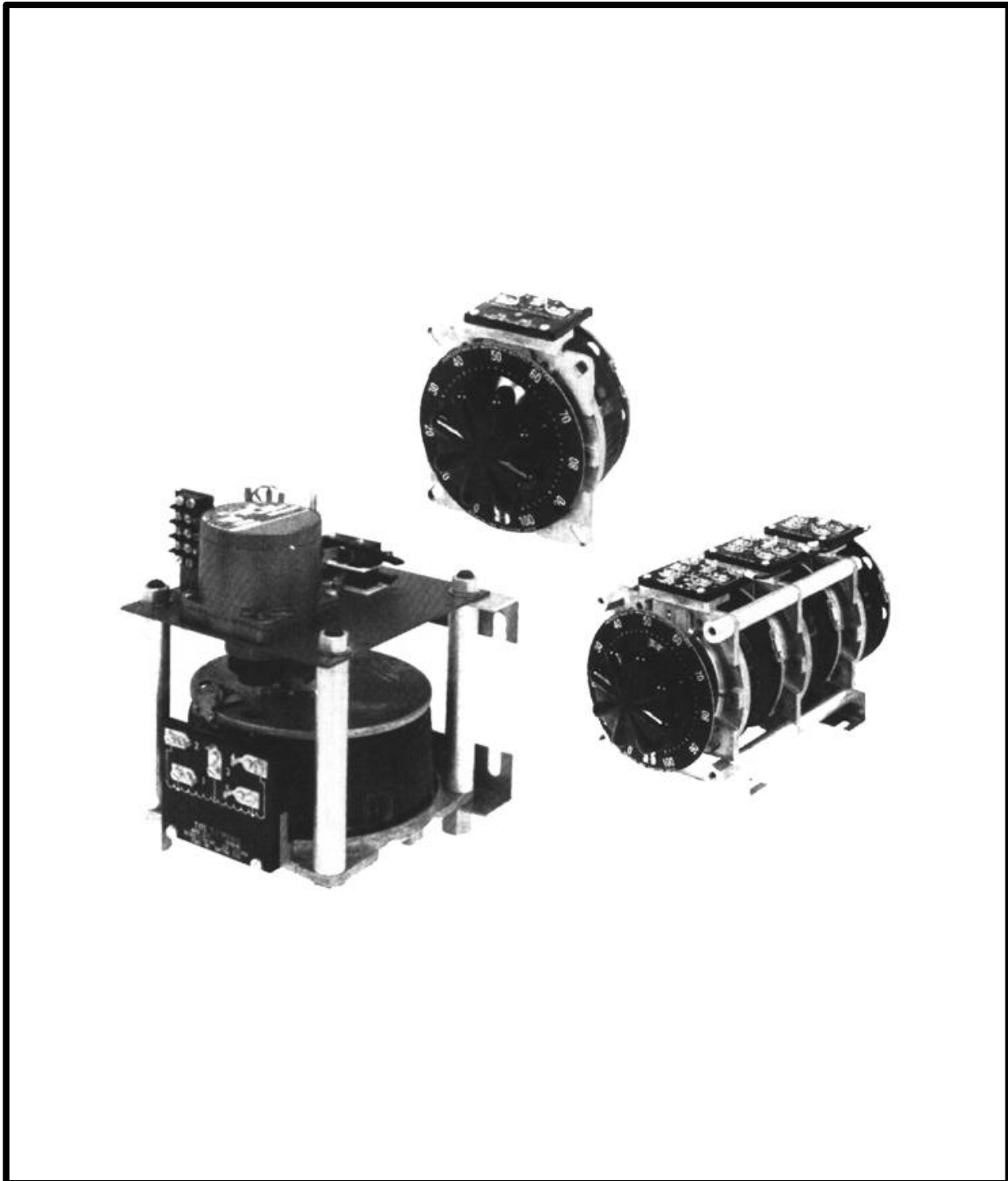


Variable Transformers
Series 2500 • 10.0 to 25.0 Amperes



2500 Series

The 2510/2520 Series Variable Transformers represent a compact high current variable transformer design. The 2510, 120 volt unit is rated at 25 amperes for constant current loads; while the 2520, 240 volt unit is rated at 10 amperes for constant current loads. Constant impedance ratings are listed in the specifications. They can be operated at frequencies between 50 and 2000 Hertz with derating at higher than rated frequency.

Uncased models have the shaft extending from the base end. This shaft is fully adjustable and can be extended from either end for general utility mounting. Cased styles are available in either "C" style (featuring protective screening over the coil

assembly only) or the "CT" style (which also includes a terminal box cover with knock-outs to accept conduit).

Motor-driven models are available in single, two, or three ganged assemblies in cased or uncased styles as identified by the prefix "M" in the part number. If a motor driven model is ordered, be sure to prefix the part number with the desired travel time from 0 to maximum of 5, 15, 30 or 60 seconds. Example: 5M2510CT. The synchronous motor is designed for operation on 120 volts, 50/60 Hertz, single phase lines and draws approximately 0.3 amperes.

| PART NUMBER | | WIRING | INPUT | | OUTPUT | | | | SHAFT ROTATION FOR VOLTAGE INCREASE | TERMINAL CONNECTIONS (FOR INCREASING VOLTAGE) AS VIEWED FROM BASE END | | | SCHE-MATIC (Pg 8 & 9) | NET WEIGHT LBS. MAX. | | | |
|-------------------------------|-------------------------------------|------------------------|-------|-------|--------|-----------------------|---------|-------------------------|-------------------------------------|---|------------------------|--------|-----------------------|----------------------|--------------|---------|--|
| MANUALLY OPERATED | MOTOR DRIVEN | | VOLTS | HERTZ | VOLTS | CONSTANT CURRENT LOAD | | CONSTANT IMPEDANCE LOAD | | INPUT | JUMPER | OUTPUT | | MAN-UAL | MOTOR DRIVEN | | |
| | | | | | | MAX AMPS | MAX KVA | MAX AMPS | | | | | | | | MAX KVA | |
| 2510 2510C 2510CT | M2510+ M2510+ M2510CT+ | Single Phase | 120 | 50/60 | 0-120 | 25 | 3.00 | 30 | 3.6 | CW | 2-4 | — | 4-3 | 14 | 21 | 31 | |
| | | | | | 0-140 | 25 | 3.50 | — | — | CCW | 2-4 | — | 2-3 | | | | |
| | | | | | | | | | | CW | 1-4 | — | 4-3 | | | | |
| 2510-2 2510C-2 2510CT-2 | M2510-2+ M2510C-2+ M2510CT-2+ | Single Phase Series | 240 | 50/60 | 0-240 | 25 | 6.00 | 30 | 7.2 | CW | 2-2 | 4-4 | 3-3 | 14 & 4 | 50 | 60 | |
| | | | | | 0-280 | 25 | 7.00 | — | — | CCW | 4-4 | 2-2 | 3-3 | | | | |
| | | | | | | | | | | CW | 1-1 | 4-4 | 3-3 | | | | |
| | | Three Phase Open Delta | 120++ | 50/60 | 0-120 | 25 | 5.20 | 30 | 6.2 | — | — | — | — | — | 14 & 5 | | |
| | | | | | 0-140 | 25 | 6.06 | — | — | CW | 2-4-2 | 4-4 | 3-4-3 | | | | |
| | | | | | | | | | | CW | 4-2-4 | 2-2 | 3-2-3 | | | | |
| 2510-3 2510C-3 2510CT-3 | M2510-3+ M2510C-3+ M2510CT-3+ | Three Phase Wye | 240++ | 50/60 | 0-240 | 25 | 10.40 | 30 | 12.5 | CW | 2-2-2 | 4-4-4 | 3-3-3 | 14 & 6 | 68 | 78 | |
| | | | | | 0-280 | 25 | 12.10 | — | — | CCW | 4-4-4 | 2-2-2 | 3-3-3 | | | | |
| | | | | | | | | CW | 1-1-1 | 4-4-4 | 3-3-3 | | | | | | |
| | | | | | | | | CCW | 5-5-5 | 2-2-2 | 3-3-3 | | | | | | |
| 3PN2210B | | Single Phase | 120 | 50/60 | 0-140 | 22‡ | 3.08 | — | — | CW | LINE CORD & RECEPTACLE | | | 3 | 24 1/4 | — | |
| 2520 2520C 520CT | M2520+ M2520C+ M2520CT+ | Single Phase | 240 | 50/60 | 0-240 | 10 | 2.40 | 13 | 3.12 | CW | 2-4 | — | 4-3 | 15 | 21 | 31 | |
| | | | | | 0-280 | 10 | 2.80 | — | — | CCW | 2-4 | — | 2-3 | | | | |
| | | | | | | | | | | CW | 1-4 | — | 4-3 | | | | |
| | | | | | | | | CCW | 2-5 | — | 2-3 | | | | | | |
| | | | | | | | | CW | 7-4 | — | 4-3 | | | | | | |
| | | | | | | | | CCW | 6-2 | — | 2-3 | | | | | | |
| 2520-2 2520C-2 2520CT-2 | M2520-2+ M2520C-2+ M2520CT-2+ | Single Phase Series | 480 | 50/60 | 0-480 | 10 | 4.80 | 13 | 6.24 | CW | 2-2 | 4-4 | 3-3 | 15 & 4 | 50 | 60 | |
| | | | | | 0-560 | 10 | 5.60 | — | — | CCW | 4-4 | 2-2 | 3-3 | | | | |
| | | | | | | | | | | CW | 1-1 | 4-4 | 3-3 | | | | |
| | | | | | | | | CCW | 5-5 | 2-2 | 3-3 | | | | | | |
| | | | | | | | | CW | 7-7 | 4-4 | 3-3 | | | | | | |
| | | | | | | | | CCW | 6-6 | 2-2 | 3-3 | | | | | | |
| | | Three Phase Open Delta | 240++ | 50/60 | 0-240 | 10 | 4.20 | 13 | 5.40 | — | — | — | — | — | 15 & 5 | | |
| | | | | | 0-280 | 10 | 4.85 | — | — | CW | 4-2-4 | 2-2 | 3-2-3 | | | | |
| | | | | | | | | | | CW | 1-4-1 | 4-4 | 3-4-3 | | | | |
| | | | | | | | | CCW | 5-2-5 | 2-2 | 3-2-3 | | | | | | |
| | | | | | | | | CW | 7-4-7 | 4-4 | 3-4-3 | | | | | | |
| | | | | | | | | CW | 6-2-6 | 2-2 | 3-2-3 | | | | | | |
| 2520-3 2520C-3 2520CT-3 | M2520-3+ M2520C-3+ M2520CT-3+ | Three Phase Wye | 480++ | 50/60 | 0-480 | 10 | 8.30 | 13 | 10.81 | CW | 2-2-2 | 4-4-4 | 3-3-3 | 15 & 6 | 68 | 78 | |
| | | | | | 0-560 | 10 | 9.70 | — | — | CCW | 4-4-4 | 2-2-2 | 3-3-3 | | | | |
| | | | | | | | | CW | 1-1-1 | 4-4-4 | 3-3-3 | | | | | | |
| | | | | | | | | CCW | 5-5-5 | 2-2-2 | 3-3-3 | | | | | | |
| | | | | | | | | CW | 7-7-7 | 4-4-4 | 3-3-3 | | | | | | |
| | | | | | | | | CCW | 6-6-6 | 2-2-2 | 3-3-3 | | | | | | |
| 3PN2520B | | Single Phase | 240 | 50/60 | 0-280 | 10‡ | 2.80 | — | — | CW | LINE CORD & RECEPTACLE | | | 3 | 24 1/4 | — | |

• Jumper provided in the standard common position and should be moved or removed as required.

++ Line to line voltage

‡ Unit is fused for the constant current rating at the factory.

+ Motor driven units use terminal connections for CCW increasing voltage, as viewed from the base end. See Figure 23 on page 9 for motor wiring.

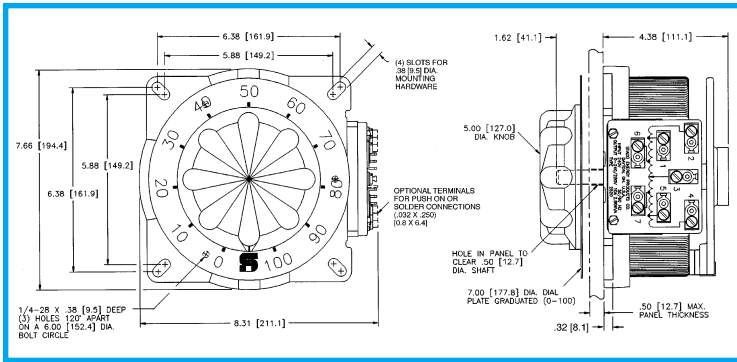
If ganged units are used in a system that ordinarily has a common neutral or ground between source and load, the neutral or ground must be connected to the common ter-

minals of the variable transformer assembly. If the system has no neutral, the load must be balanced or the transformers will be damaged.

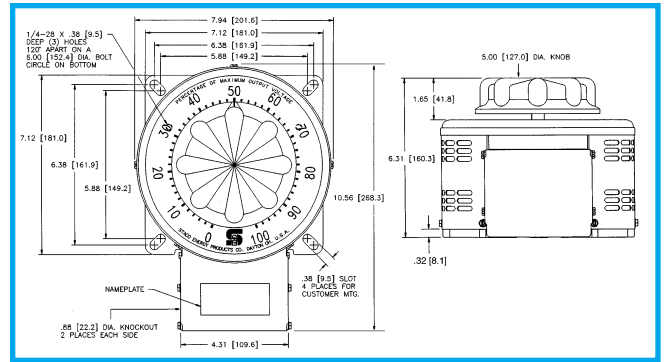
Maximum output current in output voltage range from 0 to 25% above line voltage. At higher output voltages, the output current must be reduced according to the derating curve, Figure B, page 6.

§ Maximum KVA at maximum output voltage and corresponding derated output current. Maximum KVA for lower voltages may be calculated from derating curve Figure B, page 6.

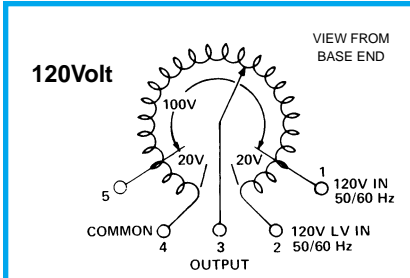
2500 Series



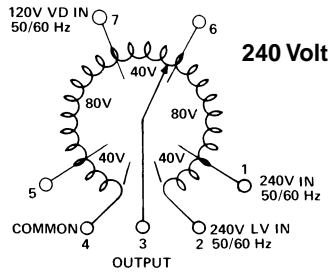
Manual Single, Uncased



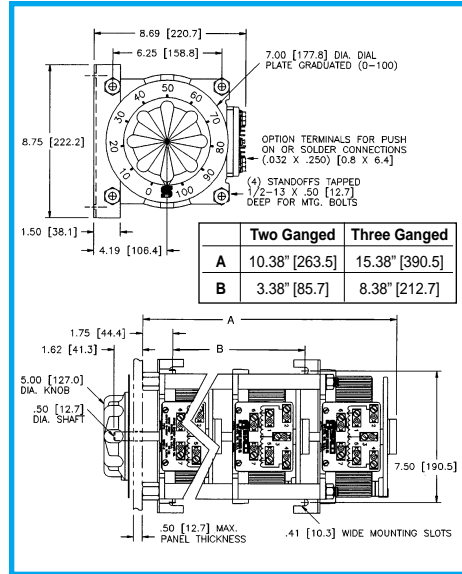
Manual Single, Cased



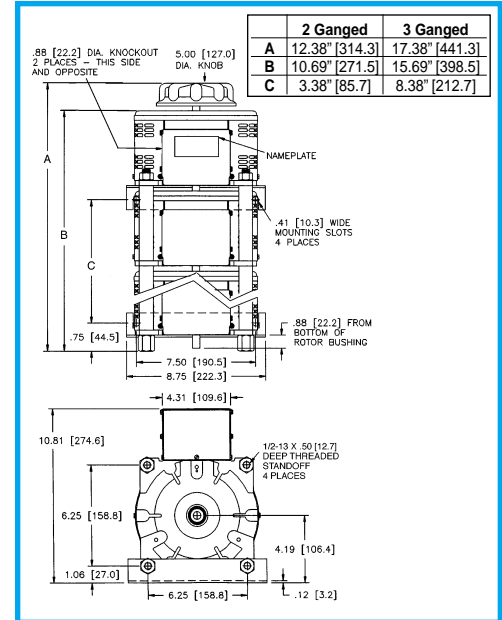
For opposite rotation interchange external connections from 1 to 5 and 4 to 2.



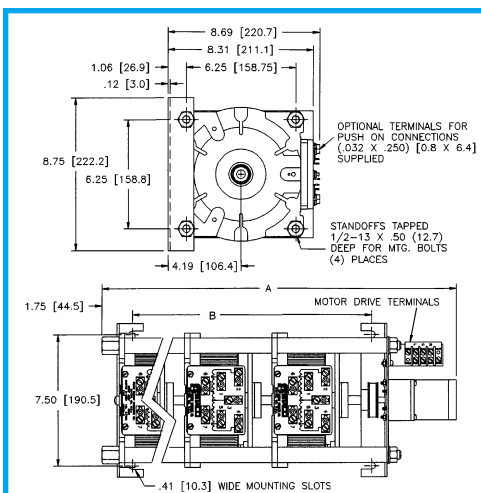
For opposite rotation interchange external connections from 1 to 5, 4 to 2 and 7 to 6.



Manual Two and Three-Ganged, Uncased

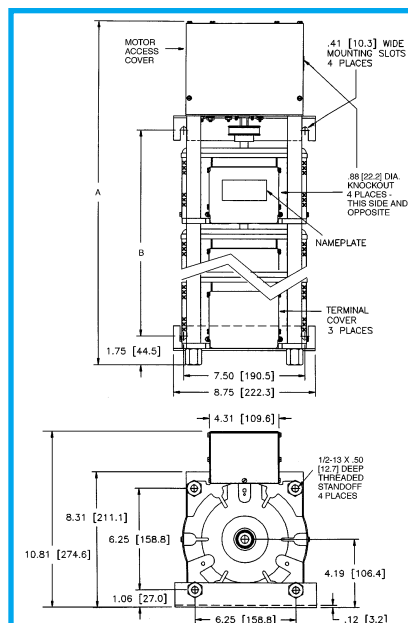


Manual Two and Three-Ganged, Cased



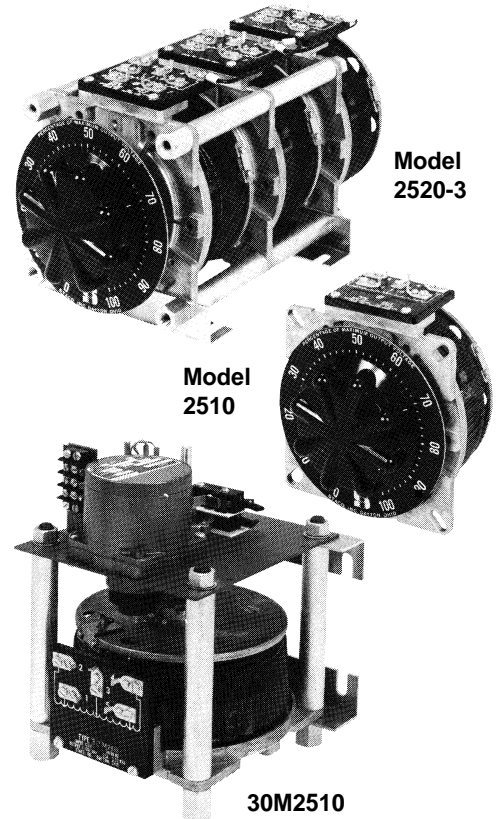
| | Single Unit | Two Ganged | Three Ganged |
|-----------------|----------------|----------------|----------------|
| A (5 & 15 sec) | 11.22" [285.0] | 16.22" [412.0] | 21.23" [539.2] |
| A (30 & 60 sec) | 11.61" [294.9] | 16.62" [422.1] | 21.62" [549.1] |
| B | 5.00" [127.1] | 10.00" [254.0] | 15.00" [381.0] |

Motor-Driven Single, Two and Three-Ganged, Uncased



| | Single Unit | Two Ganged | Three Ganged |
|---|----------------|----------------|----------------|
| A | 13.50" [342.9] | 18.50" [469.9] | 23.50" [595.4] |
| B | 5.00" [126.9] | 10.00" [254.0] | 15.00" [381.1] |

Motor-Driven Single, Two and Three-Ganged, Cased



Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

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