFORMANCE CHARACTERISTICS, EXCEPT THAT MIL-T-27 SHALL NOT APPEAR ON CASE & QUALIFICATION TESTING IS NOT REQUIRED
1. PRIMARY IMPEDANCE: 500 CT OHMS
2. SECONDARY IMPEDANCE: 600 CT OHMS
3. MAX PRI UNBALANCED DC CURRENT: 10 MA
4. FREQUENCY RESPONSE: 300~50 KC ±2 dB
5. MAX LEVEL: +20 DBM (100 MW)
6. POLARITY: TERMS 1 & 4 HAVE SAME POLARITY
7. WORKING VOLTAGE: 175 PEAK
8. FINISH: TMC GREY AS PER S115
9. MARKING: ALL TERMINALS TO BE MARKED AS INDICATED
10. PER MIL-T-27A GRADE 5, CLASS R, LIFE EXPECTANCY X, EXCEPT THAT MIL-T-27 SHALL NOT APPEAR ON CASE & QUALIFICATION TESTING IS NOT REQUIRED

OLEG

|   |               |           |   |                                       |                |             |  |  |  |  |
|---|---------------|-----------|---|---------------------------------------|----------------|-------------|--|--|--|--|
| 1 MSAR-4  |               |           | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |                                       | FINAL APPROVAL | DATE        | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |  |  |  |
| QTY / UNIT  | MODEL USED ON | ASS'Y NO. | DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  | FRACTIONS<br>1/64<br>ANGLES<br>0°-30' | MECH. DES.     | DATE        | TRANSFORMER, AUDIO, OUTPUT MATCHING                  |  |  |  |
| APPLICATION   |               |           | MATERIAL  |                                       | ELECT. DES.    | DATE        | SIZE B CODE IDENT. NO. 82679 DWG NO. TF358 ISSUE A   |  |  |  |
| DO NOT SCALE CODE 5401-29(SSD-19P)  |               |           | FINISH  |                                       | CHECKED        | DATE        | SCALE SHEET OF                                       |  |  |  |
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REVISIONS

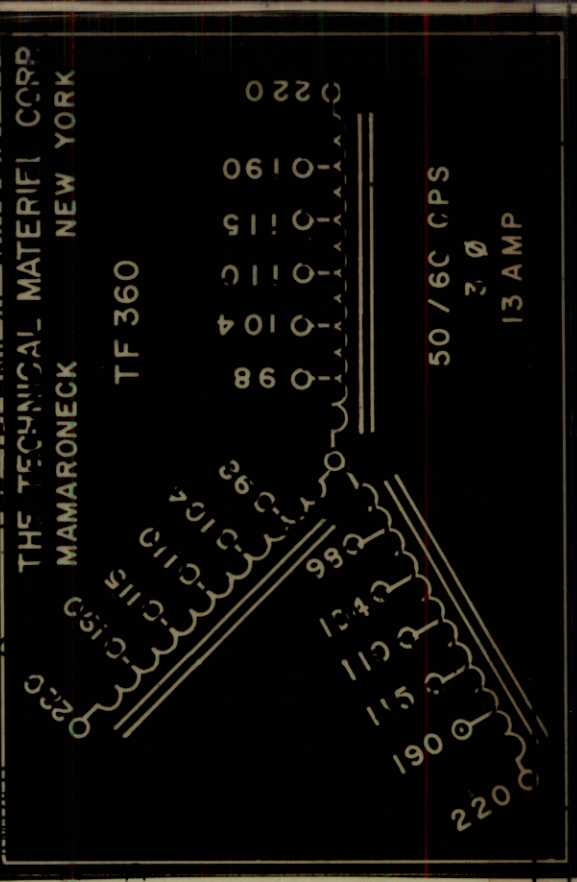
| SYM | DESCRIPTION                     | DATE    | E.M.N. NO. | DRAFT | CHKD | APPD |
|-----|---------------------------------|---------|------------|-------|------|------|
| X   | EXPERIMENTAL RELEASE            | 1/29/68 |            |       |      |      |
|     | ORIGINAL RELEASE FOR PRODUCTION | 7/1/69  |            |       |      |      |

SPECIFICATIONS

**ELECTRICAL**  
 VOLTAGE: 98, 104, 110, 115, 190, 220  
 FREQUENCY: 50/60 CPS  
 PHASE: 3Ø=  
 INSULATION TEST VOLTAGE: 1250 VRMS

**MECHANICAL**  
 CASE: OPEN FRAME  
 FINISH: S115 SMOOTH GRAY ENAMEL EXCEPT TERMINALS  
 DIMENSIONS: SHOWN PICTORIALY  
 TERMINALS: 10-32 THREADS  
 TOLERANCE RANGE: ±1/32 UNLESS OTHERWISE SPECIFIED

**STAMPING**  
 ACCORDING WITH TMC SPEC S727  
 TERMINALS: SHALL BE WHITE  
 SCHEMATIC: TO BE PLACED AS SHOWN  
 BLACK GOTHIC LETTERING AND LINE WORK



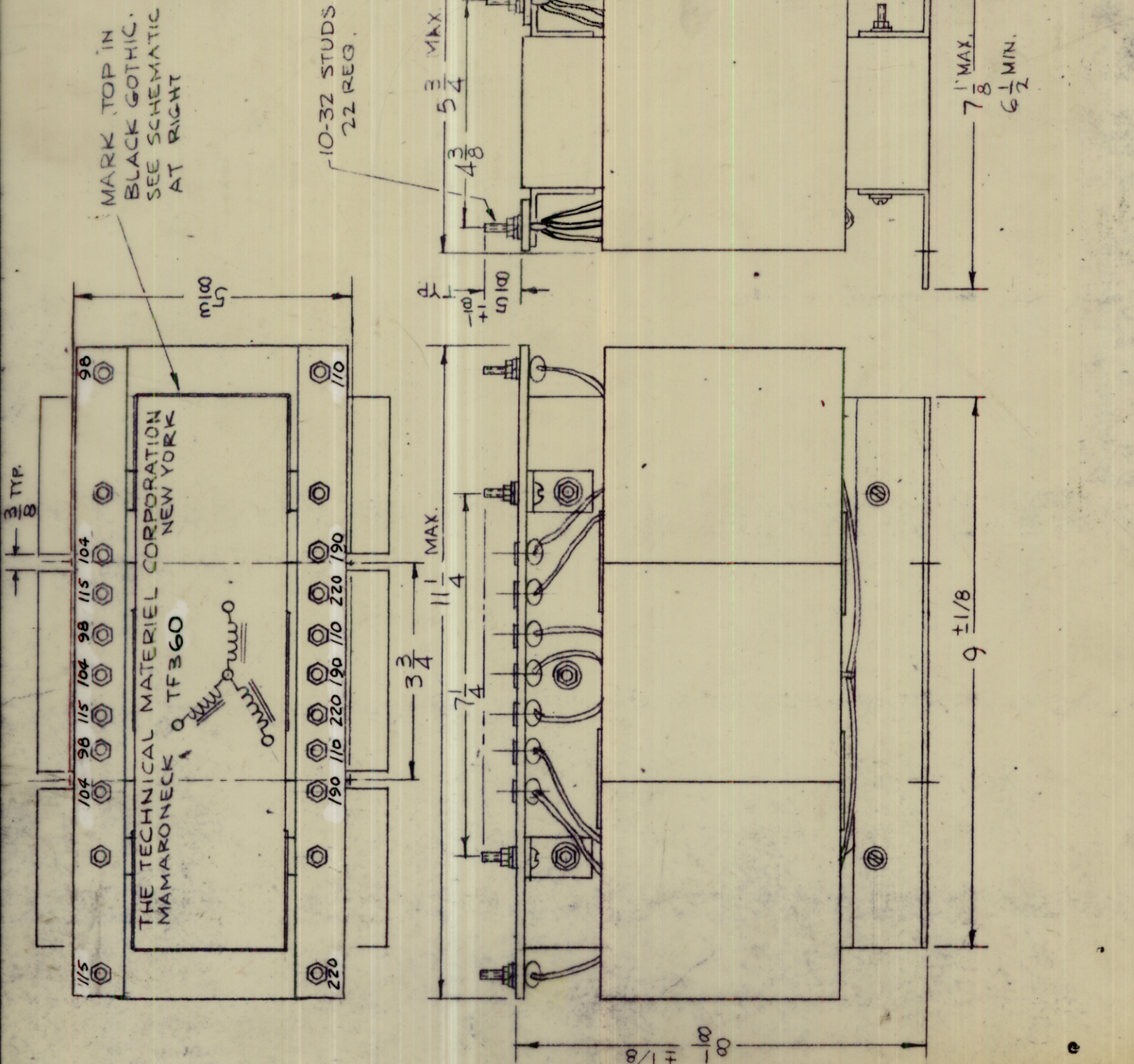
LIST OF MATERIAL

THE TECHNICAL MATERIEL CORP.  
 MAMARONECK, NEW YORK

TITLE: TRANSFORMER, AUTO

| DRAWN      | DATE    | FINAL APPROVAL | DATE      |
|------------|---------|----------------|-----------|
| AKC        | 1-29-68 | OSB            | 8/8/69    |
| CHECKED    | DATE    | ELECT. DEF.    | DATE      |
|            |         | RT             |           |
| MECH. DES. | DATE    | SHEET          | REV. LTR. |
| AVC        |         | TF 360         |           |

TF 360



NOTE: Manufactured in accordance w/MIL-SPEC T-27-A, except that MIL SPEC T-27-A shall not appear on case and qualification testing not req.

NOTES

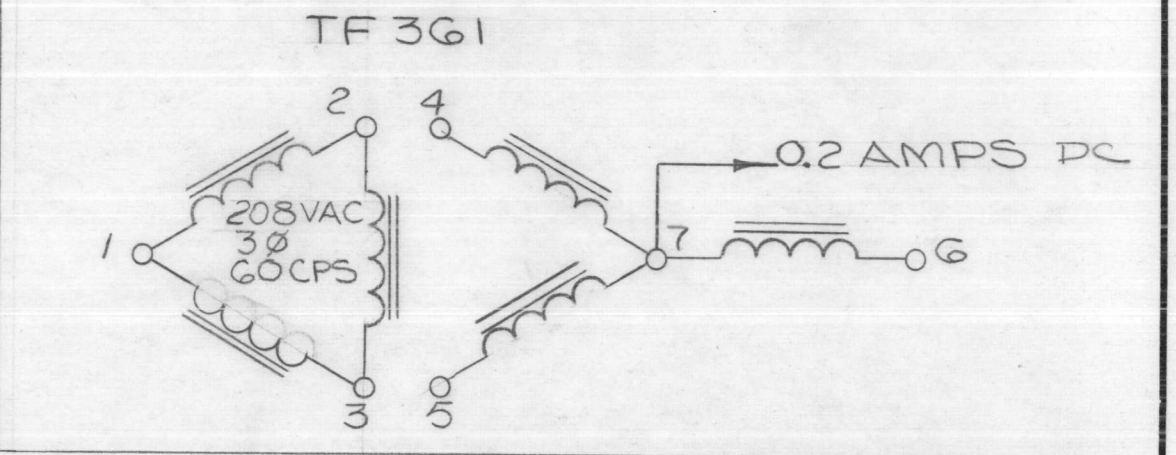
| QTY./UNIT    | MODEL USED ON | ASSY. NO.          |
|--------------|---------------|--------------------|
| DO NOT SCALE | RAK 110-2     | S401-30 (BTC 0064) |

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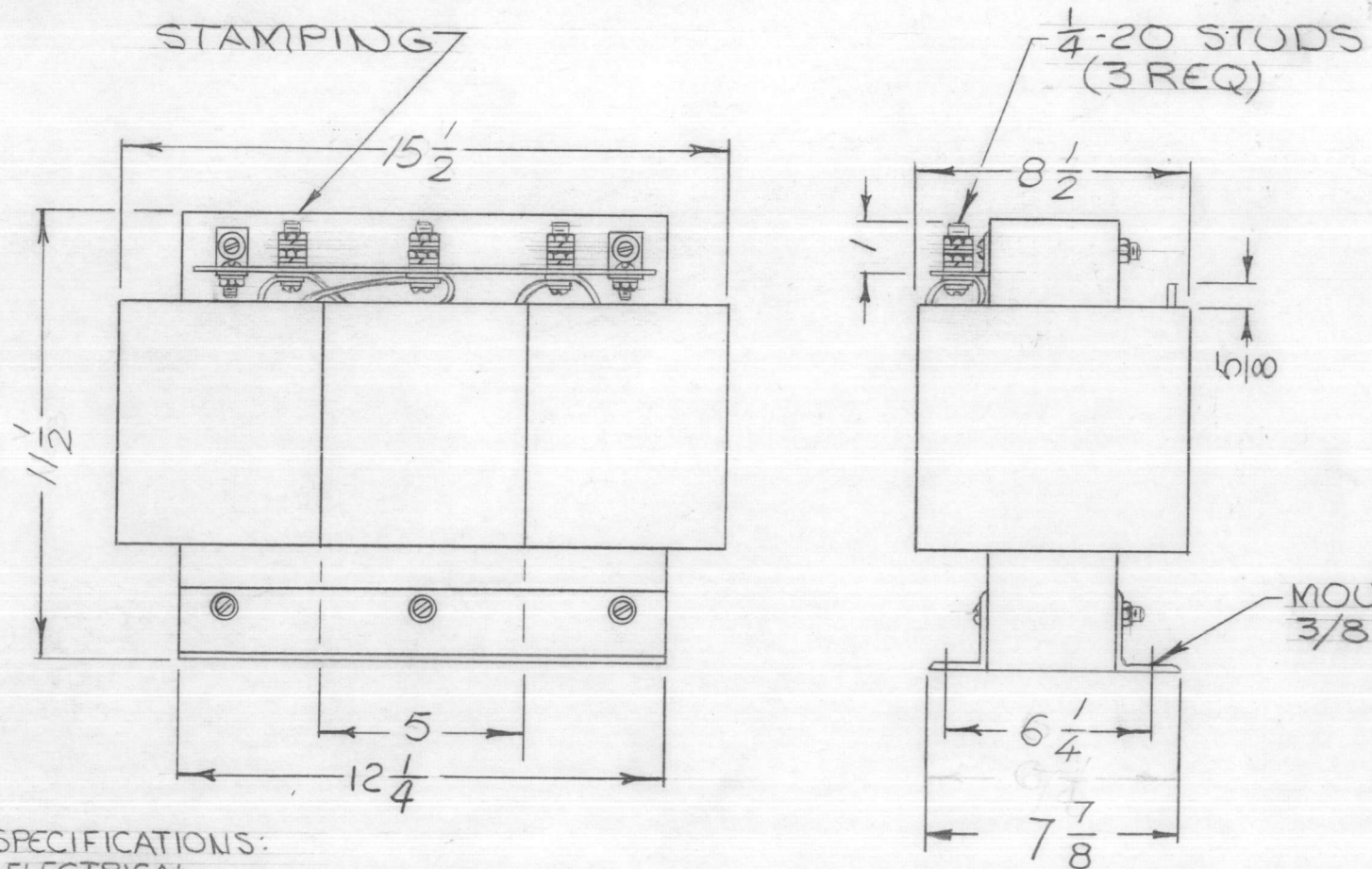
| REQ'D. | ITEM       | PART NUMBER   |
|--------|------------|---|
|        | F. BUDETTI |   |
|        | MATERIAL   | SEE SPECS.  |
|        | FINISH     | SEE SPECS.  |
|        |            | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |
|        |            | FRACTIONS ± 1/64 ANGLES ± 0° 30'  |
|        |            | DECIMALS .XX ± .01 .XXX ± .005  |

| REVISIONS |     |                         |         |          |       |            |
|-----------|-----|-------------------------|---------|----------|-------|------------|
| ZONE      | LTR | DESCRIPTION             | DATE    | E.M.N.NO | DRAFT | CHKD APPD  |
|           | X   | EXP. RELEASE            | 2-12-68 |          |       |            |
|           | Ø   | ORIG. RELEASE FOR PROD. | 5-29-68 | Ø        | R.G.  |            |
|           | A   | DIM. CHANGES            | 7/4/69  | 19503    | GE    | TTD FB900D |

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK



TO BE STAMPED ON XFMR IN WHITE



**SPECIFICATIONS:**  
 ELECTRICAL  
 VOLTAGE - (PRI, 208VAC) (7500VDC)  
 FREQUENCY - 60CPS  
 PHASE - 3Ø  
 INSULATION TEST VOLTAGE  
 CURRENT - 1.5 AMPS, NEUTRAL .2 AMPS

**MECHANICAL**  
 CASE - OPEN FRAME  
 FINISH - S115 SMOOTH GRAY  
 ENAM. EXCEPT TERMINALS  
 DIMENSIONS - SEE PICTORIAL  
 TERMINALS - 1/4-20 THREADS  
 TOL. RANGE - 1/32 UNLESS  
 OTHERWISE SPECIFIED

**STAMPING**  
 ACCORDING TO TMC SPEC S727  
 TERMINALS - TO BE STAMPED  
 WHITE  
 SCHEMATIC - TO BE PLACED AS  
 SHOWN  
 BLACK GOTHIC LETTERING &  
 LINE WORK

**SPECIFICATIONS:**  
 PRIMARY 208 60CPS  
 PHASE - 3  
 VOLTAGE 7500 DC  
**NOTES:**  
 MFG. IN ACCORDANCE WITH/MIL-27A  
 EXCEPT MIL-7-27A SHALL NOT APPEAR ON  
 CASE & QUALIFICATION TESTING IS NOT  
 REQUIRED

|   |               |               |
|---|---------------|---------------|
| 1   | GPT-10KRL     |               |
| QTY / UNIT  | MODEL USED ON | ASS'Y NO.     |
| APPLICATION   |               |               |
|   | CODE          | S401-3d(8070) |
| NOTICE TO PERSONS RECEIVING THIS DRAWING<br>THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time. |               |               |

UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS ARE IN INCHES  
 AND INCLUDE CHEMICALLY APPLIED  
 OR PLATED FINISHES

|             |           |
|-------------|-----------|
| DECIMALS    | FRACTIONS |
| .X ± .05    | 1/64      |
| .XX ± .01   | ANGLES    |
| .XXX ± .005 | 0° .30'   |

MATERIAL  
AS NOTED

FINISH  
AS NOTED

| REQ'D  | ITEM            | PART NUMBER | DESCRIPTION | SYM. |
|--|-----------------|-------------|-------------|------|
| BUDETTI LIST OF MATERIAL                             |                 |             |             |      |
| THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |                 |             |             |      |
| TRANSFORMER, POWER<br>STEP-UP                        |                 |             |             |      |
| SIZE   | CODE IDENT. NO. | DWG NO.     | ISSUE       |      |
| B  | 82679           | TF 361      | A           |      |
| SCALE-NONE   |                 |             | SHEET       | OF   |

REVISIONS

| ZONE | LTR | DESCRIPTION            | DATE     | E.M.N.NO | DRAFT | CHKD               | APPD               |
|------|-----|------------------------|----------|----------|-------|--------------------|--------------------|
|      | X   | EXP. RELEASE           | 9-15-67  |          | H.G.  | <i>[Signature]</i> | <i>[Signature]</i> |
|      | Ø   | ORIG. RELEASE FOR PROD | 10-21-68 |          | R.G.  |                    | <i>[Signature]</i> |
| A    |     | TERM 5 & 6 WAS 37.8V   | 1/28/70  | 19739    | CV    |                    | <i>[Signature]</i> |

SPECIFICATIONS

ELECTRICAL

PRIMARY WINDING

VOLTAGE: TERMINALS 1,2,3,4 115/230 V

FREQUENCY: 50/60 CPS

INSULATION TEST VOLTAGE: 1000 VOLTS

SECONDARY WINDING

VOLTAGE: TERMINALS 1,2,3,4 115/230 V

TERMINALS 5,6 41.2 V

7,8 14.8 V

9,10 240 V

10,11 28.4 V

MECHANICAL

CASE: POTTED FRAME

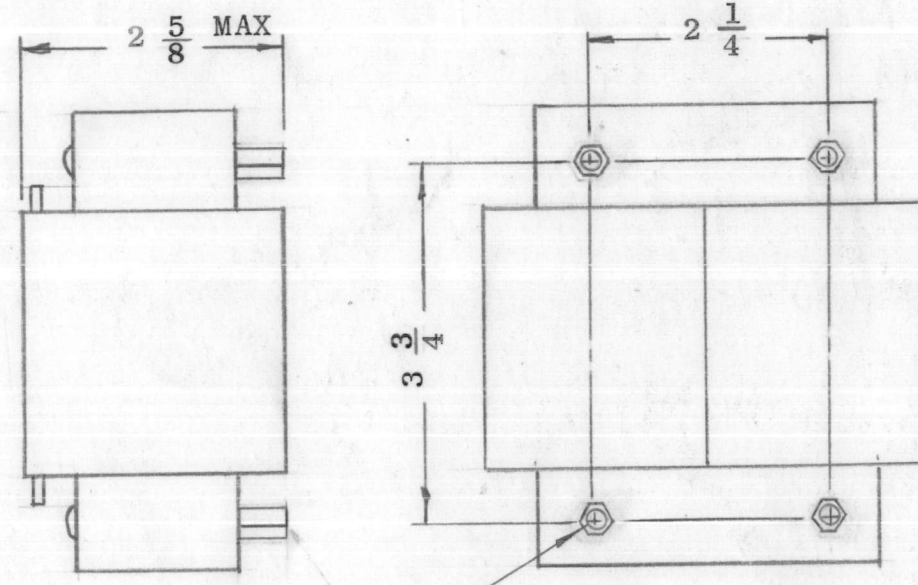
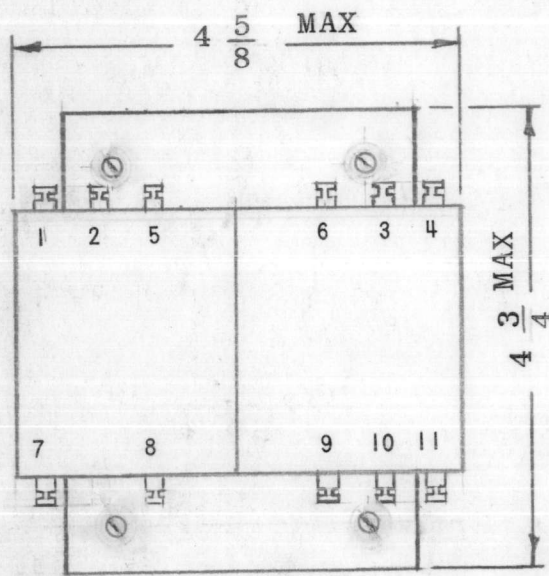
FINISH: BLACK MATT

DIMENSIONS: SHOWN PICTORIALLY

TERMINALS: SOLDER TYPE

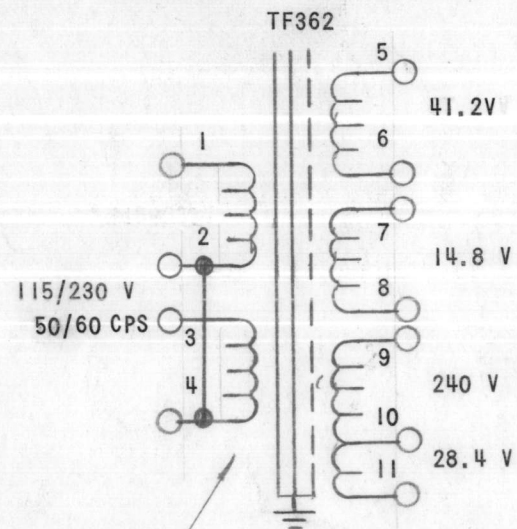
STAMPING: ACCORDING TO TMC SPEC S727 WHITE GOTHIC LETTERING AND LINE WORK

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL-SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING NOT REQUIRED.



8-32 THREADS (4)

THE TECHNICAL MATERIEL CORP.  
MAMARONECK NEW YORK



STAMP ON XFMR

|             |               |                    |
|-------------|---------------|--------------------|
| 1           | HFRR-4        |                    |
| QTY / UNIT  | MODEL USED ON | ASS'Y NO.          |
| APPLICATION |               |                    |
|             | CODE C        | S401-30 (BTC#7872) |

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

|             |              |
|-------------|--------------|
| DECIMALS    | FRACTIONS    |
| .X ± .05    | 1/64         |
| .XX ± .01   | TOLS. ANGLES |
| .XXX ± .005 | 0° -30'      |

MATERIAL

FINISH

| REQ'D | ITEM | PART NUMBER | DESCRIPTION | SYM. |
|-------|------|-------------|-------------|------|
|-------|------|-------------|-------------|------|

R. HOGAN LIST OF MATERIAL

|                |      |
|----------------|------|
| FINAL APPROVAL | DATE |
| MECH. DES.     | DATE |
| ELECT. DES.    | DATE |
| CHECKED        | DATE |
| DRAWN          | DATE |

THE TECHNICAL MATERIEL CORP.  
MAMARONECK, NEW YORK

XFMR, POWER STEP UP, STEP DOWN

|      |                 |         |       |
|------|-----------------|---------|-------|
| SIZE | CODE IDENT. NO. | DWG NO. | ISSUE |
| B    | 82679           | TF 362  | A     |

SCALE 1:2 SHEET OF

| REVISIONS |     |                        |          |          |       |                    |                    |
|-----------|-----|------------------------|----------|----------|-------|--------------------|--------------------|
| ZONE      | LTR | DESCRIPTION            | DATE     | E.M.N.NO | DRAFT | CHKD               | APPD               |
|           | X   | EXP. RELEASE           | 9-15-67  |          | H.G.  | <i>[Signature]</i> | <i>[Signature]</i> |
|           | Ø   | ORIG. RELEASE FOR PROD | 10-21-68 |          | R.G.  | <i>[Signature]</i> | <i>[Signature]</i> |

SPECIFICATIONS

ELECTRICAL:

PRIMARY WINDING

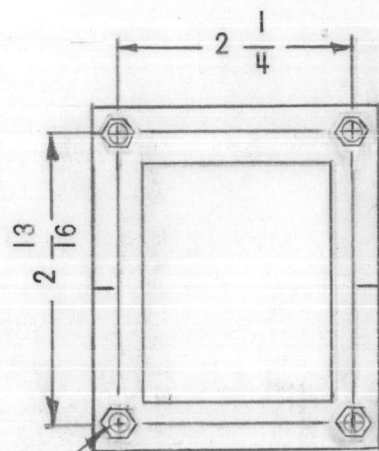
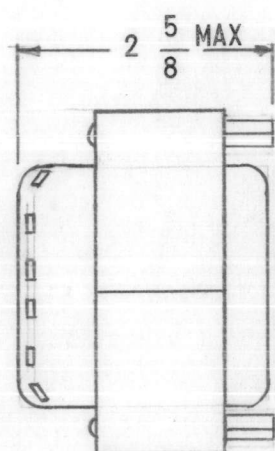
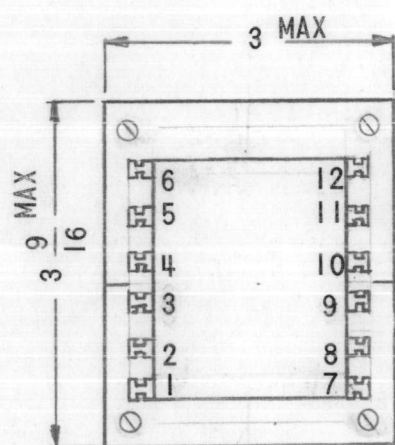
- VOLTAGE: TERMINALS 1,2,3,4 115/230 V
- FREQUENCY: 50/60 CPS
- PHASE: 1
- INSULATION TEST VOLTAGE: 1000 VDC

SECONDARY WINDING

- VOLTAGE:
- |           |       |        |
|-----------|-------|--------|
| TERMINALS | 5,6   | 38.0 V |
|           | 7,8   | 22.8 V |
|           | 9,10  | 14.5 V |
|           | 11,12 | 28.2 V |

MECHANICAL

- CASE: POTTED FRAME
- FINISH: BLACK MATT
- DIMENSIONS: SHOWN PICTORIALY
- TERMINALS: SOLDER TYPE
- STAMPING: ACCORDING TO TMC SPEC S727 WHITE GOTHIC LETTERING AND LINE WORK.

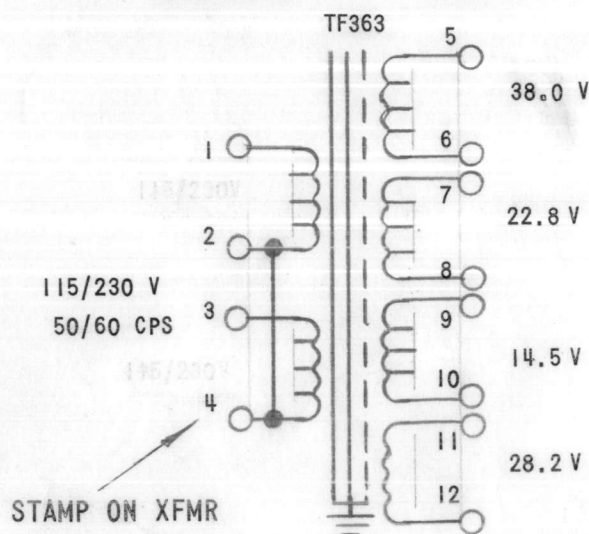


8-32 THDS (4)

NOTE:

MANUFACTURED IN ACCORDANCE WITH MIL-SPEC T-27-A EXCEPT THAT MIL-SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING NOT REQUIRED.

THE TECHNICAL MATERIEL CORP.  
MAMARONECK NEW YORK



|             |               |                    |
|-------------|---------------|--------------------|
| I           | MSAR-4        |                    |
| QTY / UNIT  | MODEL USED ON | ASS'Y NO.          |
| APPLICATION |               |                    |
|             | CODE C        | S401-40 (BTC#7871) |

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|             |              |
|-------------|--------------|
| DECIMALS    | FRACTIONS    |
| .X ± .05    | 1/64         |
| .XX ± .01   | TOLS. ANGLES |
| .XXX ± .005 | 0° .30'      |

MATERIAL  
FINISH

| REQ'D | ITEM | PART NUMBER | DESCRIPTION | SYM. |
|-------|------|-------------|-------------|------|
|-------|------|-------------|-------------|------|

R. HOGAN LIST OF MATERIAL

|                                   |  |               |
|-----------------------------------|--|---------------|
| FINAL APPROVAL <i>[Signature]</i> |  | DATE          |
| MECH. DES.                        |  | DATE          |
| ELECT. DES.                       |  | DATE          |
| CHECKED <i>[Signature]</i>        |  | DATE 10/17/68 |
| DRAWN H.G.                        |  | DATE          |

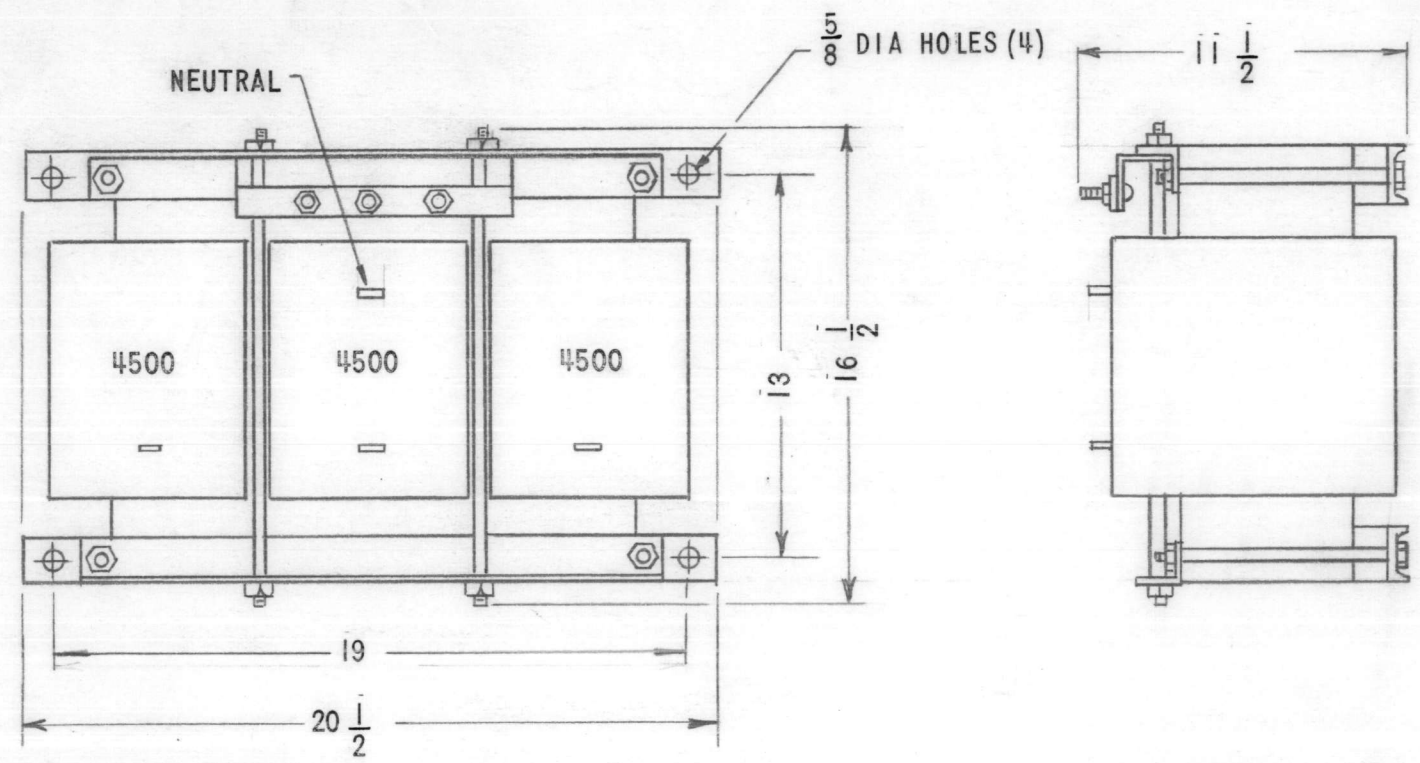
THE TECHNICAL MATERIEL CORP.  
MAMARONECK, NEW YORK

XFMR, POWER STEP UP, STEP DOWN

|           |                       |                |                          |
|-----------|-----------------------|----------------|--------------------------|
| SIZE B    | CODE IDENT. NO. 82679 | DWG NO. TF 363 | ISSUE <i>[Signature]</i> |
| SCALE 1:2 | SHEET OF              |                |                          |



| REVISIONS |     |                         |         |          |       |                    |
|-----------|-----|-------------------------|---------|----------|-------|--------------------|
| ZONE      | LTR | DESCRIPTION             | DATE    | E.M.N.NO | DRAFT | CHKD APPD          |
|           | X   | EXPERIMENTAL RELEASE    | 3/29/68 |          | C.V.  | <i>[Signature]</i> |
|           | Ø   | ORIG. RELEASE FOR PROD. | 5.10.68 |          | R.G.  | <i>[Signature]</i> |

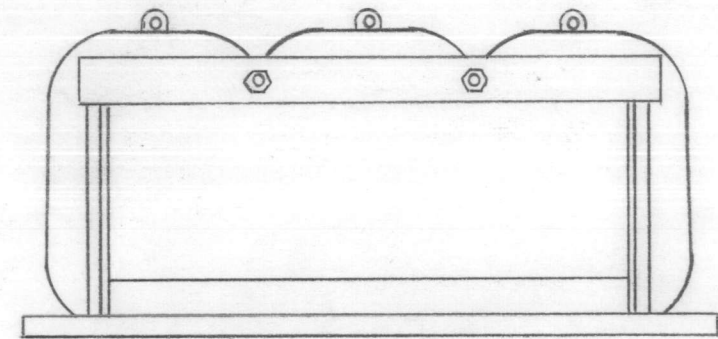


SPECIFICATIONS

- ELECTRICAL:**  
 PRIMARY: 208 VAC 3Ø, 60 CPS  
 INSULATION TEST VOLTAGE: 15 KV  
 SECONDARY: 10 K VDC @ 4A FROM 3Ø FWB
- MECHANICAL:**  
 CASE: OPEN FRAME  
 FINISH: TMC SPEC S115 SMOOTH GRAY ENAMEL  
 DIMENSIONS: SHOWN PICTORIALY  
 TERMINALS:  
 PRIMARY: LUGS  
 SECONDARY: SOLDER TERM

- MARKING:**
- A. SCHEMATIC AND TMC IDENTIFICATION TO BE MARKED ON TOP OF TRANSFORMER.
  - B. MARKING TO BE AS PER TMC S727.
  - C. LETTER AND NUMERALS TO BE GOTHIC ALL MARKING TO BE IN BLACK.

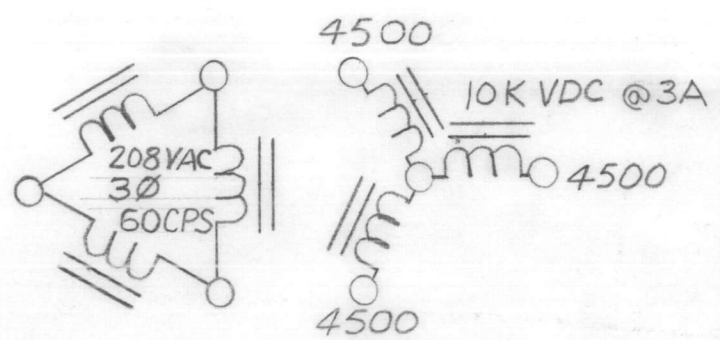
**NOTE:** MANUFACTURED IN ACCORDANCE WITH MIL-SPEC T-27-A EXCEPT THAT MIL-SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING NOT REQUIRED.



TO BE MARKED ON TOP OF TRANSFORMER

THE TECHNICAL MATERIEL CORPORATION  
 MAMARONECK NEW YORK

TF 364



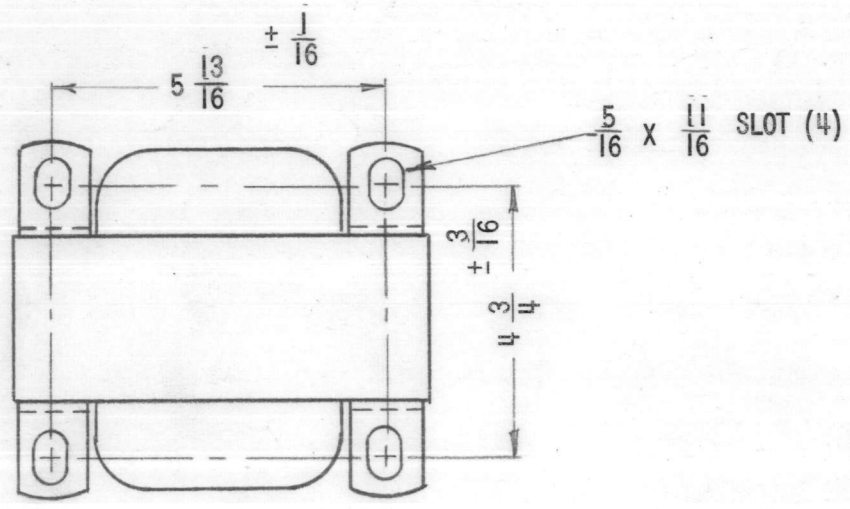
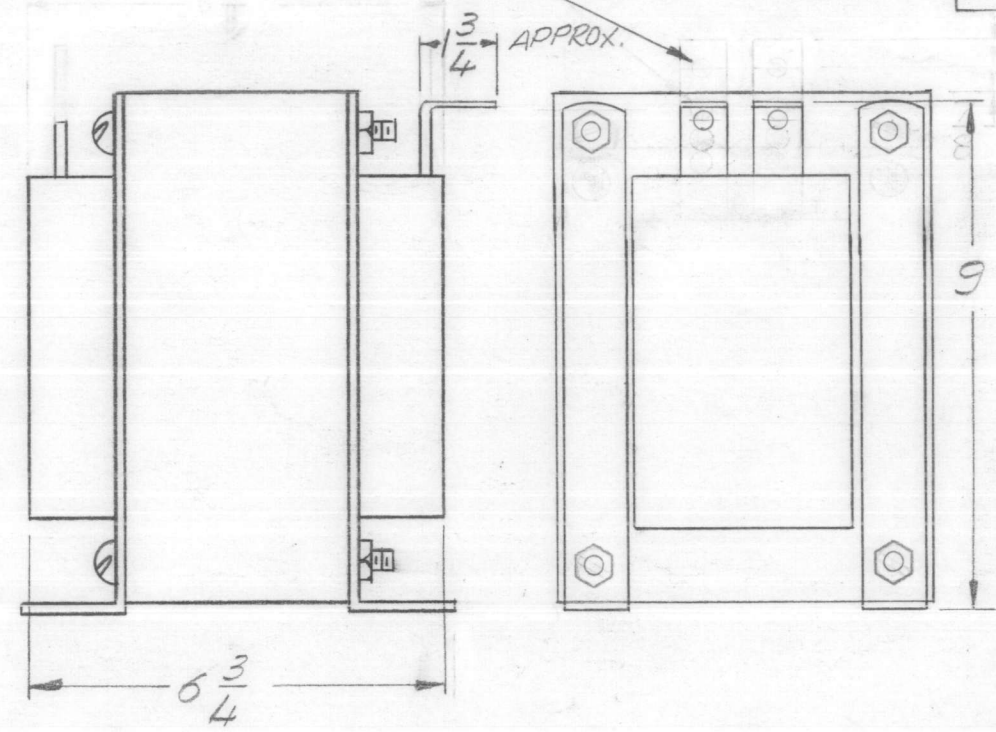
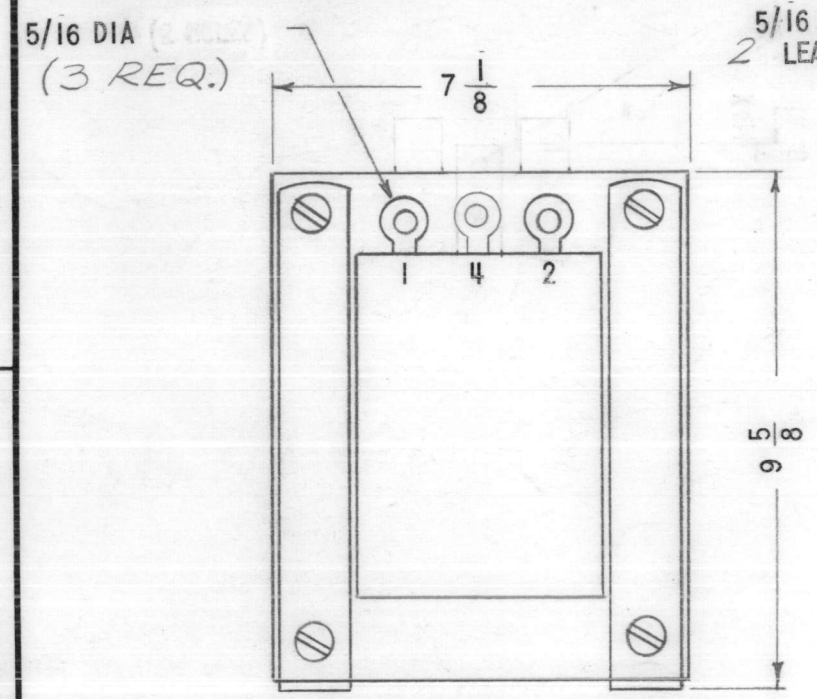
|             |               |               |
|-------------|---------------|---------------|
| 1           | BCT-10KA      |               |
| QTY / UNIT  | MODEL USED ON | ASS'Y NO.     |
| APPLICATION |               |               |
|             | CODE          | S401-30(7894) |

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|   |  |
|---|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |  |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  | FRACTIONS<br>1/64<br>ANGLES<br>0° -30' |
| MATERIAL  |  |
| FINISH  |  |

| REQ'D  | ITEM            | PART NUMBER | DESCRIPTION | SYM. |
|--|-----------------|-------------|-------------|------|
| F. BUDETTI LIST OF MATERIAL                          |                 |             |             |      |
| THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |                 |             |             |      |
| TRANSFORMER, POWER STEP-UP                           |                 |             |             |      |
| SIZE   | CODE IDENT. NO. | DWG NO.     | ISSUE       |      |
| B  | 82679           | TF 364      | Ø           |      |
| SCALE  | SHEET           |             | OF          |      |

| REVISIONS |     |                         |         |          |       |           |
|-----------|-----|-------------------------|---------|----------|-------|-----------|
| ZONE      | LTR | DESCRIPTION             | DATE    | E.M.N.NO | DRAFT | CHKD APPD |
|           | X   | EXPERIMENTAL RELEASE    | 3/29/68 |          | C.V.  |           |
|           | Ø   | ORIG. RELEASE FOR PROD. | 5-8-68  | Ø        | R.G.  |           |
|           | Δ   | REV. & UPDATED          | 5-21-69 | 19438    | GE    | F.B.      |
|           | B   | REVISED LEADS           | 4/7/71  | 20318    | GE    | P.S.      |



SPECIFICATIONS

ELECTRICAL:  
 PRIMARY: 208 VAC Ø1, 60 CPS  
 INSULATION TEST VOLTAGE: 1000 VDC  
 SECONDARY: 10 VAC 300 A CENTER TAP

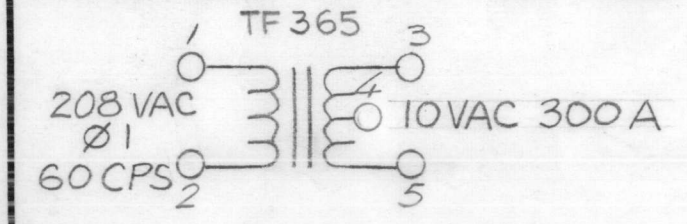
MECHANICAL:  
 CASE: OPEN FRAME  
 FINISH: TMC SPEC S115 SMOOTH GRAY ENAMEL  
 DIMENSIONS: SHOWN PICTORIALLY  
 TERMINALS: LUGS (OFF OF COIL)

MARKING:  
 A. SCHEMATIC AND TMC IDENTIFICATION TO BE PLACED ON TRANSFORMER.  
 B. MARKING TO BE AS PER TMC S727.  
 C. LETTER AND NUMERALS TO BE GOTHIC ALL MARKING TO BE BLACK.

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL-SPEC T-27-A EXCEPT THAT MIL-SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING NOT REQUIRED.

TO BE PLACED ON TOP OF TRANSFORMER

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK



|             |               |               |
|-------------|---------------|---------------|
| 1           | BCT-10KA      | 4X 681        |
| QTY / UNIT  | MODEL USED ON | ASS'Y NO.     |
| APPLICATION |               |               |
|             | CODE          | S401-30(7895) |

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DECIMALS .X ± .05 .XX ± .01 .XXX ± .005

FRACTIONS 1/64 ANGLES 0° .30'

MATERIAL

FINISH

| REQ'D  | ITEM            | PART NUMBER | DESCRIPTION | SYM. |
|--|-----------------|-------------|-------------|------|
| F. BUDETTI LIST OF MATERIAL                          |                 |             |             |      |
| THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |                 |             |             |      |
| TRANSFORMER, POWER, STEP DOWN                        |                 |             |             |      |
| SIZE   | CODE IDENT. NO. | DWG NO.     | ISSUE       |      |
| B  | 82679           | TF 365      | B           |      |
| SCALE  | SHEET           |             | OF          |      |

5

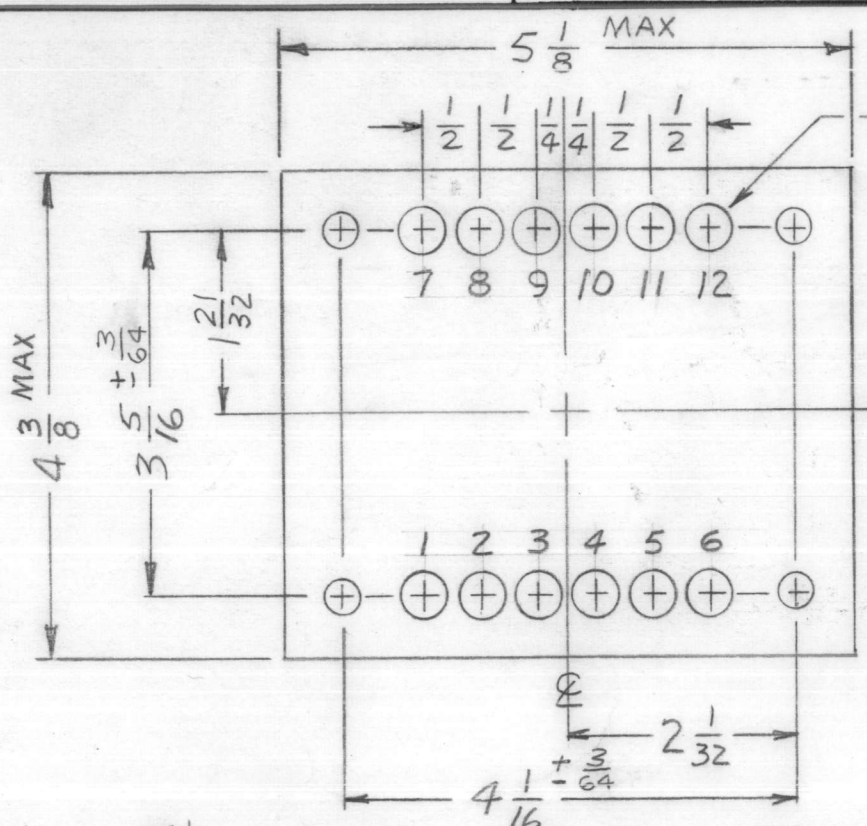
4

3

2

1

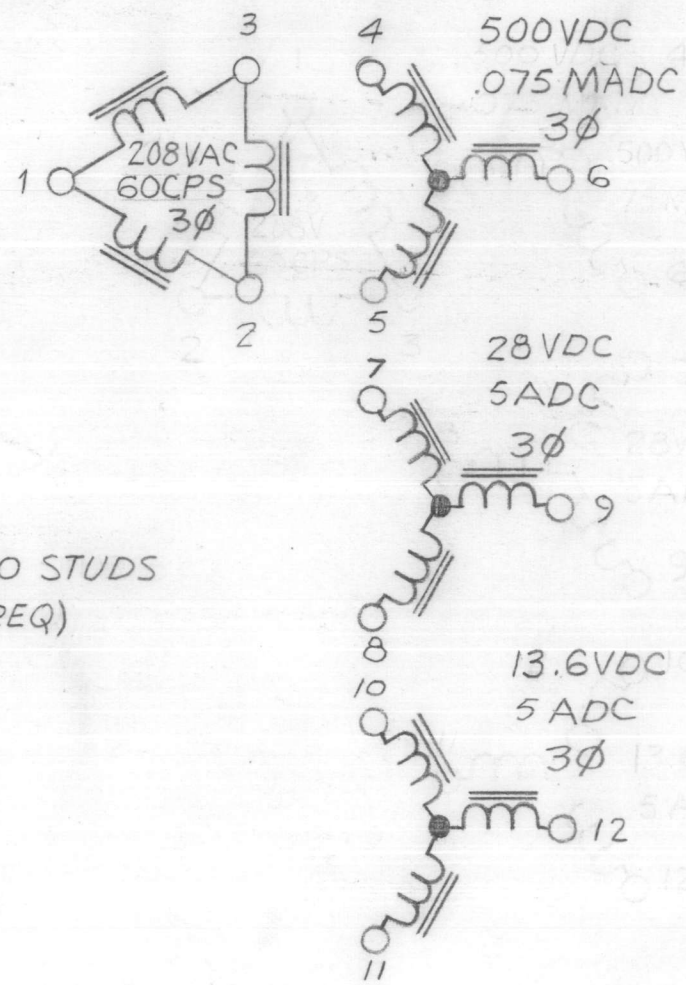
| REVISIONS |     |                         |        |          |       |      |
|-----------|-----|-------------------------|--------|----------|-------|------|
| ZONE      | LTR | DESCRIPTION             | DATE   | E.M.N.NO | DRAFT | CHKD |
|           | X   | EXP. RELEASE            | 3.1.68 | +        | H.S.  | 203  |
|           | Ø   | ORIG. RELEASE FOR PROD. | 5.1.68 | Ø        | R.G.  | 203  |



Ø DIA (12 TERMINALS)

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK

TF 366



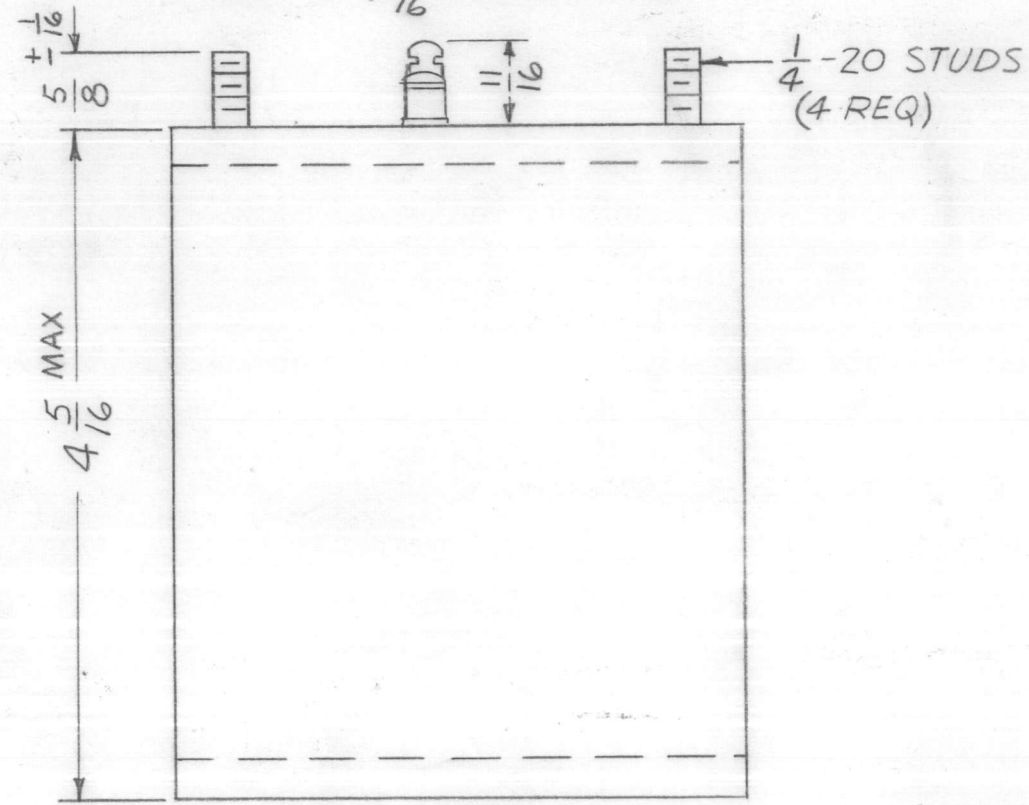
ELECTRICAL SPECIFICATIONS

PRIMARY: 208 VAC, 3Ø, 60 CPS  
 SECONDARY: 13.6 VDC, 5A FROM 3Ø FWB  
 SECONDARY: 500 VDC, .075 A, FROM 3Ø FWB  
 SECONDARY: 28 VDC, 5A FROM 5A, 3Ø FWB

MECHANICAL SPECIFICATIONS

CASE DATA: SEALED  
 HERMETICALLY SEALED  
 CASE DIMENSIONS:  $4 \frac{3}{8} \times 5 \frac{1}{8} \times 4 \frac{5}{16}$   
 TERMINAL DATA:  
 NO OF TERMINALS: 12  
 TYPE: CERAMIC, SOLDER TYPE  
 FINISH: S115 SMOOTH GREY ENAMEL

MARKING: ALL TERMINALS TO BE METAL STAMPED (METAL CASES ONLY) SCHEMATIC AND TMC IDENTIFICATION TO BE MARKED ON TOP OF CASE. MARKING TO BE PER TMC SPECS S566 AND S727



1/4-20 STUDS (4 REQ)

NOTE:  
 MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A, EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE & QUALIFICATION TESTING NOT REQ.

|             |               |               |
|-------------|---------------|---------------|
| 1           | BCT-10KA      | P/S           |
| QTY / UNIT  | MODEL USED ON | ASS'Y NO.     |
| APPLICATION |               |               |
|             | CODE A        | S401-30(7896) |

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|   |   |                |      |
|---|---|----------------|------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |   | FINAL APPROVAL | DATE |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  | FRACTIONS<br>1/64<br>TOLS.<br>ANGLES<br>0° .30' | MECH. DES.     | DATE |
| MATERIAL  | ELECT. DES.                                     | CHECKED        | DATE |
| FINISH  | DRAWN   |                | DATE |

|  |                 |             |             |      |
|--|-----------------|-------------|-------------|------|
| REQ'D  | ITEM            | PART NUMBER | DESCRIPTION | SYM. |
| F. BUDETTI LIST OF MATERIAL                          |                 |             |             |      |
| THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |                 |             |             |      |
| TRANSFORMER, POWER, STEP-UP                          |                 |             |             |      |
| SIZE   | CODE IDENT. NO. | DWG NO.     | ISSUE       |      |
| B  | 82679           | TF 366      | Ø           |      |
| SCALE  | SHEET           |             | OF          |      |

5

4

3

2

1

| REVISIONS |     |                       |         |          |       |                    |
|-----------|-----|-----------------------|---------|----------|-------|--------------------|
| ZONE      | LTR | DESCRIPTION           | DATE    | F.M.N.NO | DRAFT | CHKD APPD          |
|           | X   | EXP. RELEASE          | 9.27.67 |          | H.G.  | <i>[Signature]</i> |
|           | Ø   | ORIG RELEASE FOR PROD | 10/9/67 | Ø        | C.V.  | <i>[Signature]</i> |

**SPECIFICATIONS**

**ELECTRICAL:**

PRIMARY WINDING  
 VOLTAGE: 115/230 VAC  
 FREQUENCY: 50/60 CPS

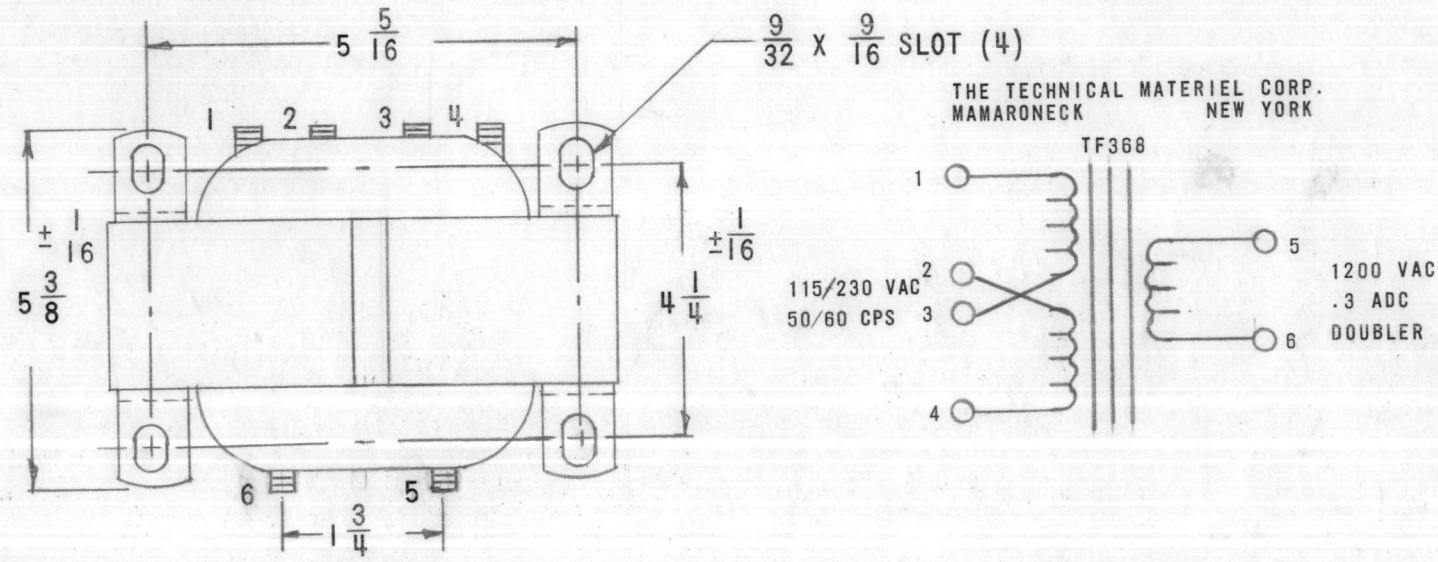
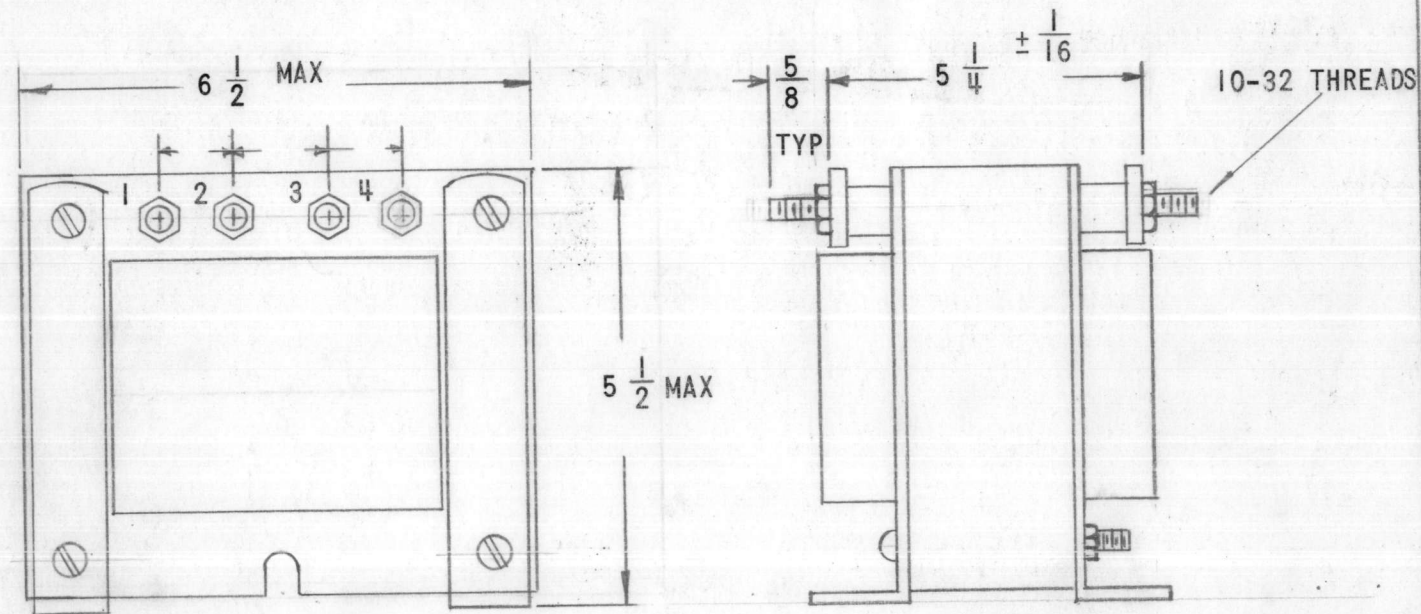
SECONDARY WINDING  
 VOLTAGE: 1200 VAC NO LOAD TO SUPPLY DUBLER CKT (3000 VAC) .3 ADC  
 PHASE: SINGLE  
 INSULATION TEST VOLTAGE: 3000 VRMS

**MECHANICAL:**

CASE: OPEN FRAME  
 FINISH: BLACK MATT  
 EXCEPT TERMINALS  
 DIMENSIONS: SHOWN PICTORIALLY  
 TERMINALS: 10-32 THREADS  
 TOLERANCE RANGE: ±1/32 UNLESS OTHERWISE SPECIFIED

STAMPING: ACCORDING TO TMC SPEC S727 WHITE GOTHIC LETTERING AND LINE WORK  
 SCHEMATIC TO BE PLACED AS SHOWN

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL-SPEC T-27-A, EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING NOT REQUIRED.



THE TECHNICAL MATERIEL CORP.  
 MAMARONECK NEW YORK

TF368

|             |                    |           |
|-------------|--------------------|-----------|
| QTY / UNIT  | LPA-2              | ASS'Y NO. |
| APPLICATION |                    |           |
| CODE        | S401-30 (BCT#7849) |           |

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|   |      |                                      |                 |  |
|---|------|--------------------------------------|-----------------|--|
| REQ'D   | ITEM | PART NUMBER                          | DESCRIPTION     | SYM.   |
| F. BUDETTI  |      | LIST OF MATERIAL                     |                 |  |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |      | FINAL APPROVAL<br><i>[Signature]</i> | DATE<br>10/6/67 | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005   |      | ELECT. DES.<br><i>[Signature]</i>    | DATE<br>10/6/67 |  |
| FRACTIONS 1/64 ANGLES 0°-30'  |      | CHECKED<br><i>[Signature]</i>        | DATE<br>9.27.67 |  |
| MATERIAL  |      | DRAWN<br>H.G.                        | DATE<br>9.27.67 |  |
| FINISH  |      | MIL SA                               | SCALE —         | ISSUE<br>Ø   |
|   |      |                                      | SIZE B          | CODE IDENT. NO. 82679                                |
|   |      |                                      | DWG NO. TF 368  | SHEET 1 OF   |

| REVISIONS |     |                       |         |          |       |                    |
|-----------|-----|-----------------------|---------|----------|-------|--------------------|
| ZONE      | LTR | DESCRIPTION           | DATE    | E.M.N.NO | DRAFT | CHKD APPD          |
| X         | X   | EXP. RELEASE          | 9-8-67  |          | H.G.  | <i>[Signature]</i> |
|           | Ø   | ORIG RELEASE FOR PROD | 10/9/67 | Ø        | C.V.  | <i>[Signature]</i> |
|           | A   | ADDED SIDE VIEWS      | 3/15/68 | 18817    | H.G.  | <i>[Signature]</i> |
|           | B   | STUD CHT. ADDED       | 8/24/72 | 20837    | GE    | <i>[Signature]</i> |

| MODEL    | * STUD REQUIREMENTS                             |
|----------|---|
| TF 369-1 | FOUR STUDS REQ. ON TOP                          |
| TF 369-2 | FOUR STUDS REQ. ON TOP AND FOUR STUDS ON BOTTOM |

SPECIFICATIONS

**ELECTRICAL:**

PRIMARY WINDING  
 VOLTAGE: 110/220 VAC  
 FREQUENCY: 50/60 CPS

SECONDARY WINDING  
 VOLTAGE: 10V CT 15A, 22.4V 1A

LOW CAPACITANCE 10V WINDING: APPROX 50 pF TO CASE MAX

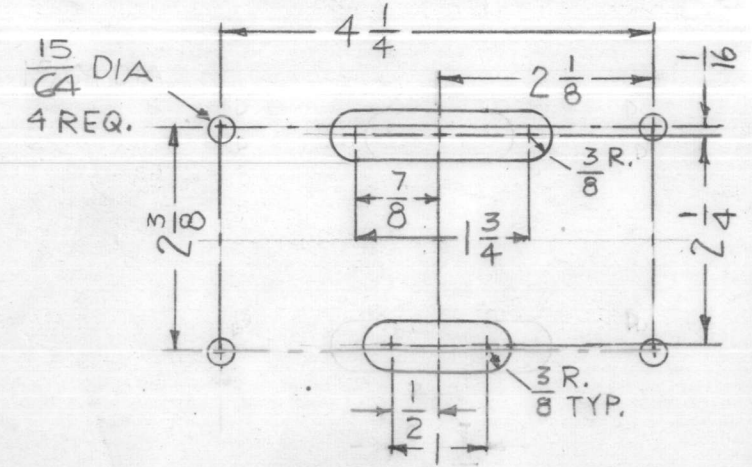
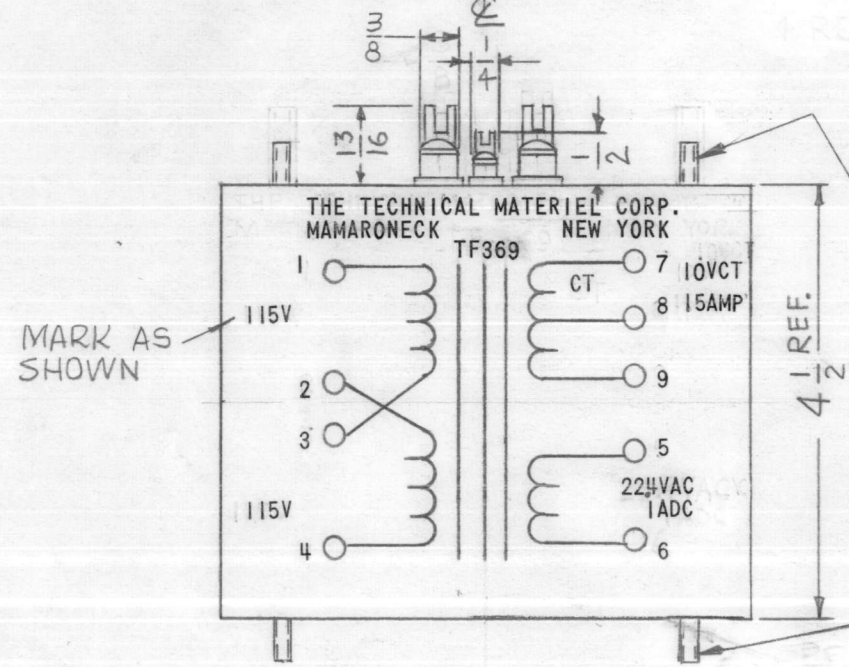
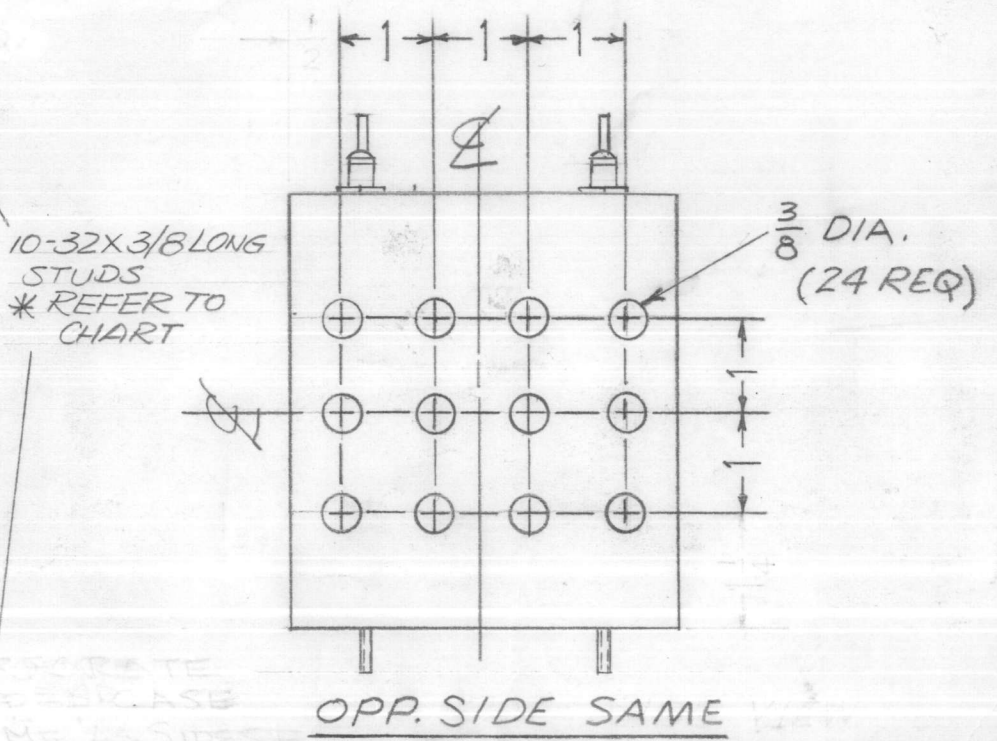
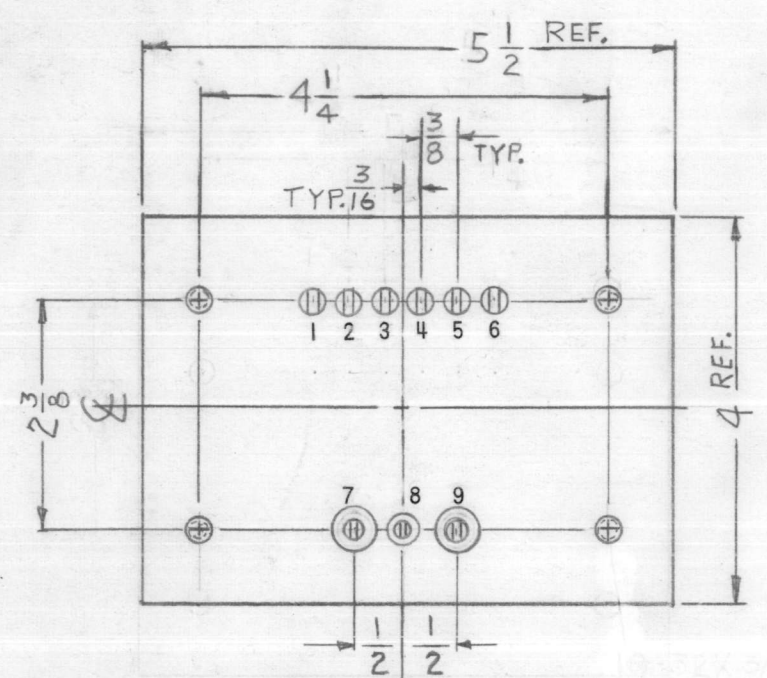
**MECHANICAL:**

CASE: STEEL  
 FINISH: BLACK MATT, EXCEPT TERMINALS  
 DIMENSIONS: SHOWN PICTORIALLY  
 TERMINALS: CERAMIC (9) SOLDER TYPE  
 TOLERANCE: ±1/32 UNLESS OTHERWISE SPECIFIED

**STAMPING:**  
 ACCORDING TO TMC SPEC S727 WHITE GOTHIC LETTERING AND LINE WORK SCHEMATIC TO BE PLACED AS SHOWN.

**NOTE:** MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A, EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING NOT REQUIRED.

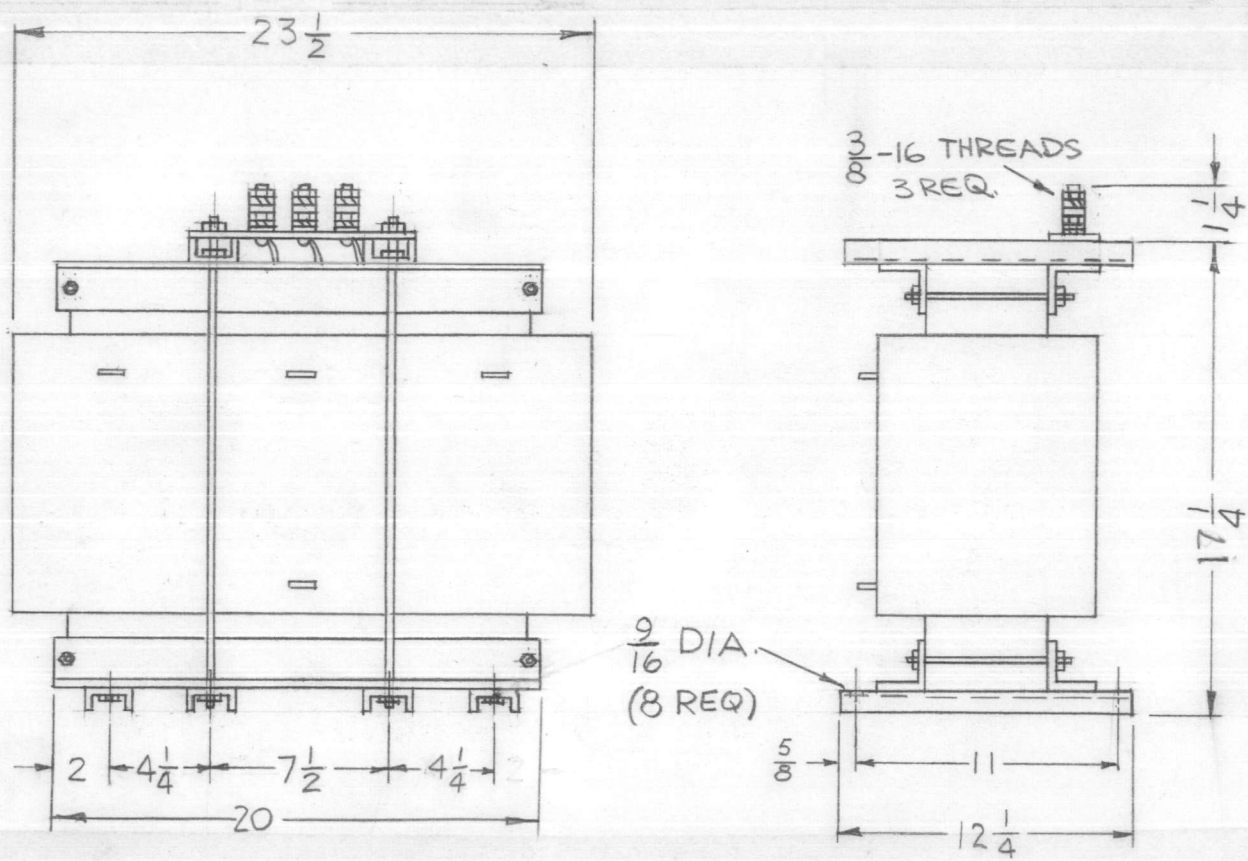
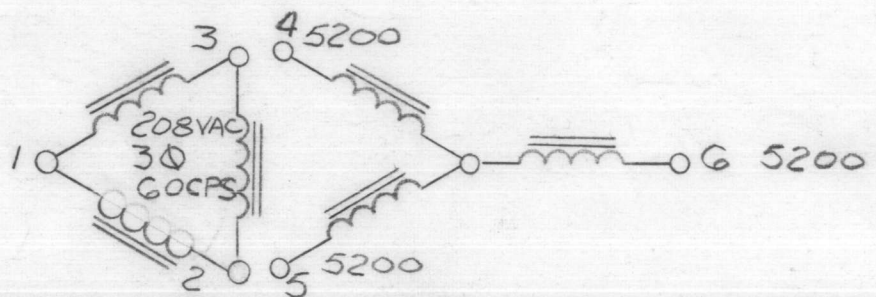
| REQ'D                       | ITEM | PART NUMBER | DESCRIPTION | SYM.   |
|-----------------------------|------|-------------|-------------|--|
| F. BUDETTI LIST OF MATERIAL |      |             |             |  |
| FINAL APPROVAL              |      | DATE        |             | <b>THE TECHNICAL MATERIEL CORP.</b><br>MAMARONECK, NEW YORK<br><br><b>XFMR, FILAMENT</b> |
| <i>[Signature]</i>          |      | 10/16/67    |             |  |
| MECH. DES.                  |      | DATE        |             |  |
| ELECT. DES.                 |      | DATE        |             | SIZE B CODE IDENT. NO. 82679 DWG NO. TF 369 ISSUE B                                      |
| CHECKED                     |      | DATE        |             |  |
| DRAWN                       |      | DATE        |             | SCALE 1/2 SHEET OF   |
| H.G.                        |      | 9-8-67      |             |  |
| FINISH                      |      | MIL Ø       |             |  |
| BLACK MATT.                 |      |             |             |  |



| QTY / UNIT  | MODEL USED ON | ASS'Y NO.          |
|---|---------------|--------------------|
| 1   | LPA-1K        |                    |
| 1   | LPA-2         |                    |
| APPLICATION   |               |                    |
|   | CODE          | 5401-30 (BTC*7856) |
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| DECIMALS    | FRACTIONS |
|-------------|-----------|
| .X ± .05    | 1/64      |
| .XX ± .01   | ANGLES    |
| .XXX ± .005 | 0° - 30'  |

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK  
TF 373



| REVISIONS |     |                         |         |          |      |
|-----------|-----|-------------------------|---------|----------|------|
| ZONE      | LTR | DESCRIPTION             | DATE    | E.M.N.NO | APPD |
|           | X   | EXP. RELEASE            | 2-12-68 |          |      |
|           | Ø   | ORIG. RELEASE FOR PROD. | 5-29-68 |          |      |

SPECIFICATIONS:

**ELECTRICAL**  
PRIMARY - 208 VAC  
PHASE - 3, 60 CPS  
VOLTAGE - 12KV.D.C.  
CURRENT - 4 AMPS

**MECHANICAL**  
CASE - OPEN FRAME  
FINISH - S115 SMOOTH GRAY ENAMEL  
EXCEPT TERMINALS  
DIMENSIONS - SHOWN PICTORIALY  
TERMINALS - THREADS  
TOLERANCE RANGE ± 1/32

**STAMPING**  
ACCORDING TO TMC SPEC S-727  
TERMINALS - SHALL BE STAMPED, WHITE  
SCHEMATIC - TO BE PLACED AS SHOWN  
BLACK GOTHIC LETTERING AND  
LINEWORK

**NOTES:**  
MFG. IN ACCORDANCE WITH/MIL-T-27A  
EXCEPT MIL-T-27A SHALL NOT APPEAR ON  
CASE AND QUALIFICATION TESTING  
IS NOT REQUIRED

|             |               |             |
|-------------|---------------|-------------|
| 1           | GPT-40KEC     |             |
| QTY / UNIT  | MODEL USED ON | ASS'Y NO.   |
| APPLICATION |               |             |
|             | CODE          | S401-(8071) |

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UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
AND INCLUDE CHEMICALLY APPLIED  
OR PLATED FINISHES

|             |              |
|-------------|--------------|
| DECIMALS    | FRACTIONS    |
| .X ± .05    | 1/64         |
| .XX ± .01   | TOLS. ANGLES |
| .XXX ± .005 | 0° -30'      |

MATERIAL  
AS NOTED

FINISH  
AS NOTED

| REQ'D                       | ITEM | PART NUMBER | DESCRIPTION                  | SYM.     |
|-----------------------------|------|-------------|------------------------------|----------|
| F. BUDETTI LIST OF MATERIAL |      |             |                              |          |
| FINAL APPROVAL              |      | DATE        | THE TECHNICAL MATERIEL CORP. |          |
| MECH. DES.                  |      | DATE        | MAMARONECK, NEW YORK         |          |
| ELECT. DES.                 |      | DATE        | TRANSFORMER, POWER,          |          |
| CHECKED                     |      | DATE        | STEP-UP                      |          |
| DRAWN                       |      | DATE        | SIZE                         | ISSUE    |
|                             |      |             | B                            | Ø        |
|                             |      |             | CODE IDENT. NO.              | DWG NO.  |
|                             |      |             | 82679                        | TF 373   |
|                             |      |             | SCALE - NONE                 | SHEET OF |

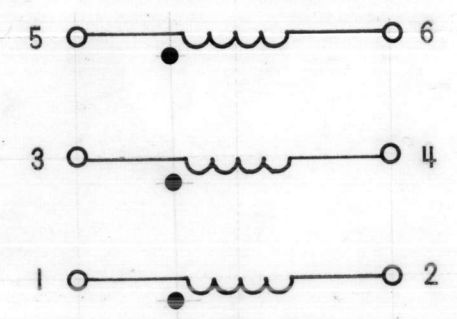
| REVISIONS |     |                                      |          |             |       |                    |
|-----------|-----|--------------------------------------|----------|-------------|-------|--------------------|
| ZONE      | LTR | DESCRIPTION                          | DATE     | E. M. N. NO | DRAFT | CHKD APPD          |
|           | X   | EXPERIMENTAL RELEASE                 | 2/28/68  |             | C.V.  | <i>[Signature]</i> |
|           | Ø   | ORIG. RELEASE FOR PROD               | 10-21-68 |             | R.G.  | <i>[Signature]</i> |
|           | A   | CHG LEAKAGE INDUCTANCE MAX & MIN COL | 1/16/69  | 19202       | C.V.  | <i>[Signature]</i> |
|           | B   | PICTORIAL ADDED                      |          | 19587       | CV    | <i>[Signature]</i> |
|           | C   | CHG. 1-4 ON Lm mh                    | 2/11/70  | 19753       | GE    | <i>[Signature]</i> |

| TMC P/N | TURNS RATIO TOLERANCE ±5% | MFG PART NO | Lm mh ±20% | LEAKAGE INDUCTANCE MAX VALUE IN µH               |  | WINDING RESISTANCE MAX VALUE IN OHMS |                    |                    | INTERWINDING CAPACITY MAX VALUE IN pF            |  | EFFECTIVE DISTRIBUTED CAPACITY SHUNTING WINDING N <sub>1</sub> MAX VALUE IN pF C <sub>D</sub> (1,3,5 GRD) | ET MAX VALUE IN VOLT-µSEC |
|---------|---------------------------|-------------|------------|--|--|--------------------------------------|--------------------|--------------------|--|--|---|---------------------------|
|         |                           |             |            | L <sub>1</sub> (N <sub>1</sub> -N <sub>2</sub> ) | L <sub>1</sub> (N <sub>1</sub> -N <sub>3</sub> ) | R(N <sub>1</sub> )                   | R(N <sub>2</sub> ) | R(N <sub>3</sub> ) | C <sub>1</sub> (N <sub>1</sub> -N <sub>2</sub> ) | C <sub>1</sub> (N <sub>1</sub> -N <sub>2</sub> ) |   |                           |
| TF374-1 | 2:1:1                     | 21LHA       | 0.750      | 4.0  | 4.2  | 1.7                                  | 1.0                | 1.0                | 13   | 12.8   | 4.5   | 14                        |
| -2      | 1:1:1                     | 11GGA       | 0.12       | .50  | .50  | 1.0                                  | 1.0                | 1.0                | 13.0   | 13.0   | 5   | 10                        |
| -3      | 1:1:1                     | 11KGB       | 0.5        | .70  | .70  | 1.9                                  | 1.9                | 1.9                | 24.0   | 24.0   | 7   | 21                        |
| -4      | 3:3:1                     | 33HHA       | 0.250      | .90  | 2.0  | 1.0                                  | 1.1                | 0.6                | 12.8   | 8  | 5   | 9                         |
| -5      | 2:1:1                     | 21PHA       | 2.500      | 7.0  | 8.4  | 2.8                                  | 1.6                | 1.6                | 24   | 22   | 6   | 22                        |

**PURCHASING NOTE:** VENDOR MUST INCLUDE THE FOLLOWING INFORMATION WHEN SHIPPING THIS ITEM TO TMC.

1. AN OUTLINE DRAWING OR ILLUSTRATION FROM CATALOG SHOWING ALL PERTINENT DIMENSIONS AND TOLERANCES.
2. ELECTRICAL AND/OR MECHANICAL SPECIFICATIONS AS SHOWN IN THEIR CATALOGS.

TYP SCHEMATIC

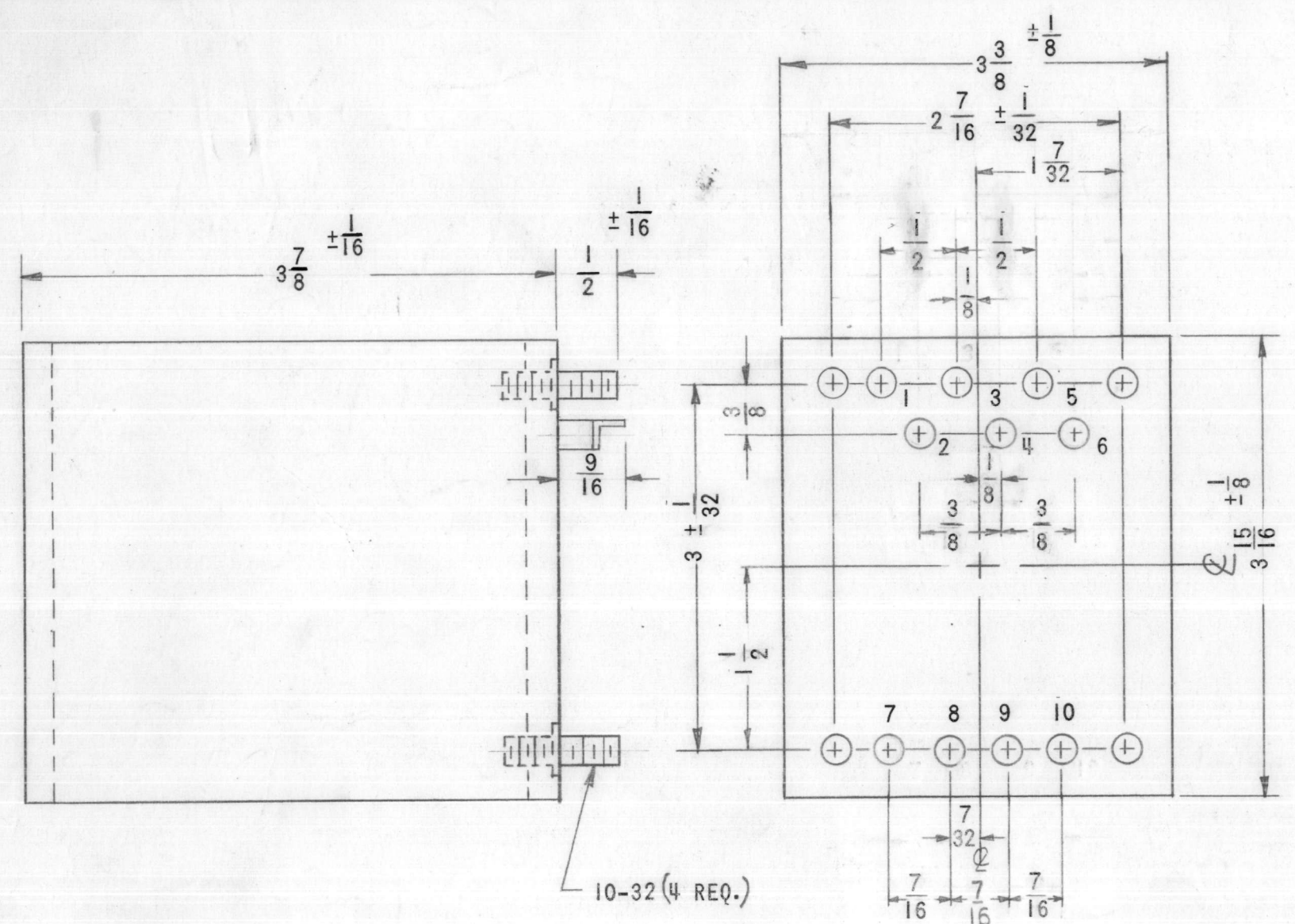


|             |         |           |
|-------------|---------|-----------|
| QTY / UNIT  | HFRR-4  | ASS'Y NO. |
| APPLICATION |         |           |
| CODE        | S401-94 |           |

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|  |      |             |                               |      |
|--|------|-------------|-------------------------------|------|
| REQ'D  | ITEM | PART NUMBER | DESCRIPTION                   | SYM. |
|  |      |             | LIST OF MATERIAL              |      |
| <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES</p> |      |             |                               |      |
| FINAL APPROVAL   |      | DATE        | THE TECHNICAL MATERIEL CORP.  |      |
| MECH. DES.   |      | DATE        | MAMARONECK, NEW YORK          |      |
| ELECT. DES.  |      | DATE        | TRANSFORMER, PULSE, MICRO-MIN |      |
| CHECKED  |      | DATE        | SIZE                          |      |
| DRAWN  |      | DATE        | CODE IDENT. NO.               |      |
|  |      |             | DWG NO.                       |      |
|  |      |             | ISSUE                         |      |
|  |      |             | SCALE                         |      |
|  |      |             | SHEET OF                      |      |

| REVISIONS |     |                         |          |          |       |           |
|-----------|-----|-------------------------|----------|----------|-------|-----------|
| ZONE      | LTR | DESCRIPTION             | DATE     | E.M.N.NO | DRAFT | CHKD APPD |
|           | X   | EXPERIMENTAL RELEASE    | 7/5/68   |          |       | C.V.      |
|           | Ø   | ORIG. RELEASE FOR PROD. | 11-26-68 | Ø        |       | R.G.      |



**SPECIFICATIONS**

**PRIMARY WINDING:**

VOLTAGE: 115/230 VAC  
 FREQUENCY: 50/60 Hz  
 PHASE: 1

**SECONDARY WINDING:**

**FULL LOAD:**  
 VOLTAGE: TERM (5-6) 18V, TERM (7-8) 20V, TERM (9-10) 18V  
 CURRENT: TERM (5-6) 300mA, TERM (7-8) 200mA, TERM (9-10) 2ADC  
**NO LOAD:**  
 VOLTAGE: TERM (5-6) 19V, TERM (7-8) 21V, TERM (9-10) 19V

ELECTRO-STATIC SHIELDING TO BE PROVIDED

**CASE DATA:**

HERMETICALLY SEALED  
 CASE TYPE: STEEL  
 CASE DIMENSIONS: SHOWN PICTORIALLY

**MOUNTING DATA:** SHOWN PICTORIALLY

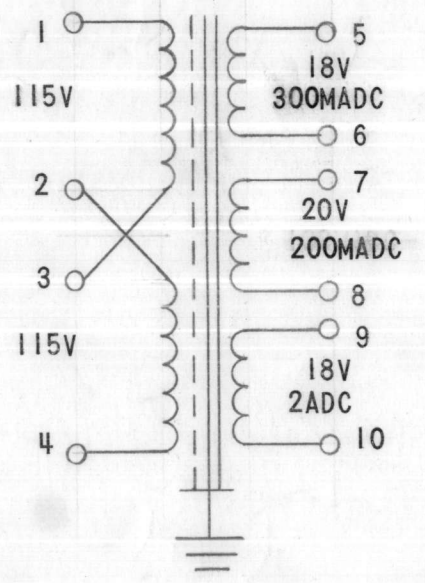
**TERMINAL DATA:**

NO. OF TERMINALS: 10  
 TYPE: SOLDER TYPE INSULATED

FINISH: SMOOTH GRAY ENAMEL (TMC SOEC S115) EXCEPT TERM ENDS.

MARKING: ALL TERMINALS TO BE METAL STAMPED.  
 MARKING TO BE PER TMC SPECS S566 AND S727.

**SCHEMATIC**



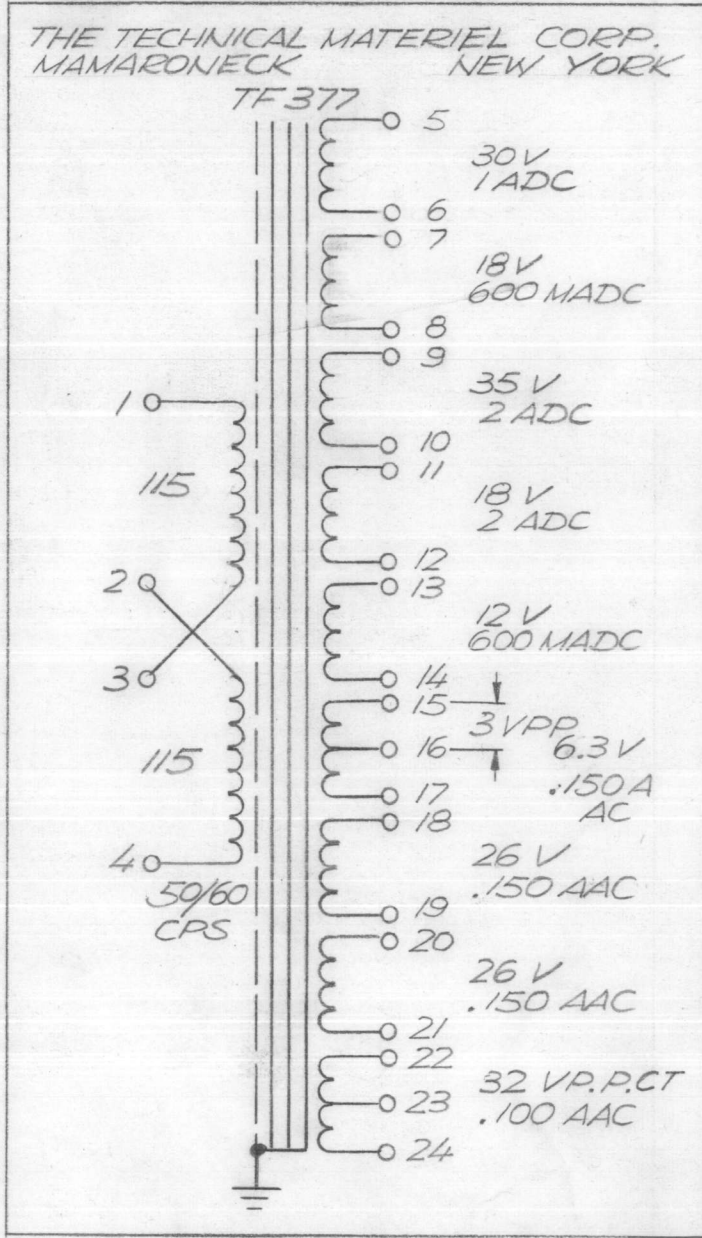
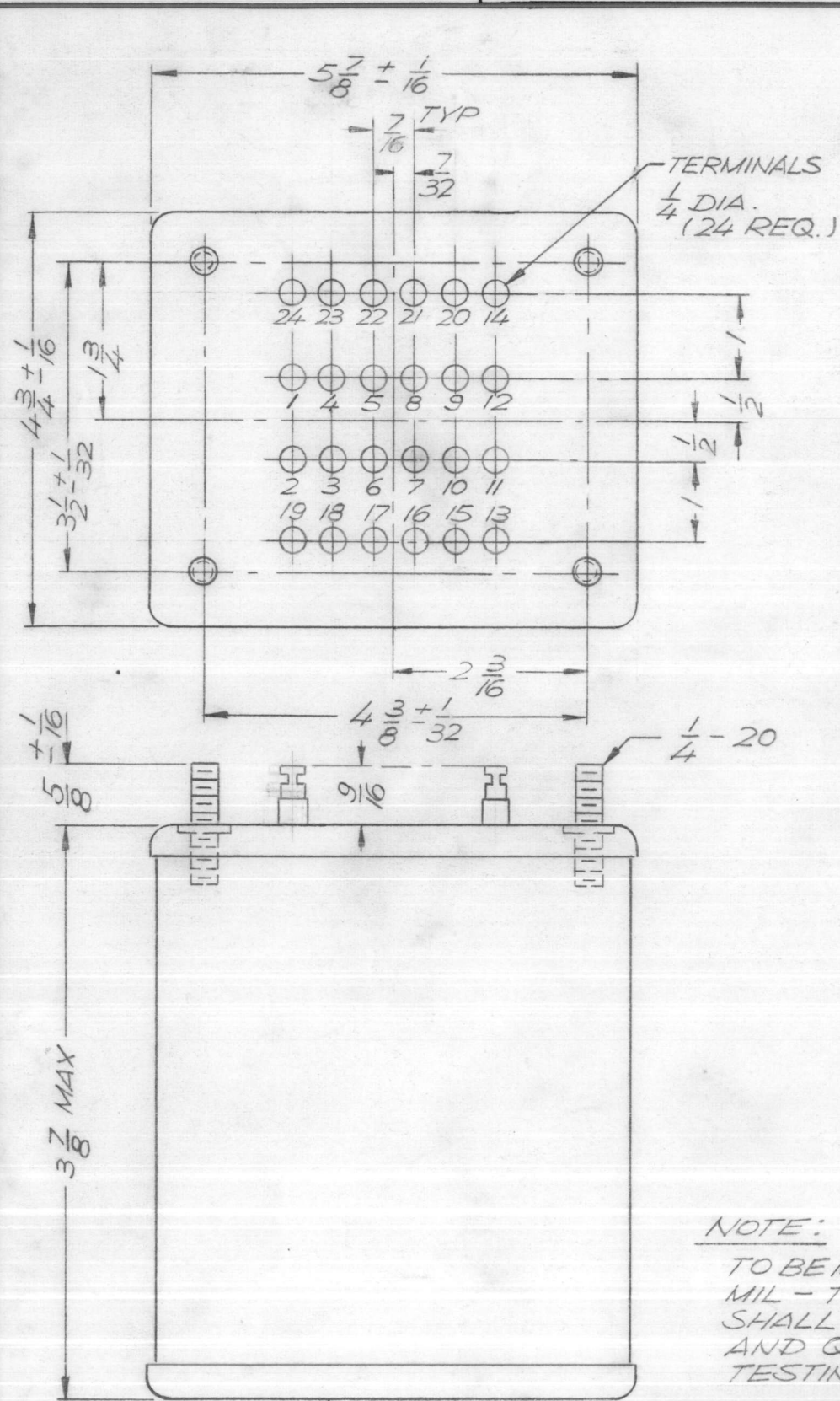
NOTE: TO BE MANUFACTURED IN ACCORDANCE WITH MIL-T-27A, EXCEPT THAT MIL-T-27A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED

| REQ'D   | ITEM            | PART NUMBER | DESCRIPTION | SYM. |
|---|-----------------|-------------|-------------|------|
| S. De MARCONI LIST OF MATERIAL  |                 |             |             |      |
| FINAL APPROVAL DATE 11/26/68<br>MECH. DES. DATE 11-26-68<br>ELECT. DES. DATE<br>CHECKED DATE 11/22/68<br>DRAWN DATE 5/21/68 |                 |             |             |      |
| THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK  |                 |             |             |      |
| TRANSFORMER, POWER, STEP-DOWN   |                 |             |             |      |
| SIZE  | CODE IDENT. NO. | DWG NO.     | ISSUE       |      |
| B   | 82679           | TF 376      | Ø           |      |
| SCALE   |                 | SHEET       |             | OF   |
|   |                 | 3           |             | 1    |

|             |                |           |
|-------------|----------------|-----------|
| QTY / UNIT  | MODEL USED ON  | ASS'Y NO. |
|             | RTPH-3         |           |
| APPLICATION |                |           |
| CODE        | 5401-30 (7995) |           |
| MATERIAL    |                |           |
| FINISH      |                |           |

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MARKING

**NOTE:**  
 TO BE MANUFACTURED IN ACC/W  
 MIL-T-27, EXCEPT THAT MIL-T-27  
 SHALL NOT APPEAR ON CASE  
 AND QUALIFICATION  
 TESTING IS NOT REQUIRED.

PLACE MARKING ON THIS END

|             |               |           |
|-------------|---------------|-----------|
| RTTD - 4    |               |           |
| QTY / UNIT  | MODEL USED ON | ASS'Y NO. |
| APPLICATION |               |           |
| CODE        | S401-30(7901) |           |

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| REVISIONS |     |                         |          |          |       |           |
|-----------|-----|-------------------------|----------|----------|-------|-----------|
| ZONE      | LTR | DESCRIPTION             | DATE     | E.M.N.NO | DRAFT | CHKD APPD |
|           | X   | EXP. RELEASE            | 11/12/68 |          | K.H.  |           |
|           | Ø   | ORIG. RELEASE FOR PROD. | 11-20-68 | Ø        | R.G.  | J.H.      |

PRIMARY WINDING:

VOLTAGE: 115/230  
 FREQUENCY: 50/60 HZ  
 PHASE: 1

SECONDARY WINDING:

FULL LOAD

VOLTAGE: AS SHOWN IN MARKING DETAIL

NO LOAD

VOLTAGE: TERM. (5-6) 31.2; (7-8) 18.6; (9-10) 36.1;  
 (11-12) 18.6; (13-14) 12.6; (15-16) 1.09;  
 (15-17) 6.55; (18-19) 26.8; (20-21) 26.8;  
 (22-23-24) 24 VCT

CURRENT:

BREAK DOWN VOLTAGE: 1000

**NOTE: ELECTRO-STATIC SHIELDING TO BE PROVIDED**  
**CASE DATA:**

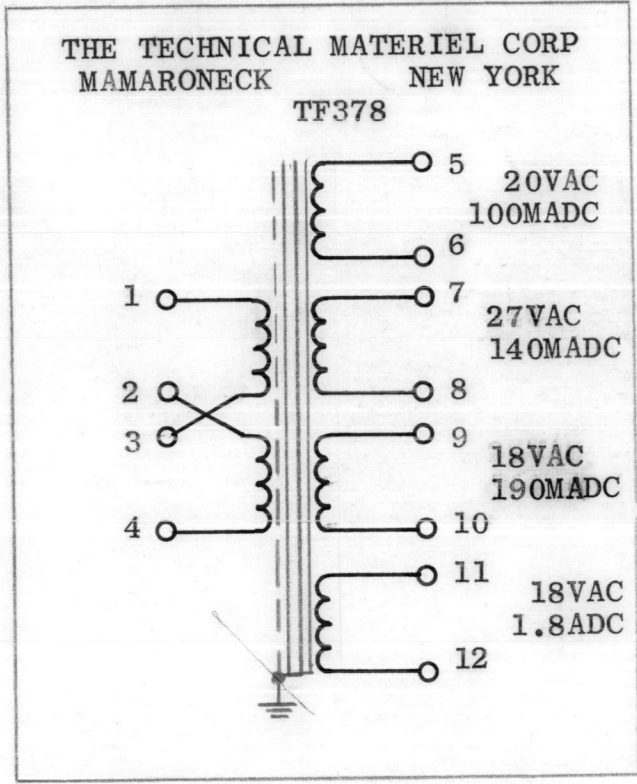
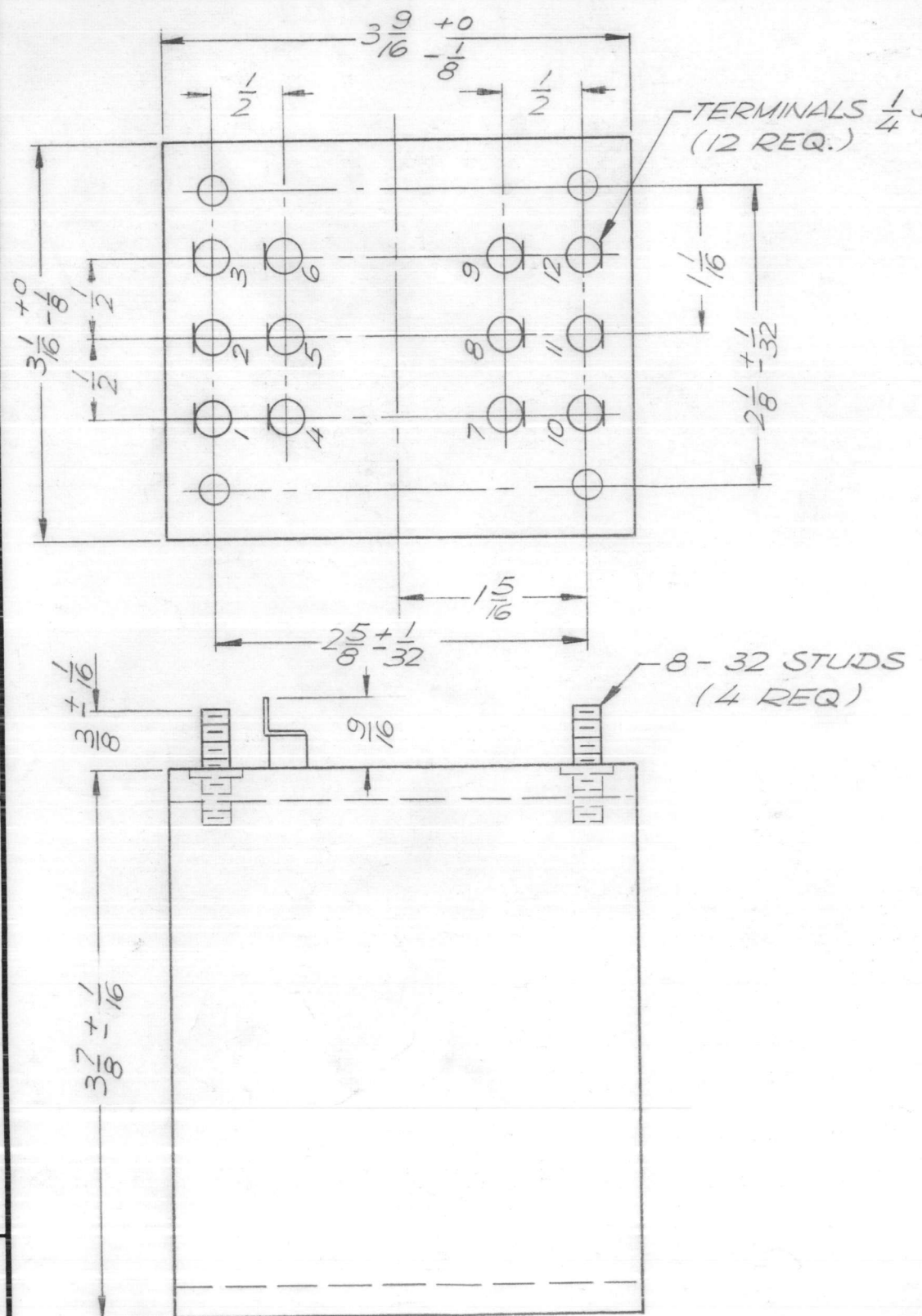
HERMETICALLY SEALED  
 CASE TYPE: STEEL  
 CASE DIMENSIONS: SHOWN PICTORALLY

TERMINAL DATA:

NO. OF TERMINALS: 24  
 TYPE: SOLDER TYPE INSULATED  
 FINISH: SMOOTH GRAY ENAMEL (TMC S115)  
 EXCEPT TERM.END  
 MARKING: ALL TERM. NOS. TO BE METAL STAMPED  
 SCHEMATIC DIAGRAM TO BE MARKED  
 IN BLACK AS PER TMC SPEC, S 727

| REQ'D  | ITEM            | PART NUMBER | DESCRIPTION | SYM. |
|--|-----------------|-------------|-------------|------|
| S. DeMARCO LIST OF MATERIAL                          |                 |             |             |      |
| THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |                 |             |             |      |
| TRANSFORMER, POWER, STEP-DOWN                        |                 |             |             |      |
| SIZE   | CODE IDENT. NO. | DWG NO.     | ISSUE       |      |
| B  | 82679           | TF 377      | Ø           |      |
| SCALE  | SHEET           |             |             | OF   |

| REVISIONS |     |                        |          |          |       |      |      |
|-----------|-----|------------------------|----------|----------|-------|------|------|
| ZONE      | LTR | DESCRIPTION            | DATE     | E.M.N.NO | DRAFT | CHKD | APPD |
|           | X   | EXP. RELEASE           | 11/13/68 |          |       | K.H. |      |
|           | Ø   | ORIG. RELEASE FOR PROD | 11.20.68 | Ø        |       | R.G. | J.W. |



**PRIMARY WINDING:**  
 VOLTAGE: 115/230 VAC  
 FREQUENCY: 50/60 Hz  
 PHASE: 1

**SECONDARY WINDING:**  
**FULL LOAD:**  
 VOLTAGE: TERM (5-6) 20, (7-8) 27, (9-10) 18, (11-12) 18  
 CURRENT: TERM (5-6) 100 MADC, (7-8) 140 MADC, (9-10) 190MADC, (11-12) 1.8 ADC

**NO LOAD:**  
 VOLTAGE: TERM (5-6) 21.2, (7-8) 28.9, (9-10) 19.6, (11-12) 19.6

NOTE: ELECTRO-STATIC SHIELDING TO BE PROVIDED

BREAKDOWN VOLTAGE: 1000

CASE DATA:  
 HERMETICALLY SEALED:  
 CASE TYPE: STEEL  
 CASE DIMENSIONS: SHOWN PICTORIALY

MOUNTING DATA: SHOWN PICTORIALY

TERMINAL DATA:  
 NO. OF TERM: 12  
 TYPE: SOLDER TYPE INSULATED

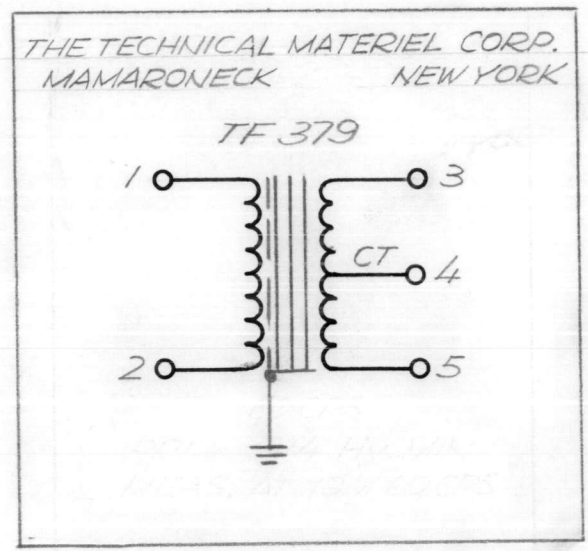
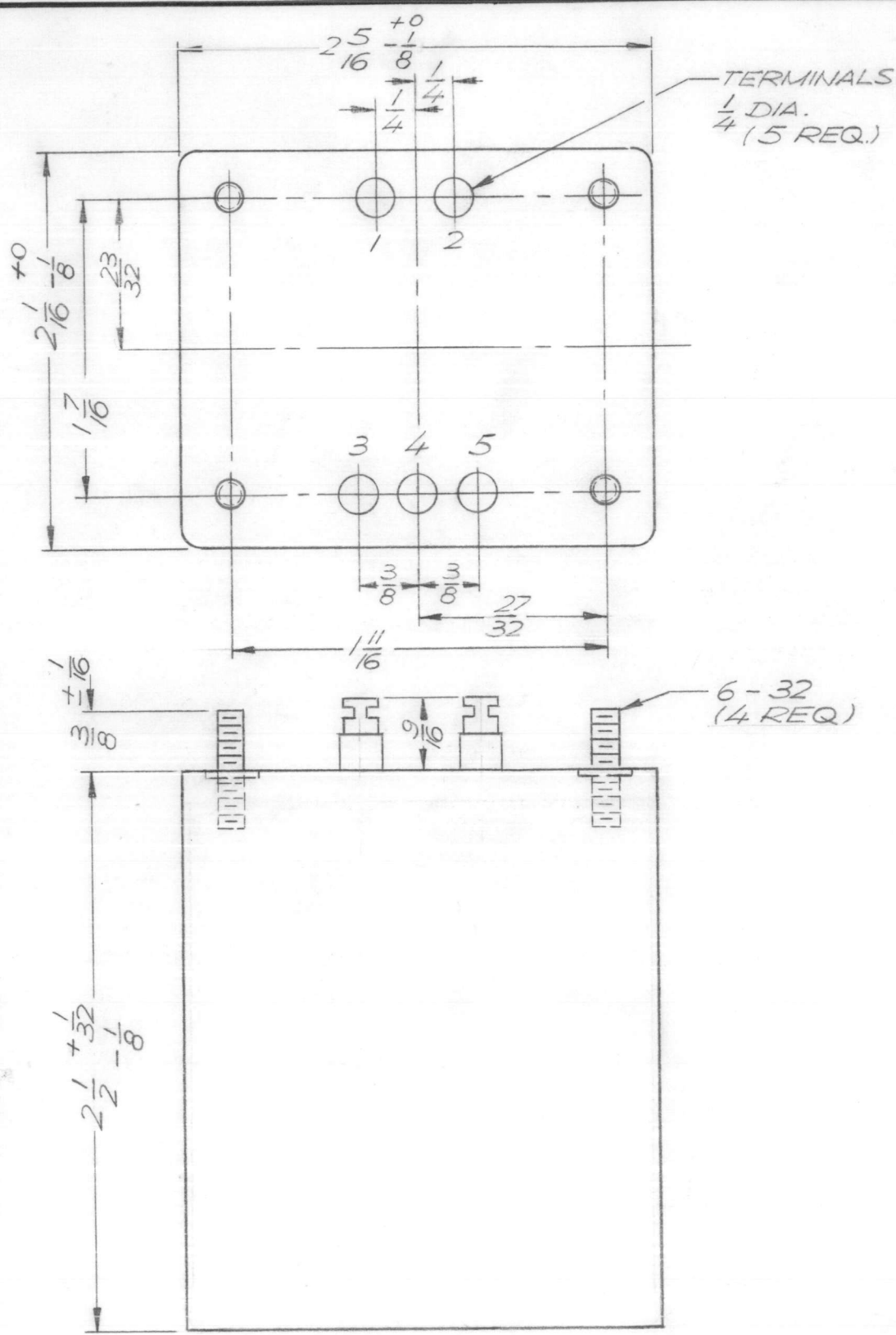
FINISH: SMOOTH GRAY ENAMEL (TMC SPEC S115) EXCEPT TERM END

NOTE: TO BE MANUFACTURED IN ACCORDANCE WITH MIL-T-27 EXCEPT THAT MIL-T-27 SHALL NOT APPEAR ON CASE OR QUALIFICATION TESTING IS NOT REQUIRED

|   |               |           |
|---|---------------|-----------|
| RTMU41 / RTMU42   |               |           |
| QTY / UNIT  | MODEL USED ON | ASS'Y NO. |
| APPLICATION   |               |           |
| CODE  | S401-30(7739) |           |
| NOTICE TO PERSONS RECEIVING THIS DRAWING<br>THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time. |               |           |

|   |  |
|---|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |  |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  | FRACTIONS<br>1/64<br>ANGLES<br>0° -30' |
| MATERIAL  |  |
| FINISH<br>GRAY  |  |

| REQ'D                         | ITEM            | PART NUMBER | DESCRIPTION      | SYM. |
|-------------------------------|-----------------|-------------|------------------|------|
| S. De MARCO LIST OF MATERIAL  |                 |             |                  |      |
| FINAL APPROVAL<br>S. De Marco |                 |             | DATE<br>11/19/68 |      |
| MECH. DES.                    |                 |             | DATE             |      |
| ELECT. DES.                   |                 |             | DATE             |      |
| CHECKED<br>JAO                |                 |             | DATE<br>11-19-68 |      |
| DRAWN<br>K. Hill              |                 |             | DATE<br>11/13/68 |      |
| SIZE                          | CODE IDENT. NO. | DWG NO.     | ISSUE            |      |
| B                             | 82679           | TF378       | Ø                |      |
| SCALE                         |                 |             | SHEET OF         |      |



| REVISIONS |     |                        |          |          |       |           |
|-----------|-----|------------------------|----------|----------|-------|-----------|
| ZONE      | LTR | DESCRIPTION            | DATE     | E.M.N.NO | DRAFT | CHKD APPD |
|           | X   | EXP. RELEASE           | 11/12/68 |          | K.H.  |           |
|           | Ø   | ORIG. RELEASE FOR PROD | 11-20-68 | Ø        | R.G.  | J.O.      |

ELECTRICAL SPECIFICATION:

PRIMARY WINDING:  
TERM 1 & 2: 1,000 TURNS # 34 WIRE

SECONDARY WINDING:  
3;4&5: 500 TURNS W/CT  
#36 WIRE BIFILAR WOUND

FREQUENCY: 60 CPS

CURRENT:

BREAKDOWN VOLTAGE: 500 VOLTS

NOTE: ELECTRO-STATIC SHIELDING TO BE PROVIDED

CASE DATA:  
HERMETICALLY SEALED:  
MATERIAL: STEEL  
PHYSICAL SIZE: SHOWN PICTORIALY  
FINISH: SMOOTH GRAY ENAMEL (TMC S115) EXCEPT TERM END

TERMINALS DATA:  
QTY: 5  
TYPE: SOLDER TYPE, INSULATED

MARKING:

ALL TERM NOS. TO BE METAL STAMPED, SCHEMATIC DIAGRAM TO BE MARKED IN BLACK ON END OPPOSITE TERMINALS, AS PER TMC SPEC. S727

|             |                |           |
|-------------|----------------|-----------|
| QTY / UNIT  | MODEL USED ON  | ASS'Y NO. |
|             | RTTD - 4       |           |
| APPLICATION |                |           |
| CODE        | S401-30 (7839) |           |

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|   |  |
|---|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |  |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  | FRACTIONS<br>1/64<br>ANGLES<br>0° -30' |
| MATERIAL  |  |
| FINISH  |  |

| REQ'D                         | ITEM | PART NUMBER     | DESCRIPTION      | SYM.   |
|-------------------------------|------|-----------------|------------------|--|
| S. DE MARCO LIST OF MATERIAL  |      |                 |                  |  |
| FINAL APPROVAL<br>S. De Marco |      |                 | DATE<br>11/19/68 | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |
| MECH. DES.                    |      |                 | DATE             |  |
| ELECT. DES.                   |      |                 | DATE             | TRANSFORMER, POWER, SERVO                            |
| CHECKED<br>J.A.D.             |      |                 | DATE<br>11-19-68 |  |
| DRAWN<br>L. Hill              |      |                 | DATE<br>11/2/68  | SIZE<br>B  |
|                               |      |                 |                  |  |
|                               |      | CODE IDENT. NO. | DWG NO.          | ISSUE  |
|                               |      | 82679           | TF 379           | Ø  |
| SCALE                         |      |                 | SHEET            | OF   |

5

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1

| REVISIONS |     |                       |          |          |       |           |
|-----------|-----|-----------------------|----------|----------|-------|-----------|
| ZONE      | LTR | DESCRIPTION           | DATE     | E.M.N.NO | DRAFT | CHKD APPD |
|           | X   | EXPERIMENTAL RELEASE  | 11/15/68 |          | C.V.  |           |
|           | Ø   | ORIG. RELEASE         | 12-3-68  |          |       | JH        |
|           | A   | MARKING & FINISH REV. | 5.8.69   | 19413    | GE    | JH FFB    |

SPECIFICATIONS

ELECTRICAL:

PRIMARY: 208 VAC, 60 CPS  
INSULATION TEST VOLTAGE:

SECONDARY: 28 VAC RMS 2 ADC

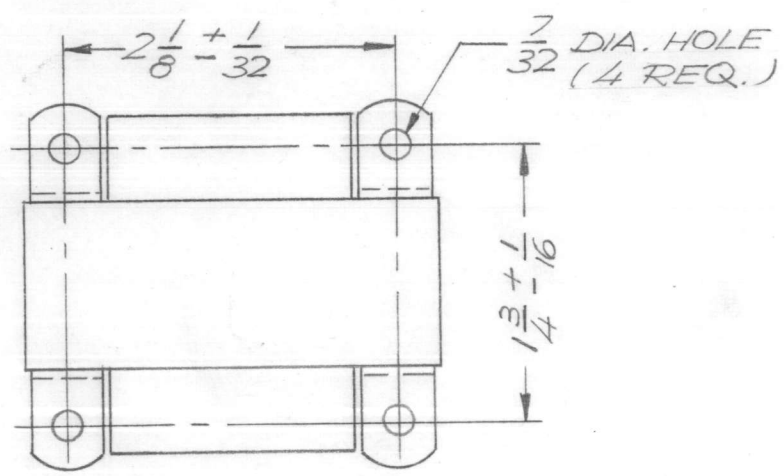
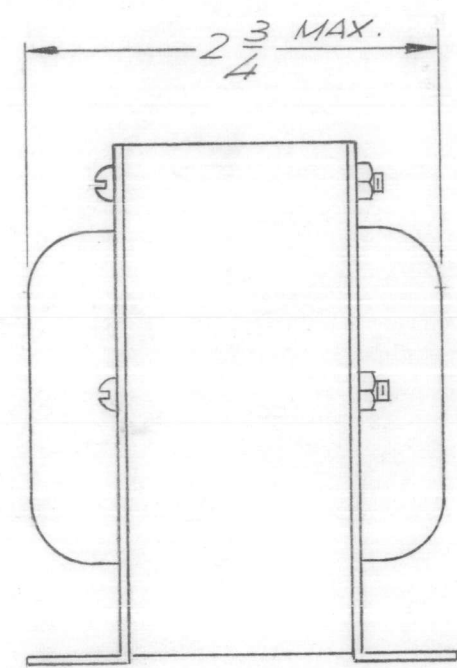
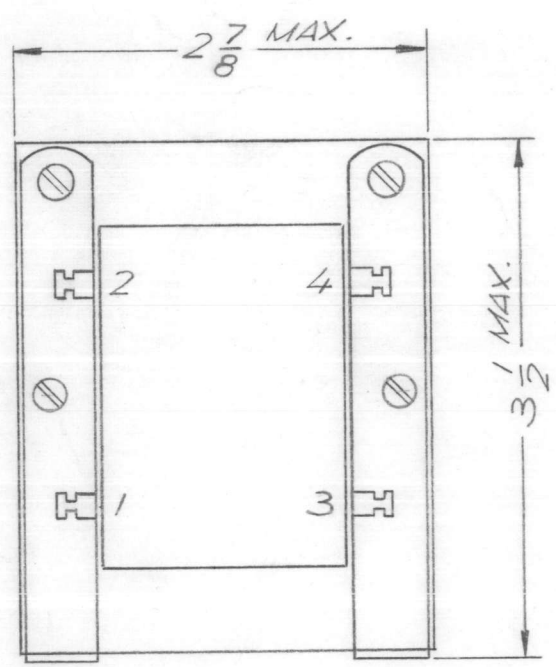
MECHANICAL:

CASE: OPEN FRAME  
FINISH: BLACK ENAMEL  
DIMENSIONS: SHOWN PICTORIALLY  
TERMINALS: LUGS (OFF OF COIL)

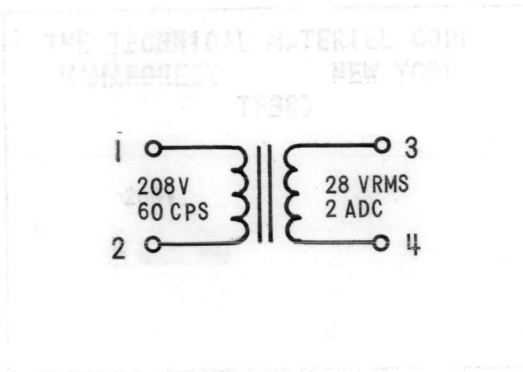
MARKING: TERMINAL NUMERALS, WHITE GOTHIC

- A. SCHEMATIC AND THE IDENTIFICATION TO BE PLACED ON TRANSFORMER
- B. MARKING TO BE AS PER THE SPEC SPEC
- C. LETTER AND NUMERALS TO BE, GOTHIC AND MARKING TO BE BLACK.

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL-SPEC T-27-A EXCEPT THAT MIL-SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING NOT REQUIRED



TO BE PLACED ON TOP OF TRANSFORMER



TO BE PLACED ON TOP OF TRANSFORMER

| REQ'D                    | ITEM | PART NUMBER | DESCRIPTION | SYM.   |
|--------------------------|------|-------------|-------------|--|
| BUDETTI LIST OF MATERIAL |      |             |             |  |
| FINAL APPROVAL           |      |             | DATE        | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |
| MECH. DES.               |      |             | DATE        |  |
| ELECT. DES.              |      |             | DATE        |  |
| CHECKED                  |      |             | DATE        |  |
| DRAWN                    |      |             | DATE        | TRANSFORMER, POWER                                   |
| SIZE                     |      |             | DATE        |  |
| CODE IDENT. NO.          |      | DWG NO.     | ISSUE       |  |
| B 82679                  |      | TF 380      | A           |  |
| SCALE                    |      | SHEET       |             | OF   |

|             |               |                |
|-------------|---------------|----------------|
|             | GPT 40KEL     | AX688          |
|             | GPT 10KRL     |                |
| QTY / UNIT  | MODEL USED ON | ASS'Y NO.      |
| APPLICATION |               |                |
|             | CODE          | S401-30 (8150) |

|   |              |
|---|--------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |              |
| DECIMALS  | FRACTIONS    |
| .X ± .05  | 1/64         |
| .XX ± .01   | TOLS. ANGLES |
| .XXX ± .005   | 0° -30'      |
| MATERIAL  |              |
| FINISH  |              |

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5

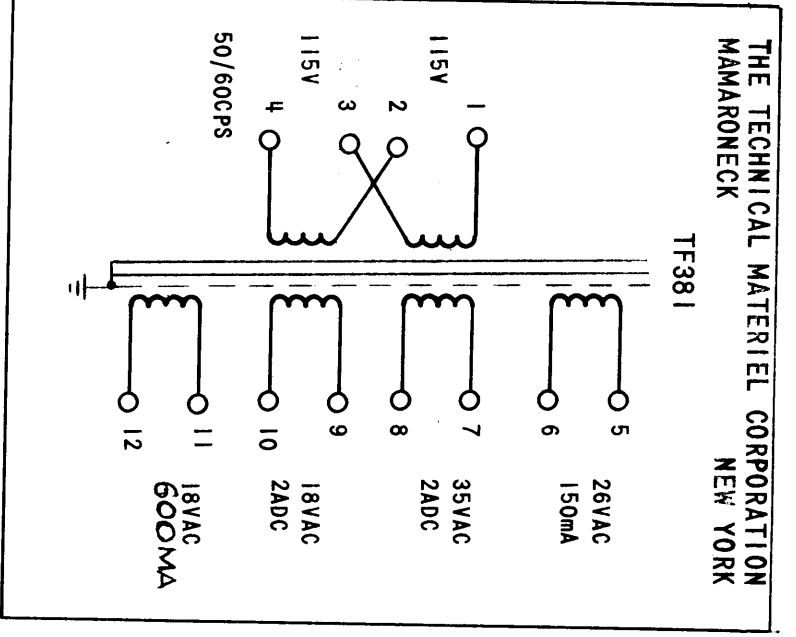
4

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2

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| REVISIONS |     |                        |         |           |       |      |      |
|-----------|-----|------------------------|---------|-----------|-------|------|------|
| ZONE      | LTR | DESCRIPTION            | DATE    | E.M.N. NO | DRAFT | CHKD | APPD |
|           | X   | EXP RELEASE            | 3/18/69 |           | GE    |      |      |
|           | Ø   | ORIG. RELEASE FOR PROD | 11/1/69 |           | RG    |      |      |
|           | Δ   | 600MA WAS 6ADC         | 5.8.69  | 19408     | GE    |      |      |



MARKING:  
ALL TERMINAL NUMBERS TO BE METAL STAMPED  
SCHEMATIC DIAGRAM TO BE MARKED IN BLACK  
AS PER TMC SPEC S727

NOTE: TO BE MANUFACTURED IN ACCORDANCE WITH MIL-T-27  
EXCEPT THAT MIL-T-27 SHALL NOT APPEAR ON CASE OR  
QUALIFICATION TESTING IS NOT REQUIRED.

SPECIFICATIONS

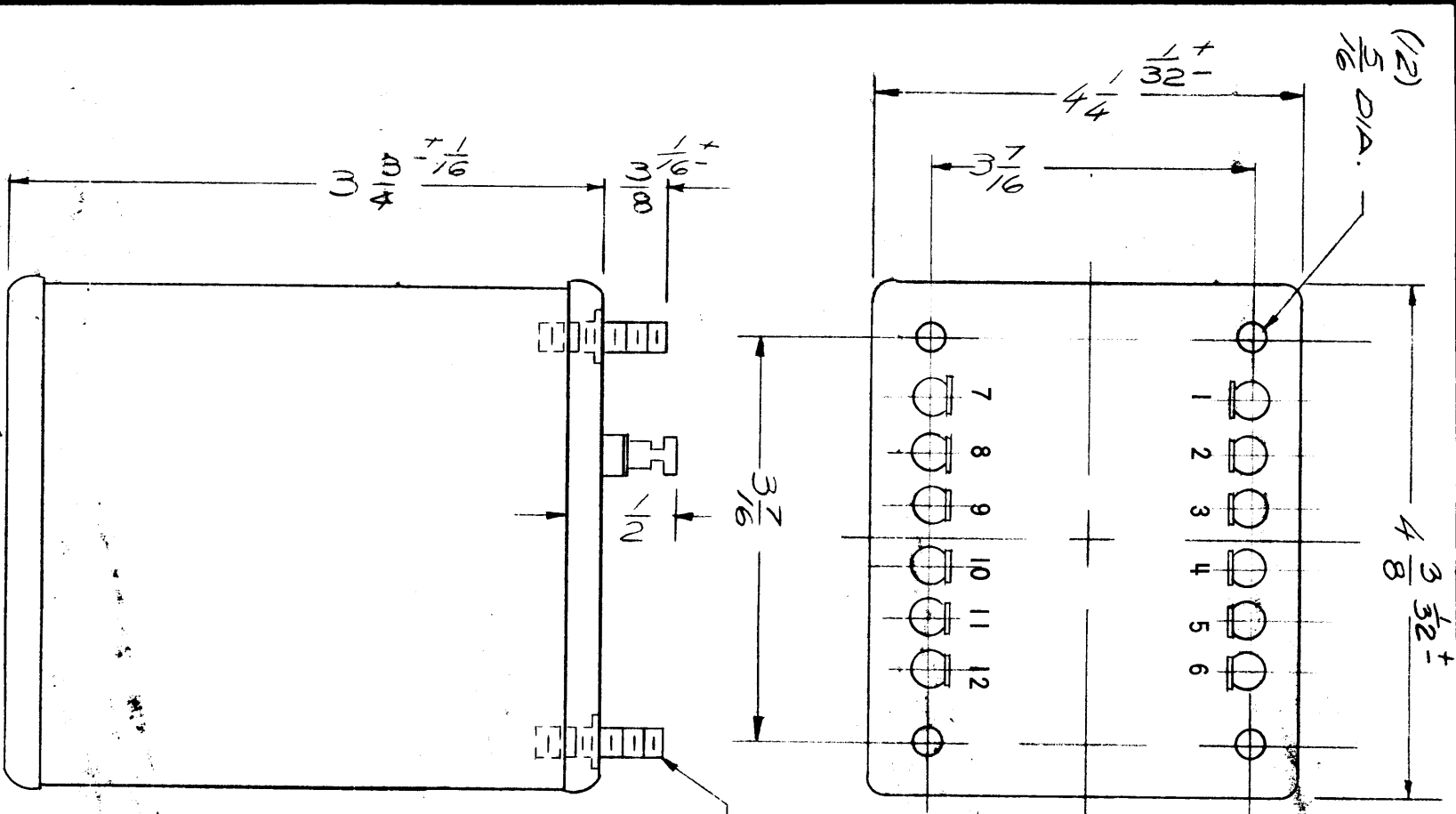
PRIMARY WINDING:  
VOLTAGE: 115/230 VAC  
FREQUENCY: 50/60 CPS  
PHASE: SINGLE

SECONDARY WINDING:  
FULL LOAD:  
VOLTAGE: TERM (5-6) 26V  
(7-8) 35V  
(9-10) 18V  
(11-12) 18V  
CURRENT: TERM (5-6) 150 mA  
(7-8) 2A  
(9-10) 2A  
(11-12) 600 mA

NOTE: ELECTRO-STATIC SHIELDING TO BE PROVIDED  
BREAKDOWN VOLTAGE: 1000

CASE DATA:  
HERMETICALLY SEALED:  
CASE TYPE: STEEL  
CASE DIMENSIONS: SHOWN PICTORIALY

MOUNTING DATA: SHOWN PICTORIALY  
TERMINAL DATA: SHOWN PICTORIALY  
NO. OF TERM: 12  
TYPE: SOLDER TYPE INSULATED  
FINISH: SMOOTH GRAY ENAMEL (TMC SPEC S115) EXCEPT TERM END



PLACE SCHEMATIC DIAGRAM  
ON THIS END

|             |               |          |
|-------------|---------------|----------|
| QTY / UNIT  | MODEL USED ON | ASSY NO. |
|             | RTTD-5, SA    |          |
| APPLICATION |               |          |
| CODE        |               |          |

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|             |           |
|-------------|-----------|
| DECIMALS    | FRACTIONS |
| X ± .05     | 1/64      |
| .XX ± .01   | ANGLES    |
| .XXX ± .005 | 0° - 30°  |

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
AND INCLUDE CHEMICALLY APPLIED  
OR PLATED FINISHES

| REQ'D ITEM   | PART NUMBER | DESCRIPTION | SYM. |
|--|-------------|-------------|------|
| LIST OF MATERIAL                                     |             |             |      |
| THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |             |             |      |
| TRANSFORMER, POWER                                   |             |             |      |

|                |                 |          |
|----------------|-----------------|----------|
| RECD           | DATE            | BY       |
| S. DeMARCO     | 3/18/69         |          |
| FINAL APPROVAL | DATE            | BY       |
|                | 3/18/69         |          |
| MECH. DES.     | DATE            | BY       |
|                | 3/18/69         |          |
| ELECT. DES.    | DATE            | BY       |
|                | 3/18/69         |          |
| CHECKED        | DATE            | BY       |
|                | 3/18/69         |          |
| DRAWN          | DATE            | BY       |
| G. Frankel     | 3/18/69         |          |
| SCALE          | N/T/S           |          |
| SIZE           | CODE IDENT. NO. | DWG. NO. |
| B              | 82679           | TF 381   |
| SHEET          | 381             | ISSUE    |
| OF             |                 | A        |

REVISIONS

| ZONE | LTR | DESCRIPTION           | DATE     | E.M.N.NO | DRAFT | CHKD | APPD |
|------|-----|-----------------------|----------|----------|-------|------|------|
|      | X   | EXP. RELEASE          | 4/1/69   | X        | KLK   |      |      |
|      | Ø   | ORIG RELEASE FOR PROD | 7/17/69  |          | CV    |      |      |
|      | A   | TERMINALS REVISED     | 12-22-69 | 2343     | 6 DL  | CL   |      |

SPECIFICATIONS

ELECTRICAL:

PRIMARY WINDING:  
 VOLTAGE: TERMINALS 1,2,3,4 115/230V  
 FREQUENCY: 50/60 CPS  
 PHASE: 1  
 INSULATION TEST VOLTAGE: 1000 VDC

SECONDARY WINDING:

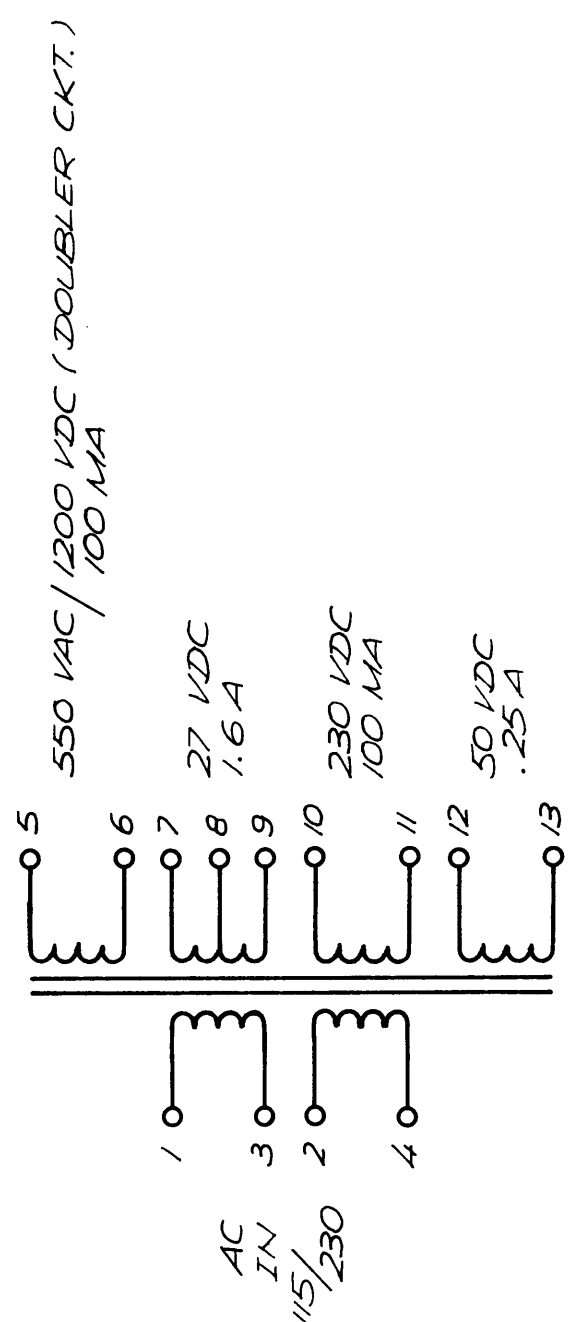
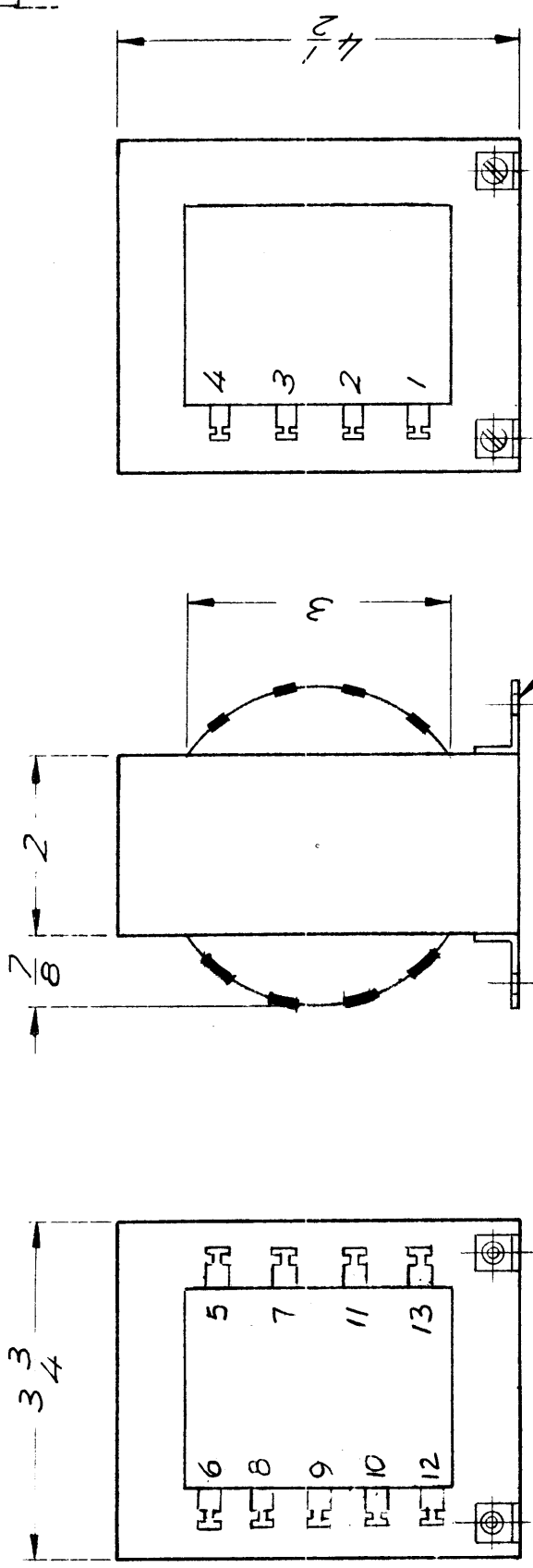
VOLTAGE: 5,6 - 550VAC  
 7,8,9-27VDC  
 10,11-230VDC  
 12,13-50VDC

MECHANICAL:

CASE: OPEN  
 FINISH: BLACK MATT  
 DIMENSIONS: SHOWN PICTORIALY  
 TERMINALS: SOLDER TYPE

STAMPING: ACCORDING TO TMC SPEC S727 WHITE  
 GOTHIC LETTERING AND LINE WORK'

NOTE: TO BE MANUFACTURED IN ACCORDANCE WITH  
 MIL-T-27 EXCEPT THAT MIL-T-27 SHALL NOT  
 APPEAR ON CASE OR QUALIFICATION TESTING  
 IS NOT REQUIRED.



| REQ'D ITEM   | PART NUMBER     | DESCRIPTION | SYM.  |
|--|-----------------|-------------|-------|
| LIST OF MATERIAL                                     |                 |             |       |
| THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |                 |             |       |
| TRANSFORMER, POWER                                   |                 |             |       |
| SIZE   | CODE IDENT. NO. | DWG NO.     | ISSUE |
| B  | 82679           | TF 382      | A     |
| SCALE  | SHEET           |             | OF    |
|  | 1               |             | 1     |

| QTY / UNIT   | MODEL USED ON | ASSY NO. |
|--|---------------|----------|
| MTR ( ) - 150  | APPLICATION   |          |
| CODE   |               |          |
| <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES</p> <p>DECIMALS FRACTIONS<br/>                 .X ± .05 TOLS. 1/64<br/>                 .XX ± .01 ANGLES 0°-30'<br/>                 .XXX ± .005</p> <p>MATERIAL FINISH 5401-30 (8352)</p>  |               |          |
| <p>NOTICE TO PERSONS RECEIVING THIS DRAWING<br/>                 THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.</p> |               |          |

| REVISIONS |              |                     |         |          |       |           |
|-----------|--------------|---------------------|---------|----------|-------|-----------|
| ZONE      | LTR          | DESCRIPTION         | DATE    | E.M.N.NO | DRAFT | CHKD APPD |
|           | X            | EXP. RELEASE        | 12/1/69 |          |       |           |
|           | <del>8</del> | ORIGINAL RELEASE    | 1/14/70 |          |       |           |
|           | A            | ADD SPARE PARTS NTE | 3-27-72 | 20562    | GE    | el el     |

FOR SPARE PARTS USE ONLY

REPLACED BY TF 421

ELECT. SPECS:

PRIMARY WINDING  
 VOLTAGE: 200 - 250 VAC  
 FREQUENCY: 50/60 HZ  
 PHASE: SINGLE  
 SECONDARY WINDING  
 VOLTAGE: 6.2 VAC C.T.  
 CURRENT: 125 A  
 INSULATION TEST VOLTAGE: 1500 VRMS

MECH. SPECS:

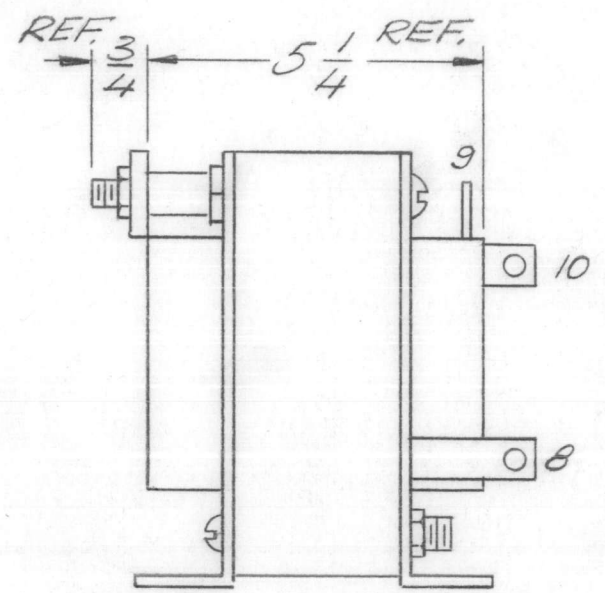
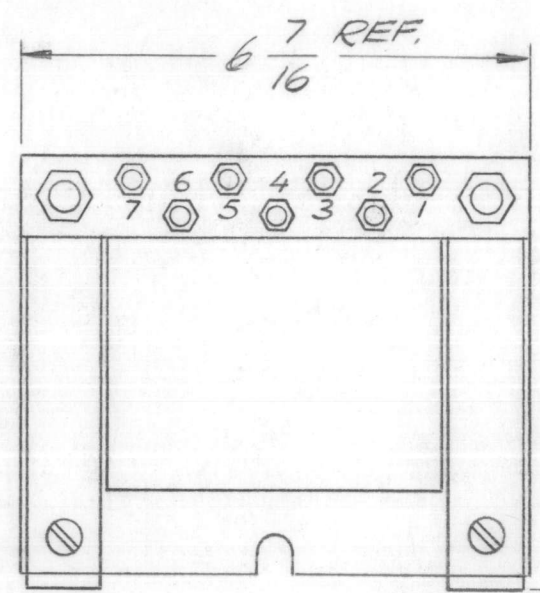
CASE: OPEN FRAME  
 FINISH: BLACK MATT EXCEPT TERMINALS  
 DIMENSIONS: SHOWN PICTORIALLY  
 TERMINALS: PRIMARY: 10-32 THREADED STUD  
 SECONDARY: 8 + 10, COPPER BAR WITH  
 3/16 DIA. HOLES  
 9, SOLDER TYPE LUG.

STAMPING:

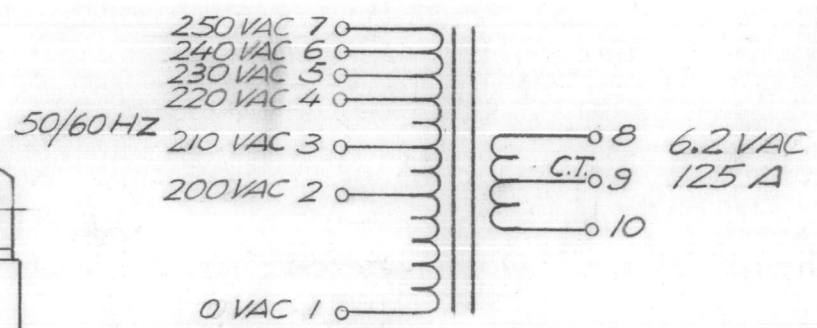
ACCORDING TO TMC SPEC. S 727 WHITE GOTHIC  
 LETTERING AND LINE WORK.  
 SCHEMATIC TO BE PLACED AS SHOWN.

NOTE:

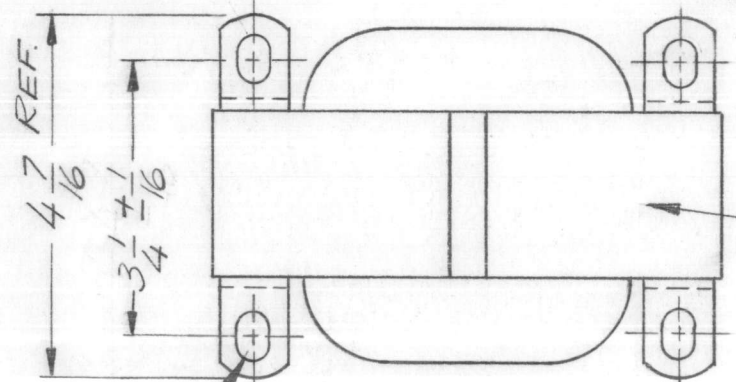
MANUFACTURED IN ACCORDANCE WITH MIL - SPEC.  
 T-27-A, EXCEPT THAT MIL - SPEC. T-27-A  
 SHALL NOT APPEAR ON THE CASE AND QUALIFICATION  
 TESTING IS NOT REQUIRED.



THE TECHNICAL MATERIEL CORP.  
 MAMARONECK NEW YORK  
 TF 383



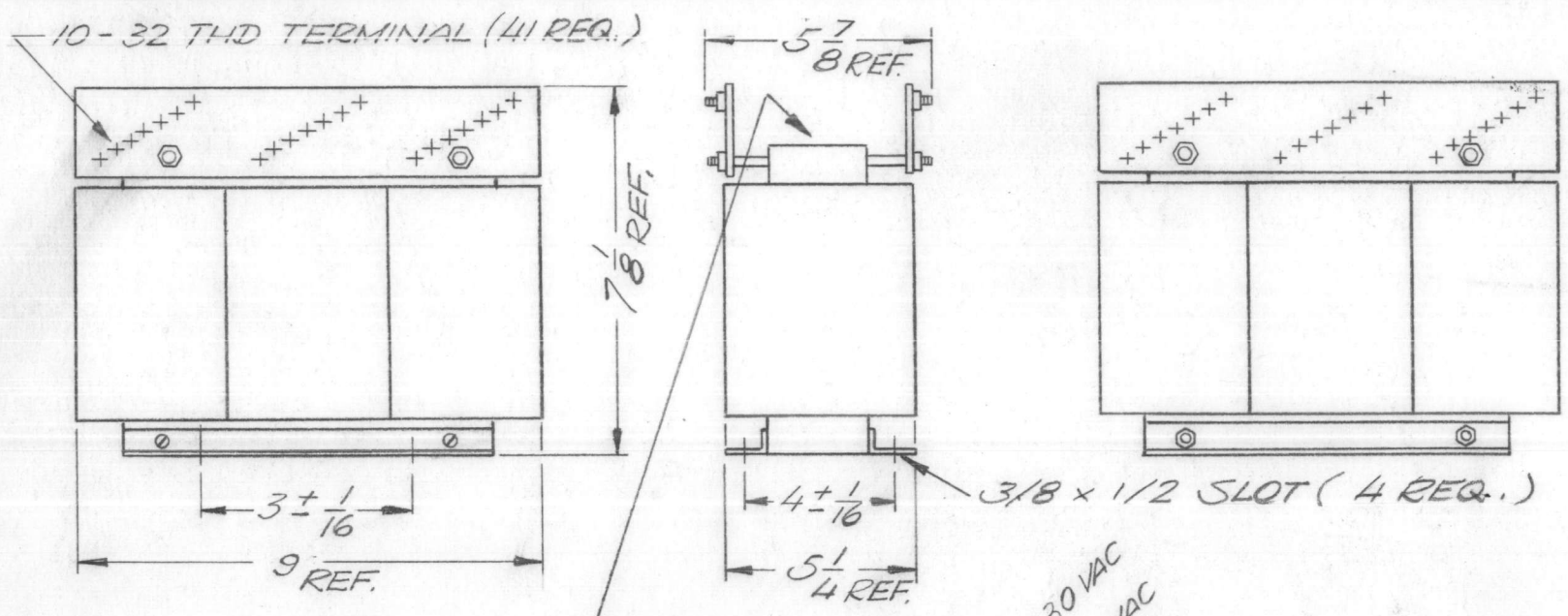
TO BE PLACED  
 IN THIS AREA



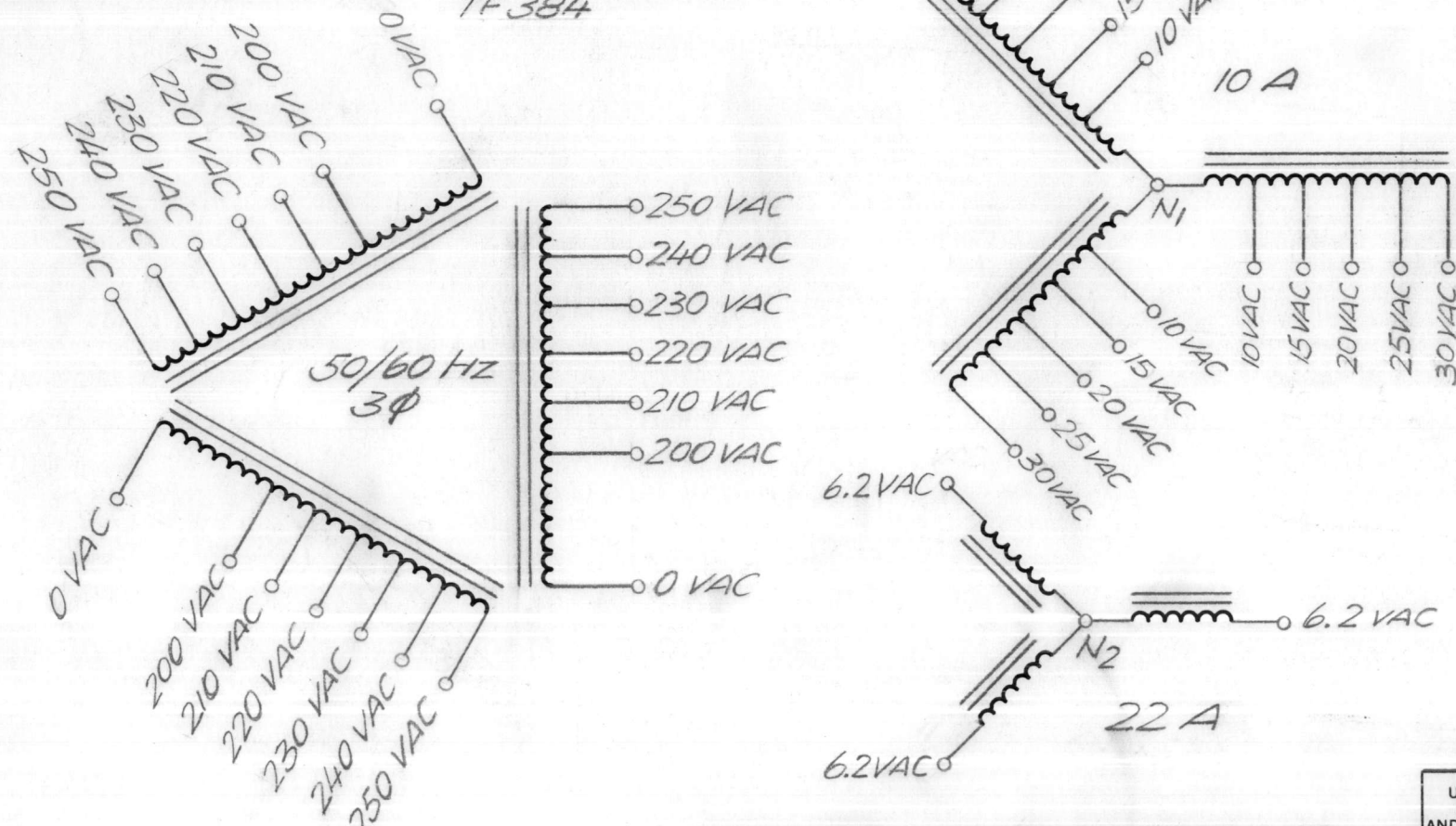
| REQ'D  | ITEM            | PART NUMBER | DESCRIPTION | SYM. |
|--|-----------------|-------------|-------------|------|
| LIST OF MATERIAL                                     |                 |             |             |      |
| THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |                 |             |             |      |
| TRANSFORMER, FILAMENT                                |                 |             |             |      |
| SIZE   | CODE IDENT. NO. | DWG NO.     | ISSUE       |      |
| B  | 82679           | TF 383      | A           |      |
| SCALE  | SHEET           |             | OF          |      |

|             |               |               |
|-------------|---------------|---------------|
| 1           | PALA-10K      | AP 148        |
| QTY / UNIT  | MODEL USED ON | ASS'Y NO.     |
| APPLICATION |               |               |
|             | CODE          | 5401-30(8495) |

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MAMARONECK NEW YORK  
TF 384



| REVISIONS |     |                  |         |          |       |           |
|-----------|-----|------------------|---------|----------|-------|-----------|
| ZONE      | LTR | DESCRIPTION      | DATE    | E.M.N.NO | DRAFT | CHKD APPD |
|           | X   | EXP. RELEASE     | 1/8/70  |          |       |           |
|           | Ø   | ORIGINAL RELEASE | 1/21/70 |          |       |           |

**ELECT. SPECS.**  
 PRIMARY WINDING  
 VOLTAGE - 200 - 250 VAC  
 FREQUENCY - 50/60 HZ  
 PHASE - 3  
 SECONDARY WINDING # 1  
 VOLTAGE - 10 - 30 VAC  
 CURRENT - 10 AAC  
 SECONDARY WINDING # 2  
 VOLTAGE - 6.2 VAC  
 CURRENT - 22 AAC  
 INSULATION TEST - 1500 V RMS

**MECH. SPECS**  
 CASE - OPEN FRAME  
 FINISH - BLACK MATT EXCEPT TERMINALS  
 DIMENSIONS - SHOWN PICTORIALLY  
 TERMINALS - 10-32 THREADS

**STAMPING**  
 ACCORDING TO TMC SPEC. S-727 WHITE  
 GOTHIC LETTERING AND LINE WORK.  
 SCHEMATIC TO BE PLACED AS SHOWN.

**NOTE:** MANUFACTURED IN ACCORDANCE WITH MIL-SPEC T-27-A EXCEPT THAT MIL-SPEC T-27-A SHALL NOT APPEAR ON THE CASE AND QUALIFICAT. TESTING IS NOT REQUIRED

|             |               |                |
|-------------|---------------|----------------|
| 1           | PALA-10K      | AP 148         |
| QTY / UNIT  | MODEL USED ON | ASS'Y NO.      |
| APPLICATION |               |                |
|             | CODE          | 5401-30 (8549) |

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|   |  |
|---|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES |  |
| DECIMALS<br>.X ± .05<br>.XX ± .01<br>.XXX ± .005  | FRACTIONS<br>1/64<br>ANGLES<br>0° .30' |
| MATERIAL  | FINISH                                 |

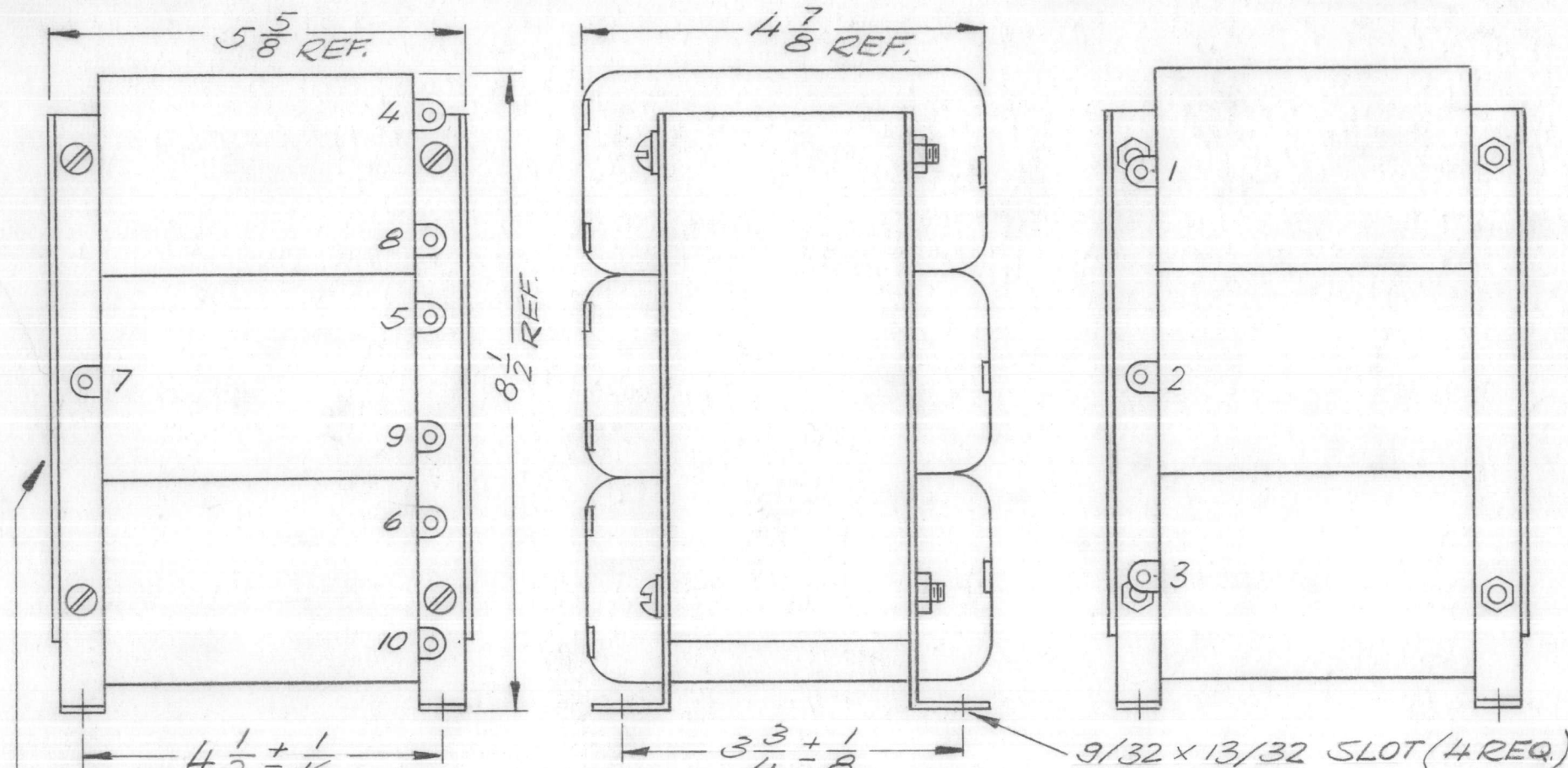
| REQ'D  | ITEM            | PART NUMBER | DESCRIPTION | SYM. |
|--|-----------------|-------------|-------------|------|
| LIST OF MATERIAL                                     |                 |             |             |      |
| THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |                 |             |             |      |
| TRANSFORMER, POWER                                   |                 |             |             |      |
| SIZE   | CODE IDENT. NO. | DWG NO.     | ISSUE       |      |
| B  | 82679           | TF 384      | Ø           |      |
| SCALE  |                 |             | SHEET       | OF   |

|                |      |
|----------------|------|
| FINAL APPROVAL | DATE |
| MECH. DES.     | DATE |
| ELECT. DES.    | DATE |
| CHECKED        | DATE |
| DRAWN          | DATE |



REVISIONS

| ZONE | LTR | DESCRIPTION      | DATE    | E.M.N.NO | DRAFT | CHKD | APPD |
|------|-----|------------------|---------|----------|-------|------|------|
|      | X   | EXP. RELEASE     |         |          |       |      |      |
|      | Ø   | ORIGINAL RELEASE | 1/4/70  |          | W     |      |      |
|      | A   | 4 1/2 WAS 3 3/4  | 6-28-72 | 20768    | GE    | Ø    | Ø    |



THE TECHNICAL MATERIEL CORP.  
MAMARONECK NEW YORK  
TF 386

ELECT. SPECS

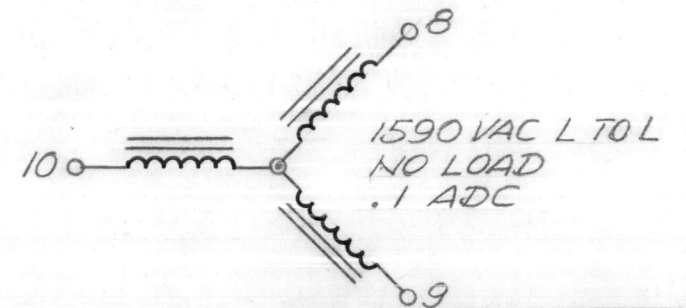
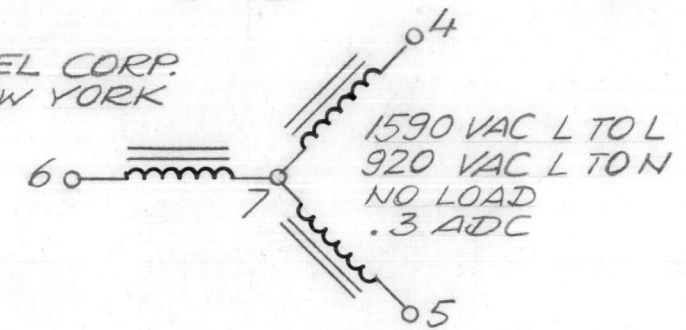
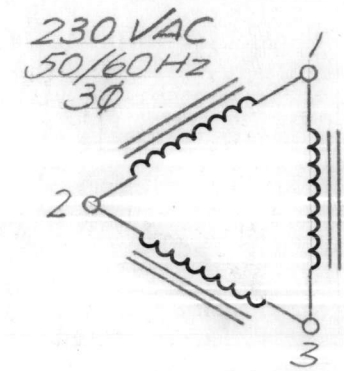
PRIMARY WINDING  
VOLTAGE: 230 VAC  
FREQUENCY: 50/60 HZ  
PHASE: 3  
SECONDARY WINDING #1  
VOLTAGE: 1590 VAC LINE TO LINE  
920 VAC LINE TO NEUTRAL } NO LOAD  
CURRENT: .3 ADC  
SECONDARY WINDING #2  
VOLTAGE: 1590 VAC LINE TO LINE  
CURRENT: .1 ADC  
INSULATION TEST: PRIMARY 1500 VRMS  
SECONDARY 4500 VRMS

MECH. SPECS

CASE: OPEN FRAME  
FINISH: BLACK MATT EXCEPT TERMINALS  
DIMENSIONS: SHOWN PICTORIALY  
TERMINALS: SOLDER LUG  
STAMPING:  
ACCORDING TO TMC SPEC. S 727 WHITE  
GOTHIC LETTERING AND LINE WORK.  
SCHEMATIC TO BE PLACED AS SHOWN.

NOTE:

MANUFACTURED IN ACCORDANCE WITH MIL - SPEC. T-27-A EXCEPT THAT MIL - SPEC. T-27-A SHALL NOT APPEAR ON THE CASE AND QUALIFICATION TESTING IS NOT REQUIRED.



| QTY / UNIT         | MODEL USED ON | ASS'Y NO. |
|--------------------|---------------|-----------|
| 1                  | HFL ( ) 10K   | AP 148    |
| 1                  | PALA-10K      | AP 148    |
| APPLICATION        |               |           |
| CODE S401-30(8739) |               |           |

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| REQ'D                       | ITEM | PART NUMBER | DESCRIPTION  | SYM.    |
|-----------------------------|------|-------------|--|---------|
| F. BUDETTI LIST OF MATERIAL |      |             |  |         |
| FINAL APPROVAL              |      | DATE        | THE TECHNICAL MATERIEL CORP.<br>MAMARONECK, NEW YORK |         |
| MECH. DES.                  |      | DATE        | TRANSFORMER, POWER                                   |         |
| ELECT. DES.                 |      | DATE        | SIZE   | ISSUE   |
| CHECKED                     |      | DATE        | B  | A       |
| DRAWN                       |      | DATE        | CODE IDENT. NO.                                      | DWG NO. |
|                             |      |             | 82679  | TF 386  |
| SCALE                       |      |             | SHEET OF   |         |
|                             |      |             | 1  |         |