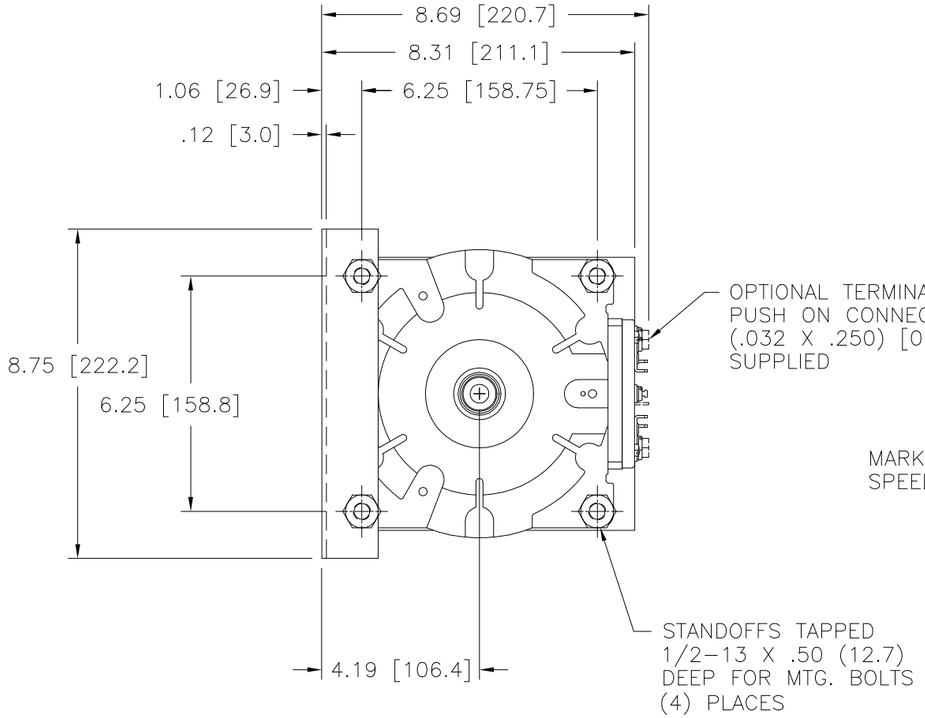
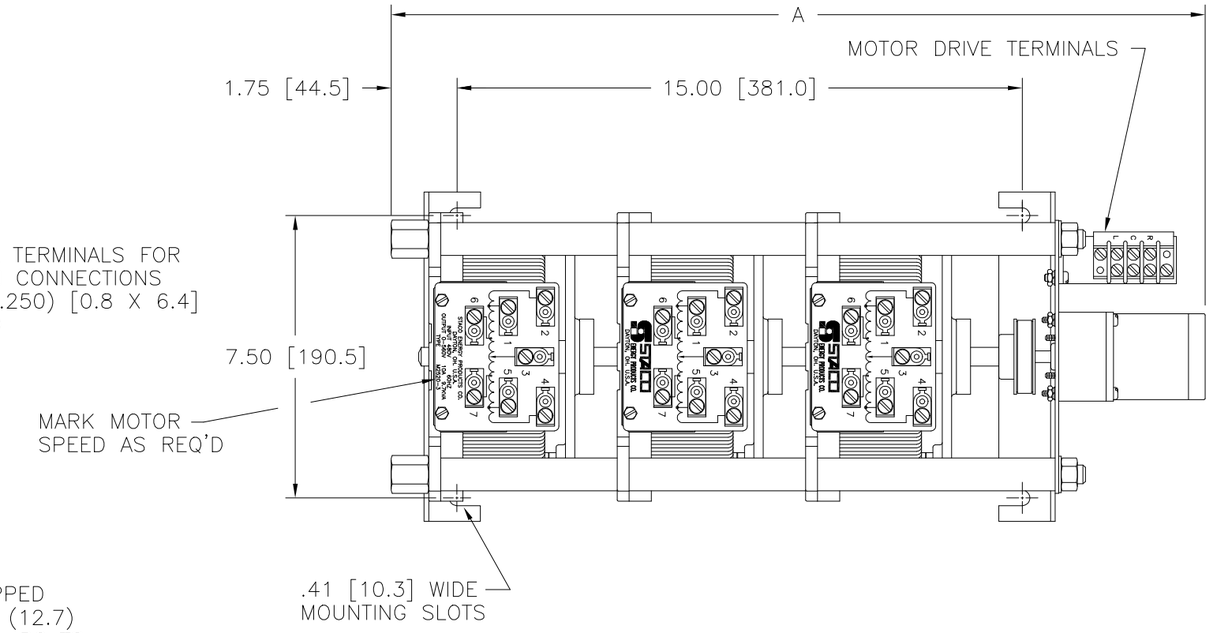
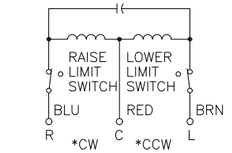
| DWG. SIZE | DWG. NO. |
|---|---|
| D | 031-5665 |

| REVISIONS | | | |
|---|---|---|---|
| SYM. | E.C.N. | DATE | APVD. |
| A | 23899 | 12/21/98 | |
| | UPDATED DIMENSIONS | | |

Go to VARIAC.com to purchase and for technical support. Made in the USA

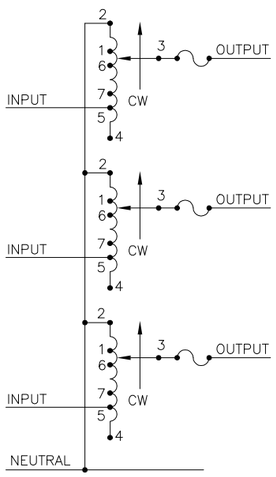


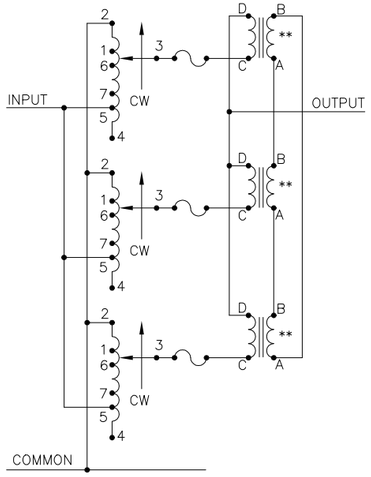




MOTOR CIRCUIT
120V, 50/60 HZ
* ROTATION AS VIEWED FROM MOTOR END
MOTOR SPEED: SEE CHART

| SPEED (SECONDS) | MODEL NUMBER | DIM "A" |
|---|---|---|
| 5 | 5M2520-3 | 21.23 [539.2] |
| 15 | 15M2520-3 | 21.23 [539.2] |
| 30 | 30M2520-3 | 21.62 [549.1] |
| 60 | 60M2520-3 | 21.62 [549.1] |




SCHEMATIC
THREE PHASE WYE
FUSES RECOMMENDED BUT NOT SUPPLIED




SCHEMATIC
SINGLE PHASE PARALLEL
FUSES RECOMMENDED BUT NOT SUPPLIED

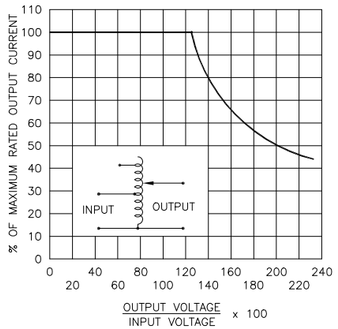



**FIGURE A**
MAXIMUM OUTPUT CURRENT OF ANY DUAL INPUT VOLTAGE OR VOLTAGE DOUBLER UNIT OPERATED AT LOWER INPUT VOLTAGE.

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

§ MAXIMUM KVA AT MAXIMUM OUTPUT VOLTAGE AND CORRESPONDING DERATED OUTPUT CURRENT. MAXIMUM KVA FOR LOWER VOLTAGES MAY BE CALCULATED FROM DERATING CURVE FIGURE A.

++ LINE TO LINE VOLTAGE.

** REQUIRES THREE 52LAC PARALLELING CHOKE (NOT SUPPLIED).

π IF GANGED UNITS ARE USED IN A SYSTEM THAT ORDINARILY HAS A COMMON NEUTRAL OR GROUND BETWEEN SOURCE AND LOAD, THE NEUTRAL OR GROUND MUST BE CONNECTED TO THE COMMON TERMINALS OF THE VARIABLE TRANSFORMER ASSEMBLY. IF THE SYSTEM HAS NO NEUTRAL, THE LOAD MUST BE BALANCED OR THE TRANSFORMER WILL BE DAMAGED.

■ JUMPER PROVIDED IN STANDARD COMMON POSITION AND SHOULD BE MOVED OR REMOVED AS REQUIRED.

\+ MOTOR DRIVEN UNITS USE TERMINAL CONNECTIONS FOR CCW INCREASING VOLTAGE, AS VIEWED FROM THE BASE END.

SPECIFICATIONS

| WIRING | INPUT VOLTS | INPUT HERTZ | OUTPUT VOLTS | OUTPUT CONSTANT CURRENT LOAD MAX. AMPS | OUTPUT CONSTANT CURRENT LOAD MAX. KVA | OUTPUT CONSTANT IMPEDANCE LOAD MAX. AMPS | OUTPUT CONSTANT IMPEDANCE LOAD MAX. KVA | SHAFT ROTATION TO INCREASE VOLTAGE | TERMINAL CONNECTIONS + FOR INCREASING VOLTAGE AS VIEWED FROM BASE END ■ INPUT | JUMPER | OUTPUT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SINGLE PHASE PARALLEL ** | 240 | 50/60 | 0-240 | 30 | 7.20 | 39 | 9.30 | CW | 2-2-2, 4-4-4 | ——— | 4-D |
| | | | | | | | | CCW | 2-2-2, 4-4-4 | ——— | 2-D |
| | | | 0-280 | 30 | 8.40 | ——— | ——— | CW | 1-1-1, 4-4-4 | ——— | 4-D |
| | | | | | | | | CCW | 5-5-5, 2-2-2 | ——— | 2-D |
| | 120 | 50/60 | 0-280 | 30# | 3.60 § | ——— | ——— | CW | 7-7-7, 4-4-4 | ——— | 4-D |
| | | | | | | | | CCW | 6-6-6, 2-2-2 | ——— | 2-D |
| THREE PHASE WYE π | 480 ++ | 50/60 | 0-480 | 10 | 8.30 | 13 | 10.81 | CW | 2-2-2 | 4-4-4 | 3-3-3 |
| | | | | | | | | CCW | 4-4-4 | 2-2-2 | 3-3-3 |
| | | 60 | 0-560 | 10 | 9.70 | ——— | ——— | CW | 1-1-1 | 4-4-4 | 3-3-3 |
| | | | | | | | | CCW | 5-5-5 | 2-2-2 | 3-3-3 |
| | 240 ++ | 60 | 0-560 | 10# | 4.20 § | ——— | ——— | CW | 7-7-7 | 4-4-4 | 3-3-3 |
| | | | | | | | | CCW | 6-6-6 | 2-2-2 | 3-3-3 |

UNLESS OTHERWISE SPECIFIED. TOLERANCE IS ± DECIMALS HOLES ANGLES DRAFT XX .06 .01 1° 1-1/2° .XXX .005

UNITS IN [mm]

ALL DIMENSIONS APPLY AFTER PLATING

MATERIAL :

TITLE: SPEC. CONTROL DRAWING MOTORIZED VARIABLE XFMR. TYPE: M2520-3

STACO ENERGY PRODUCTS CO. A COMPONENTS CORPORATION OF AMERICA COMPANY DAYTON, OHIO U.S.A.



| DRAWN BY | DATE | FIRST USED ON | DO NOT SCALE DWG. | CUSTOMER APPROVAL | DATE |
|---|---|---|---|---|---|
| TIM RAU | 8/6/97 | | | | |
| CHECKER | DATE | WEIGHT APPROX. 78 LBS. | CODE IDENT. NO. 83008 | DWG. SIZE D | DWG. NO. 031-5665 |
| ENGINEER | DATE | SCALE .5=1 | SHEET 1 OF 1 | | |