

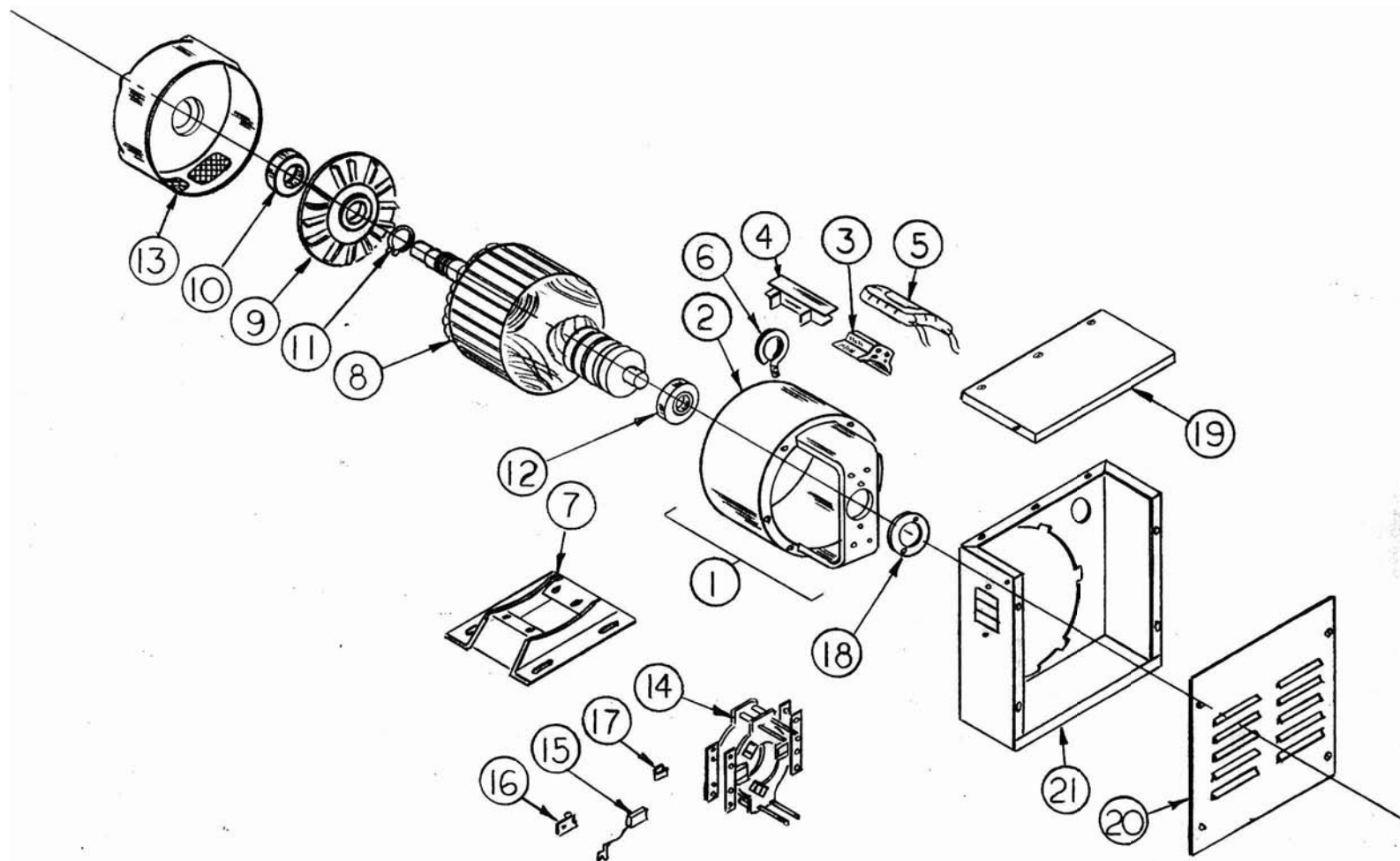
PARTS LIST  
FM20V4-C  
FM20V4-D  
FM20V4-J

| <u>FIND NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>          | <u>REQ/UNIT</u> |
|-----------------|-----------------|-----------------------------|-----------------|
| 1               | G-5432-13       | Field Frame Assy (FM20V4-C) | 1               |
| 1               | G-5432-12       | Field Frame Assy (FM20V4-D) | 1               |
| 1               | G-5432-15       | Field Frame Assy (FM20V4-J) | 1               |
| 2               | G-5431-1        | Field Frame                 | 1               |
| 3               | G-5037          | Field Pole                  | 4               |
| 4               | J-635           | Coil Shield                 | 8               |
| 5               | H-1019          | Field Coil (FM20V4-C)       | Set of 4        |
| 5               | H-1037          | Field Coil (FM20V4-D)       | Set of 4        |
| 5               | H-1032-1        | Field Coil (FM20V4-J)       | Set of 4        |
| 6               | S-859           | Lift Eye                    | 1               |
| 7               | G-5940-1        | Base Assy                   | 1               |
| 8               | G-4766-34       | Armature Assy (FM20V4-C)    | 1               |
| 8               | G-4766-33       | Armature Assy (FM20V4-D)    | 1               |
| 8               | G-4766-48       | Armature Assy (FM20V4-J)    | 1               |
| 9               | I-861           | Fan                         | 1               |
| 10              | D-3             | Bearing - Drive End         | 1               |
| 11              | 11115           | Retainer Ring               | 1               |
| 12              | D-8             | Bearing                     | 1               |
| 13              | I-686-3         | Drive End Bell              | 1               |
| 14              | G-5430          | Brush Gear Assy             | 1               |
| 15              | Y-51            | Brush                       | 12              |
| 16              | G-3422          | Brush Spring                | 12              |
| 17              | 4996            | Tinnerman                   | 8               |
| 18              | W-43            | Bearing Retainer            | 1               |
| 19              | S-6927          | Panel Top                   | 1               |
| 20              | S-5851-2        | Panel Front                 | 1               |
| 21              | G-5456-21       | Panel Back Assy (FM20V4-C)  | 1               |
| 21              | G-5456-20       | Panel Back Assy (FM20V4-D)  | 1               |
| 21              | G-5456-39       | Panel Back Assy (FM20V4-J)  | 1               |

Wiring Diagram (FM20V4-C) C-5865  
Wiring Diagram (FM20V4-D) E-7093  
Wiring Diagram (FM20V4-J) E-7896

Parts Drawing E-8578

IE-8578



JUL 25 1977

JUN 27 1974

IE-8578

PARTS LIST  
 PANEL BACK ASS'Y  
 G-5456-20  
 G-5456-21  
 G-5456-39

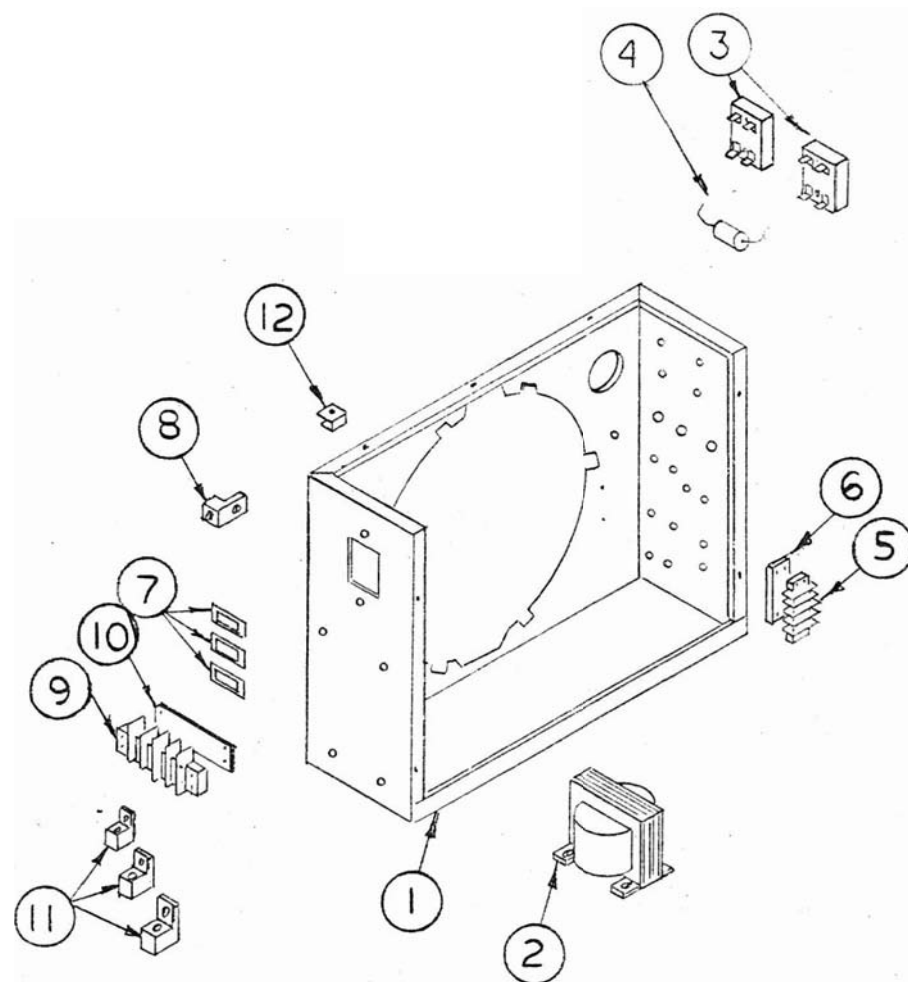
PL-01057

| <u>FIND NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>REQ/UNIT</u> |
|-----------------|-----------------|--------------------|-----------------|
| 1               | G-5838-3        | Panel Back Assy    | 1               |
| 2               | EE-1963         | Transformer        | 1               |
| 3               | EE-2171-1       | Rectifier Assy     | 2               |
| 4               | EE-2142         | Thyrector          | 1               |
| 5               | EE-654          | Terminal Board     | 1               |
| 6               | EE-654-2        | Marker Strip       | 1               |
| 7               | EE-779          | Filler Plate       | 3               |
| 8               | EE-1671         | Lug                | 1               |
| 9               | EE-658          | Terminal Board     | 1               |
| 10              | EE-658-1        | Marker Strip       | 1               |
| 11              | EE-1671         | Lug                | 3               |
| 12              | 4957            | Tinnerman          | 7               |

Wiring Diagram (3-Phase) E-7093  
 Wiring Diagram (1-Phase) C-5865  
 Wiring Diagram (3-PH Delta) E-7896

Parts Drawing E-8574

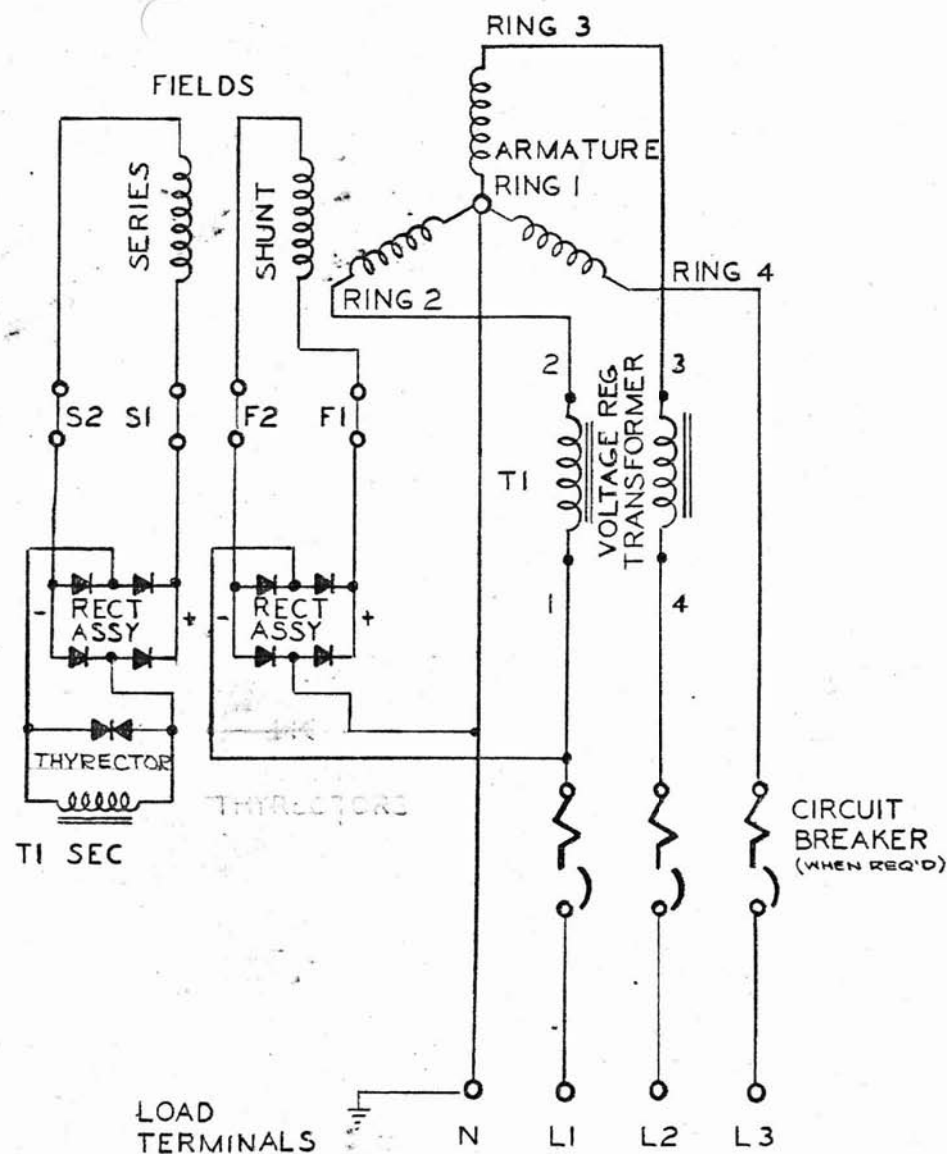
E-8574



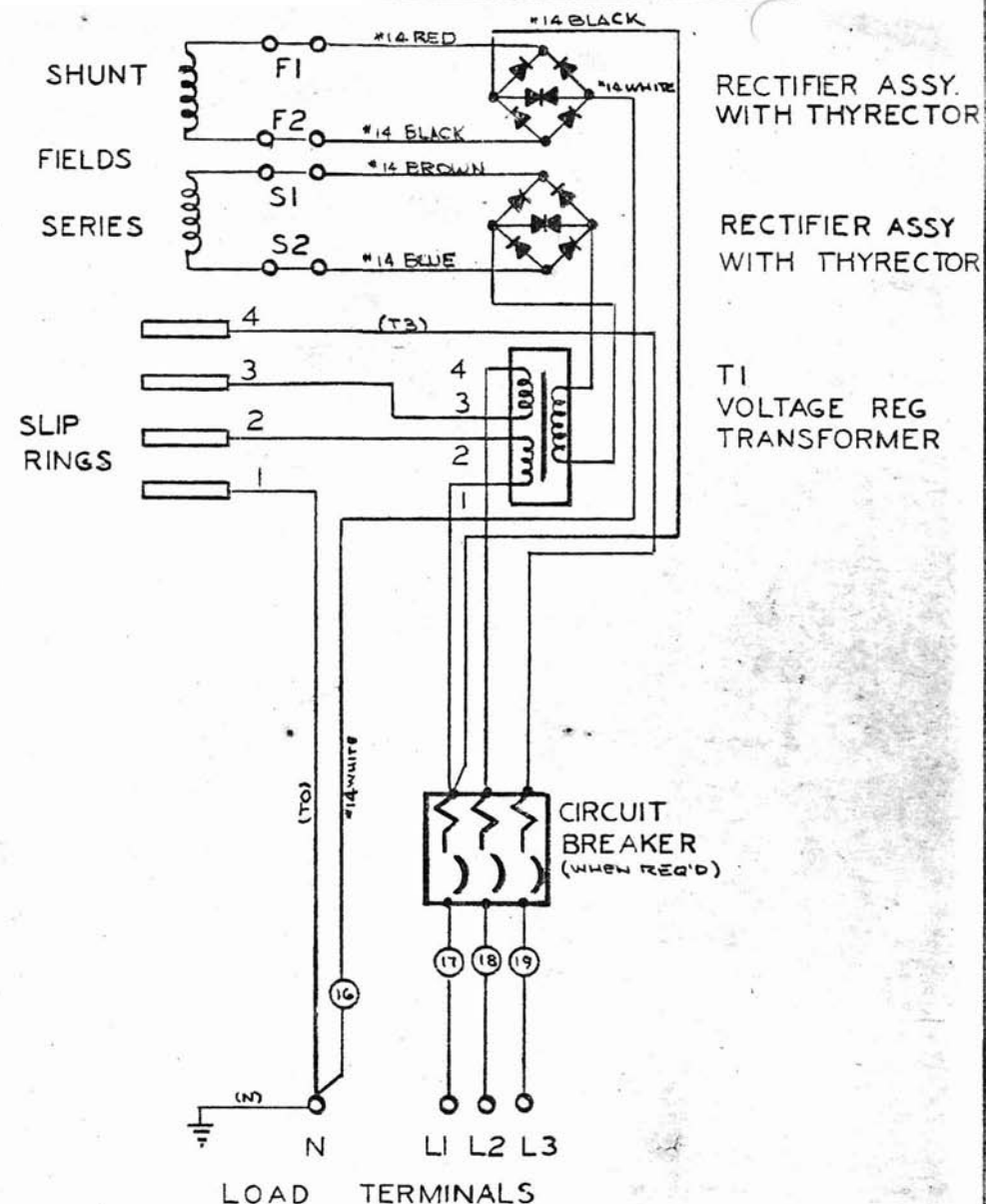
JUN 27 1974

E-8574

# SCHEMATIC WIRING



# PICTORIAL WIRING



|        |                |         |        |                |
|--------|----------------|---------|--------|----------------|
| C      | REUSE          | 12-5-74 | SF     | T.C.G. 12-7-74 |
| B      | CHANGED        | 8-28-74 | SF     | RLT            |
| A      | REDRAWN        | 1-10-68 | T.C.G. |                |
| CHANGE | WAS ORIGINALLY | DATE    | CHK'D  | CHG. REQUEST   |

TOLERANCE ON  
DIMENSIONS NOT  
OTHERWISE SPECIFIED

DECIMAL ±  
FRACTIONAL ±  
ANGULAR ±

REMOVE ALL BURRS  
BREAK ALL SHARP  
MACHINED EDGES

MATERIAL

NO.  
REQ'D.

MICROFILM DATA

111 1 0 107

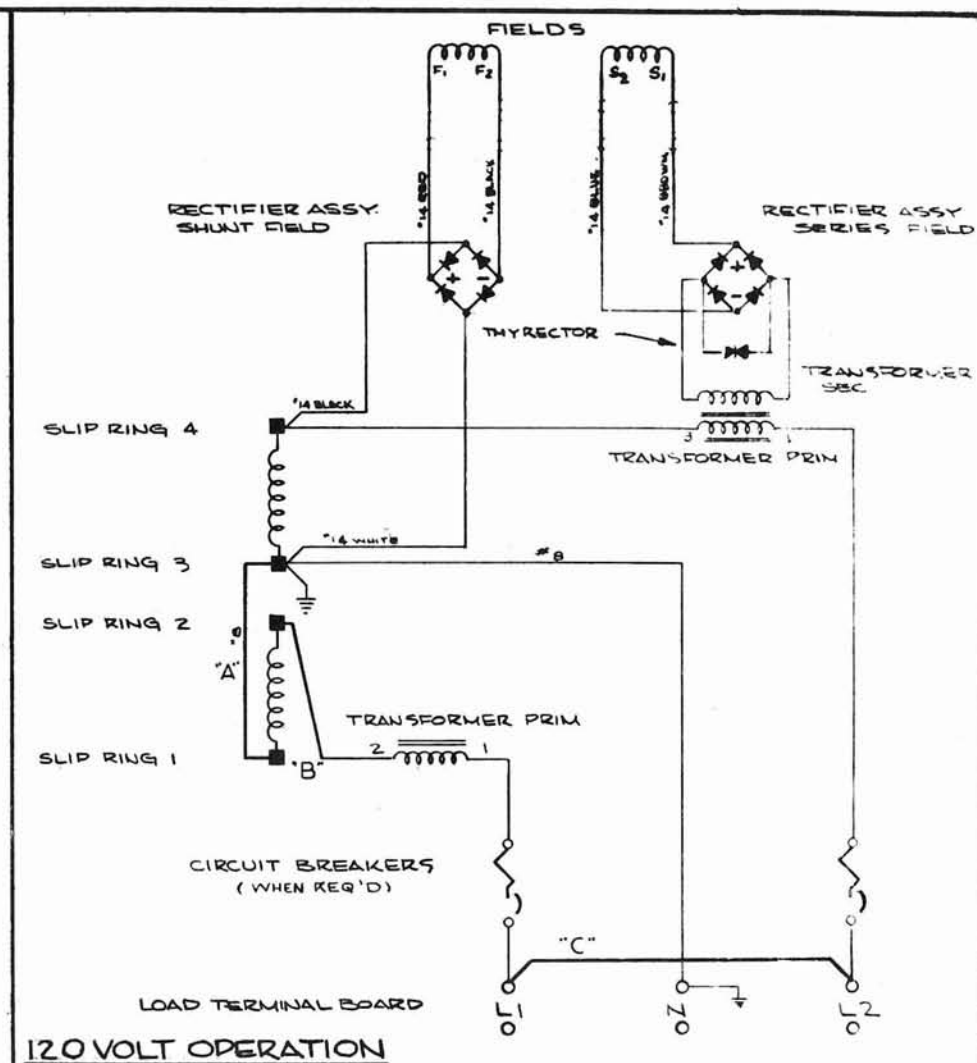
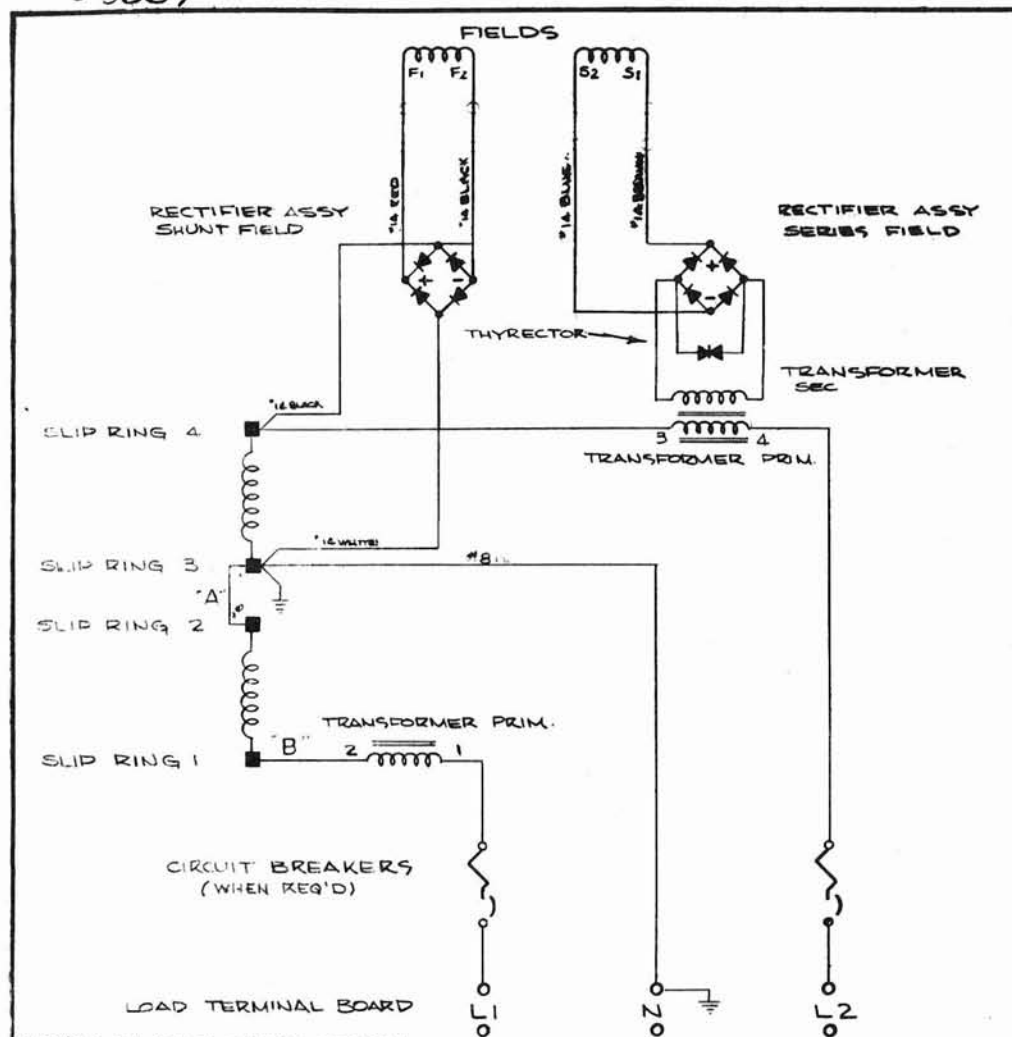
## WIRING DIAGRAM

SCALE  
1-10-68  
DATE  
T C G  
DWN

MODEL NO.  
PART NO. Z-1917  
CHK'D

WINPOWER MFG. CO.  
NEWTON, IOWA

C-5865

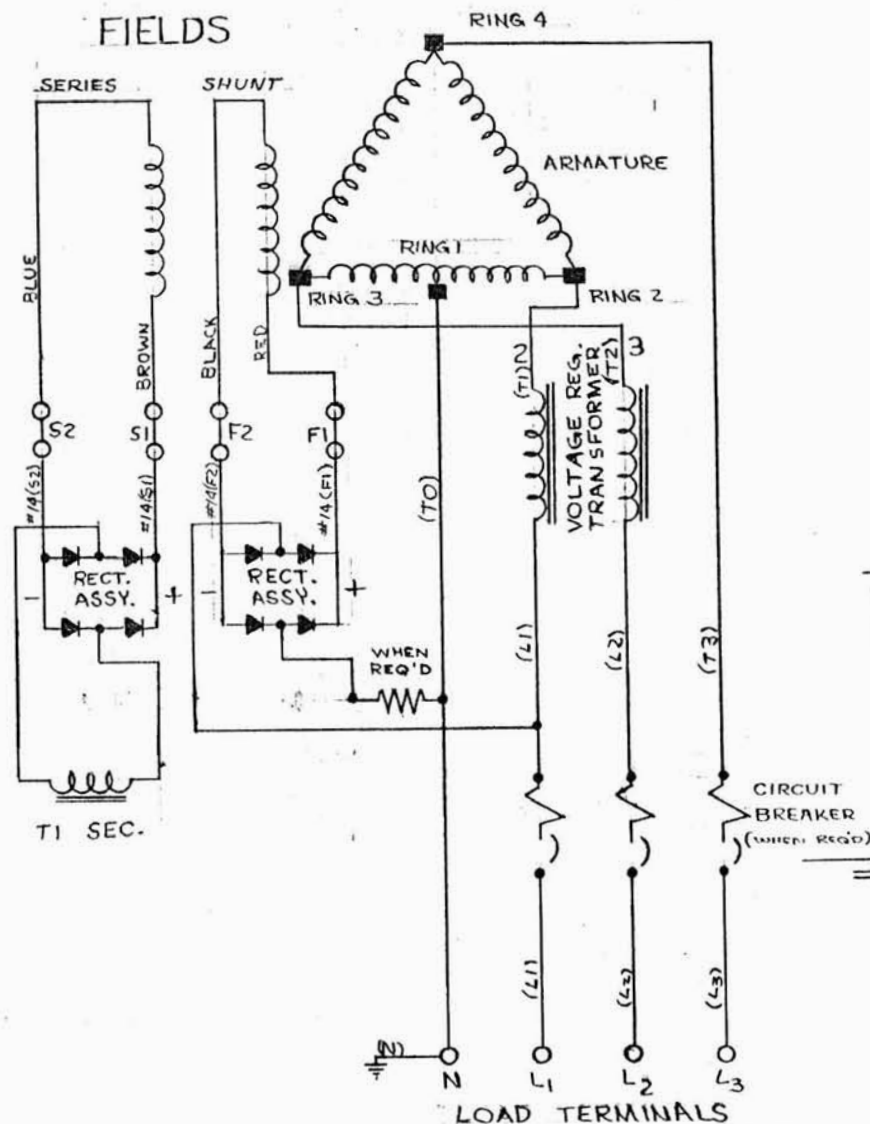


|                                                 |                |         |        |              |              |                |                                                 |          |  |
|-------------------------------------------------|----------------|---------|--------|--------------|--------------|----------------|-------------------------------------------------|----------|--|
| E                                               | DESIGN         | 9-18-74 | T.C.G. |              |              |                |                                                 |          |  |
| D                                               | REVISED        | 6-7-74  | SF     |              |              |                |                                                 |          |  |
| C                                               | MODEL          | 3-9-71  | JFP    |              |              |                |                                                 |          |  |
| B                                               | REVISED        | 8-10-70 | JFP    |              |              |                |                                                 |          |  |
| A                                               | ADDED          | 4-16-69 | JFP    |              |              |                |                                                 |          |  |
| CHANGE                                          | WAS ORIGINALLY | DATE    | CHK'D  | CHG. REQUEST | NO. REQ'D.   | MICROFILM DATA | JUL 10 1970                                     |          |  |
| TOLERANCE ON DIMENSIONS NOT OTHERWISE SPECIFIED |                |         |        | DECIMAL ±    | FRACTIONAL ± | ANGULAR ±      | REMOVE ALL BURRS BREAK ALL SHARP MACHINED EDGES | MATERIAL |  |

RECONNECTION INSTRUCTIONS:  
 WHEN CHANGING FROM 120/240V TO 120V  
 ONLY 3 CONNECTIONS ARE AFFECTED, THEY  
 ARE LETTERED A, B, & C.  
 JUMPER "C" - NOT USED ON 240V CONNECTIONS

|                                   |         |           |        |
|-----------------------------------|---------|-----------|--------|
| WIRING DIAGRAM                    |         |           |        |
| SCALE                             | ~       | MODEL NO. |        |
| DATE                              | 8-21-67 | PART NO.  | 2-1878 |
| BY                                | T.C.G.  | CHK'D     |        |
| WINPOWER MFG. CO.<br>NEWTON, IOWA |         |           |        |

C-5865

**IMPORTANT!**

SINGLE PHASE LOADS MUST BE  
TAKEN FROM "N", "L1" & "L2"

L1 To L2 = 240 VOLTS

L1 To N = 120 VOLTS

L2 To N = 120 VOLTS

**DANGER!**

VOLTAGE FROM "N" TO "L3" IS 190V.

Z-2033  
120/240 DELTA 3 PHASE

**WIRING DIAGRAM**

SCALE N MODEL NO. IE-7896  
DATE 8-20-74 PART NO. IE-7896  
DWN SF CHK'D

WINPOWER MFG. CO.  
NEWTON, IOWA

|                                                 |                |         |       |                                                    |                                                       |            |                |
|-------------------------------------------------|----------------|---------|-------|----------------------------------------------------|-------------------------------------------------------|------------|----------------|
| D                                               | REVISE         | 12-5-74 | SF    | 12-7-74 T.C.G.                                     |                                                       |            |                |
| C                                               | REDRAWN        | 8-20-74 | SF    | 8-22-74 T.C.G.                                     |                                                       |            |                |
| CHANGE                                          | WAS ORIGINALLY | DATE    | CHK'D | CHG. REQUEST                                       |                                                       |            |                |
| TOLERANCE ON DIMENSIONS NOT OTHERWISE SPECIFIED |                |         |       | DECIMAL $\pm$<br>FRACTIONAL $\pm$<br>ANGULAR $\pm$ | REMOVE ALL BURRS<br>BREAK ALL SHARP<br>MACHINED EDGES | NO. REQ'D. | MICROFILM DATA |
|                                                 |                |         |       | MATERIAL                                           |                                                       |            |                |