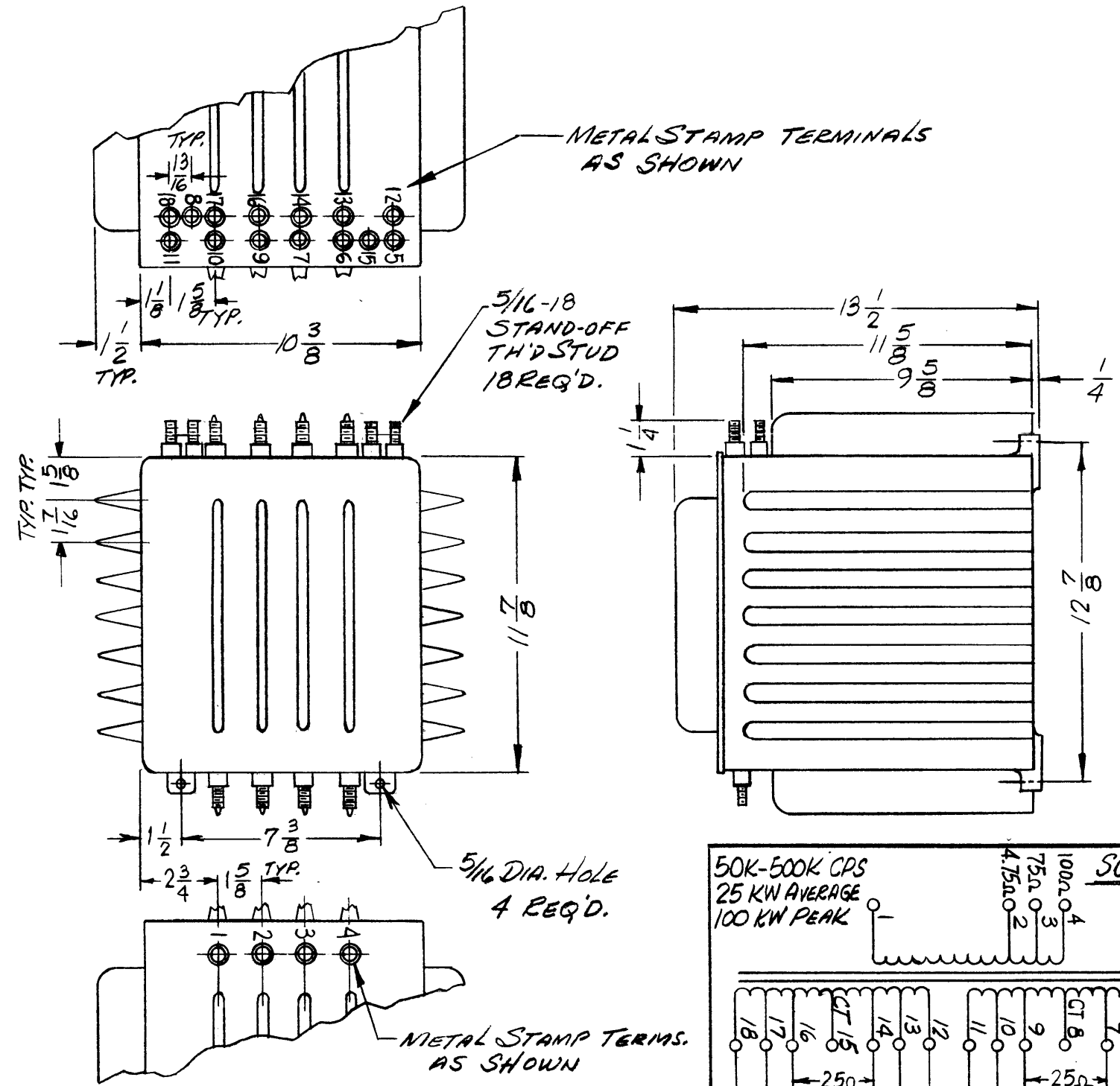


TF300

REVISIONS

| SYM | DESCRIPTION | DATE | E.M.N. NO. | DRAFT | CHKD | APPD |
|-----|---------------------------------|--------|------------|-------|------|------|
| Ø | ORIGINAL RELEASE FOR PRODUCTION | 1-9-67 | 4 | 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 —

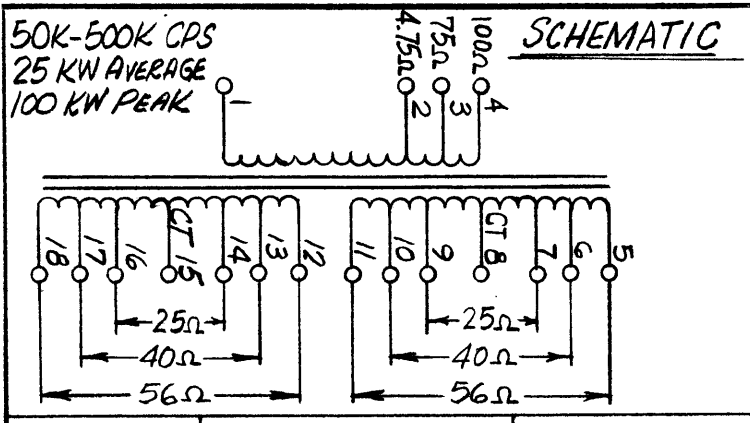
CASE DATA: HERMETICALLY SEALED
CAST ALUMINUM
BODY DIMENSIONS (SEE PICTORIAL)
OIL FILLED

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

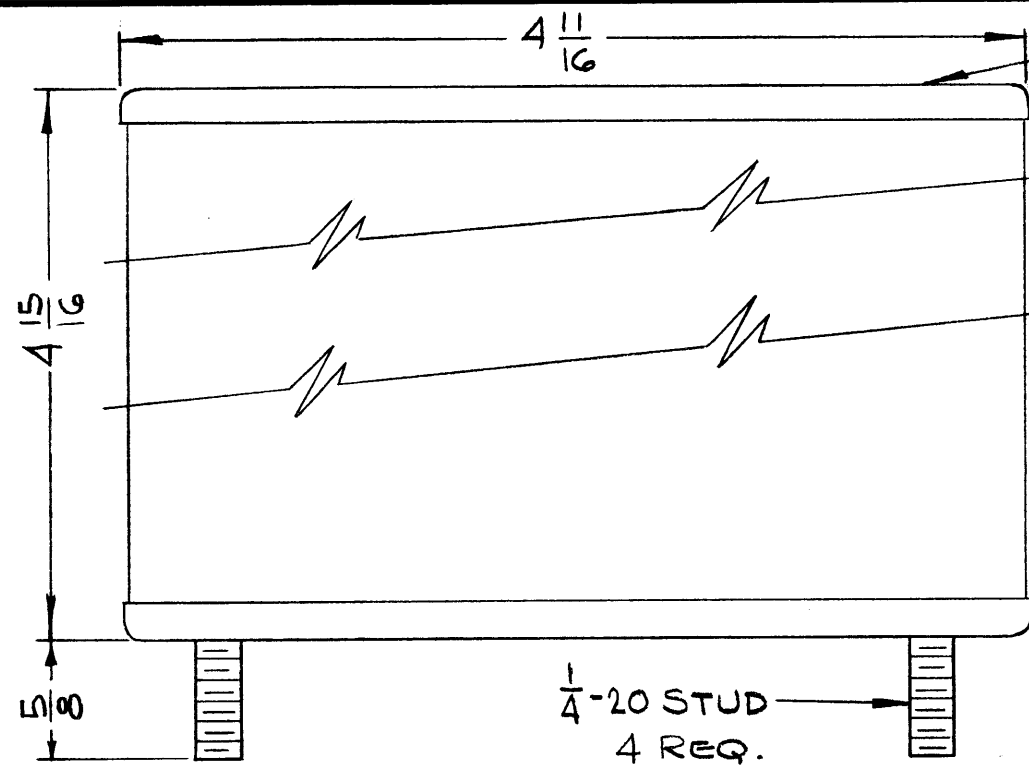


| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO. |
|------------|---------------|---------------|
| SCALE | CODE | S401-30(6392) |

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.

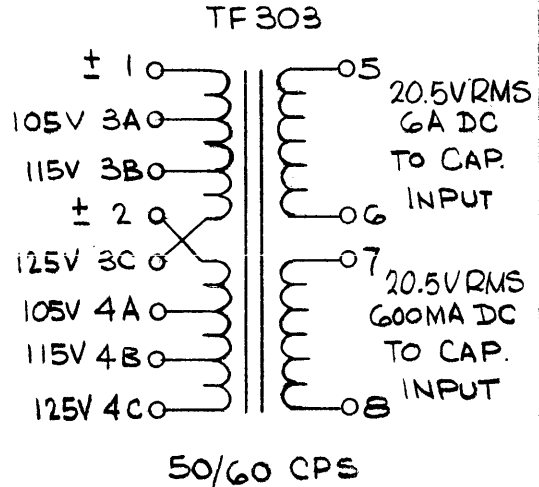
NOTES

| REQ'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|---|------|-------------|---|--|
| POSE LIST OF MATERIAL | | | | |
| MATERIAL | | | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | |
| FINISH | | | TRANSFORMER, RF MATCHING | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | | DRAWN: <i>H. Austin</i> CHECKED: <i>[Signature]</i> ELECT. DES.: <i>[Signature]</i> MECH. DES.: <i>[Signature]</i> | DATE: 3-30-66 DATE: 12/6/66 DATE: DATE: |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | | | TOLERANCES FRACTIONS ± 1/64 ANGLES ± 0° 30' | |
| SHEET | | | FINAL APPROVAL: <i>[Signature]</i> DATE: 1/9/67 TF 300 REV. LTR. | |

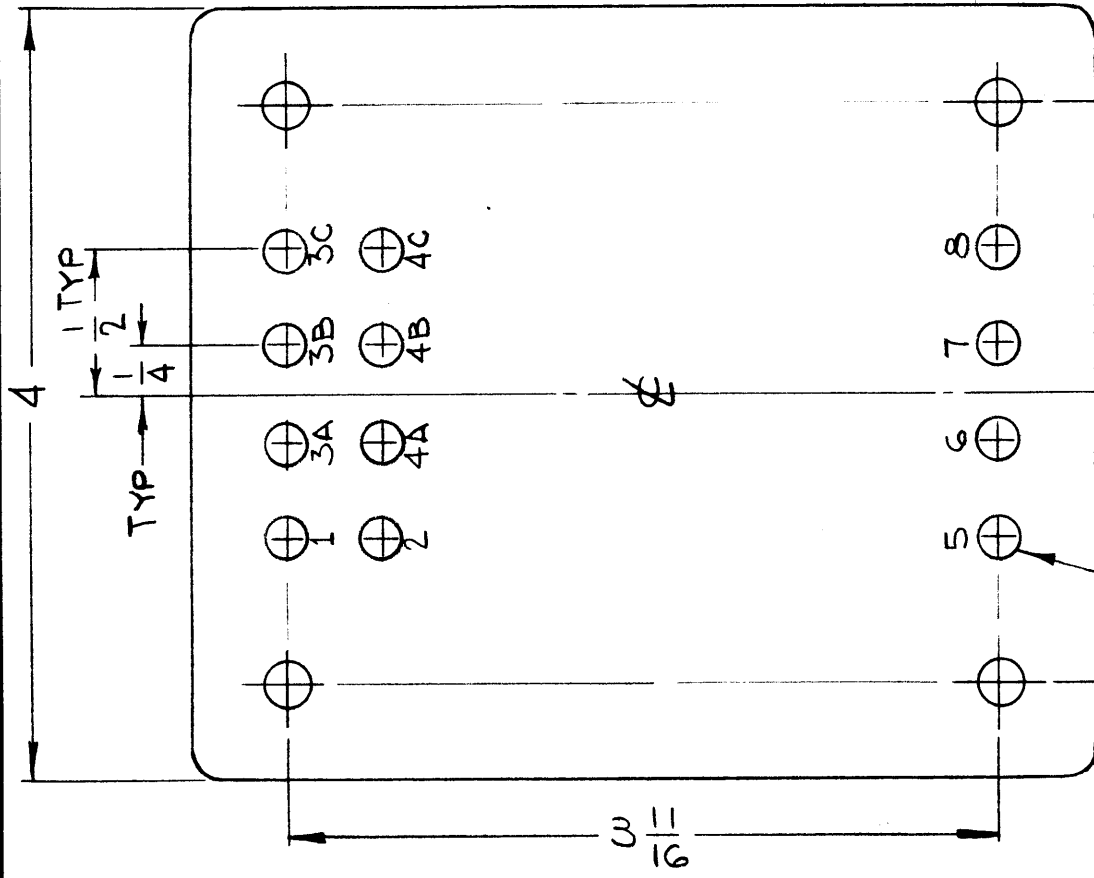


TO BE PLACED ON TOP OF TRANSFORMER

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK NEW YORK



1/4-20 STUD
4 REQ.



MARK ALL TERMINALS

TF 303

| REVISIONS | | | | | | |
|-----------|---------------------------------|---------|------------|-------|------|------|
| SYM | DESCRIPTION | DATE | E.M.N. NO. | DRAFT | CHKD | 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.

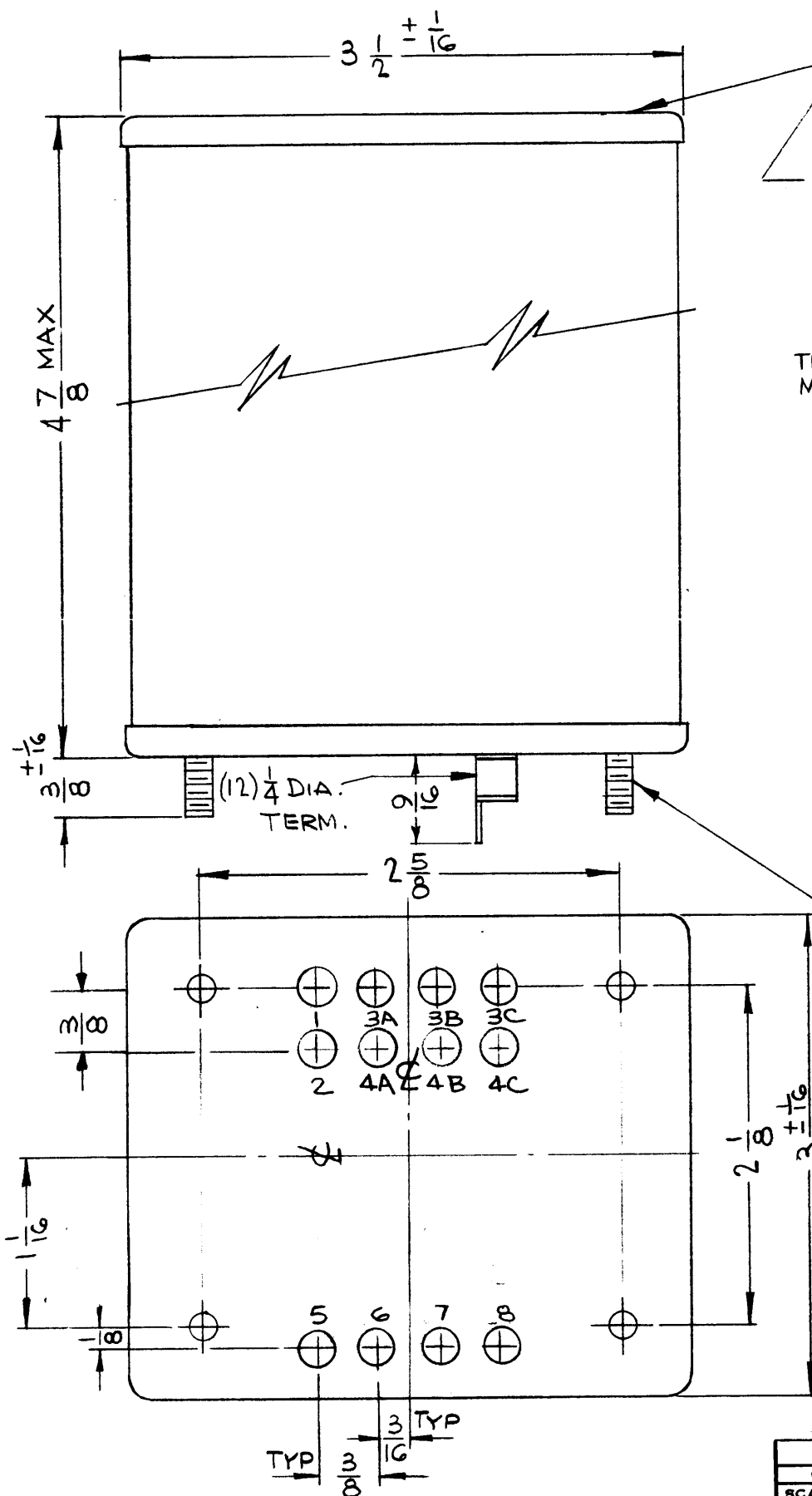
| REQ'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|---|------|-----------------------------------|--|--------------------------------------|
| EATON LIST OF MATERIAL | | | | |
| MATERIAL | | SEE SPEC | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | |
| FINISH | | SEE SPEC | TITLE TRANSFORMER, POWER | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | DRAWN H. AUSTIN | DATE 3-1-65 | FINAL APPROVAL <i>[Signature]</i> |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | | CHECKED <i>[Signature]</i> | DATE 3/11/65 | DATE 3/23/65 |
| FRACTIONS ± 1/64 ANGLES ± 0° 30' | | ELECT. DES. <i>[Signature]</i> | DATE 3/12/65 | DATE |
| TOLERANCES | | MECH. DES. | DATE | DATE |
| | | | SHEET | REV. LTR. |

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

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.

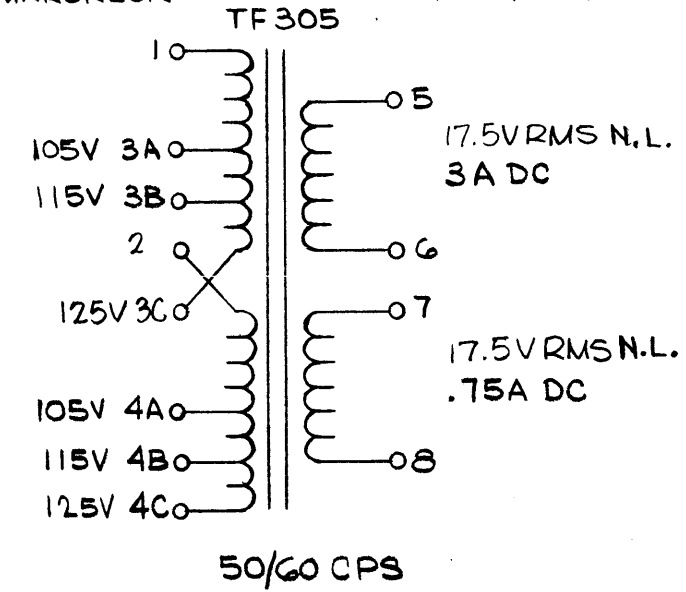
NOTES

STANDARD DRAWING



TO BE PLACED ON TOP OF TRANSFORMER

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK NEW YORK



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 17.5VRMS (2PL.) "NO LOAD" ADD. TO SECONDARY WINDINGS OF CASE DATA. | 4-19-65 | 13839 | SL | JCB | |
| B | TERM CONFIG & STAMPING TURNED 180° | 6-17-65 | 14279 | SL | 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. 17.5VRMS, 17.5VRMS
- 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 |
|---|------|-----------------------------------|--|--------------------------------------|
| LIST OF MATERIAL | | | | |
| MATERIAL | | SEE SPEC. | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | |
| FINISH | | SEE SPEC. | TRANSFORMER, | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | DRAWN H. AUSTIN | DATE 3-1-65 | FINAL APPROVAL <i>[Signature]</i> |
| | | CHECKED <i>[Signature]</i> | DATE 3-11-65 | DATE 3/23/65 |
| | | ELECT. DES. <i>[Signature]</i> | DATE 3-23-65 | TF 305 |
| | | MECH. DES. | DATE | B |
| | | | SHEET | REV. LTR. |

| | | |
|------------|---------------|------------|
| ARCA-1 | | ASS'Y. NO. |
| Q'TY./UNIT | MODEL USED ON | S401-30 |
| SCALE | CODE | (6465) |

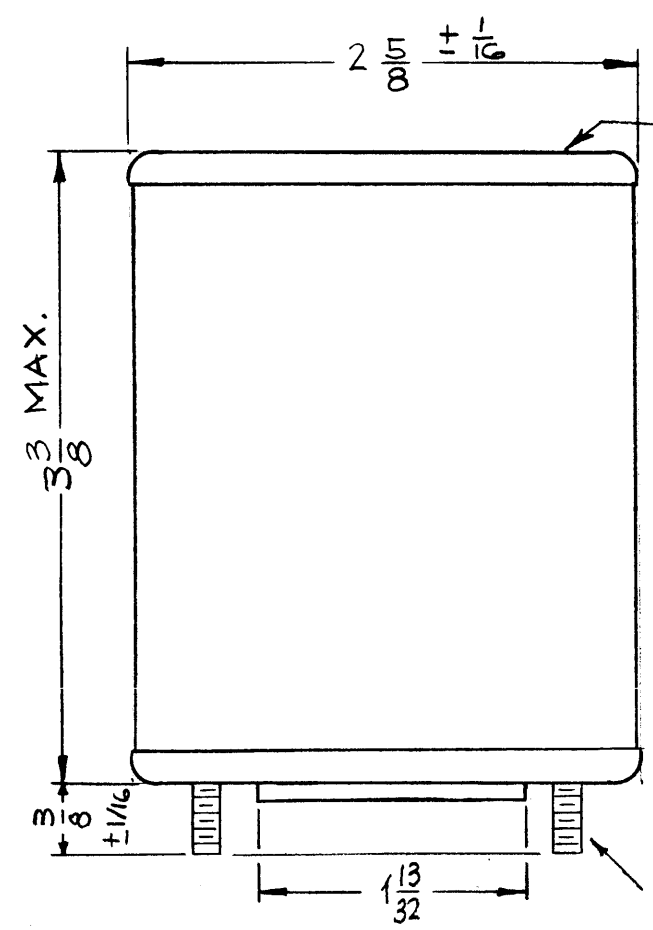
NOTES

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.

TF 306 A

REVISIONS

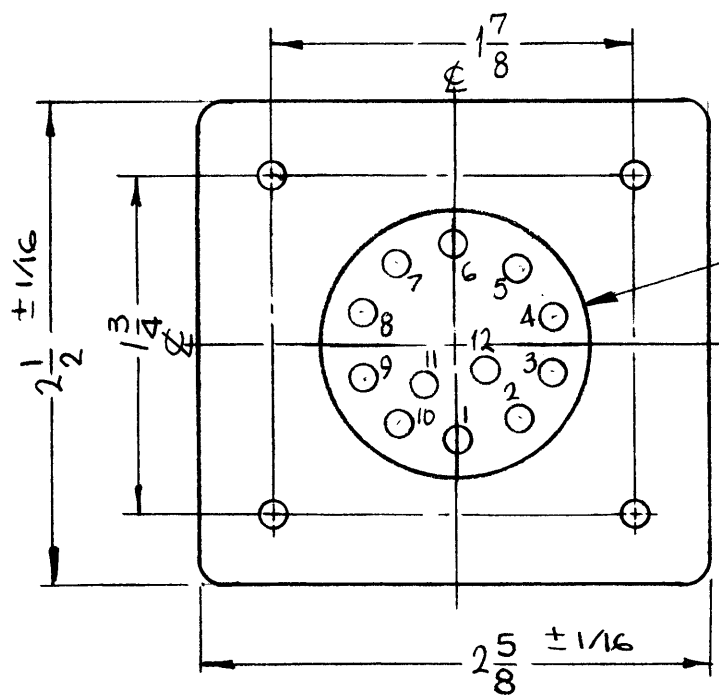
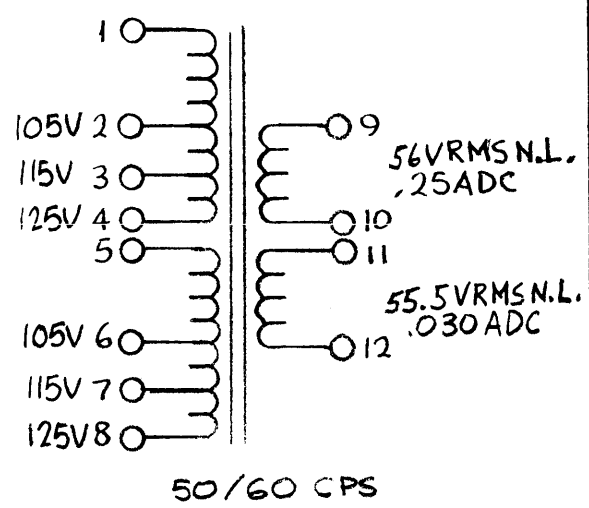
| SYM | DESCRIPTION | DATE | E.M.N. NO. | DRAFT | CHKD | APPD |
|-----|---|---------|------------|-------|------|------|
| X | EXPERIMENTAL RELEASE | 2-25-65 | | HCA | JM | |
| Ø | ORIGINAL RELEASE FOR PRODUCTION | 3-11-65 | | HCA | JM | |
| A | 3-3/8 MAX. WAS 3-3/8 ± 3/32; "H.L." ADD. TO 56VMRS & 55.5VMRS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



TO BE PLACED ON TOP OF TRANSFORMER

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK NEW YORK

TF 306



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 |
|--------|------|-------------|-------------|--------|
|--------|------|-------------|-------------|--------|

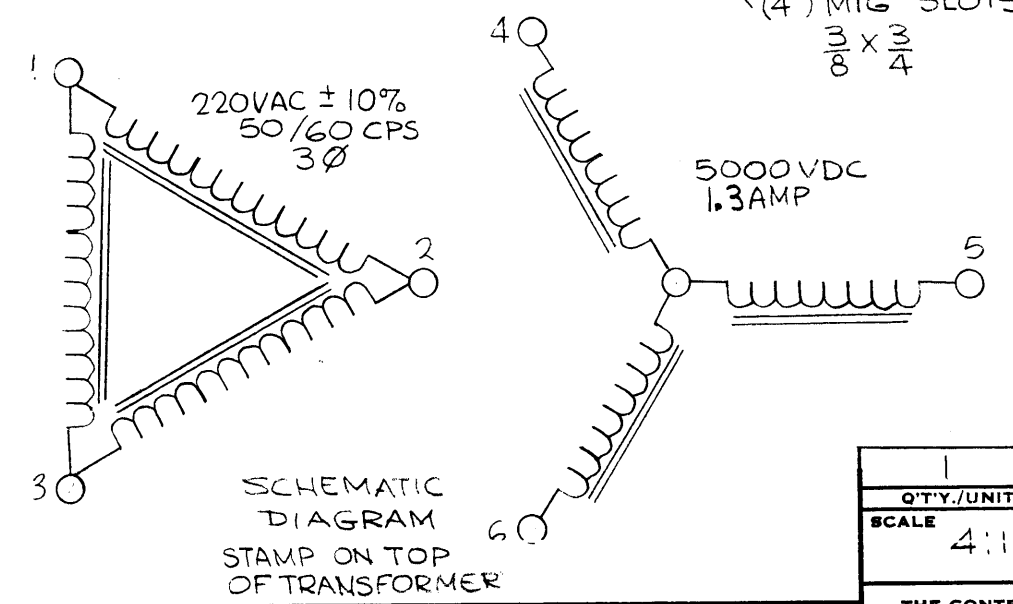
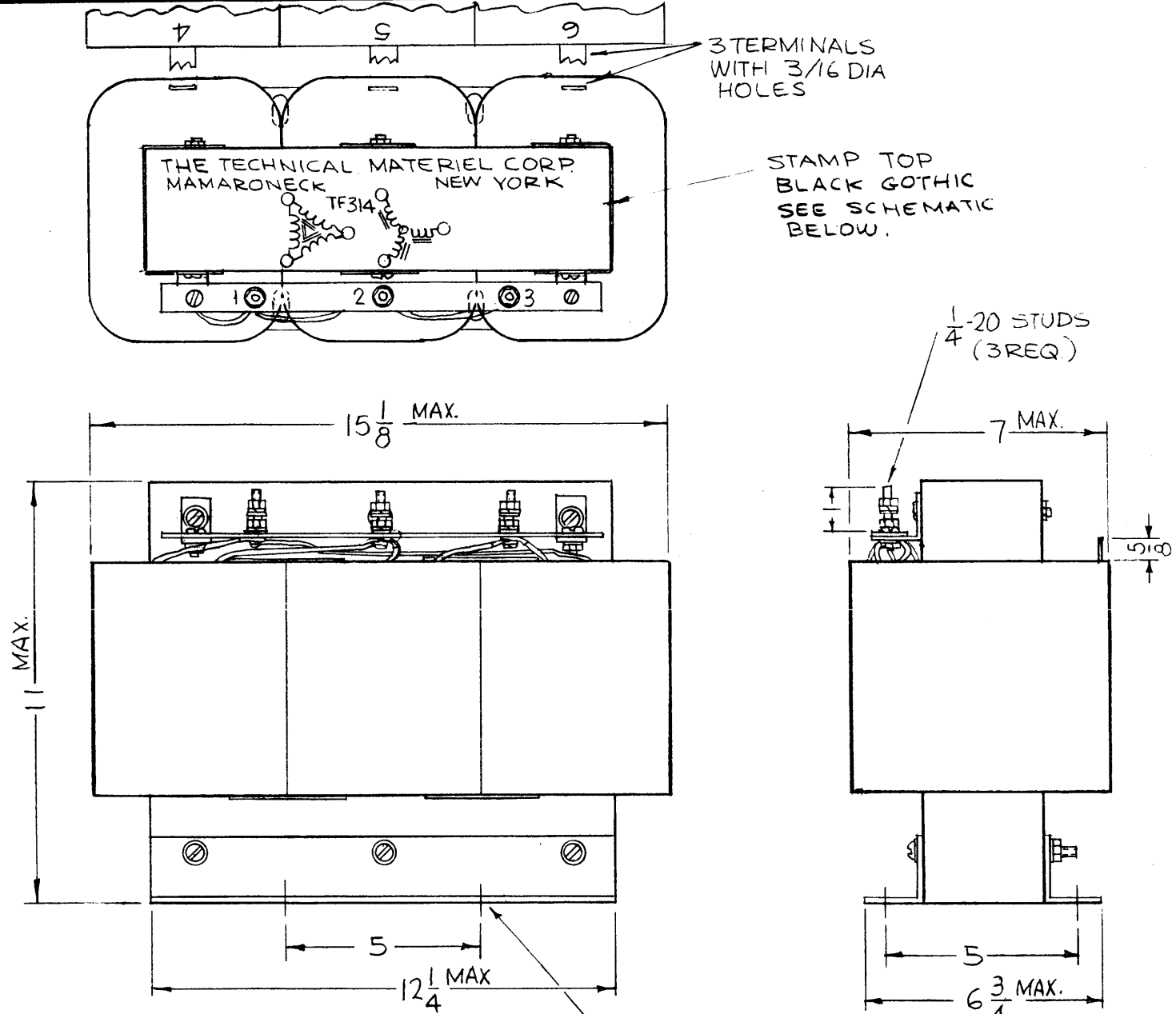
| | | | | |
|----------|-----------|--|--|--|
| EATON | | LIST OF MATERIAL | | |
| MATERIAL | SEE SPECS | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | | |
| FINISH | SEE SPECS | TITLE TRANSFORMER, | | |

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

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| | | | | | |
|---|------------|--------------------|-----------------|-----------------------|-----------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | DRAWN HCA | DATE 2-25-65 | FINAL APPROVAL MMA | DATE 3/23/65 |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | TOLERANCES | CHECKED JCB | DATE 3-11-65 | TF 306 | |
| | | ELECT. DES. JCB | DATE 3-25-65 | A | |
| | | MECH. DES. | DATE | SHEET | REV. LTR. |

NOTES



NOTES

| | | |
|---|---------------|----------------|
| 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. | | |

TF 314

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

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

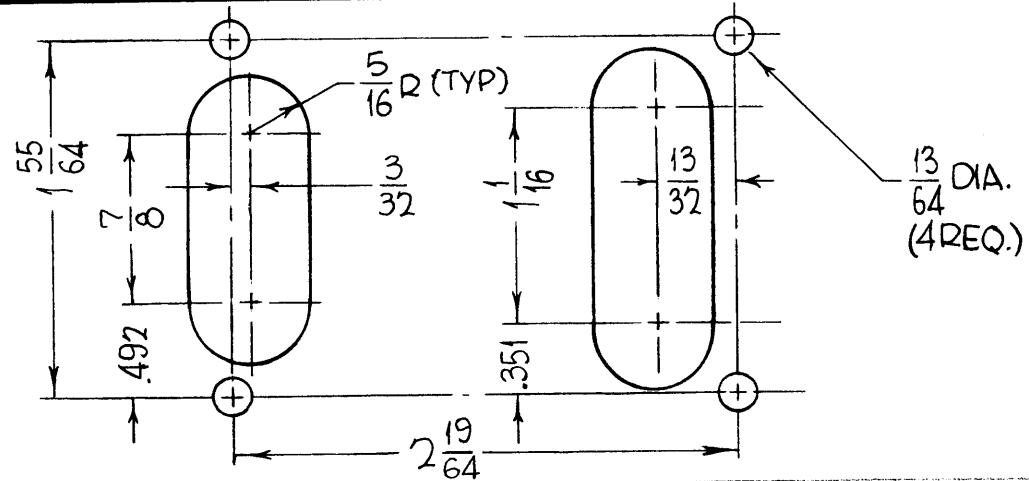
Case - Open Frame
Finish - S-115 Smooth Grey Enam. except Terminals and Boards
Dimensions - shown pictorially
Terminals - (3) 1/4-20 & (3) with 3/16 Dia. Holes
Tolerance ± 1/32 unless otherwise specified

Stamping

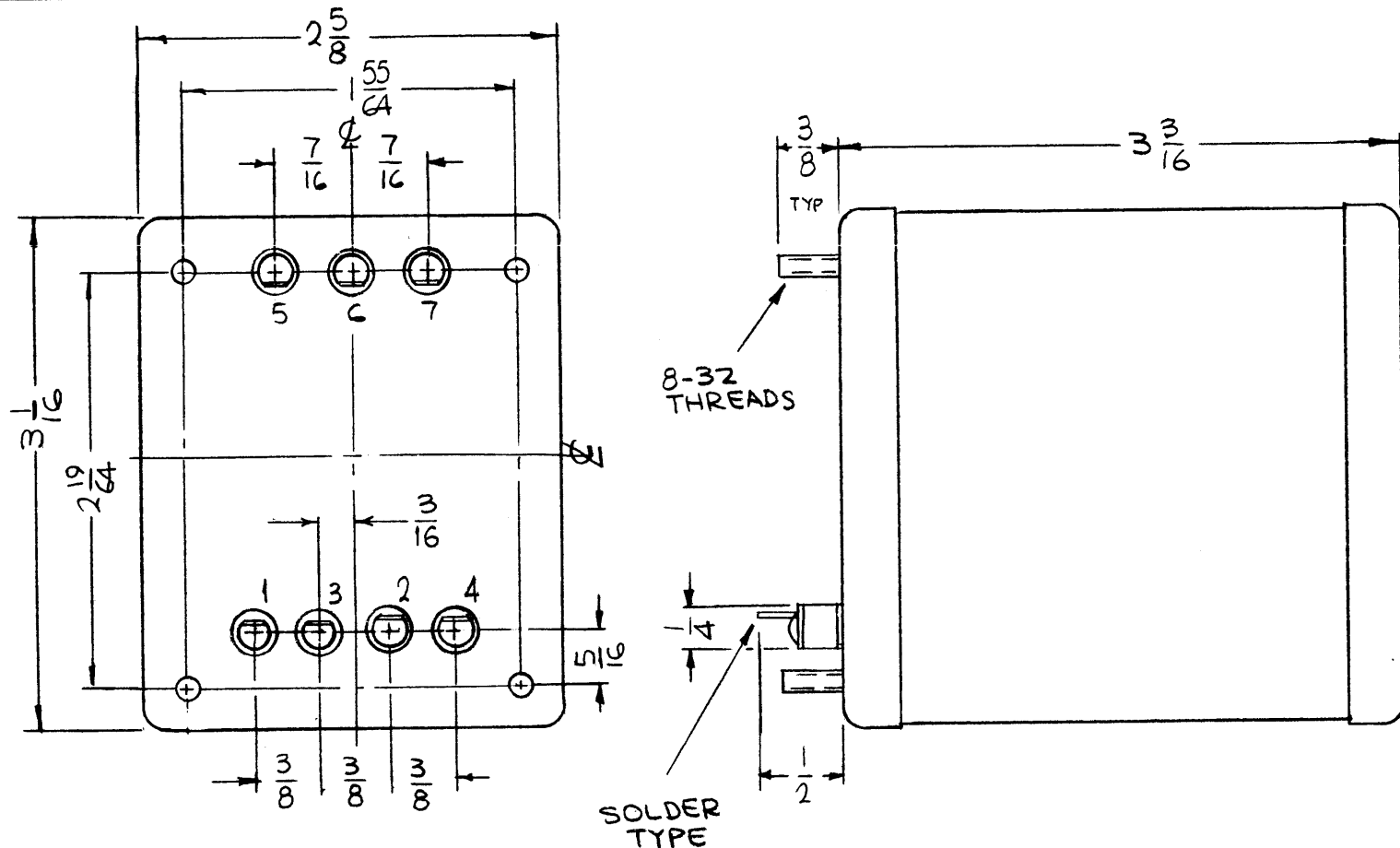
According with TMC SPEC. S-727
Black Gothic Lettering and Line Work
Schematic to be placed as shown

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. MAMARONECK, NEW YORK | | |
| SEE SPECS | | | | | |
| FINISH | | | TITLE | | |
| SEE SPECS | | | TRANSFORMER, POWER STEP-UP | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | DRAWN | DATE | FINAL APPROVAL | DATE |
| | | MECH. DES. | DATE | | |
| DECIMALS | | FRACTIONS | | DATE | |
| .X ± .05 | | ± 1/64 | | 1/9/67 | |
| .XX ± .01 | | ANGLES | | Ø | |
| .XXX ± .005 | | ± 0° 30' | | TF314 | |
| | | | SHEET | REV. LTR. | |



MOUNTING
DETAIL

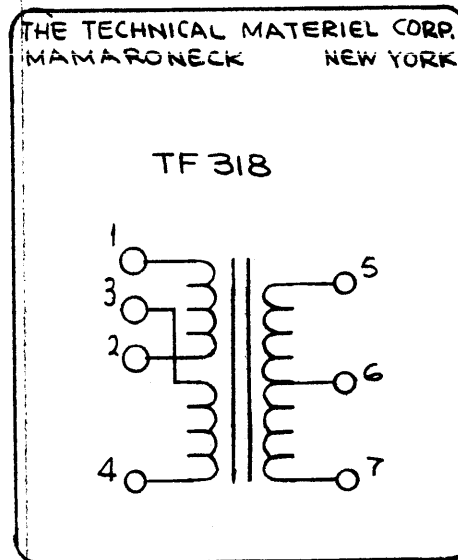


A
TF 318

| REVISIONS | | | | | |
|-----------|--|---------|------------|-------|------|
| SYM | DESCRIPTION | DATE | E.M.N. NO. | DRAFT | CHKD |
| XI | 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 | | | |
| A | DIM 5/16 WAS 9/16 | 5.17.66 | 16254 | wvw | |

- ELECTRICAL SPECIFICATIONS-
1. TRANSFORMER RF OUTPUT
 2. COIL DATA:
 - PRIMARY WINDING: TERM. 1 & 4, WITH TERM. 2 & 3 JUMPED
5K~IMPEDENCE
 - SECONDARY WINDING: TERM. 5 & 7
3K~IMPEDENCE

- MECHANICAL SPECIFICATIONS-
1. 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
 2. 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
 3. TERMINAL DATA:
 - A. (7) 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 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.

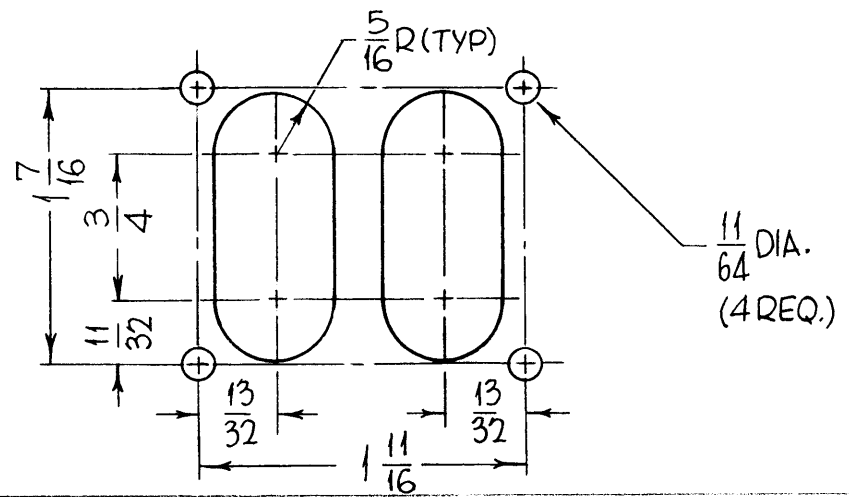
NOTES

| | | |
|------------|---------------|----------------|
| VLLA-1 | | ASS'Y. NO. |
| Q'TY./UNIT | MODEL USED ON | |
| SCALE | CODE | S401-30 (6633) |

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 OUTPUT | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | DRAWN | DATE | FINAL APPROV |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | | 11-15-65 | 12/1/65 | 12/2/65 |
| FRACTIONS ± 1/64 ANGLES ± 0° 30' | | CHECKED | DATE | DATE |
| TOLERANCES | | ELECT. DES. | DATE | DATE |
| | | MECH. DES. | DATE | DATE |
| | | M/L | 12/2/65 | TF318 |
| | | | | A |
| | | | | REV. LTR. |

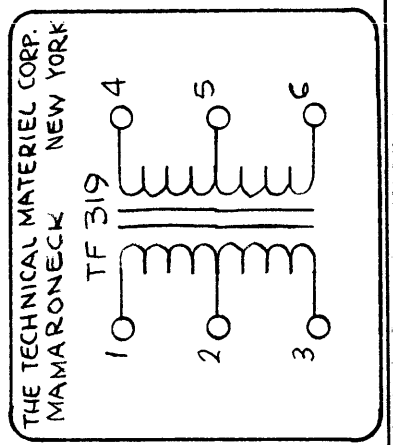
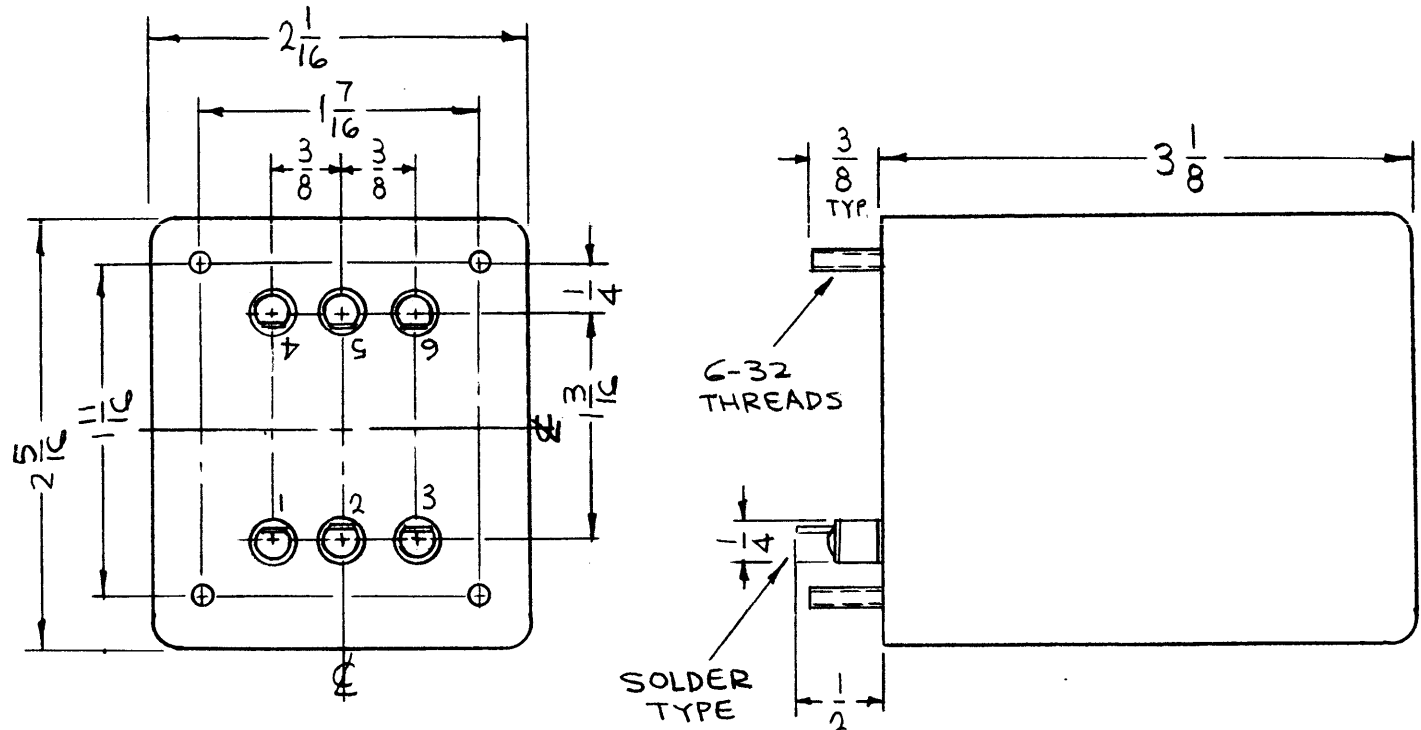


MOUNTING
DETAIL

TF 319

REVISIONS

| SYM | DESCRIPTION | DATE | E.M.N. NO. | DRAFT | CHKD | APPD |
|-----|--|---------|------------|-------|------|------|
| XI | 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 | | |



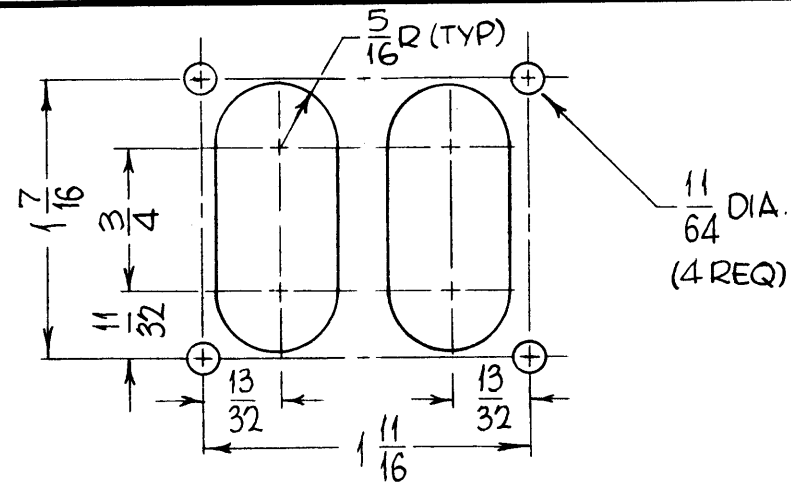
- ELECTRICAL SPECIFICATIONS-
- TRANSFORMER, RF INTERSTAGE
 - COIL DATA:
PRIMARY WINDING: TERM. 1,3 10KΩ IMPEDENCE
SECONDARY WINDING: TERM. 4,6 2.5KΩ IMPEDENCE
- MECHANICAL SPECIFICATIONS-
- CASE DATA:
A. HERMETICALLY SEALED
B. RECTANGULAR STEEL CASE, MIL TYPE Y Y
C. BODY DIMENSIONS: 2-5/16 LONG
2-1/16 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

| | | |
|---|---------------|----------------|
| QTY./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. MAMARONECK, NEW YORK | |
| FINISH | | | TITLE XFMR, RF INTERSTAGE | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | | DRAWN <i>[Signature]</i> | DATE 11-12-65 |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | | | CHECKED <i>[Signature]</i> | DATE 12-1-65 |
| FRACTIONS ± 1/64 ANGLES ± 0° 30' | | | ELECT. DES. <i>[Signature]</i> | DATE |
| TOLERANCES | | | MECH. DES. | DATE |
| | | | FINAL APPROVAL <i>[Signature]</i> TF 319 | |
| | | | DATE 12/2/65 | |
| | | | SHEET | |
| | | | REV. LTR. | |
| | | | M/L 28 | |

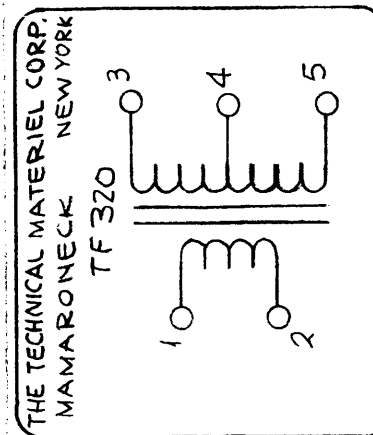
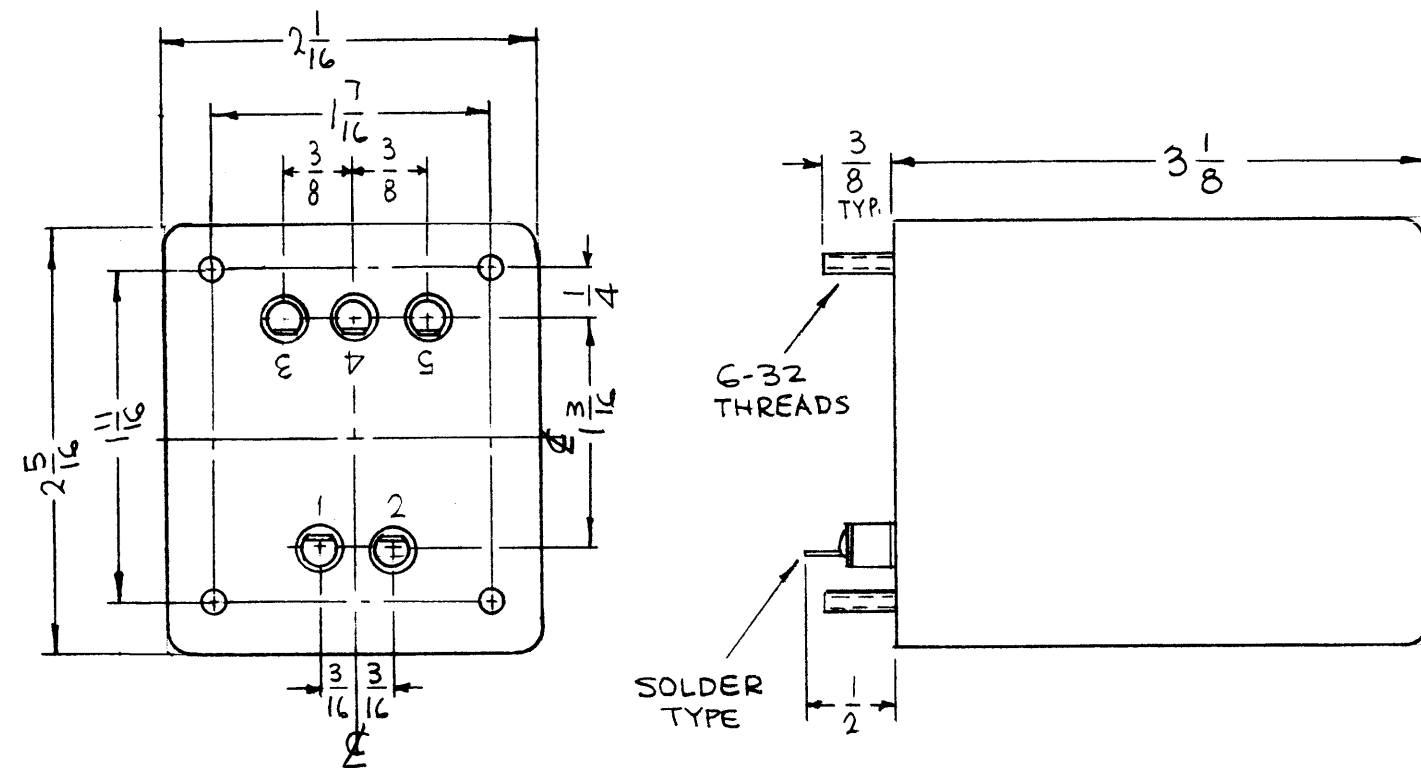


MOUNTING
DETAIL

TF 320

REVISIONS

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



-ELECTRICAL SPECIFICATIONS-

- TRANSFORMER, RF, INPUT
- COIL DATA:
PRIMARY WINDING: TERM. 1,2 50~ IMPEDENCE
SECONDARY WINDING: TERM. 3,5 200~ 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. (5) TERMINALS
B. SOLDER TYPE 1/2 HIGH INSULATED
- FINISH:
SMOOTH GRAY ENAMEL (TMC SPEC. S115) EXCEPT
TERMINAL END.
- 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

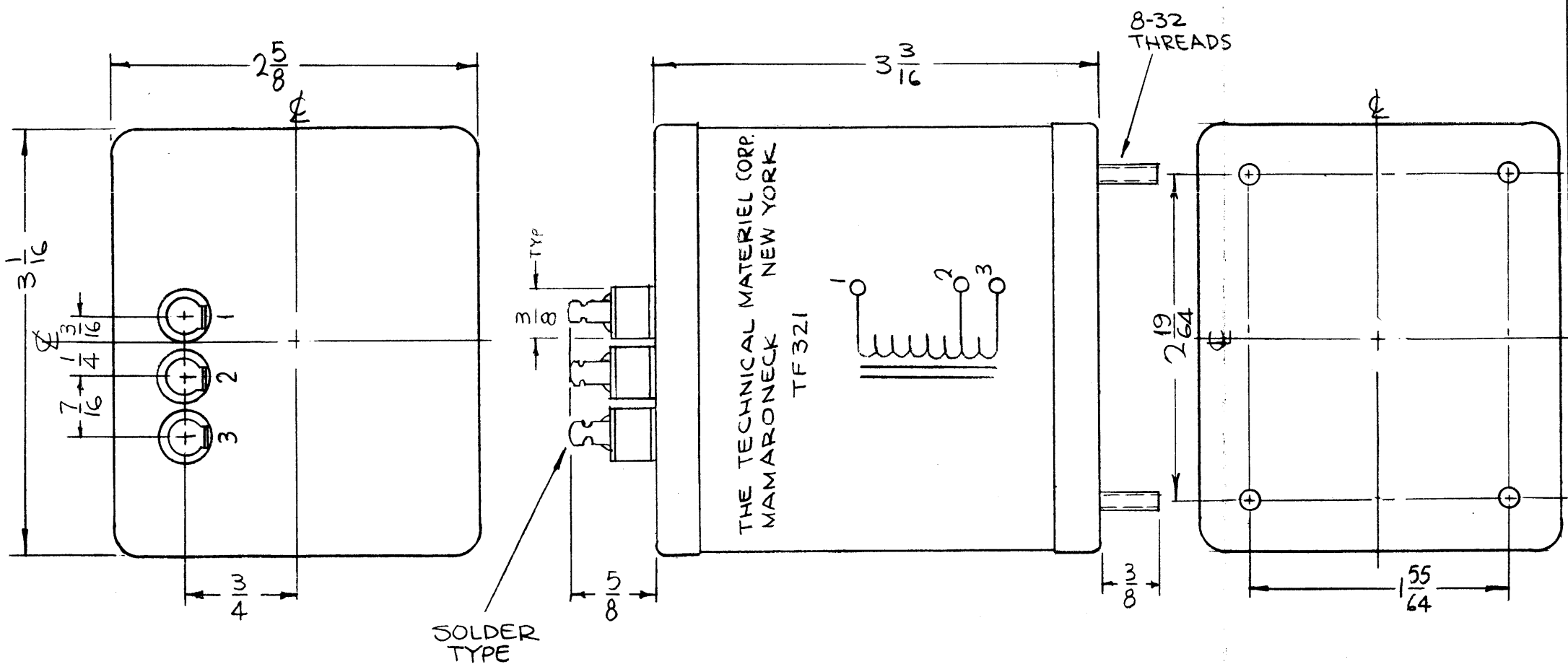
| | | |
|------------|---------------|---------------|
| 1 | VLLA-1 | ASS'Y. NO. |
| Q'TY./UNIT | MODEL USED ON | |
| SCALE | CODE | S40: 30(6635) |
| | A | |

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 DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | | DRAWN 11-12-65 | FINAL APPROVAL DATE 12/2/65 |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | | | CHECKED DATE 12-1-65 | DATE 12/2/65 |
| FRACTIONS ± 1/64 ANGLES ± 0° 30' | | | ELECT. DES. DATE | TF 320 |
| TOLERANCES | | | MECH. DES. DATE | Ø |
| | | | M/L 28 | 12/2/65 |

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

TF321



-ELECTRICAL SPECIFICATIONS-

- 1.
- 2.

-MECHANICAL SPECIFICATIONS-

1. CASE DATA:
 - A. HERMETICALLY SEALED
 - B. RECTANGULAR STEEL CASE, MIL TYPE Y Y
 - C. BODY DIMENSIONS
 - 3-1/16 LONG
 - 2-5/8 WIDE
 - 3-3/16 HIGH
2. 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
3. TERMINAL DATA
 - A. (3) TERMINALS
 - B. 3/8 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. MAMARONECK, NEW YORK | |
| FINISH | | | TITLE XFMR, AUTO | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | | DRAWN <i>[Signature]</i> DATE 11-16-65 CHECKED <i>[Signature]</i> DATE 11/29/66 ELECT. DES. <i>[Signature]</i> DATE MECH. DES. <i>[Signature]</i> DATE | FINAL APPROVAL <i>[Signature]</i> DATE 1/4/67 TF321 SHEET |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | | | TOLERANCES ± 1/64 ANGLES ± 0° 30' | REV. LTR. |

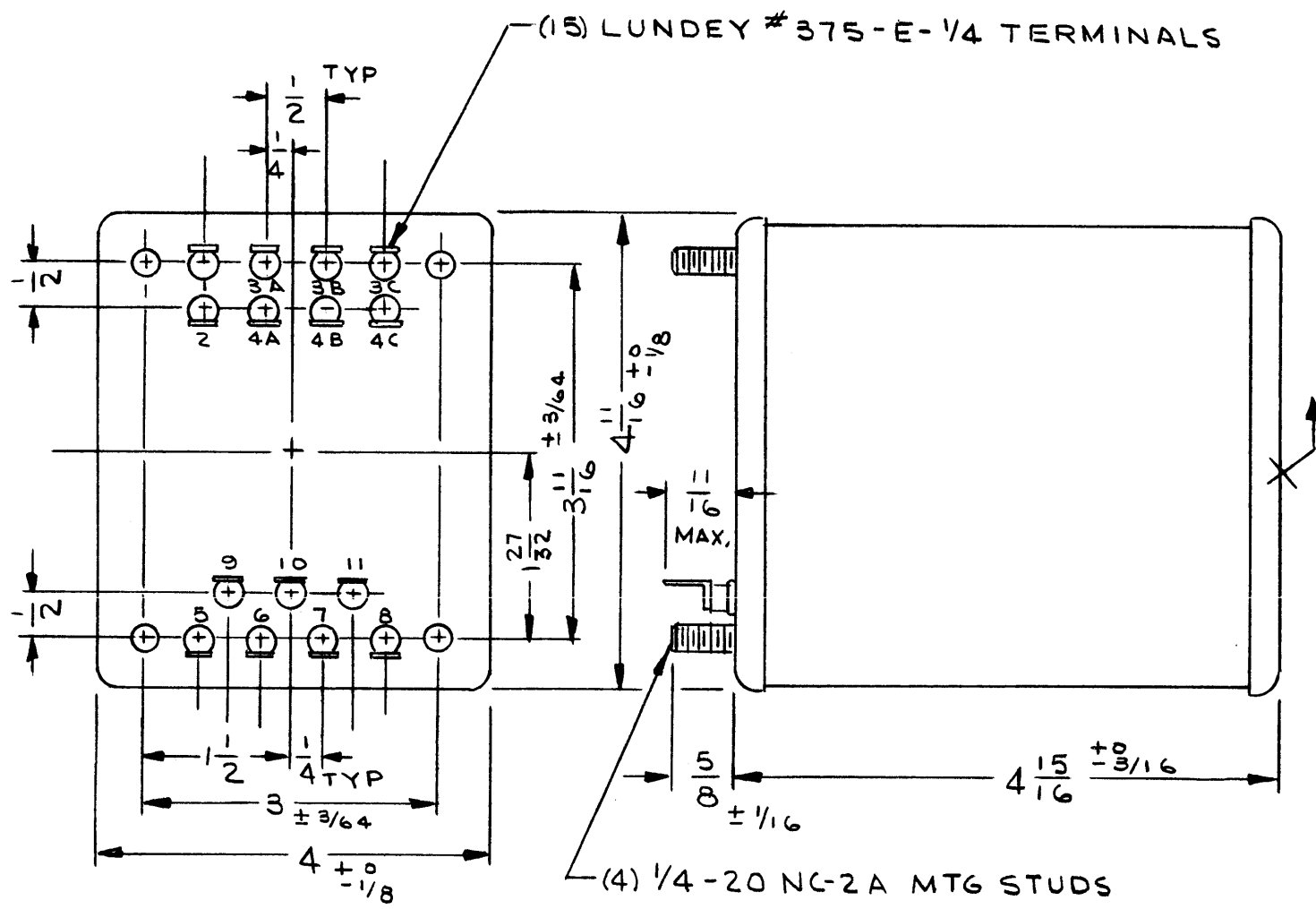
| | | |
|------------|---------------|---------------|
| 1 | GPT-10KLF | |
| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO. |
| SCALE III | CODE C | S401-30(6636) |

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

TF323 B

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



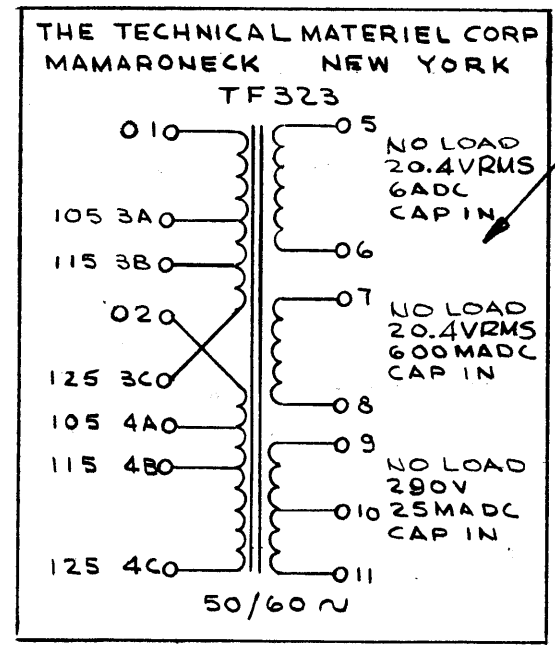
CASE DATA:
 A. HERMETICALLY SEALED
 B. FULLY ENCLOSED
 C. GRAY (TMC S115)
 D. STEEL, HOT TIN DIPPED

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

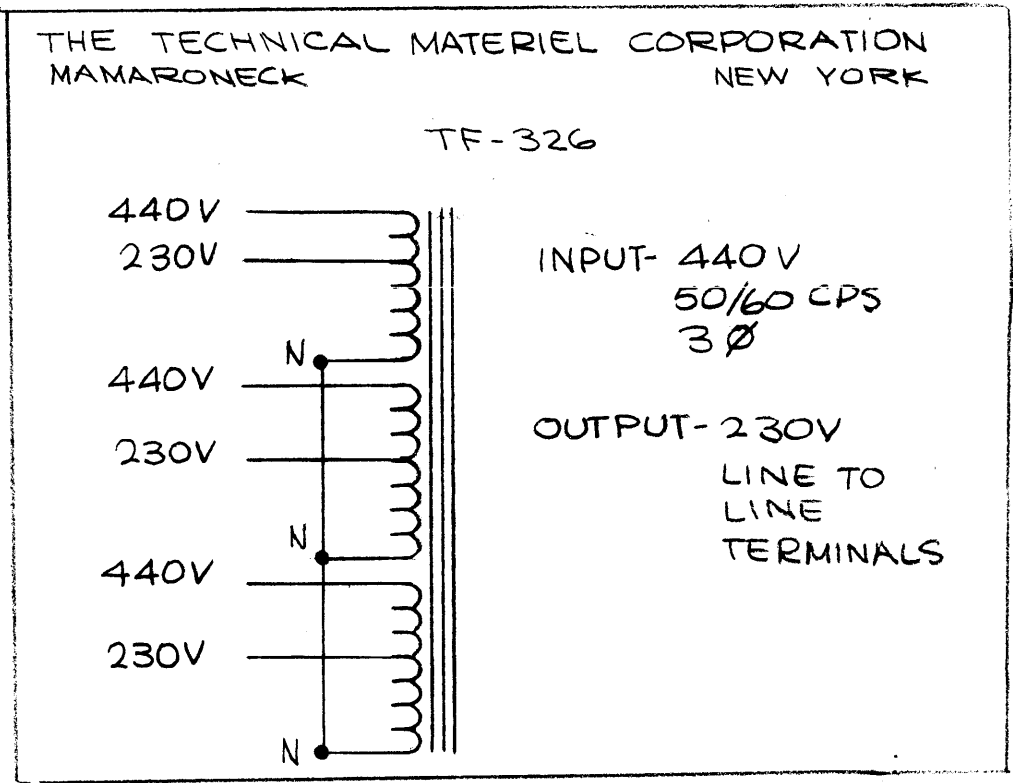
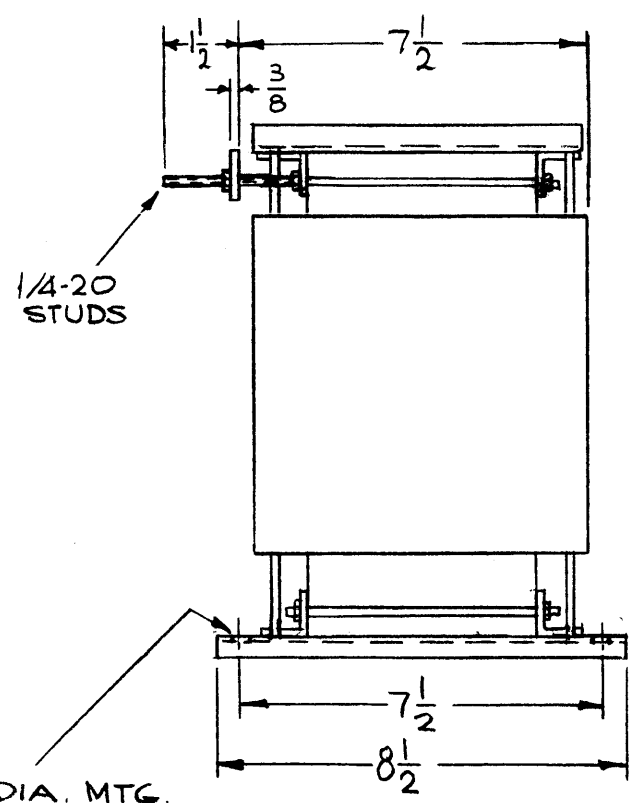
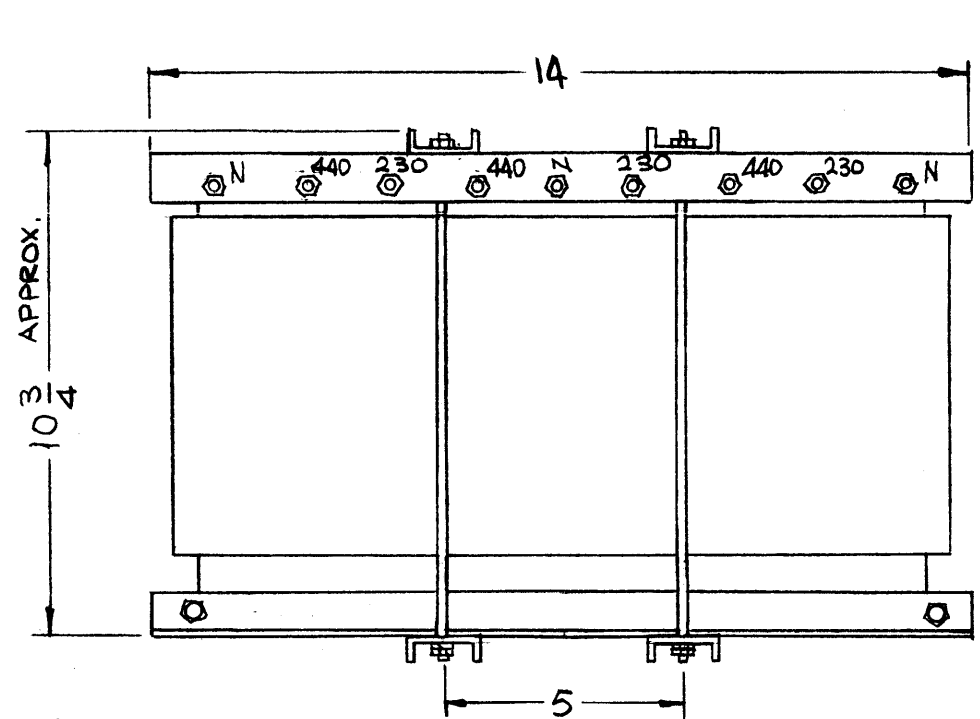
NOTES

| | | |
|---|---------------|-----------------|
| RTIA-1 | | |
| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO. |
| SCALE | CODE | S401-30 (#6632) |
| 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. MAMARONECK, NEW YORK | | |
| FINISH | | | TITLE TRANSFORMER, POWER | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | | DRAWN JL CHECKED JCS ELECT. DES. NL MECH. DES. | DATE 6/14/65 DATE 6/15/65 DATE DATE | FINAL APPROVAL DATE 6/18/65 TF323 B SHEET REV. LTR. |
| DECIMALS | TOLERANCES | | FRACTIONS | | |
| .X ± .05 | | | ± 1/64 | | |
| .XX ± .01 | | | ANGLES | | |
| .XXX ± .005 | | | ± 0° 30' | | |

TF 326 A

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



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 REQUIRED.

NOTE:
DIMENSIONS FOR REF. ONLY

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

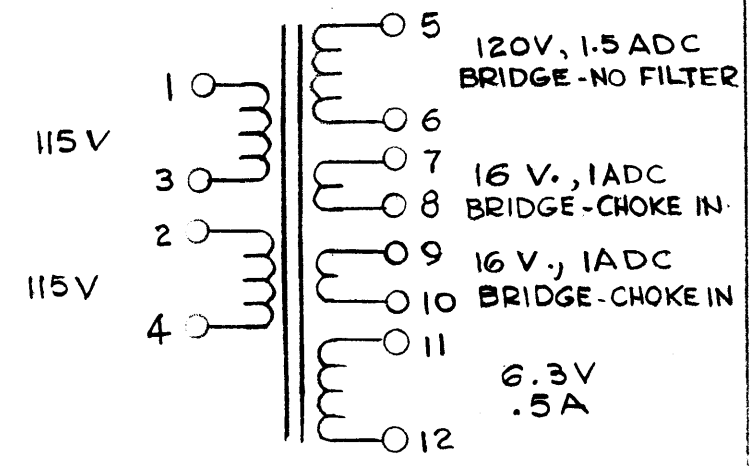
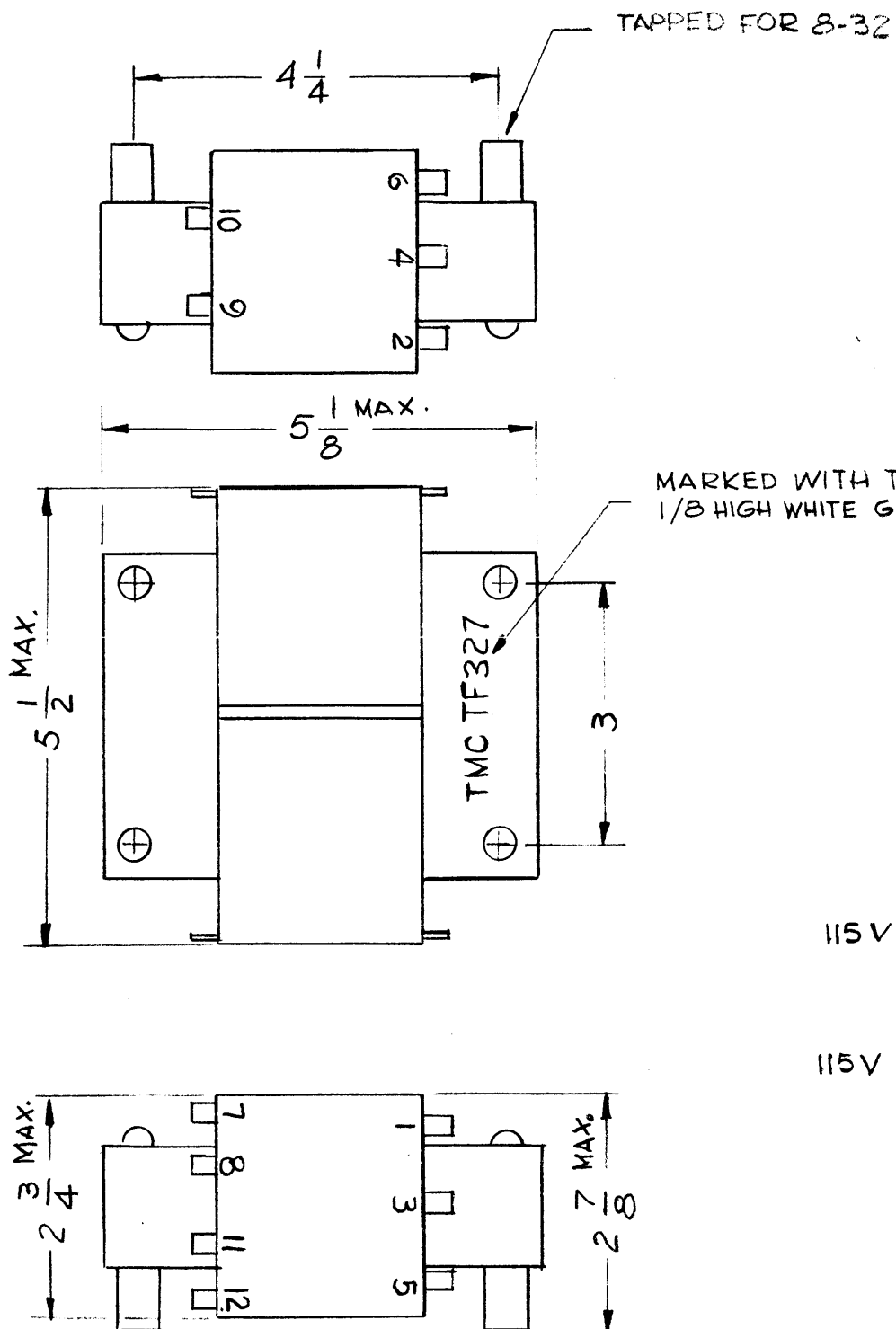
NOTES

| | | |
|---|---------------|-------------------|
| 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 SRC | 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. | DATE | DATE |
| | | | TF 326 | A |
| | | | SHEET | REV. LTR. |

STANDARD DRAWING

TF 327



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 | Ø | A.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. MAMARONECK, NEW YORK | | |
| FINISH | TITLE TRANSFORMER, POWER | | |

| | | |
|-----------------------|---------------|----------------|
| 1 | RARB-1/RASB-1 | A 5129 |
| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO. |
| SCALE 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.

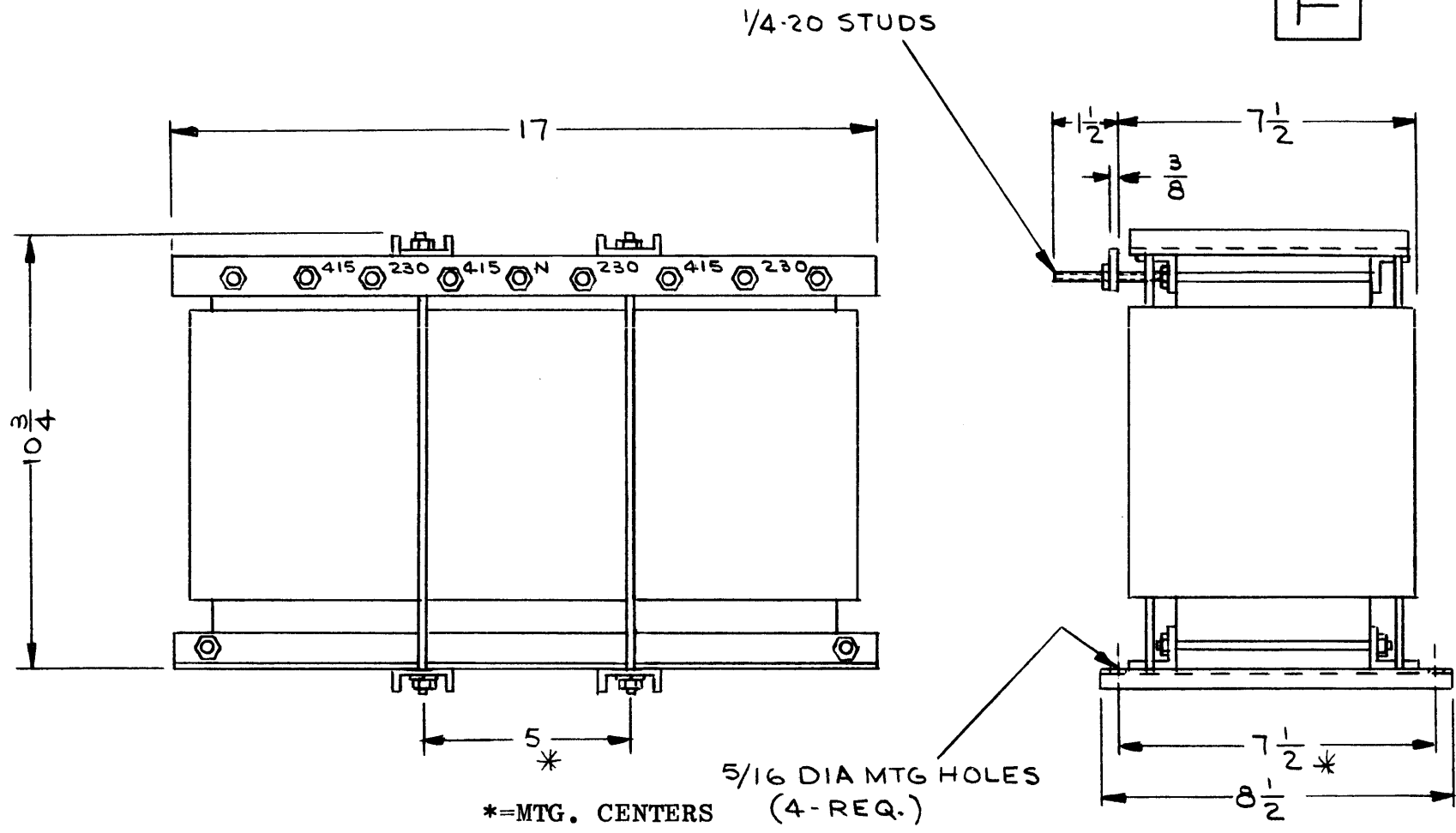
| | | | | | |
|---|------------|--------------|---------------|----------------|---------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | DRAWN G.D.L. | DATE 11-10-65 | FINAL APPROVAL | DATE 11/12/65 |
| DECIMALS .X ± .05 .XX ± .01 .XXX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

NOTES

M/LAK 11/12/65

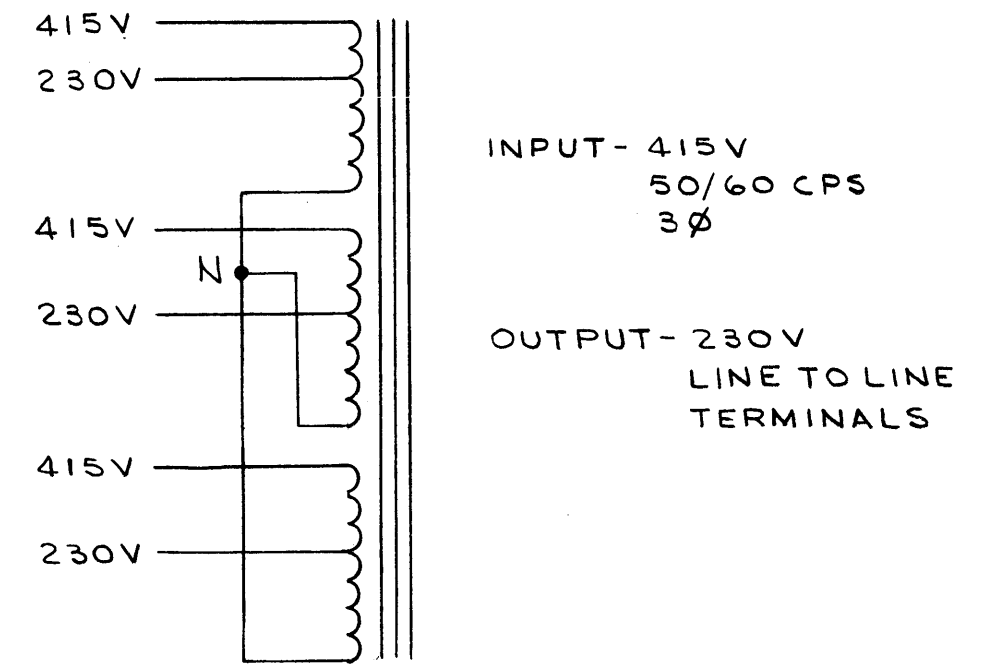
TF 329

| 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



SCHEMATIC - 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.

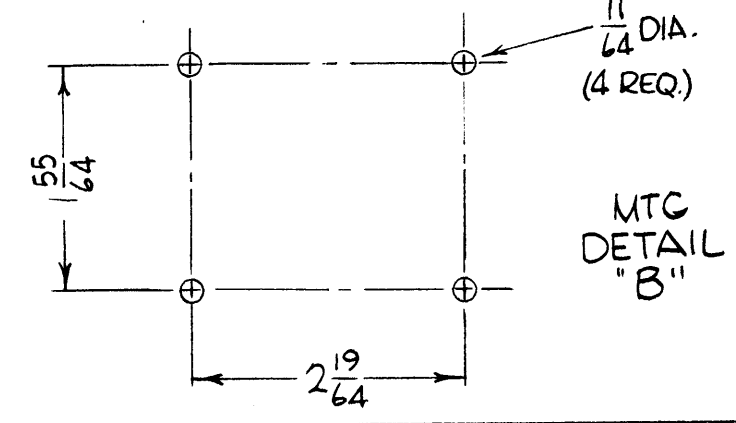
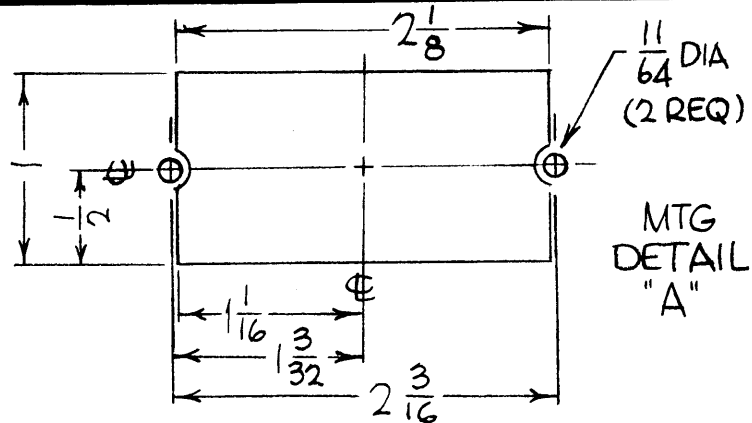
- TERMINAL BOARD: BLACK PHENOLIC 3/8" THICK.

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

| 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, POWER, FIXED | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | | DRAWN JL | DATE 7/29/65 |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | | | CHECKED [Signature] | DATE |
| FRACTIONS ± 1/64 ANGLES ± 0° 30' | | | ELECT. DES. [Signature] | DATE |
| TOLERANCES | | | MECH. DES. [Signature] | DATE |
| 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. | | | FINAL APPROVAL [Signature] DATE 2/27/67 | |
| | | | SHEET | |
| | | | REV. LTR. | |

| | | |
|------------|---------------|----------------|
| 1 | GPT-10KG | |
| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO. |
| SCALE NONE | CODE C | S401-30 (7048) |

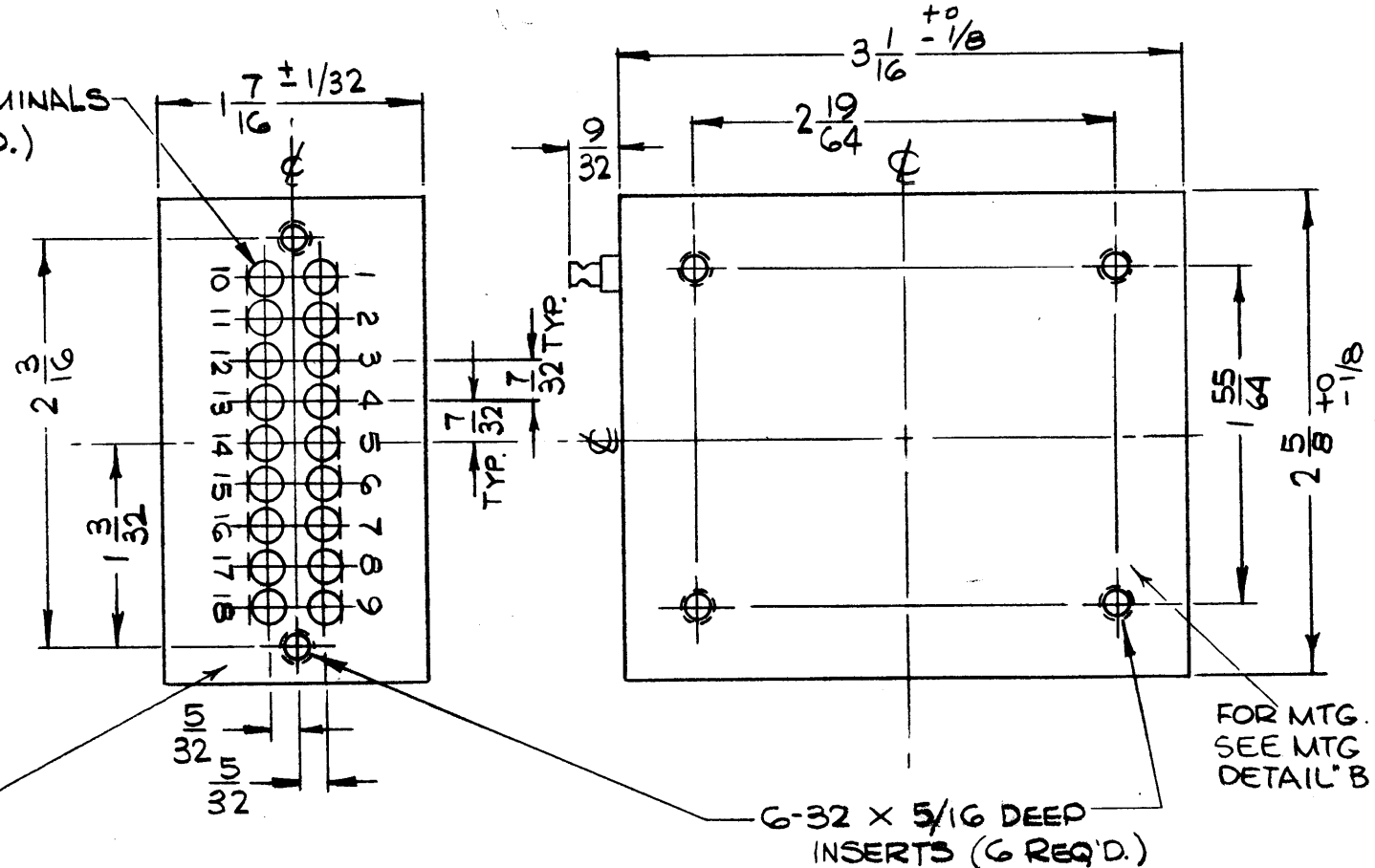
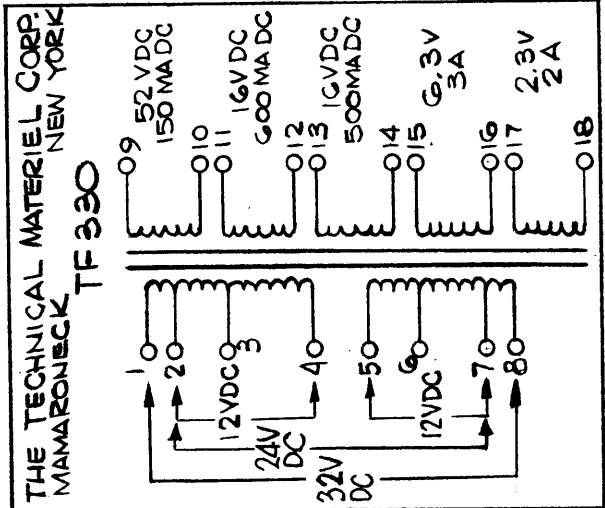
NOTES



TF330

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

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



ELECTRICAL SPECIFICATIONS

- TRANSFORMER, L.V. POWER
- COIL DATA: PRIMARY WINDING: SEE PICTORIAL
SECONDARY WINDING: SEE PICTORIAL

MECHANICAL SPECIFICATIONS

- 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
- 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 (Ø) (2) 6-32 x 5/16 DEEP INSERTS ON 2-3/16 CENTERS.
- TERMINAL DATA: A - (18) TERMINALS
B - SPHERE #T-170-E-153
- FINISH: SMOOTH GRAY ENAMEL (TMC SPEC. S115) EXCEPT TERMINAL END
- 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"

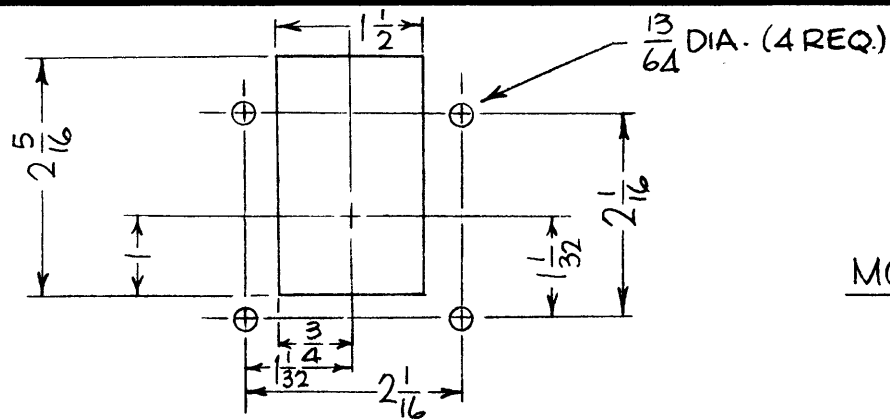
FOR MTG. SEE MTG. DETAIL "B"

| REQ'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|---|------|-------------|--|--|
| POSE LIST OF MATERIAL | | | | |
| MATERIAL | | | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | |
| FINISH | | | TITLE TRANSFORMER, L.V. POWER | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | | DRAWN <i>H. AUSTIN</i> DATE 12-27-65 CHECKED <i>[Signature]</i> DATE 1-6-66 ELECT. DES. <i>[Signature]</i> DATE 1-6-66 MECH. DES. <i>[Signature]</i> DATE | FINAL APPROVAL <i>[Signature]</i> DATE TF330 SHEET |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | | | FRACTIONS ± 1/64 ANGLES ± 0° 30' | TOLERANCES M/L <i>[Signature]</i> 1/6/66 |

| | | |
|-----------|---------------|---------------|
| TPSG-1 | | ASS'Y. NO. |
| QTY./UNIT | MODEL USED ON | |
| SCALE | CODE | S401-30(7023) |

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.

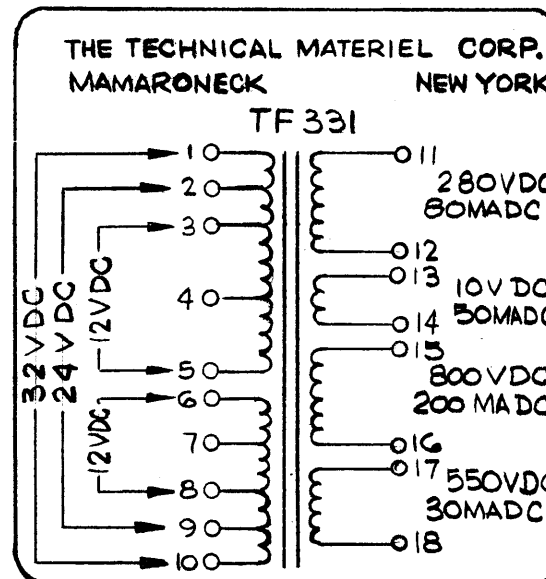
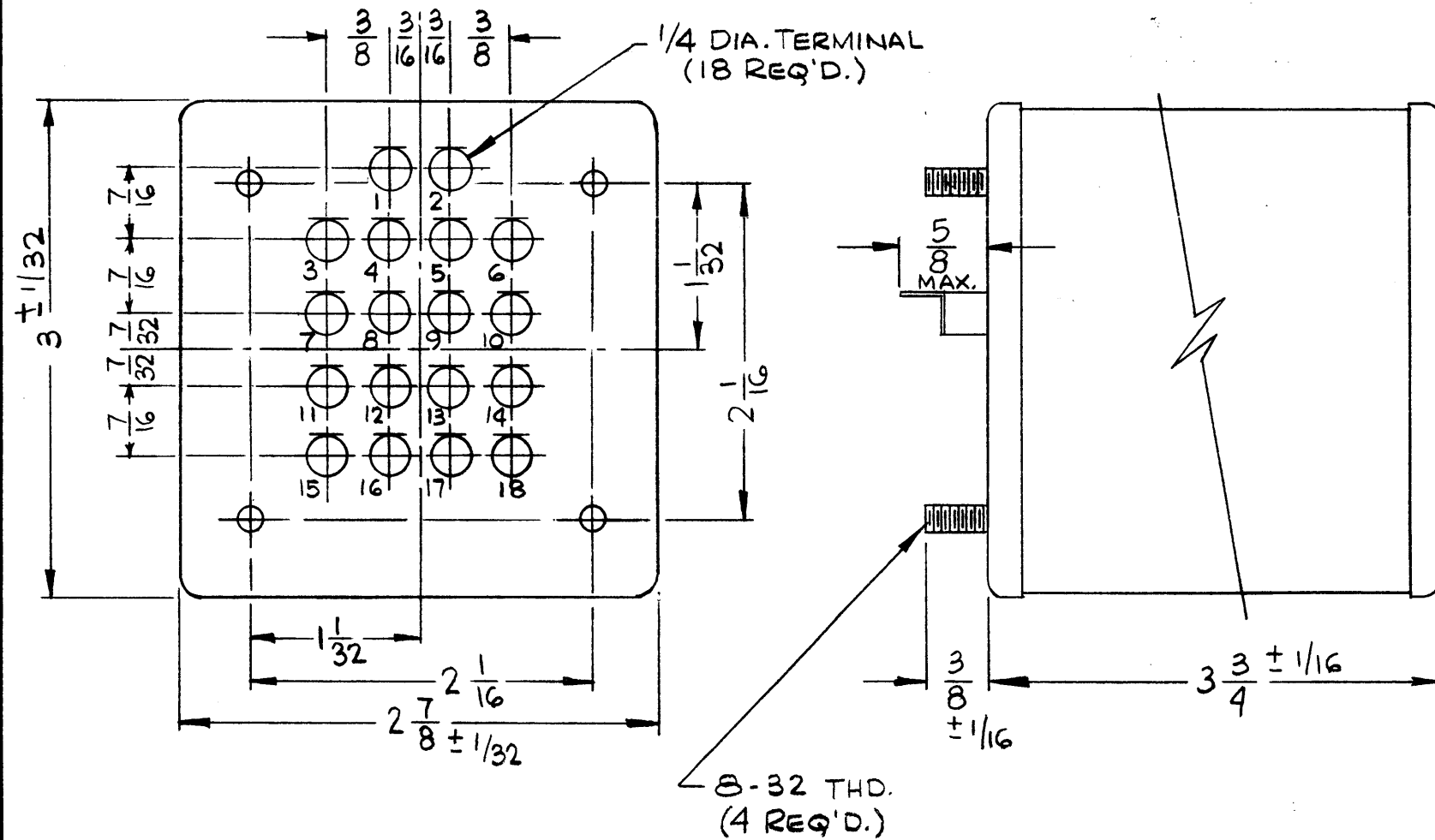
NOTES



MOUNTING DETAIL

TF331

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



- ELECTRICAL SPECIFICATIONS —
- TRANSFORMER, H V POWER
 - COIL DATA:
PRIMARY WINDING: SEE PICTORIAL
SECONDARY WINDING: SEE PICTORIAL
- MECHANICAL SPECIFICATIONS —
- CASE DATA:
A. HERMETICALLY SEALED
B. RECTANGULAR STEEL CASE, MIL TYPE
C. BODY DIMENSIONS: 3" LONG
2 7/8" WIDE
3 3/4" HIGH
 - MOUNTING DATA:
A. MOUNTING METHOD: STUD
B. MTG. DIMENSIONS: (4) 8-32 STUDS ON 2 1/16" CTRS. - 3/8" HIGH
 - TERMINAL DATA: A-(18) TERMINALS
B-LUNDEY-250 E
 - FINISH: SMOOTH GRAY ENAMEL (TMC SPEC. S113) EXCEPT TERMINAL END
 - 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

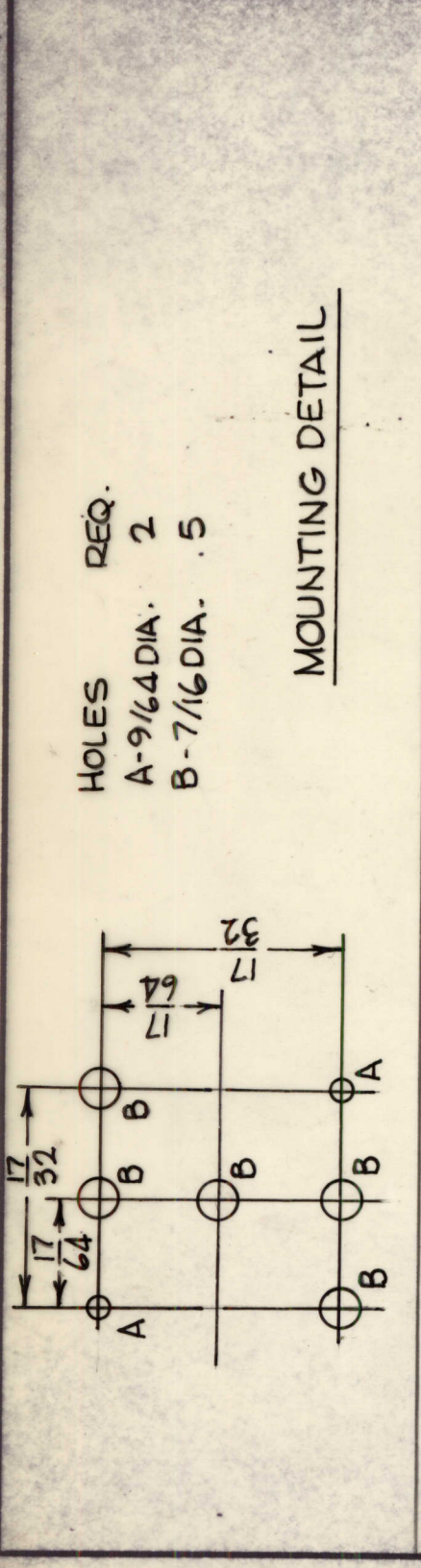
| REQ'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|---|------|-------------|--|--------------------------------------|
| POSE LIST OF MATERIAL | | | | |
| MATERIAL | | | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | |
| FINISH | | | TITLE TRANSFORMER, H.V. POWER | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | | DRAWN H. AUSTIN DATE 12-27-68 | FINAL APPROVAL DATE 8/7/69 |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | | | CHECKED DATE 1-6-66 | DATE 1-6-66 TF 331 Ø |
| FRACTIONS ± 1/64 ANGLES ± 0° 30' | | | ELECT. DES. DATE 1-6-66 | MECH. DES. DATE |
| TOLERANCES | | | SHEET M/L Aklen | 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 | CODE | |
| | C | 5401-30 (7021) |

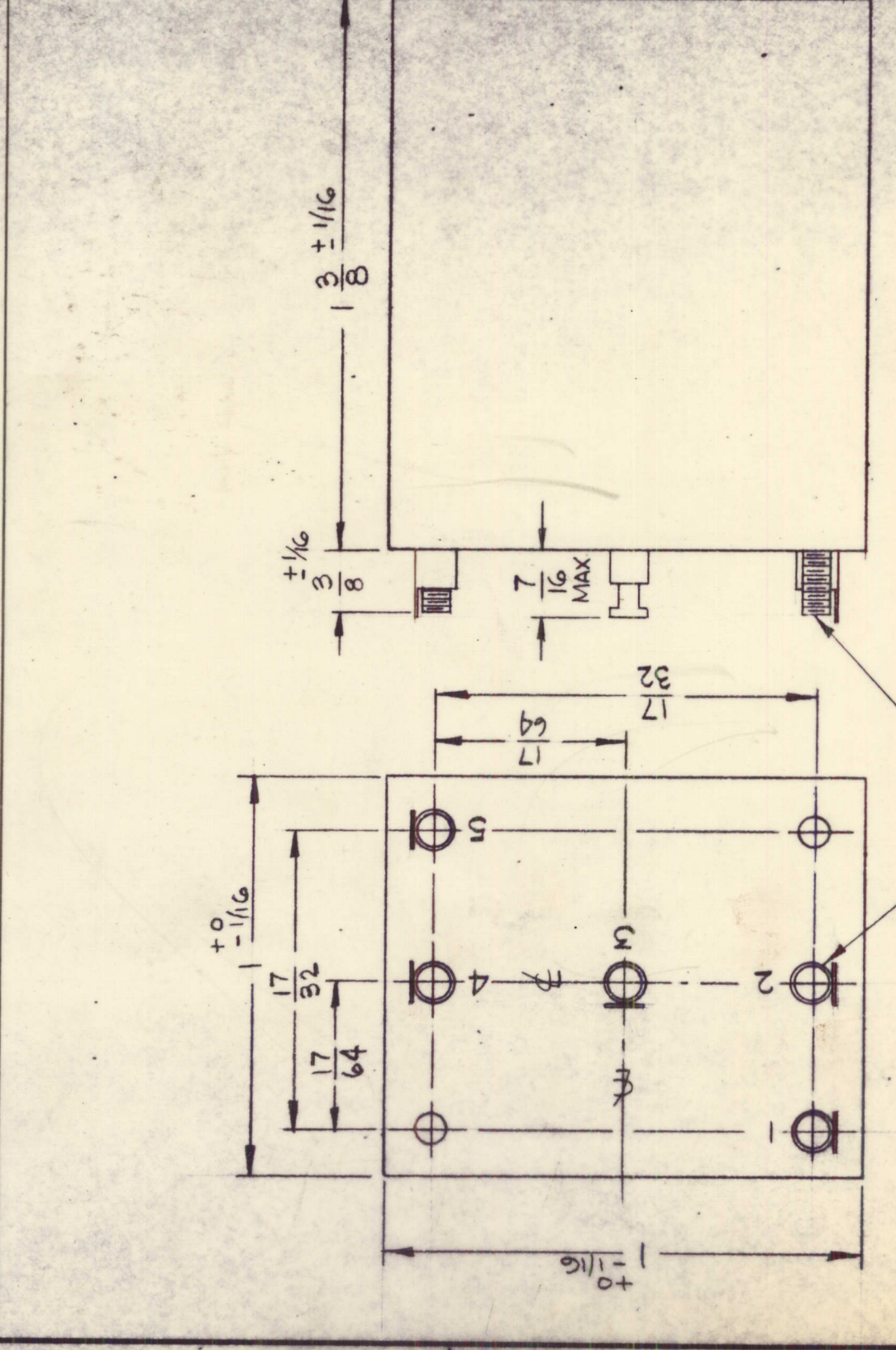
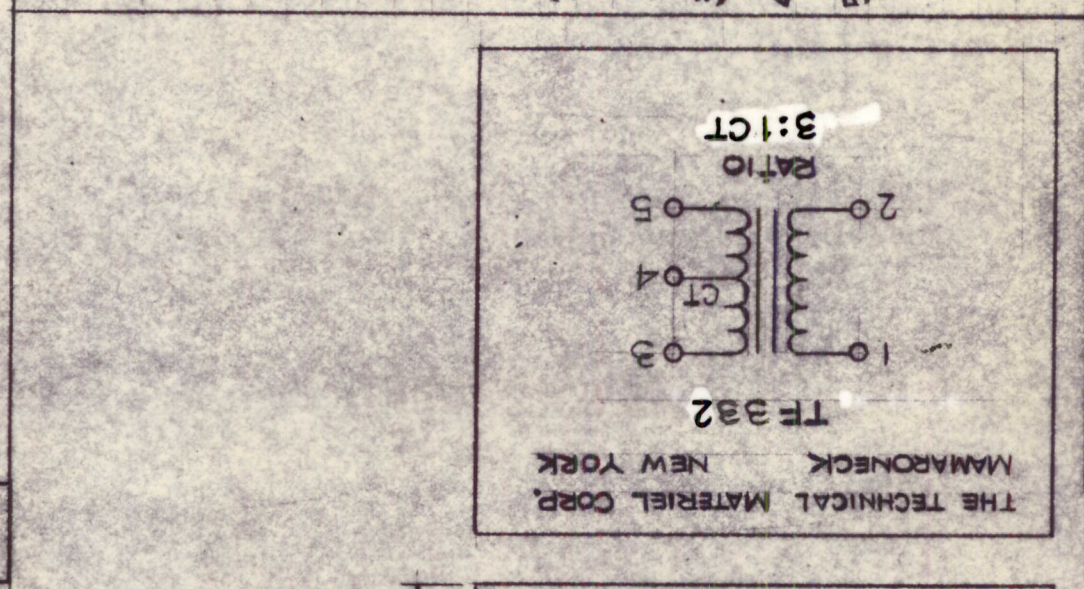
| | | | | | | | | | | | | | |
|--------|--|---------------------------------|--|--------|--|------------|--|-------|--|------|--|------|--|
| SYMBOL | | DESCRIPTION | | DATE | | E.M.N. NO. | | DRAFT | | CHKD | | APPD | |
| TF 332 | | ORIGINAL RELEASE FOR PRODUCTION | | 8/7/69 | | Φ | | ω | | | | | |



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

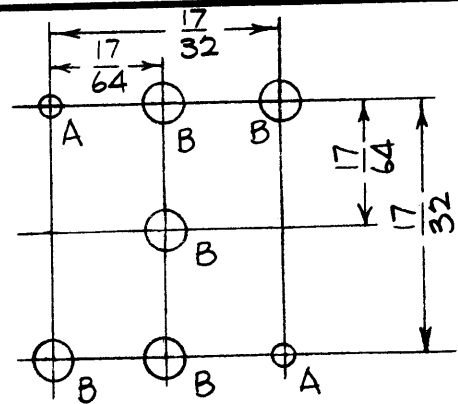
MOUNTING DETAIL

- ELECTRICAL SPECIFICATIONS
- TRANSFORMER, L.V. INVERTER
 - COIL DATA:
 PRIMARY WINDING: SEE PICTORIAL
 SECONDARY WINDING: SEE PICTORIAL
- 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. 5727
- TEST VOLTAGE: 300 V



| | | | | |
|--|----------|---------------|--|---|
| REQ'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
| | POSE | | LIST OF MATERIAL | |
| | MATERIAL | | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | |
| | FINISH | | TRANSFORMER, L.V. INVERTER | |
| Q'TY./UNIT | SCALE | MODEL USED ON | ABBY. NO. | |
| — | — | C | S401-30 (7020) | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES TOLERANCES DECIMALS ± 1/64 ANGLES ± 0° 30' FRACTIONS ± 1/64 ANGLES ± 0° 30' | | | | DRAWN H. AUSTIN CHECKED [Signature] ELECT. DES. [Signature] MECH. DES. [Signature] |
| DATE 12-21-65 DATE 1-6-66 DATE 1-6-66 DATE 1/6/66 | | | | FINAL APPROVAL [Signature] DATE 8/7/69 SHEET TF 332 REV. LTR. 0 |
| 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. | | | | M/L Allen 1/6/66 |

NOTES

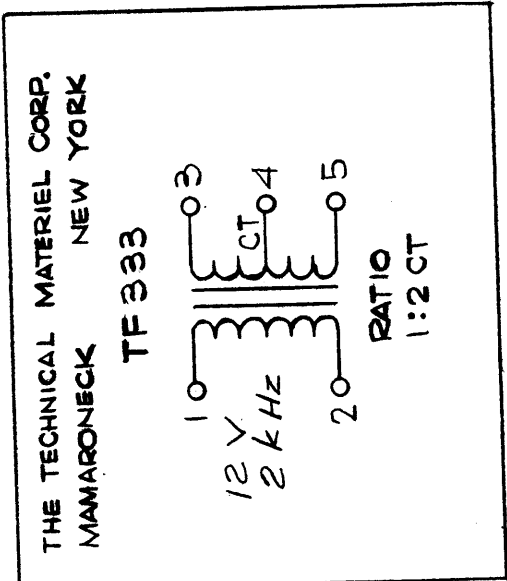
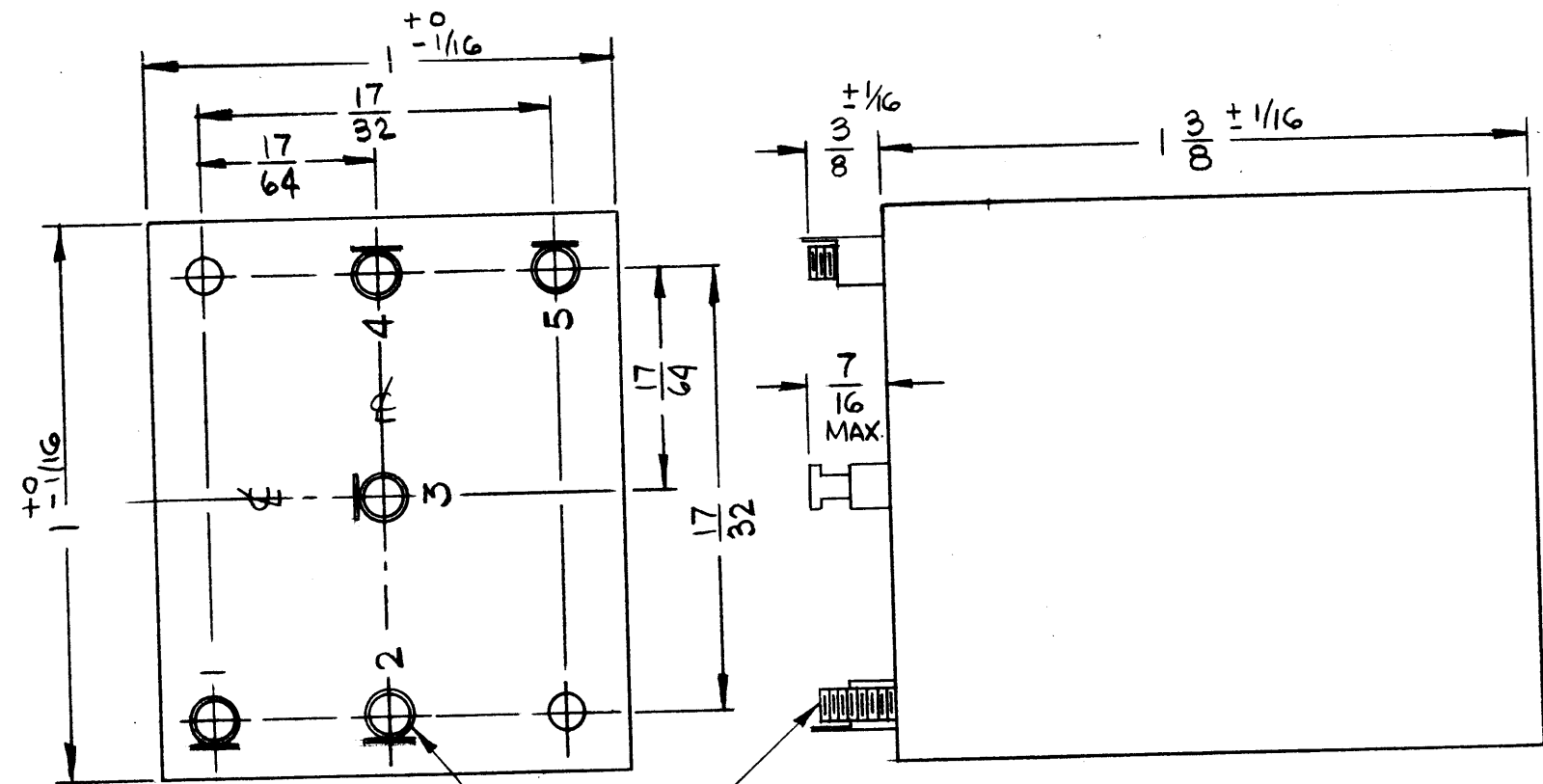


HOLES REQ
 A-9/64 DIA. 2
 B-7/16 DIA. 5

MOUNTING DETAIL

TF 333

| REVISIONS | | | | | |
|-----------|---------------------------------|---------|------------|--------------------|--------------------|
| SYM | DESCRIPTION | DATE | E.M.N. NO. | DRAFT | CHKD APPD |
| X1 | ELECT. SPEC. NO. 3 ADDED | 12-4-67 | # | <i>[Signature]</i> | <i>[Signature]</i> |
| Ø | ORIGINAL RELEASE FOR PRODUCTION | 12-6-67 | Ø | C.V. | <i>[Signature]</i> |



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

NOTES: ELECTRICAL:

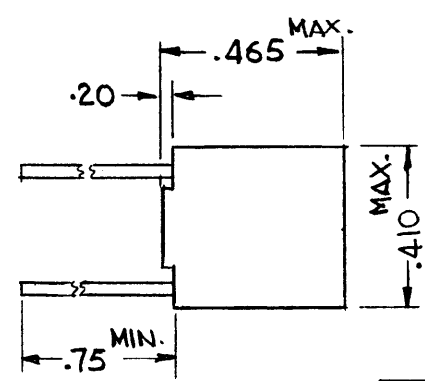
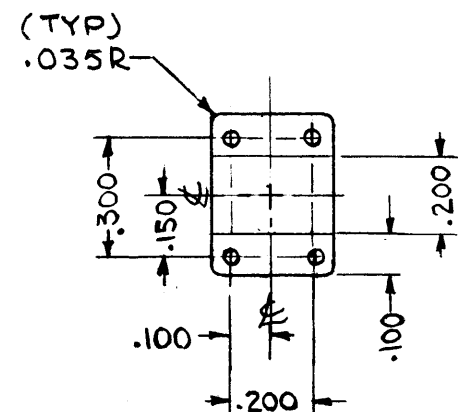
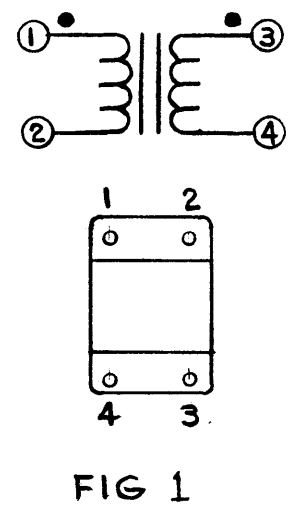
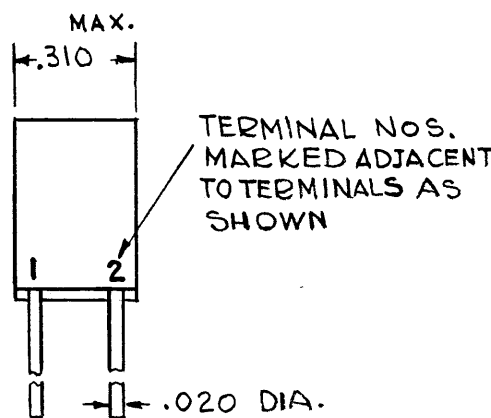
1. DIELECTRIC STRENGTH 500 VRMS, 60 CYCLES BETWEEN WINDINGS AND EACH WINDING TO CASE.
2. INSULATION RESISTANCE 10K MEGOHMS MINIMUM @ 500 VDC.
3. WORKING VOLTS: 150 MAXIMUM

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 |
|---|------------|--|---|-----------------------------|
| LIST OF MATERIAL | | | | |
| MATERIAL | | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | | |
| FINISH | | TITLE TRANSFORMER, TRANSISTOR | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | DRAWN G.D.L. DATE 9-27-65 CHECKED JPB DATE 10/5/65 ELECT. DES. JPB DATE 10/5/65 MECH. DES. DATE | FINAL APPROVAL [Signature] TF 334 | DATE 10/5/65 REV. LTR. Ø |
| DECIMALS | TOLERANCES | | FRACTIONS | SHEET |
| .X ± .05 .XX ± .01 .XXX ± .005 | | | ± 1/64 ANGLES ± 0° 30' | |

| | | |
|---|---------------|------------|
| 1 | SPU - 2 | |
| QTY./UNIT | MODEL USED ON | ASS'Y. NO. |
| DO NOT SCALE | C | 6401-159 |
| 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. | | |

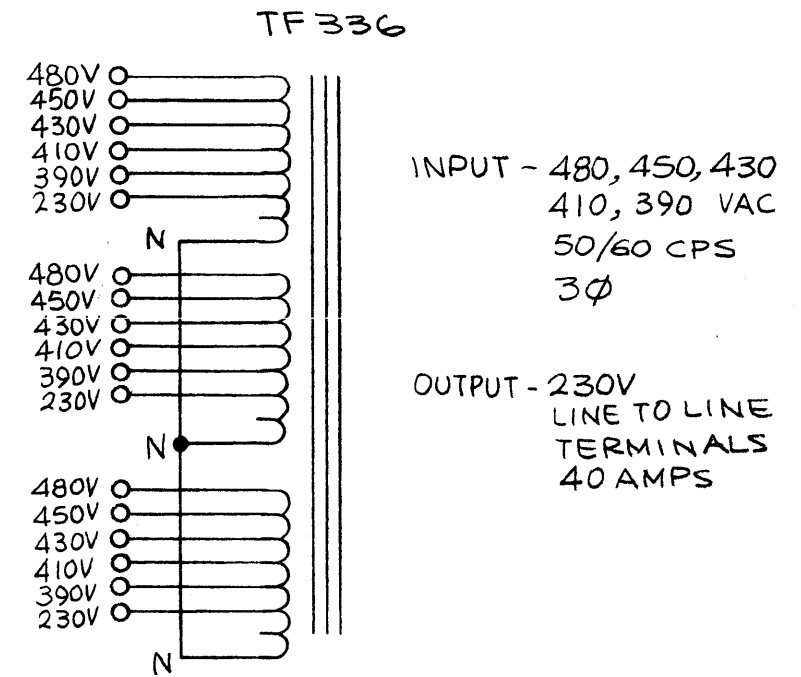
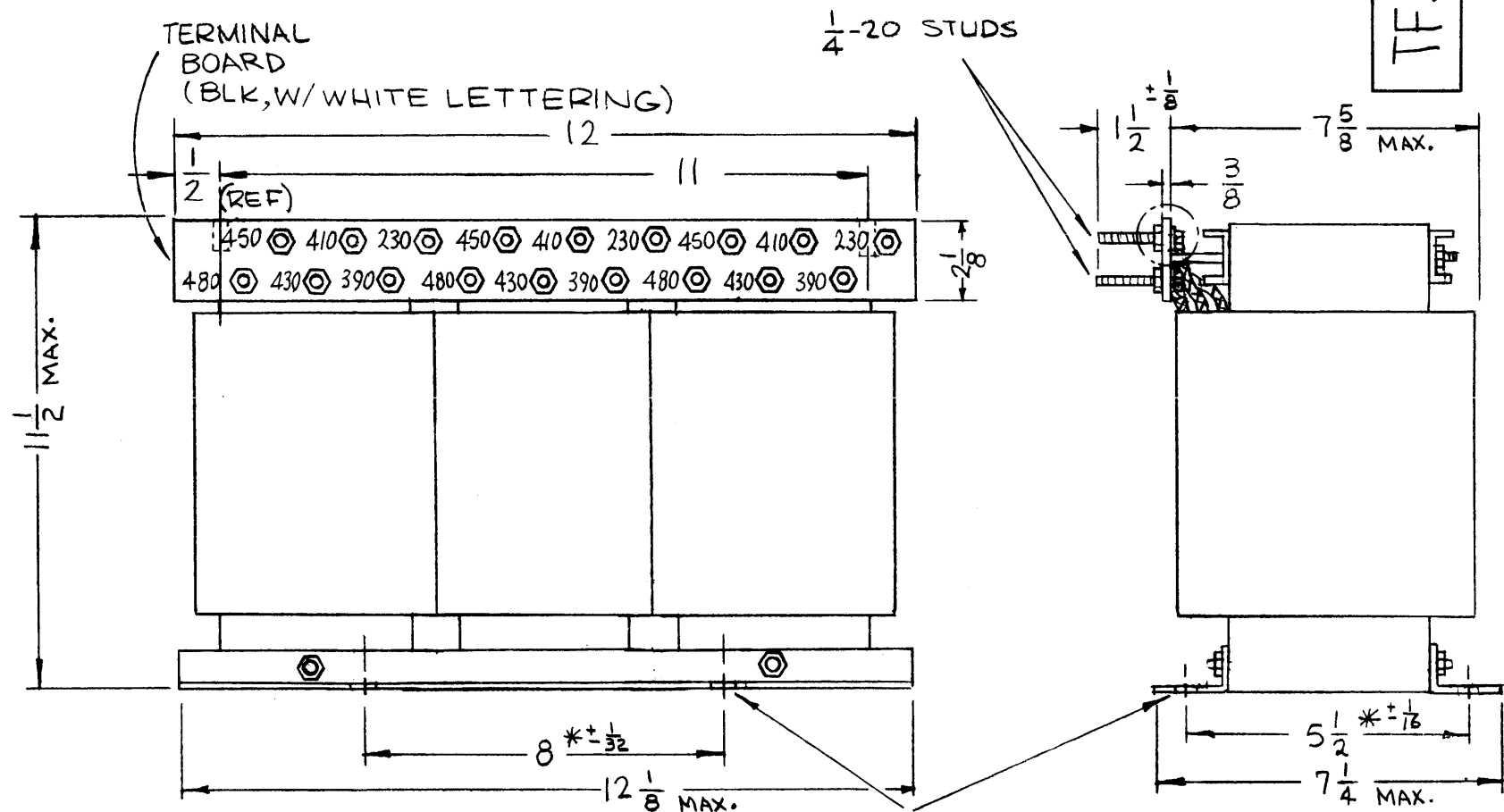
NOTES

B
TF336

REVISIONS

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

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK
NEW YORK



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

| | | |
|---|---------------|----------------|
| 1 | GPT-40K | |
| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO. |
| SCALE NONE | CODE C | 5401-30 (7168) |
| 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 TRANSFORMER, POWER, FIXED | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | DRAWN 11-30-65 | DATE 11-30-65 | FINAL APPROVAL 6/27/66 |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | | CHECKED 6-24-66 | DATE 6-24-66 | DATE 6-24-66 |
| FRACTIONS ± 1/64 ANGLES ± 0° 30' | | ELECT. DES. 6-24-66 | DATE 6-24-66 | DATE 6-24-66 |
| TOLERANCES | | MECH. DES. | DATE | DATE |
| SHEET | | | TF336 | B |
| REV. LTR. | | | | |

5

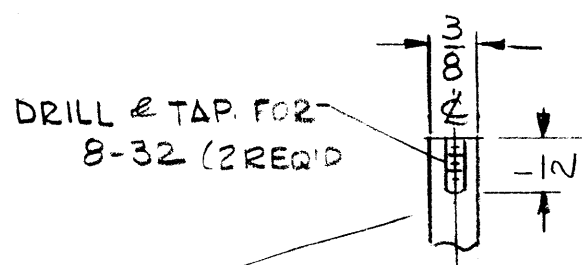
4

3

2

1

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



D

D

C

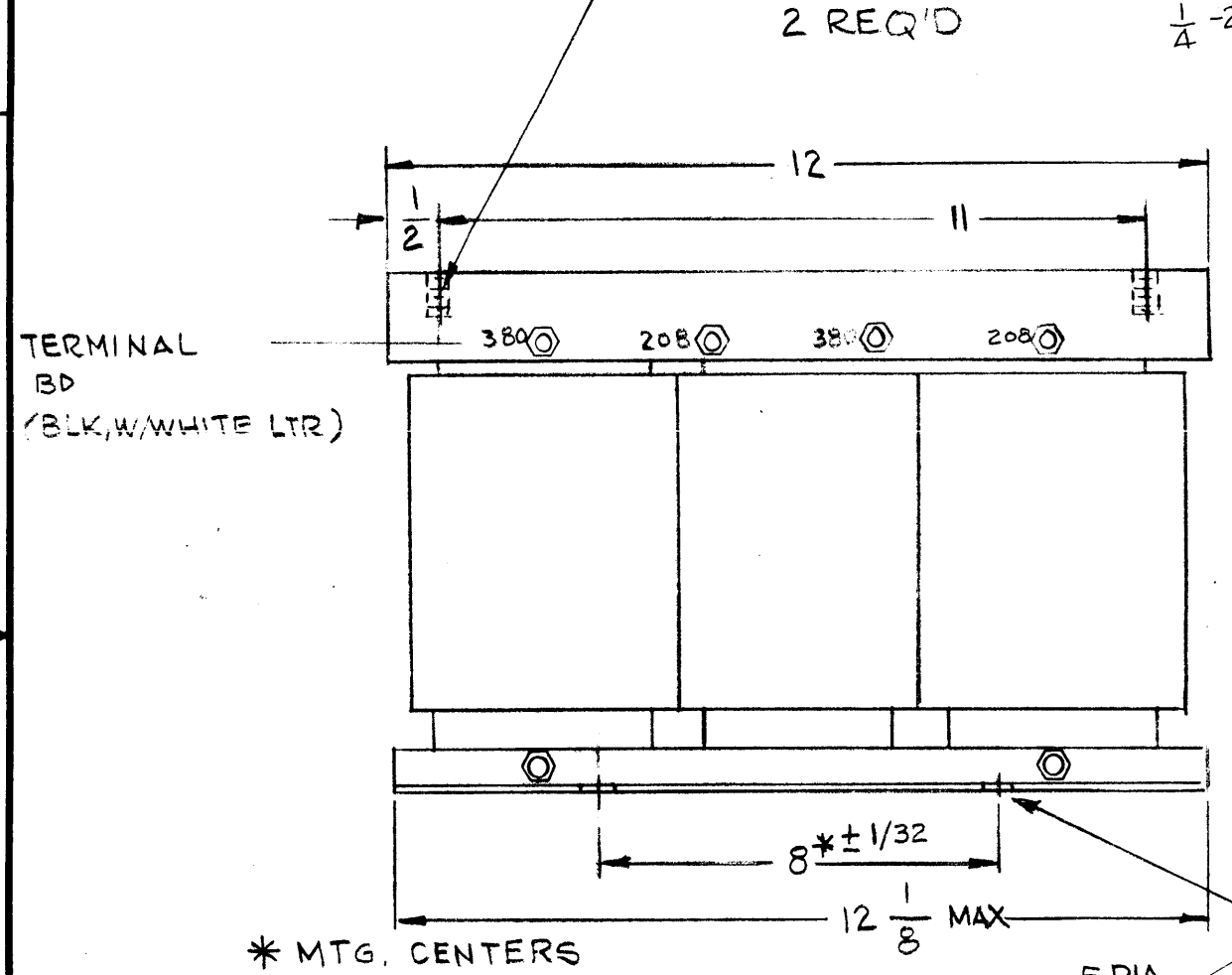
C

B

B

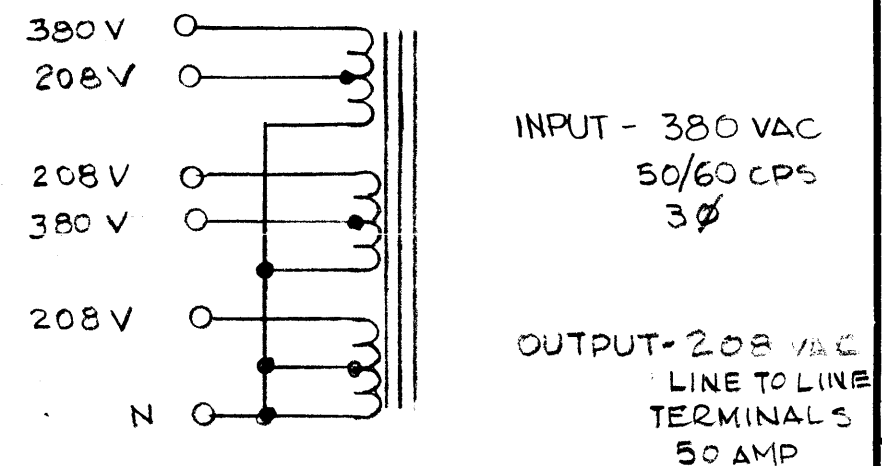
A

A



THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK

TF 336 A



SCHEMATIC - TO BE STAMPED ON XFMR IN WHITE

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

| 1 | GPT-40K | |
|---|---------------|----------------|
| QTY / UNIT | MODEL USED ON | ASS'Y NO. |
| APPLICATION | | |
| | CODE | 5401-30 (7128) |
| NOTICE TO PERSONS RECEIVING THIS DRAWING 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 .X ± .05 .XX ± .01 .XXX ± .005 | FRACTIONS 1/64 ANGLES 0°-30' |
| MATERIAL | |
| FINISH | |

| REQ'D | ITEM | PART NUMBER | DESCRIPTION | SYM. |
|-------------------|-----------------|-------------|-------------|------|
| LIST OF MATERIAL | | | | |
| FINAL APPROVAL | | | | |
| MECH. DES. | | | | |
| ELECT. DES. | | | | |
| CHECKED | | | | |
| DRAWN G. De LO V. | | | | |
| DATE 2-4-93 | | | | |
| SIZE | CODE IDENT. NO. | DWG NO. | ISSUE | |
| B | 82679 | TF 336 A | C | |
| SCALE | 1:1 | SHEET | OF | |

THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

TRANSFORMER POWER FIXED

5

4

3

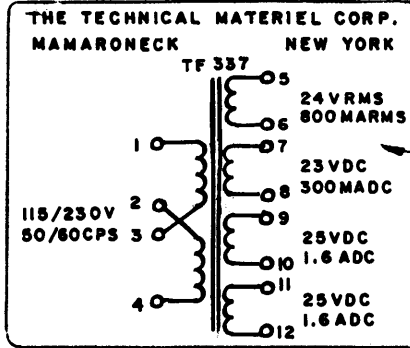
2

1

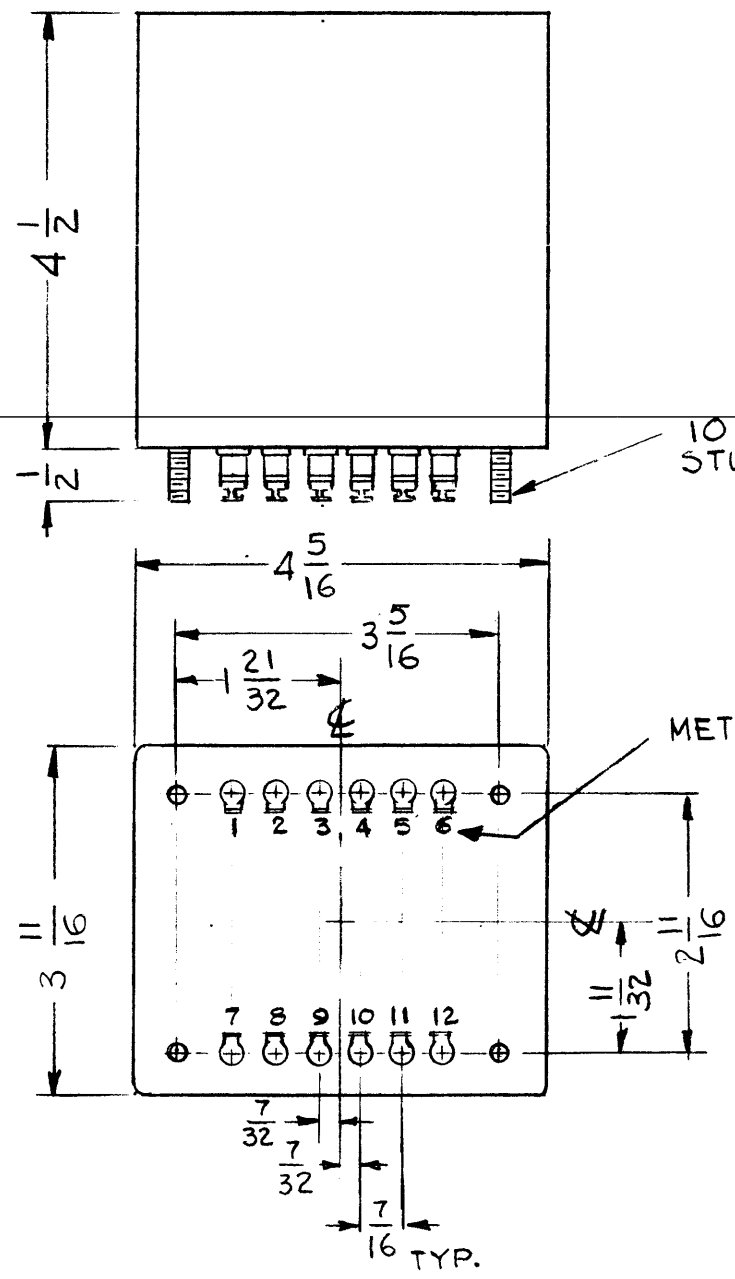
STANDARD DRAWING

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-

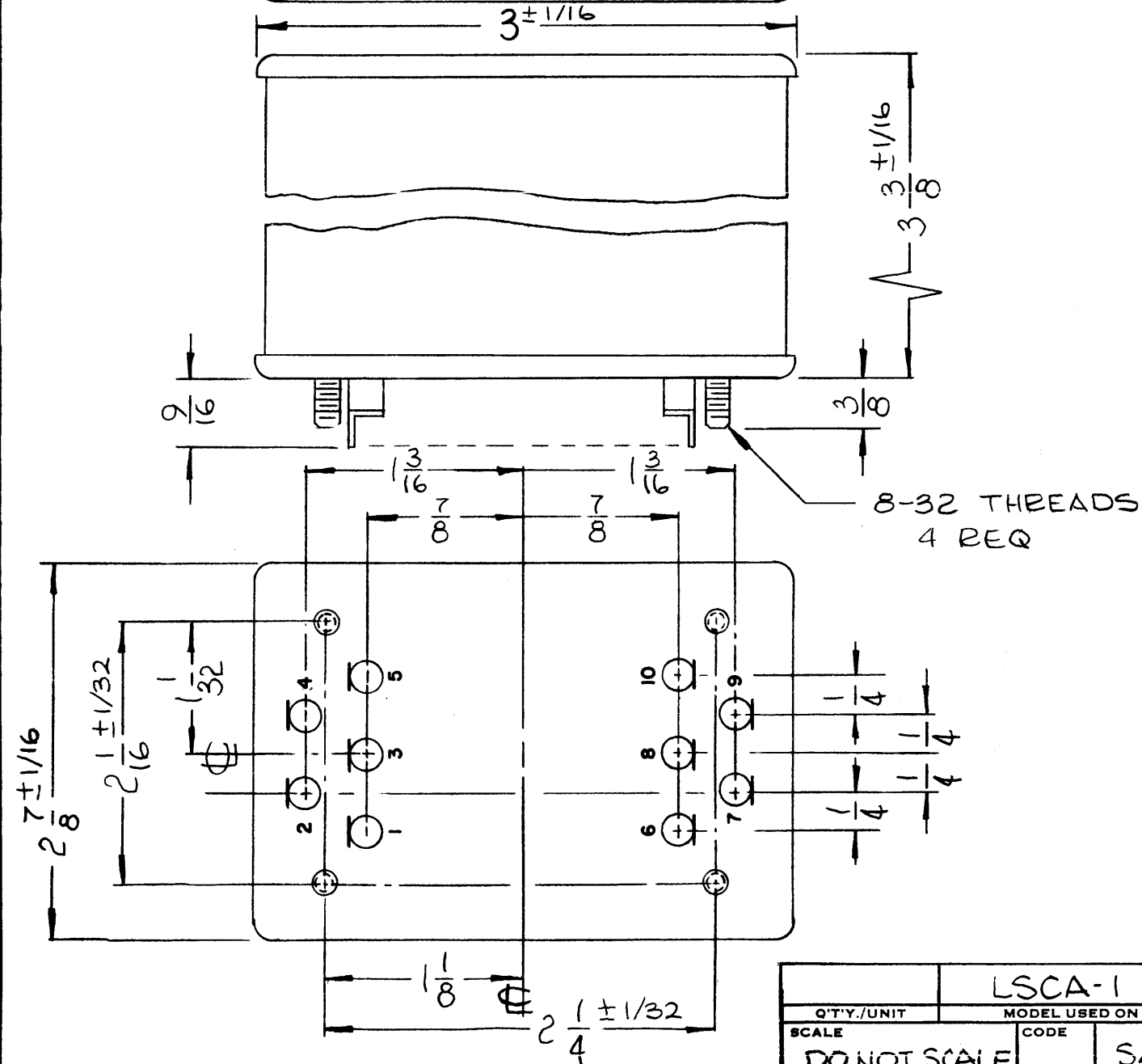
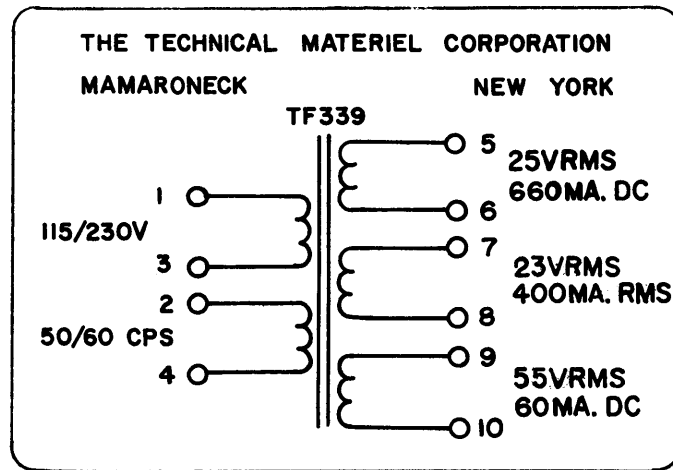
TRANSFORMER, POWER
CASE DATA:
 HERMETICALLY SEALED
 FULLY INCLOSED
 FINISH: SMOOTH GRAY ENAMEL (TMC SPEC S115) EXCEPT TERM. END
PRIMARY WINDING:
 VOLTAGE: 115V, 230V
 FREQUENCY: 50/60CPS
 PHASE: ONE
SECONDARY WINDING
 24VRMS, 800MARMs, 23VDC, 30MADC, 25VDC 1.6ADC, 25VDC 1.6ADC
BODY DIMENSIONS: 4-5/16" 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

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

| | | |
|---|---------------|------------------|
| 1 | RTPH | |
| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO. |
| SCALE 1:2 | CODE | S401-30 (7 1985) |
| 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



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.

| 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 | Ø | CV | | |

TF339

SPECIFICATIONS

ELECTRICAL:

- TRANSFORMER, POWER (ISOLATION & STEP-DOWN)
- 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

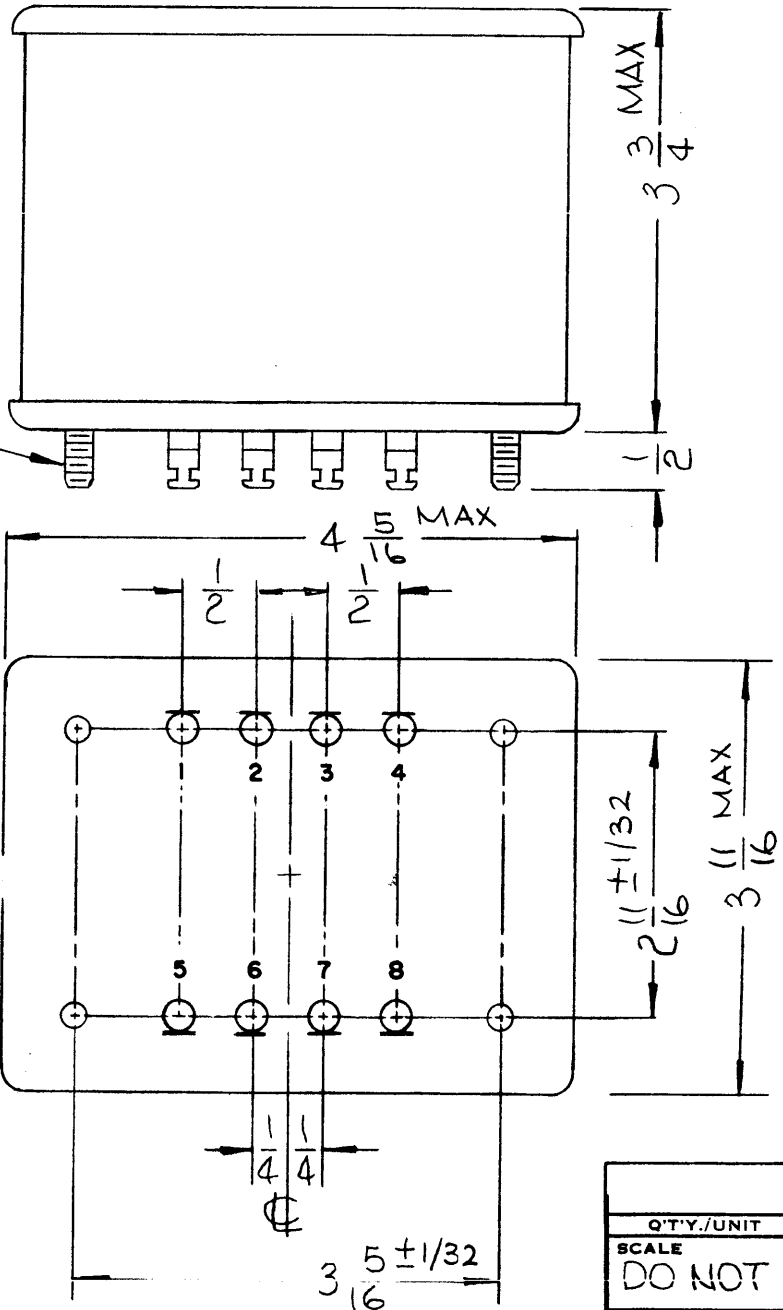
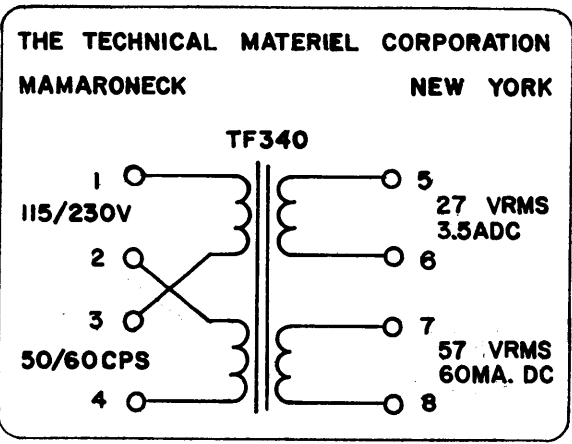
MECHANICAL:

- CASE DATA:
 - A. HERMETICALLY SEALED
 - B. RECTANGULAR STEEL CASE, MIL TYPE Y-Y
 - C. BODY DIM: SEE PICTORIAL
- 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
- TERMINAL DATA:
 - A. 10 TERMINALS
 - B. SOLDER TYPE 9/16 HIGH INSULATED
- FINISH: SMOOTH GRAY ENAMEL (TMC SPEC S115) EXCEPT TERMINAL END
- 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 | | THE TECHNICAL MATERIEL CORP. 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 WMM | DATE | FINAL APPROVAL MAM | DATE 9/22/66 |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | | CHECKED JC | DATE | SHEET | |
| FRACTIONS ± 1/64 ANGLES ± 0° 30' | | ELECT. DES. JC | DATE 9-22-66 | REV. LTR. | |
| TOLERANCES | | MECH. DES. | DATE | SHEET | |

STANDARD DRAWING



| REVISED | | REVISIONS | | | | | |
|---------|---|---------------------------------|-------------|------|------------|-------|------|
| | | SYM | DESCRIPTION | DATE | E.M.N. NO. | DRAFT | CHKD |
| TF340 | X | EXPERIMENTAL RELEASE | 9/16/66 | VM | Jc | | |
| | X | ORIGINAL RELEASE FOR PRODUCTION | 9/23/66 | Φ | | | |

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 2600 UF 7&8 1700 UF (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 |
|--|-------------------|-------------|--|--|
| EATON LIST OF MATERIAL | | | | |
| MATERIAL | | | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | |
| FINISH | | | TITLE XFRMR, POWER | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | | | |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | TOLERANCES | | FRACTIONS ± 1/64 ANGLES ± 0° 30' | DRAWN <i>WHD</i> CHECKED <i>QCB</i> ELECT. DES. <i>WHD</i> MECH. DES. |
| DATE | | DATE | | DATE |
| 9-22-66 | | 9-22-66 | | 9/22/66 |
| SHEET | | | TF340 | |
| REV. LTR. | | | Φ | |

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.

| SYM | DESCRIPTION | DATE | ENGR. NO. | 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'TERM & DOWN. ADDED. QTY OF 10-32 STUDS 23 WAS 22 | 11-25-68 | 19102 | | |

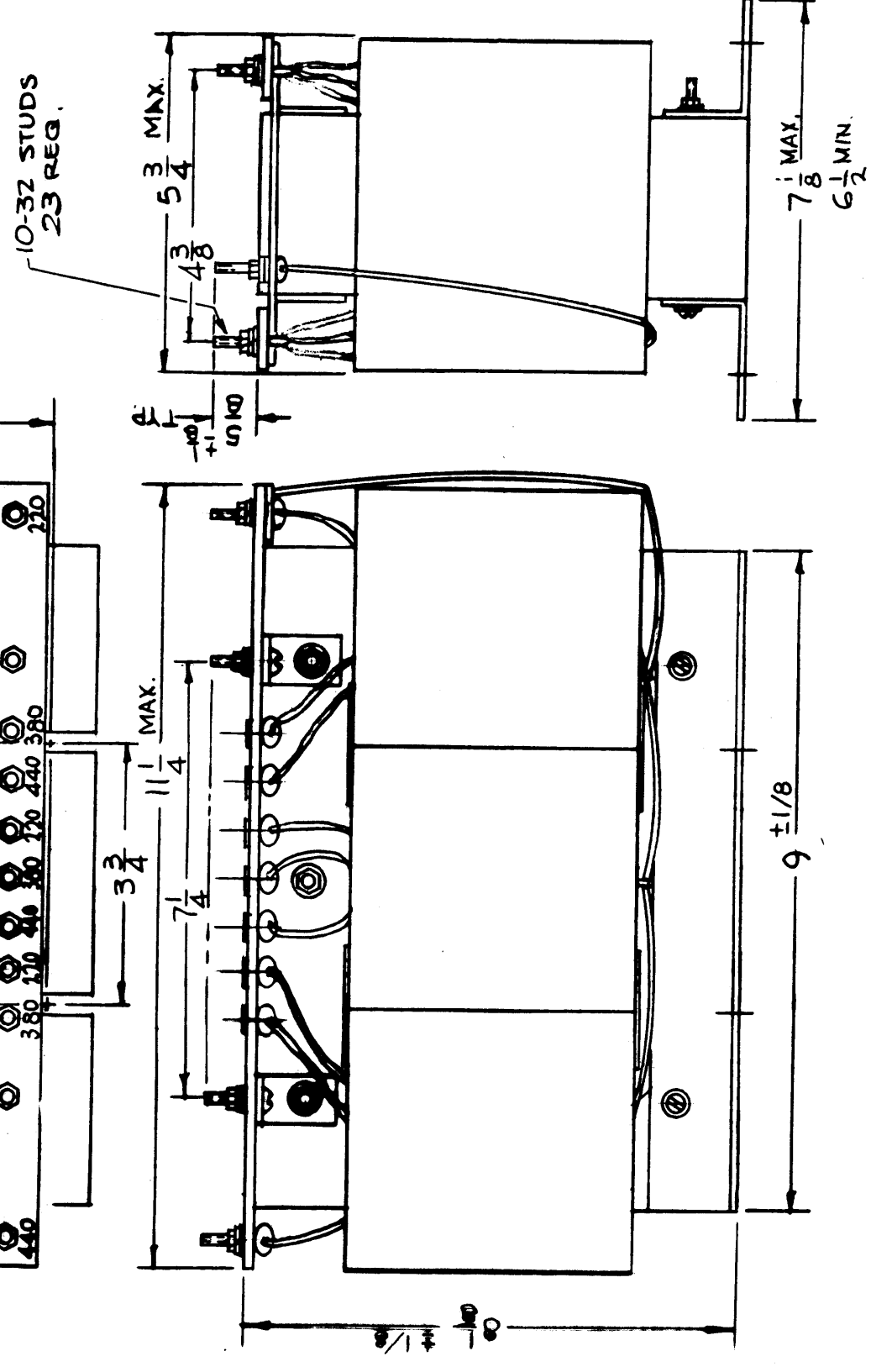
REVISIONS

TF 342

MARK TOP IN BLACK GOTHIC. SEE SCHEMATIC AT RIGHT

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK
TF342

10-32 STUDS 23 REG.



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

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

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

SCHEMATIC DIAGRAM

| REV'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|--------|---|-------------|--|----------------|
| | F. BUDETTI | | LIST OF MATERIAL | |
| | MATERIAL | | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | |
| | FUNCTION | | TRANSFORMER, AUTO. | |
| | SEE SPECS. | | | |
| | SEE SPECS. | | | |
| | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | | |
| | DECIMALS X ± .08 XX ± .01 XXX ± .005 | | | |
| | TOLERANCES | | | |
| | FRACTIONS ± 1/64 ANGLES ± 0 30' | | | |
| | DATE | DATE | DATE | DATE |
| | DRAWN | CHECKED | ELECT. DESIGNED | MECH. DESIGNED |
| | DATE | DATE | DATE | DATE |
| | FINAL APPROVAL | | | |
| | | | TF 342 | A |
| | | | SHEET | |
| | | | | |

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

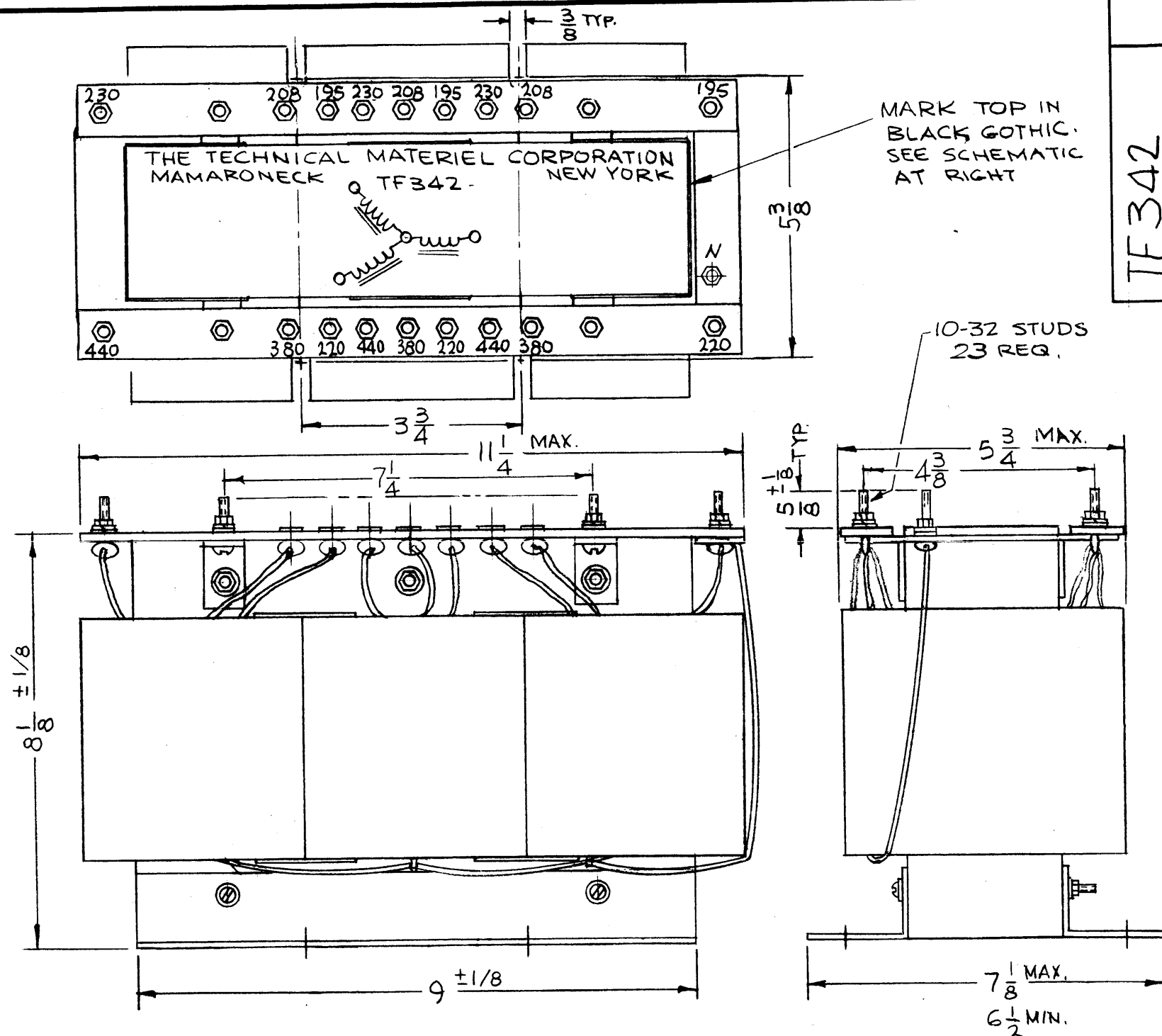
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QTY./UNIT
SCALE (1:3)
DO NOT SCALE

RAK 111-2
RAK 110-2
MODEL USED ON

BMA 15B
BMA 156
ASBY. NO.

C
S401-30 (BIC 7445)



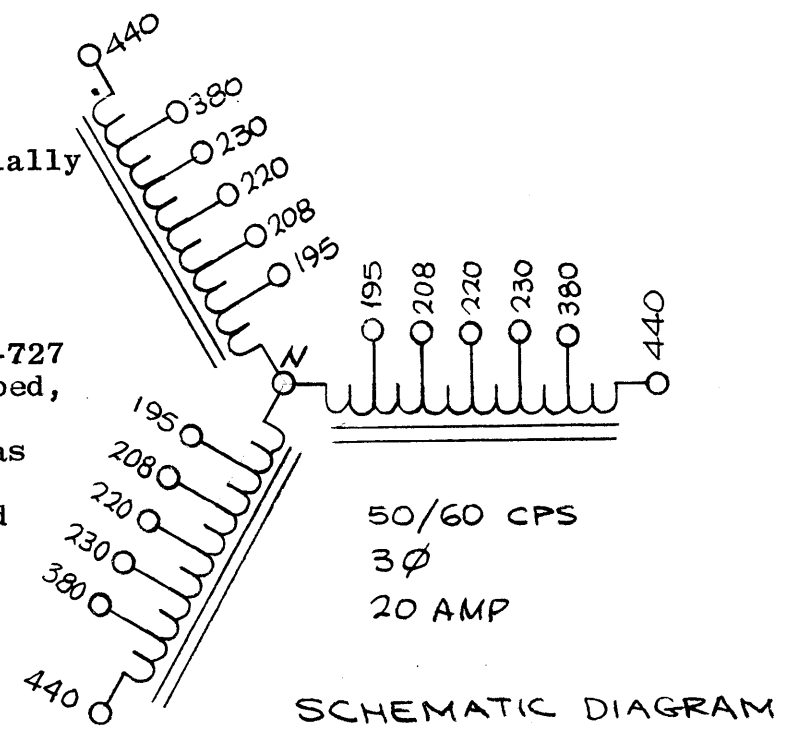
TF342

| 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.P.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

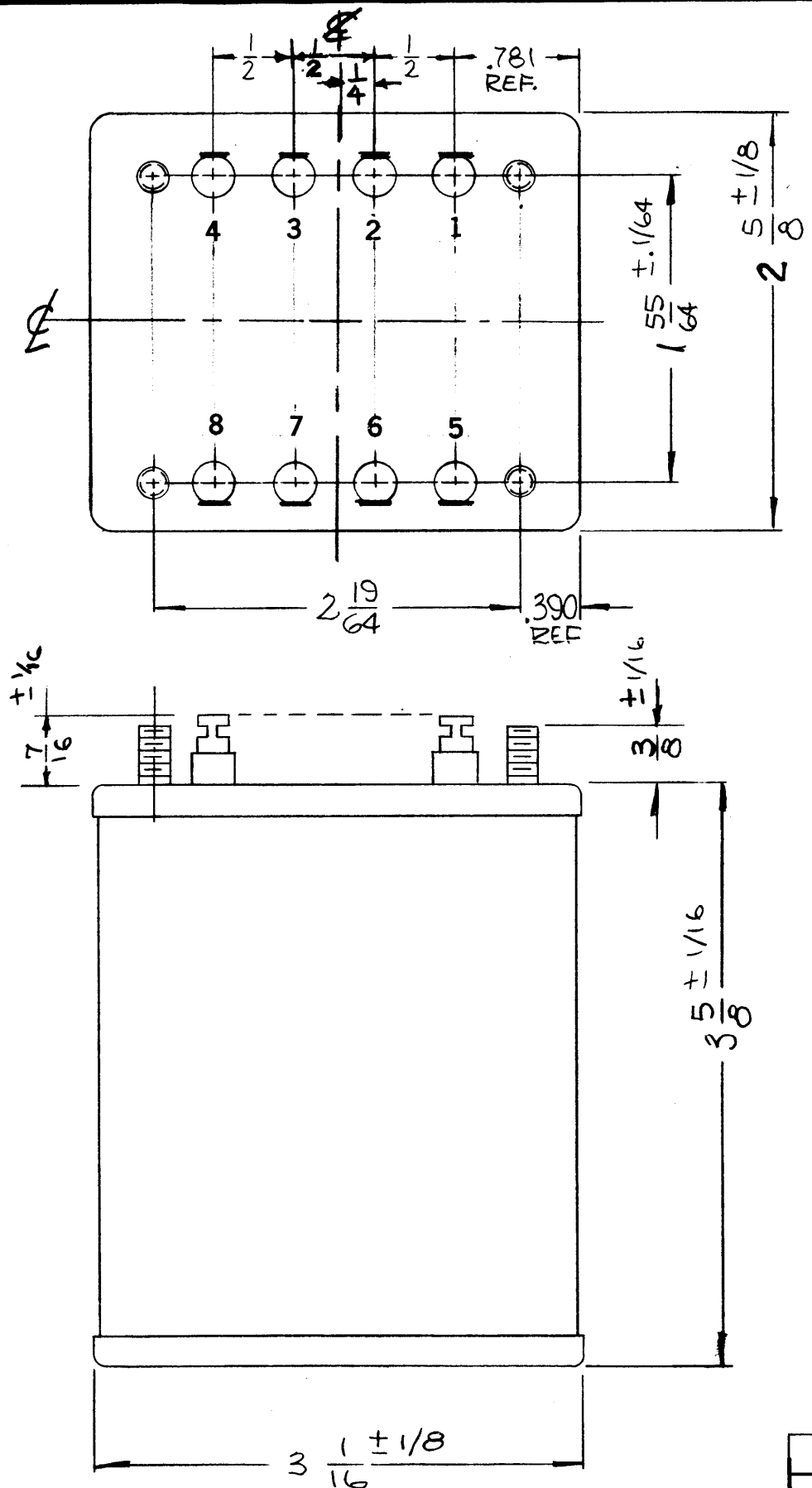
| QTY./UNIT | MODEL USED ON | ASSY. NO. |
|-----------------------------|---------------|-------------------|
| 1 | RAK III-2 | BMA 15B |
| 1 | RAK II-2 | BMA 156 |
| SCALE (1:3) DO NOT SCALE | CODE C | 5401-30 (BTC7445) |

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 | | | | |
| 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 6-8-66 | FINAL APPROVAL DATE 2/7/67 |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | | | CHECKED DATE | TF342 |
| FRACTIONS ± 1/64 ANGLES ± 0° 30' | | | ELECT. DES. DATE | A |
| TOLERANCES | | | MECH. DES. DATE | REV. LTR. |

M/L 3/1/67

STANDARD DRAWING



TF343

| REVISIONS | | | | | | |
|-----------|---------------------------------|---------|------------|-------|------|------|
| SYM | DESCRIPTION | DATE | E.M.N. NO. | DRAFT | CHKD | APPD |
| X | EXPERIMENTAL RELEASE | 6.2.66 | — | WV | JL | QF |
| Ø | ORIGINAL RELEASE FOR PRODUCTION | 6-28-66 | Ø | SDL | JL | QF |

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:

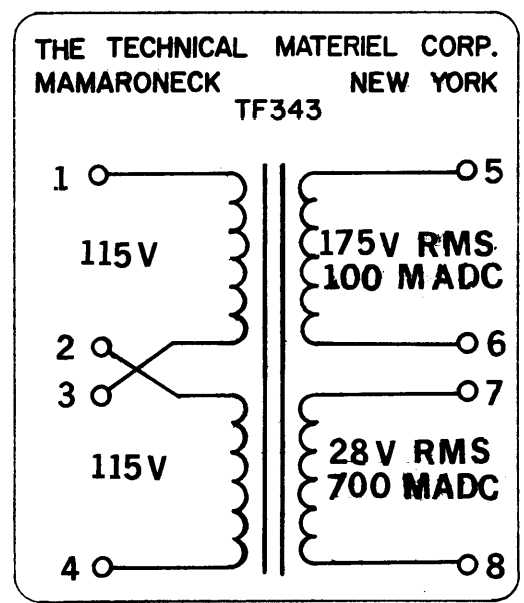
CASE: CR STEEL, HERMITICALLY SEALED
 FINISH: S115 TMC GRAY (EXCEPT STUD END)
 DIMENSIONS: SHOWN PICTORIALY
 TERMINALS: SOLDER LUG TYPE, CERAMIC STANDOFF
 MTG. STUDS: 8-32 x 3/8 LONG

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.

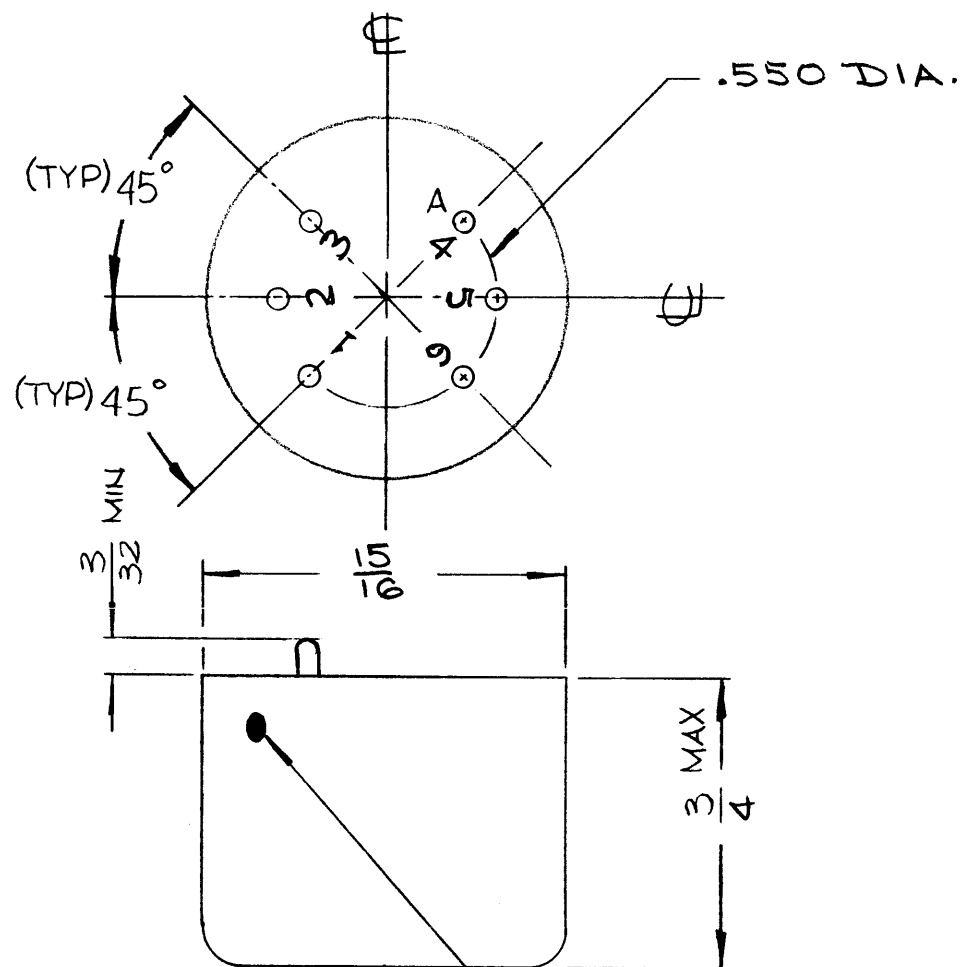


NOTES

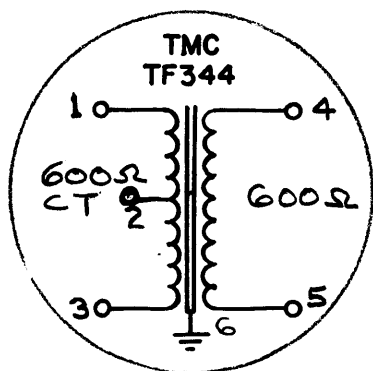
| | | |
|---|---------------|------------------|
| 1 | CFA-2 | |
| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO. |
| SCALE 1/1 | CODE | S401-30(BTC7315) |
| THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY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

| REQ'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|---|------|--|----------------|----------------------------|
| LIST OF MATERIAL | | | | |
| MATERIAL | | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | | |
| FINISH | | TITLE TRANSFORMER, ISOLATION & STEP-DOWN & STEP-UP | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | DRAWN WV | DATE 6.2.66 | FINAL APPROVAL [Signature] |
| | | CHECKED JL | DATE 6-13-66 | DATE 6/28/66 |
| DECIMALS .X ± .05 .XX ± .01 .XXX ± .005 | | ELECT. DES. [Signature] | | DATE |
| FRACTIONS ± 1/64 ANGLES ± 0° 30' | | MECH. DES. [Signature] | | DATE |
| | | | TITLE TF343 | REV. LTR. Ø |
| | | | SHEET | |

STANDARD DRAWING



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 | # | WHD | H | AD |
| Ø | ORIGINAL RELEASE FOR PRODUCTION | 6/27/66 | Ø | CV | | file |

TF344

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 |
|---|------|--|-------------|----------------|
| LIST OF MATERIAL | | | | |
| MATERIAL | | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | | |
| FINISH | | TITLE TRANSFORMER, AUDIO | | |
| SEE SPEC. | | SEE SPEC. | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | DRAWN | DATE | FINAL APPROVAL |
| | | WHD | 6.2.66 | WHD |
| | | CHECKED | DATE | DATE |
| | | HQ | 6-13-66 | 6/29/66 |
| | | ELECT. DES. | DATE | DATE |
| | | A. D. Dallas | 6-29-66 | 6-29-66 |
| | | MECH. DES. | DATE | DATE |
| | | | 6-29-66 | 6-29-66 |
| | | SHEET | | REV. LTR. |
| | | 18 | | Ø |

| | | |
|------------|---------------|------------------|
| 2 | CFA-2 | |
| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO. |
| SCALE | CODE | S401 30(BTC7331) |

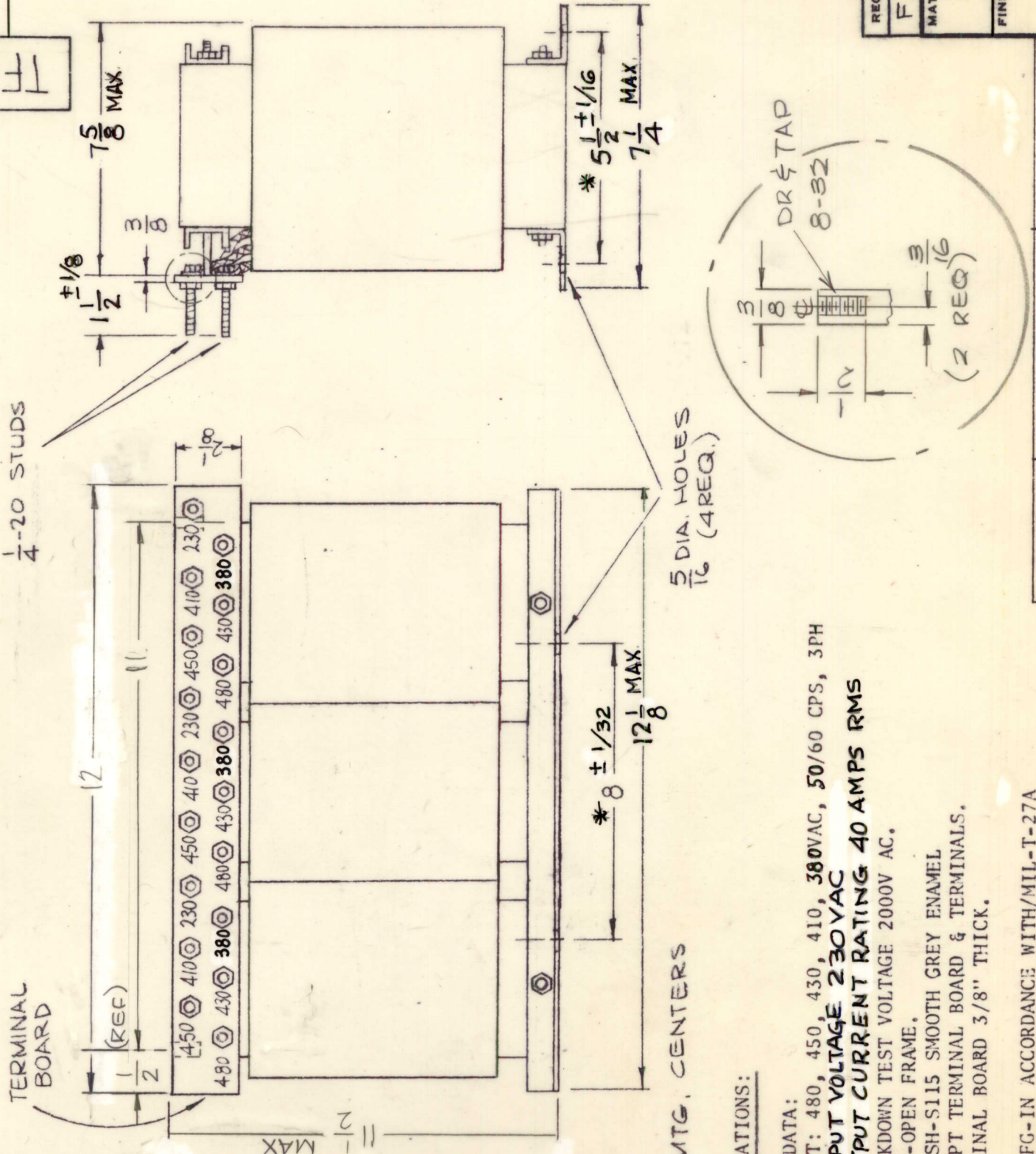
NOTES

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REVISIONS

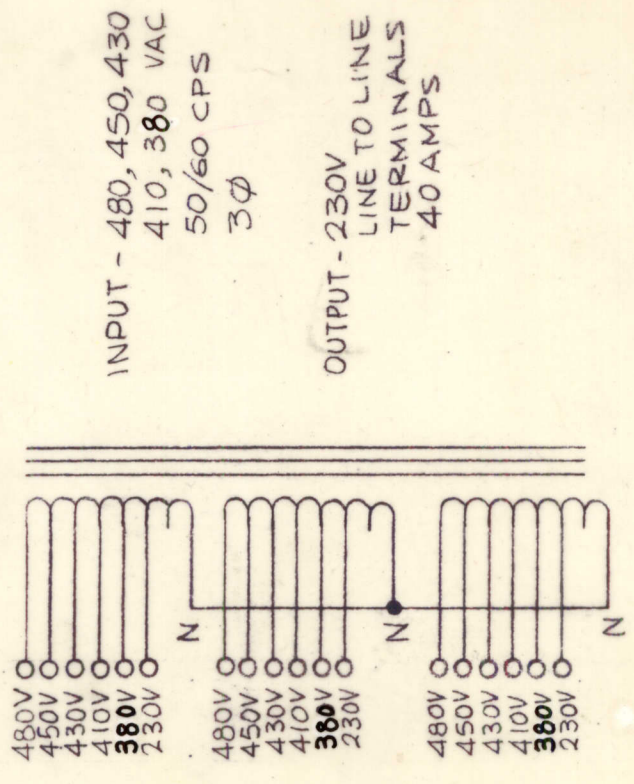
| SYM | DESCRIPTION | DATE | E.M.N. NO. | DRAFT | CHKD | APPD |
|-----|--|----------|------------|-------|------|------|
| X | EXPERIMENTAL RELEASE | 5/26/66 | M | Jc | | |
| XI | SPECS REVISED & OVERALL DIMENSIONS REVISED | 6-27-66 | XI | | | |
| Ø | ORIGINAL RELEASE FOR PROD | 9/14/66 | | | | |
| A | DIM 1/2 WAS 15-V/8, 11 & (2) 1/2 DIM ADDED SECT. A-A ADDED | 12/30/66 | 17588 | W40 | PP | |

TF345



THE TECHNICAL MATERIEL CORPORATION
MAMARONECK

TF345



SCHEMATIC - TO BE STAMPED ON XFMR.

SPECIFICATIONS:

- WINDING DATA:
- INPUT: 480, 450, 430, 410, 380VAC, 50/60 CPS, 3PH
 - OUTPUT VOLTAGE 230VAC
 - OUTPUT CURRENT RATING 40 AMPS 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 | |
| | MATERIAL | SEE SPECS | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | |
| | FINISH | SEE SPECS | 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 ± 1/84 ANGLES ± 0° 30' | |

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

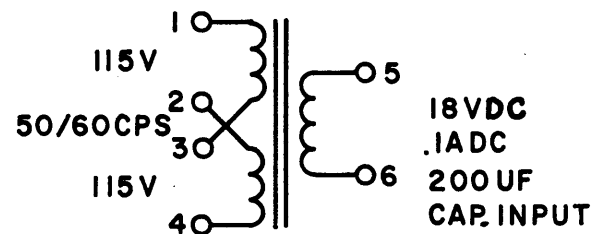
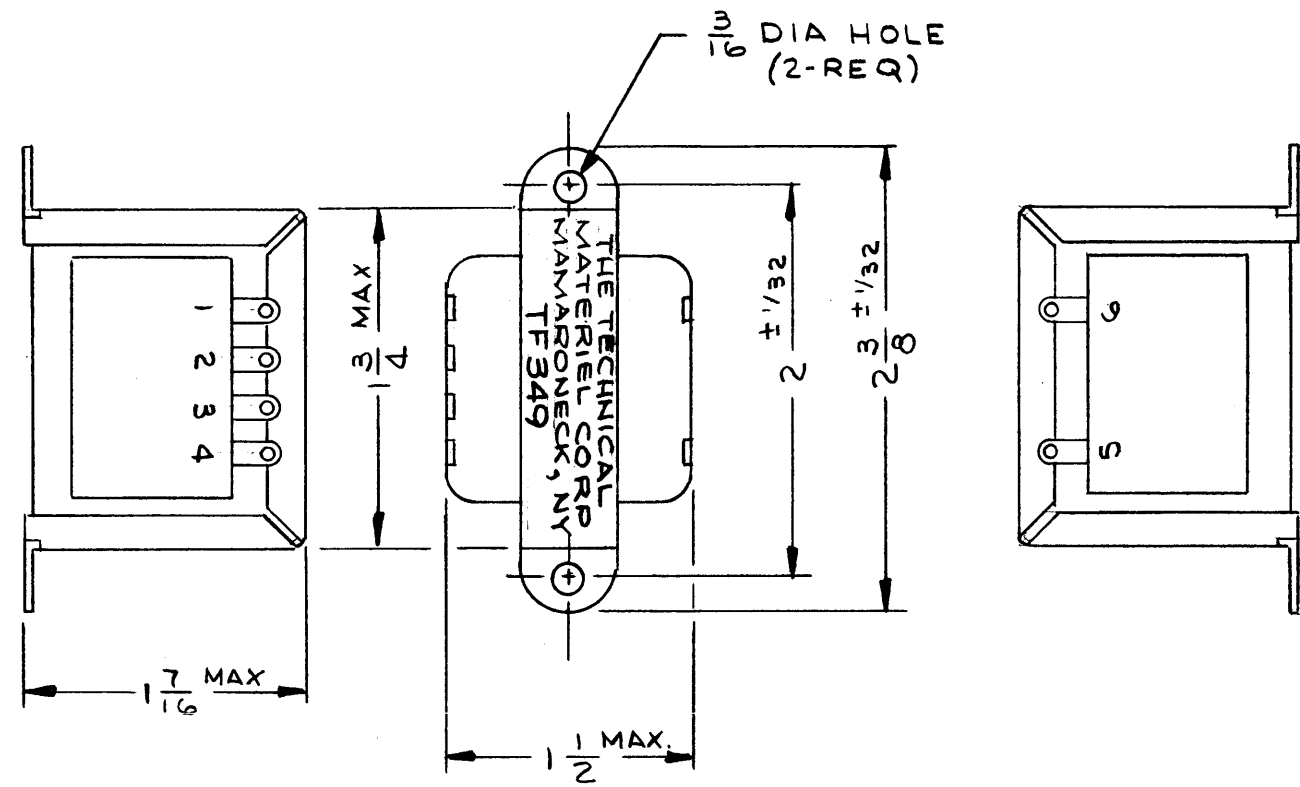
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| | | | |
|-------------|----------|----------------|-----------|
| DRAWN | DATE | FINAL APPROVAL | DATE |
| PP | 11-30-65 | W. H. HAY | 10/14/66 |
| CHECKED | DATE | | |
| ELECT. DES. | DATE | | |
| MECH. DES. | DATE | | |
| | 12/14/66 | TF345 | A |
| | SHEET | | REV. LTR. |

ML JRS 10-4-66

STANDARD DRAWING

TF 349 A



SCHEMATIC

| REVISIONS | | | | | |
|-----------|--|----------|------------|-------|------|
| SYM | DESCRIPTION | DATE | E.M.N. NO. | DRAFT | CHKD |
| X | EXP. RELEASE | 11/17/66 | | JL | JL |
| Ø | ORIGINAL RELEASE FOR PRODUCTION | 12/2/66 | Ø | CV | |
| A | MFG NOTE DEL ; FINISH & MARKING SPECS REVISED. | 7.25.67 | 18398 | GW | 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:

CADMIUM FINISH, CLEAR VARNISH

MARKING:

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

| REQ'D. | ITEM | PART NUMBER | DESCRIPTION | SYMBOL |
|---|------|--|------------------|--------------------------------------|
| LIST OF MATERIAL | | | | |
| MATERIAL | | THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK | | |
| FINISH | | TITLE TRANSFORMER, POWER-STEP-DOWN | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES | | DRAWN J.L. | DATE 10-17-66 | FINAL APPROVAL <i>[Signature]</i> |
| | | CHECKED <i>[Signature]</i> | DATE 11/29/66 | DATE 12/1/66 |
| | | ELECT. DES. <i>[Signature]</i> | DATE 12/1/66 | REV. LTR. A |
| | | MECH. DES. | DATE | SHEET |

| Q'TY./UNIT | MODEL USED ON | ASS'Y. NO. |
|------------|---------------|---------------|
| SCALE | CODE | S401-30(7452) |

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NOTES