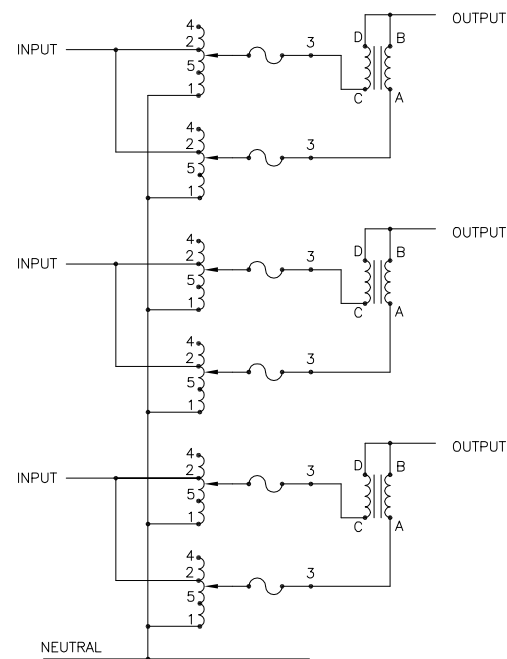
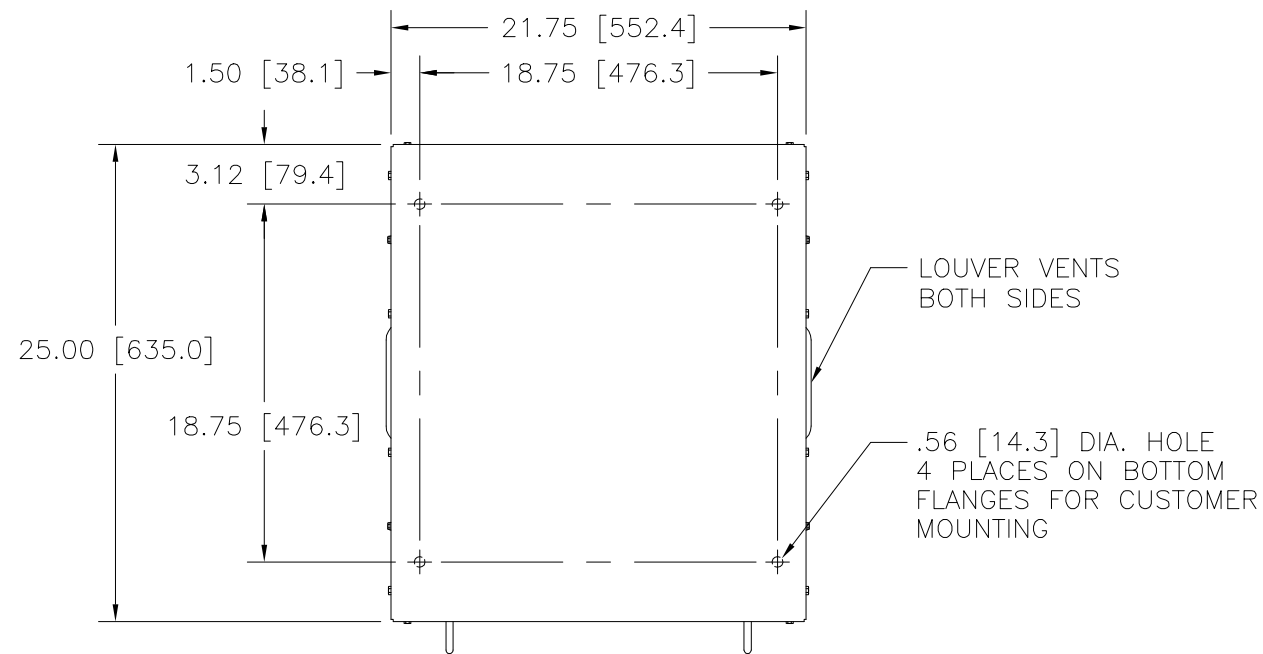


|           |                   |         |       |
|-----------|-------------------|---------|-------|
| DWG. NO.  | 032-8384          |         |       |
| REVISIONS |                   |         |       |
| SYM.      | E.C.N.            | DATE    | APVD. |
| A         | 23294             | 2/5/97  |       |
|           | REVISED & UPDATED |         |       |
| B         | 23348             | 3/18/97 |       |
|           | REVISED & UPDATED |         |       |
| C         | 23536             | 9/30/97 |       |
|           | REVISED & UPDATED |         |       |
| D         | 24158             | 1/19/00 |       |
|           | DELETED EYENUTS   |         |       |



SCHMATIC

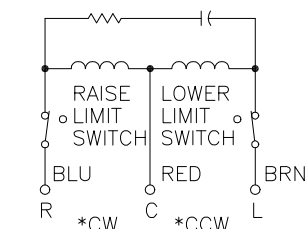
**CONTROLS:**

**MICROTERMINAL:** THE TERMINAL IS PROVIDED FOR LOCAL CONTROL OF THE UNIT WITH AN LCD DISPLAY FOR OUTPUT VOLTAGE READINGS. SEE THE MP USER'S HANDBOOK (FORM #003-1622) FOR DETAILED INFORMATION.

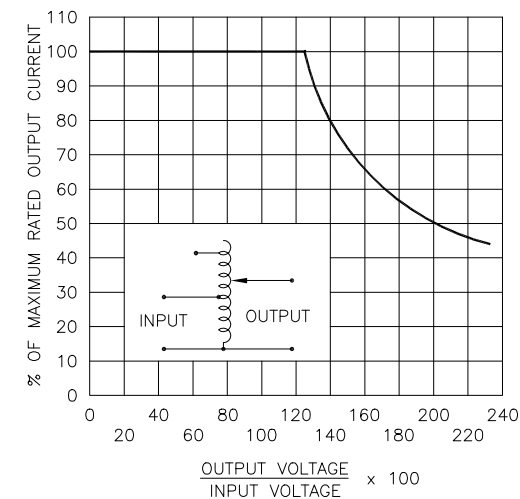
**CONTROLLER ON/OFF SWITCH:** THIS SWITCH TURNS OFF POWER TO THE MICROPROCESSOR CONTROLLER ONLY.

**MOTOR ON/OFF SWITCH:** THIS SWITCH TURNS OFF POWER FROM THE MICROPROCESSOR TO EACH OF THE AUTOTRANSFORMER MOTORS.

**RAISE/LOWER SWITCHES:** THESE SWITCHES ARE LOCATED INTERNALLY AND ARE ACCESSIBLE FROM THE FRONT VIA THE REMOVABLE ACCESS PANEL. THE SWITCHES ALLOW FOR EACH PHASE OF THE REGULATOR TO BE MANUALLY CONTROLLED INDIVIDUALLY.



**MOTOR CIRCUIT**  
120V, 50/60 HZ  
\* ROTATION AS VIEWED FROM TOP END  
MOTOR SPEEDS: SEE CHART



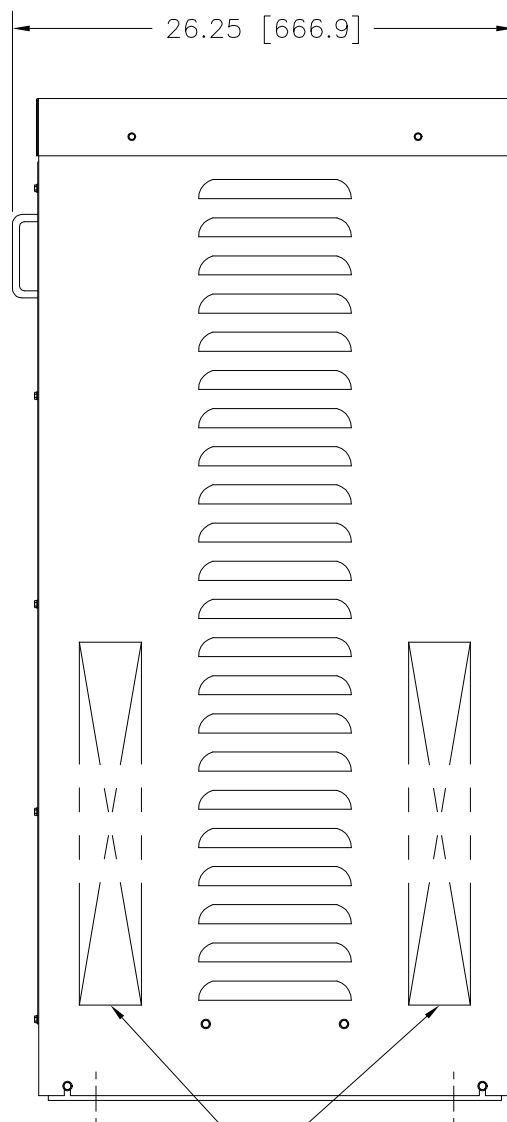
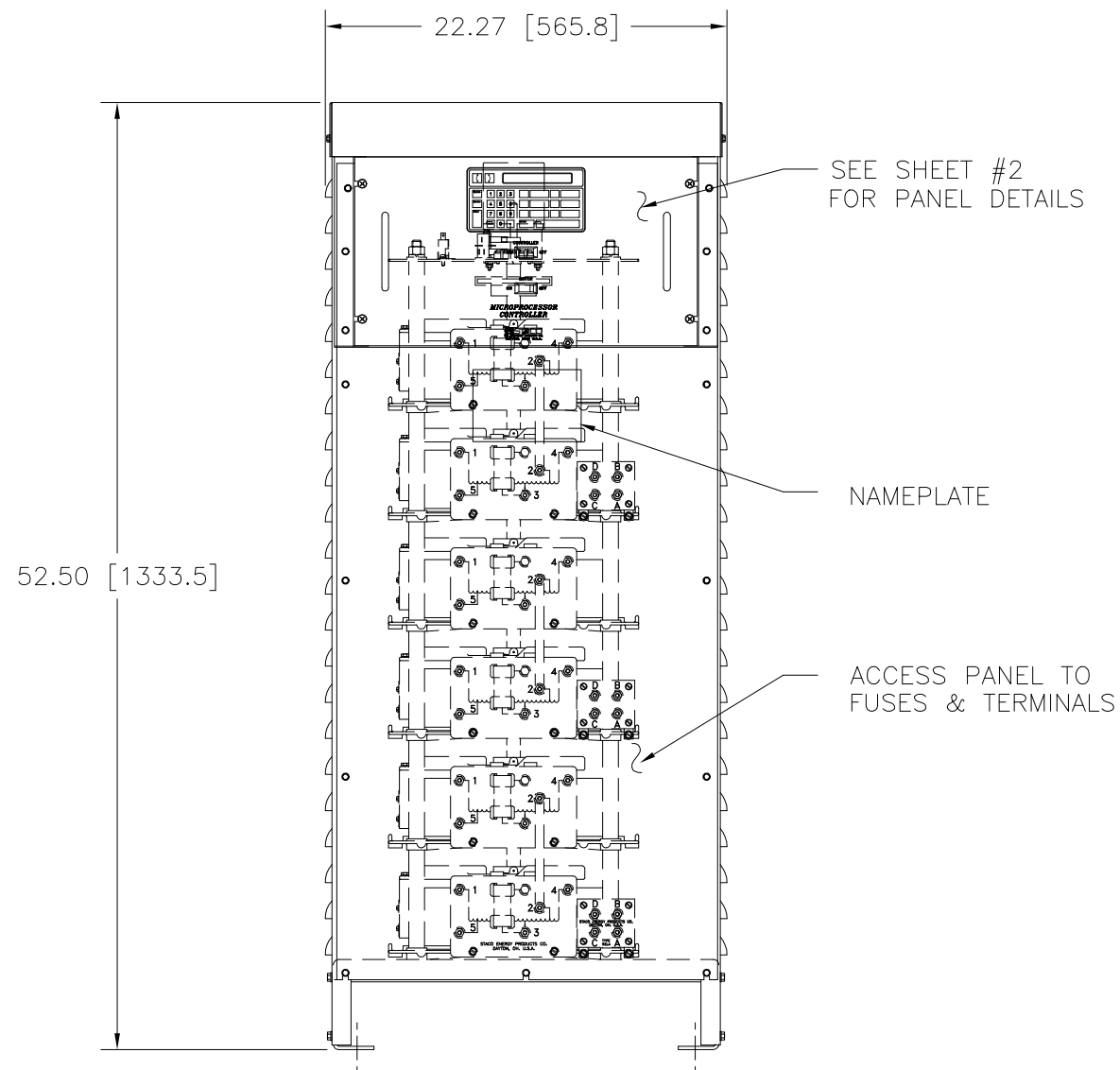
**FIGURE A**  
MAXIMUM OUTPUT CURRENT OF ANY DUAL INPUT VOLTAGE OR VOLTAGE DOUBLER UNIT OPERATED AT LOWER INPUT VOLTAGE.

# MAXIMUM OUTPUT CURRENT IN OUTPUT VOLTAGE RANGE FROM 0 TO 25% ABOVE LINE VOLTAGE. AT HIGHER OUTPUT VOLTAGES, OUTPUT CURRENT MUST BE REDUCED ACCORDING TO RATING CURVE, FIGURE A.

++ MAXIMUM KVA AT MAXIMUM OUTPUT AND CORRESPONDING DE-RATED CURRENT. MAXIMUM KVA AT LOWER OUTPUT VOLTAGES MAY BE CALCULATED FROM RATING CURVE, FIGURE A.

V.D. = VOLTAGE DOUBLER.

| SPEED (SECONDS) | MODEL NUMBER  |
|-----------------|---------------|
| 15              | MV15M6020E-6Y |
| 30              | MV30M6020E-6Y |
| 60              | MV60M6020E-6Y |



RECOMMENDED AREAS FOR CONDUIT ENTRY

| SPECIFICATIONS  |       |       |        |                       |         |                                     |  |        |
|-----------------|-------|-------|--------|-----------------------|---------|-------------------------------------|--|--------|
| WIRING          | INPUT |       | OUTPUT |                       |         | SHAFT ROTATION FOR VOLTAGE INCREASE | TERMINAL CONNECTIONS FOR INCREASING VOLTAGE AS VIEWED FROM TOP |        |
|                 | VOLTS | HERTZ | VOLTS  | CONSTANT CURRENT LOAD |         |                                     | INPUT  | OUTPUT |
| THREE PHASE WYE | 480   | 50/60 | 0-480  | 70                    | 58.1    | CW                                  | 4-4-4  | B-B-B  |
|                 |       | 60    | 0-560  | 70                    | 67.8    | CW                                  | 2-2-2  | B-B-B  |
|                 | 240   | 60    | 0-560  | 70-30 V.D.            | 29.1 ++ | CW                                  | 5-5-5  | B-B-B  |

|   |  |        |  |                |  |                   |  |                   |  |                                    |  |
|---|--|--------|--|----------------|--|-------------------|--|-------------------|--|------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED, TOLERANCE IS # DECIMALS .XX .XXX .005 |  |        |  | Holes .12 .03  |  | ANGLES 1°         |  | DRAFT 1-1/2°      |  | UNITS IN [mm]                      |  |
| MATERIAL:   |  |        |  |                |  |                   |  |                   |  | ALL DIMENSIONS APPLY AFTER PLATING |  |
| TITLE: SPECIFICATION CONTROL DRAWING                              |  |        |  |                |  |                   |  |                   |  |                                    |  |
| MOTORIZED VARIABLE TRANSFORMER                                    |  |        |  |                |  |                   |  |                   |  |                                    |  |
| TYPE: MVM6020E-6Y   |  |        |  |                |  |                   |  |                   |  |                                    |  |
| DRAWN BY  |  | DATE   |  | FIRST USED ON  |  | DO NOT SCALE DWG. |  | CUSTOMER APPROVAL |  | DATE                               |  |
| TIM RAU   |  | 8/5/96 |  | MVM6020E-6Y    |  |                   |  |                   |  |                                    |  |
| CHECKER   |  | DATE   |  | WEIGHT APPROX. |  | CODE IDENT. NO.   |  | DWG. SIZE         |  | DWG. NO.                           |  |
|   |  |        |  |                |  | 83008             |  | D                 |  | 032-8384                           |  |
| ENGINEER  |  | DATE   |  | SCALE          |  | SHEET 1 OF 2      |  |                   |  |                                    |  |
|   |  |        |  | .2=1           |  |                   |  |                   |  |                                    |  |

