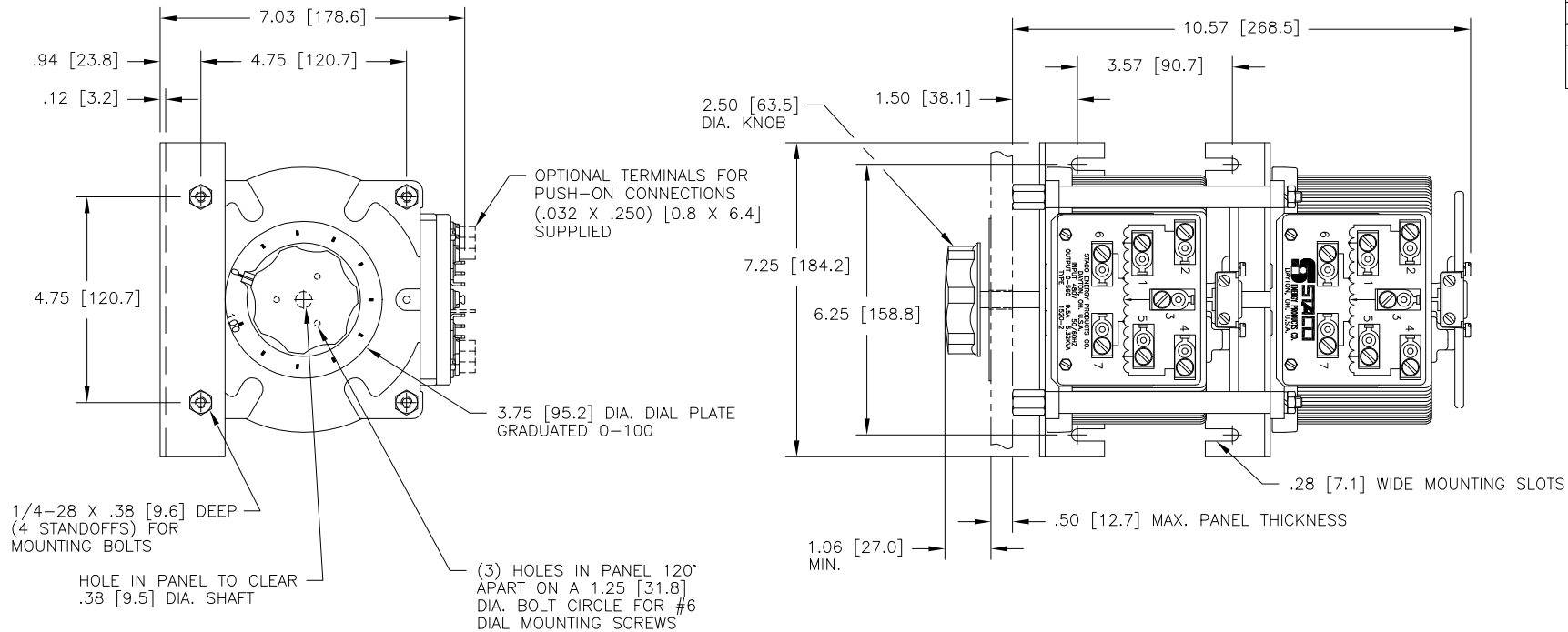


| | | | |
|-----------|----------|---------|----------------|
| DWG. NO. | 031-3913 | | |
| REVISIONS | | | |
| SYM. | E.C.N. | DATE | APVD. |
| A | 24244 | 5/23/00 | ADDED FIGURE A |



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.

∏ 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.

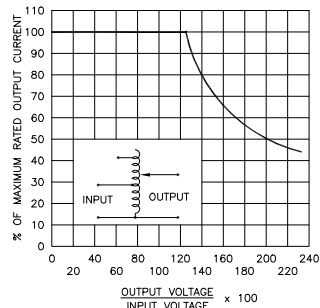
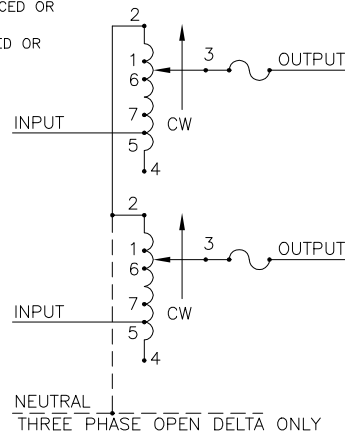


FIGURE A

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



SCHEMATIC

THREE PHASE OPEN DELTA AND SINGLE PHASE SERIES. FUSES RECOMMENDED BUT NOT SUPPLIED

SPECIFICATIONS

| WIRING | INPUT | | OUTPUT | | | | SHAFT ROTATION TO INCREASE VOLTAGE | TERMINAL CONNECTIONS | | | |
|--------------------------|-------|-------|--------|-----------------------|----------|-------------------------|------------------------------------|---|-------|--------|--------|
| | VOLTS | HERTZ | VOLTS | CONSTANT CURRENT LOAD | | CONSTANT IMPEDANCE LOAD | | MOTOR DRIVEN UNITS USE CCW FOR INCREASING VOLTAGE AS VIEWED FROM BASE END ■ | | | |
| | | | | MAX. AMPS | MAX. KVA | MAX. AMPS | | MAX. KVA | INPUT | JUMPER | OUTPUT |
| SINGLE PHASE SERIES | 480 | 50/60 | 0-480 | 9.5 | 4.56 | 12 | 5.76 | CW | 2-2 | 4-4 | 3-3 |
| | | | 0-560 | 9.5 | 5.32 | — | — | CCW | 4-4 | 2-2 | 3-3 |
| | 240 | 50/60 | 0-560 | 9.5# | 2.28 § | — | — | CW | 1-1 | 4-4 | 3-3 |
| | | | 0-280 | 9.5 | 4.61 | — | — | CCW | 5-5 | 2-2 | 3-3 |
| THREE PHASE OPEN DELTA ∏ | 240 | 50/60 | 0-240 | 9.5 | 3.95 | 12 | 5.0 | CW | 2-4-2 | 4-4 | 3-4-3 |
| | | | 0-280 | 9.5 | 4.61 | — | — | CCW | 4-2-4 | 2-2 | 3-2-3 |
| | 120 | 50/60 | 0-280 | 9.5# | 1.98 § | — | — | CW | 1-4-1 | 4-4 | 3-4-3 |
| | | | 0-280 | 9.5# | 1.98 § | — | — | CCW | 5-2-5 | 2-2 | 3-2-3 |
| | ++ | 50/60 | 0-280 | 9.5# | 1.98 § | — | — | CW | 7-4-7 | 4-4 | 3-4-3 |
| | | | 0-280 | 9.5# | 1.98 § | — | — | CCW | 2-2-6 | 2-2 | 3-2-3 |

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS: HOLES .002 ANGLES DRAFT .XXX .005 .06 .002 1° 1-1/2°

MATERIAL: ALL DIMENSIONS APPLY AFTER PLATING

TITLE: SPEC. CONTROL DWG. VARIABLE TRANSFORMER MODEL: 1520-2



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| | | | | | |
|------------------------|-----------------|-----------------------------|--------------------------|-------------------|----------------------|
| DRAWN BY S.A. SMITH | DATE 5/23/00 | FIRST USED ON | DO NOT SCALE DWG. | CUSTOMER APPROVAL | DATE |
| CHECKER | DATE | WEIGHT APPROX. 42.25 LBS | CODE IDENT. NO. 83008 | DWG. NO. C | DWG. NO. 031-3913 |
| ENGINEER | DATE | SCALE .5=1 | SHEET 1 OF 1 | | |