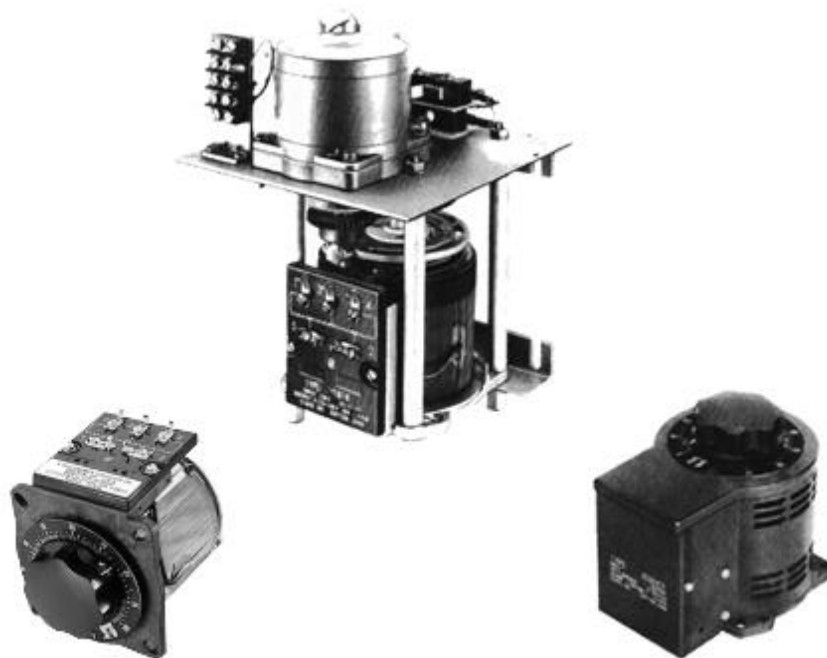


**Variable Transformers**  
**Series 1000 • 3.5 to 10.0 Amperes**



# 1000 Series

STACO's 1010B operates on 120 volts and is rated for constant current of 10 amperes. The 1020B operates on 240 volts and constant current of 3.5 amperes. Coil tapping arrangements allow for 0 to input line voltage or 17% above line voltage. These variable transformers may be operated from 50-1500 hertz with no reduction in output current.

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, which have a "CT" suffix, feature the protective screening over the coil

assembly and a terminal box cover with knock-outs to accept conduit.

Motor driven units are available in single, two and three ganged assemblies; cased or uncased styles as identified by the prefix "M" in the type 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.

The synchronous motor is designed for operation on 120 volts, 50/60 hertz single phase lines and draws approximately 0.3 amperes.

| PART NO.                                         | WIRING                                   | INPUT           |                                                  | OUTPUT                                           |                             |                 |                               |                          | SHAFT<br>ROTATION<br>FOR<br>VOLTAGE<br>INCREASE | TERMINAL CONNECTIONS<br>(For increasing Voltage)<br>As Viewed from Base End |                                  |                                  | SCHE-<br>MATIC<br>(Pg 8 & 9)     | NET<br>WT.<br>LBS.       | (Max)<br>MOTOR<br>DRIVEN |                                  |                                  |        |                          |        |        |        |
|--------------------------------------------------|------------------------------------------|-----------------|--------------------------------------------------|--------------------------------------------------|-----------------------------|-----------------|-------------------------------|--------------------------|-------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------|--------------------------|----------------------------------|----------------------------------|--------|--------------------------|--------|--------|--------|
|                                                  |                                          | VOLTS           | HERTZ                                            | VOLTS                                            | CONSTANT<br>CURRENT<br>LOAD |                 | CONSTANT<br>IMPEDANCE<br>LOAD |                          |                                                 | Input                                                                       | Jumper*                          | Output                           |                                  |                          |                          |                                  |                                  |        |                          |        |        |        |
|                                                  |                                          |                 |                                                  |                                                  | MAX<br>AMPS                 | MAX<br>KVA      | MAX<br>AMPS                   | MAX<br>KVA               |                                                 |                                                                             |                                  |                                  |                                  |                          |                          |                                  |                                  |        |                          |        |        |        |
| 1010B<br>1010BCT<br>M1010B †<br>M1010BCT†        | Single<br>Phase                          | 120             | 50/60                                            | 0-120                                            | 10                          | 1.2             | 13                            | 1.56                     | CW<br>CCW<br>CW<br>CCW                          | 1-4<br>1-4<br>4-5<br>1-2                                                    | —<br>—<br>—<br>—                 | 4-3<br>1-3<br>4-3<br>1-3         | 10                               | 10 1/4                   | 16 3/4                   |                                  |                                  |        |                          |        |        |        |
| 1010B-2<br>1010BCT-2<br>M1010B-2†<br>M1010BCT-2† | Single<br>Phase<br>Series                | 240             | 50/60                                            | 0-240                                            | 10                          | 2.4             | 13                            | 3.12                     | CW<br>CCW<br>CW<br>CCW                          | 1-1<br>4-4<br>5-5<br>2-2                                                    | 4-4<br>1-1<br>4-4<br>1-1         | 3-3<br>3-3<br>3-3<br>3-3         | 10 & 4                           | 22 1/2                   | 30 7/8                   |                                  |                                  |        |                          |        |        |        |
|                                                  | Three<br>Phase<br>Open<br>Delta          | 120++           | 50/60                                            | 0-120                                            | 10                          | 2.08            | 13                            | 2.70                     | CW<br>CCW<br>CW<br>CCW                          | 1-4-1<br>4-1-4<br>5-4-5<br>2-1-2                                            | 4-4<br>1-1<br>4-4<br>1-1         | 3-4-3<br>3-1-3<br>3-4-3<br>3-1-3 | 10 & 5                           |                          |                          |                                  |                                  |        |                          |        |        |        |
|                                                  |                                          |                 |                                                  | 0-140                                            | 10                          | 2.42            | —                             | —                        |                                                 |                                                                             |                                  |                                  |                                  |                          |                          |                                  |                                  |        |                          |        |        |        |
|                                                  |                                          |                 |                                                  | 1010B-3<br>1010BCT-3<br>M1010B-3†<br>M1010BCT-3† | 240++                       | 50/60           | 0-240                         | 10                       | 4.16                                            | 13                                                                          | 5.4                              | CW<br>CCW<br>CW<br>CCW           | 1-1-1<br>4-4-4<br>5-5-5<br>2-2-2 |                          |                          | 4-4-4<br>1-1-1<br>4-4-4<br>1-1-1 | 3-3-3<br>3-3-3<br>3-3-3<br>3-3-3 | 10 & 6 | 34 1/2                   | 42 1/2 |        |        |
|                                                  |                                          |                 |                                                  |                                                  |                             | 60              | 0-280                         | 10                       | 4.85                                            | —                                                                           | —                                |                                  |                                  |                          |                          |                                  |                                  |        |                          |        |        |        |
|                                                  |                                          |                 |                                                  |                                                  |                             | Single<br>Phase | 120                           | 50/60                    | 0-140                                           | 10‡                                                                         | 1.4                              | —                                | —                                |                          |                          | CW                               | LINE CORD &<br>RECEPTACLE        |        |                          | 3      | 10 1/4 | —      |
|                                                  |                                          |                 |                                                  |                                                  |                             | Single<br>Phase | 120                           | 50/60                    | 0-140                                           | 10‡                                                                         | 1.4                              | w/Ammeter<br>w/Voltmeter         |                                  |                          |                          | CW                               | LINE CORD &<br>RECEPTACLE        |        |                          | 9      | 10 1/4 | —      |
|                                                  | 1020B<br>1020BCT<br>M1020B†<br>M1020BCT† | Single<br>Phase | 240                                              | 50/60                                            | 0-240                       | 3.5             | 0.84                          | 5.0                      | 1.20                                            | CW<br>CCW<br>CW<br>CCW                                                      | 1-4<br>1-4<br>4-5<br>1-2         | —<br>—<br>—<br>—                 | 4-3<br>1-3<br>4-3<br>1-3         |                          |                          | 12                               | 10 1/4                           | 16 3/4 |                          |        |        |        |
| 0-280                                            |                                          |                 |                                                  |                                                  | 3.5                         | 0.98            | —                             | —                        |                                                 |                                                                             |                                  |                                  |                                  |                          |                          |                                  |                                  |        |                          |        |        |        |
| 120                                              |                                          |                 |                                                  |                                                  | 50/60                       | 0-280           | 3.5#                          | 0.42§                    | —                                               | —                                                                           | CW<br>CCW                        | 4-7<br>1-6                       | —<br>—                           | 4-3<br>1-3               |                          |                                  |                                  |        |                          |        |        |        |
|                                                  |                                          |                 | 1020B-2<br>1020BCT-2<br>M1020B-2+<br>M1020BCT-2+ | Single<br>Phase<br>Series                        |                             | 480             | 50/60                         | 0-480                    | 3.5                                             | 1.68                                                                        | 5.0                              | 2.4                              | CW<br>CCW<br>CW<br>CCW           | 1-1<br>4-4<br>5-5<br>2-2 | 4-4<br>1-1<br>4-4<br>1-1 |                                  |                                  |        | 3-2<br>3-3<br>3-3<br>3-3 | 12 & 4 | 22 1/2 | 30 3/4 |
|                                                  |                                          |                 |                                                  |                                                  |                             |                 |                               | 0-560                    | 3.5                                             | 1.96                                                                        | —                                | —                                |                                  |                          |                          |                                  |                                  |        |                          |        |        |        |
| 0-560                                            |                                          |                 |                                                  |                                                  | 3.5#                        |                 |                               | 0.84§                    | —                                               | —                                                                           | CW<br>CCW                        | 7-7<br>6-6                       | 4-4<br>1-1                       | 3-3<br>3-3               |                          |                                  |                                  |        |                          |        |        |        |
| Three<br>Phase<br>Open<br>Delta                  | 240++                                    | 50/60           |                                                  | 0-240                                            | 3.5                         | 1.45            | 5.0                           | 2.08                     | CW<br>CCW<br>CW<br>CCW                          | 1-4-1<br>4-1-4<br>5-4-5<br>2-1-2                                            | 4-4<br>1-1<br>4-4<br>1-1         | 3-4-3<br>3-1-3<br>3-4-3<br>3-1-3 | 12 & 5                           |                          |                          |                                  |                                  |        |                          |        |        |        |
|                                                  |                                          |                 |                                                  | 0-280                                            | 3.5                         | 1.70            | —                             | —                        |                                                 |                                                                             |                                  |                                  |                                  |                          |                          |                                  |                                  |        |                          |        |        |        |
|                                                  |                                          |                 |                                                  | 120++                                            | 50/60                       | 0-280           | 3.5#                          | 0.73§                    | —                                               | —                                                                           | CW<br>CCW                        | 7-4-7<br>6-1-6                   | 4-4<br>1-1                       | 3-4-3<br>3-1-3           |                          |                                  |                                  |        |                          |        |        |        |
| 1020B-3<br>1020BCT-3<br>M1020B-3<br>M1020BCT-3   | Three<br>Phase<br>Wye                    | 480++           | 50/60                                            | 0-480                                            | 3.5                         | 2.91            | 5.0                           | 4.16                     | CW<br>CCW<br>CW<br>CCW                          | 1-1-1<br>4-4-4<br>5-5-5<br>2-2-2                                            | 4-4-4<br>1-1-1<br>4-4-4<br>1-1-1 | 3-3-3<br>3-3-3<br>3-3-3<br>3-3-3 | 12 & 6                           | 34 1/2                   | 42 1/4                   |                                  |                                  |        |                          |        |        |        |
|                                                  |                                          |                 | 60                                               | 0-560                                            | 3.5                         | 3.40            | —                             | —                        |                                                 |                                                                             |                                  |                                  |                                  |                          |                          |                                  |                                  |        |                          |        |        |        |
|                                                  |                                          |                 | 240++                                            | 60                                               | 0-560                       | 3.5#            | 1.46§                         | —                        | —                                               | CW<br>CCW                                                                   | 7-7-7<br>6-6-6                   | 4-4-4<br>1-1-1                   |                                  |                          |                          | 3-3-3<br>3-3-3                   |                                  |        |                          |        |        |        |
|                                                  |                                          | Single<br>Phase | 240                                              | 50/60                                            | 0-280                       | 3.5‡            | 0.98                          | —                        | —                                               | CW                                                                          | LINE CORD &<br>RECEPTACLE        |                                  |                                  |                          |                          | 3                                | 10 1/4                           | —      |                          |        |        |        |
|                                                  |                                          | Single<br>Phase | 240                                              | 50/60                                            | 0-280                       | 3.5‡            | 0.98                          | w/Ammeter<br>w/Voltmeter |                                                 | CW                                                                          | LINE CORD &<br>RECEPTACLE        |                                  |                                  |                          |                          | 9                                | 10 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.

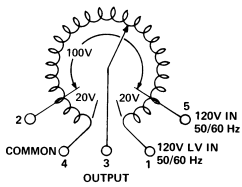
† Motor driven units use terminal connections for CCW increasing voltage, as viewed from the base end. See Fig 23 on page 9 for motor wiring.

§ 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.

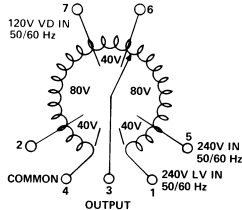
π If ganged units are used in a system that ordinarily has a common neutral or ground between source and load, the neutral or ground must be connected to the common terminals of the variable transformer assembly. If the system has no neutral, the load must be balanced or the transformers will be damaged.

# 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.

# 1000/1200 Series



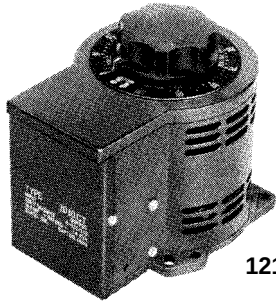
VIEW FROM BASE END  
For opposite rotation interchange external connections from 5 to 2 and 4 to 1. Terminals 2 and 5 omitted on 1210.



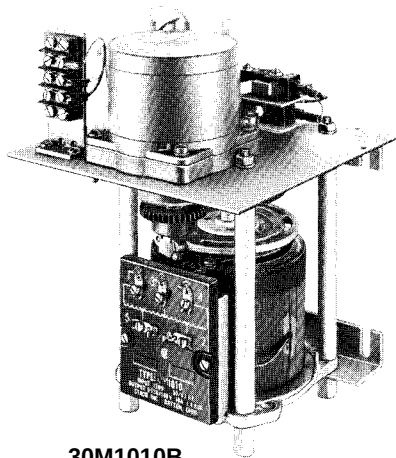
VIEW FROM BASE END  
For opposite rotation interchange external connections from 5 to 2, 4 to 1 and 7 to 6. Terminals 2, 5, 6 and 7 omitted on 1220.



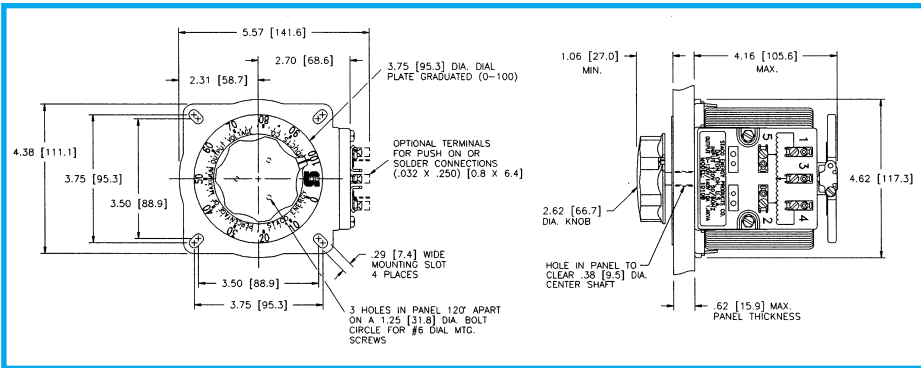
1010B



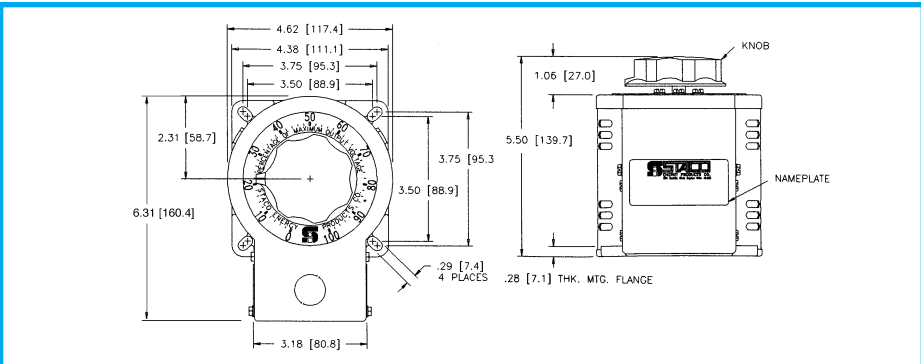
1210BCT



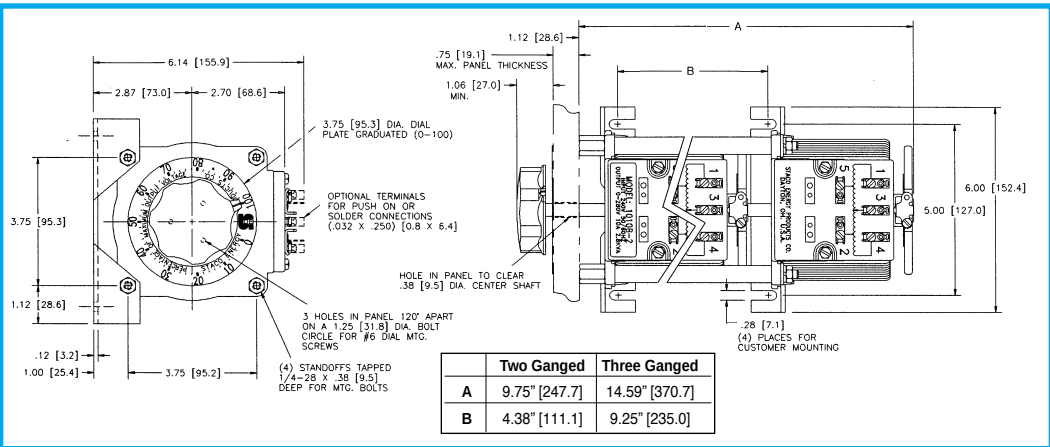
30M1010B



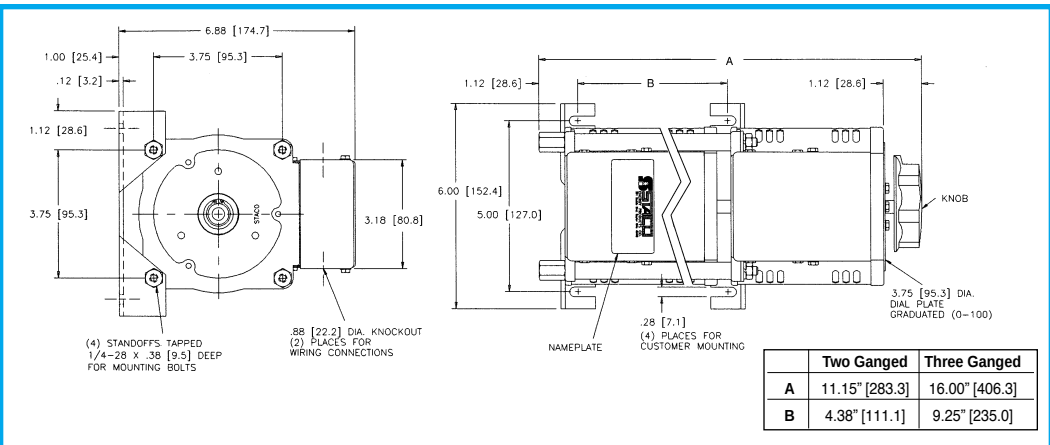
Single Unit, Uncased



Single Unit, Cased

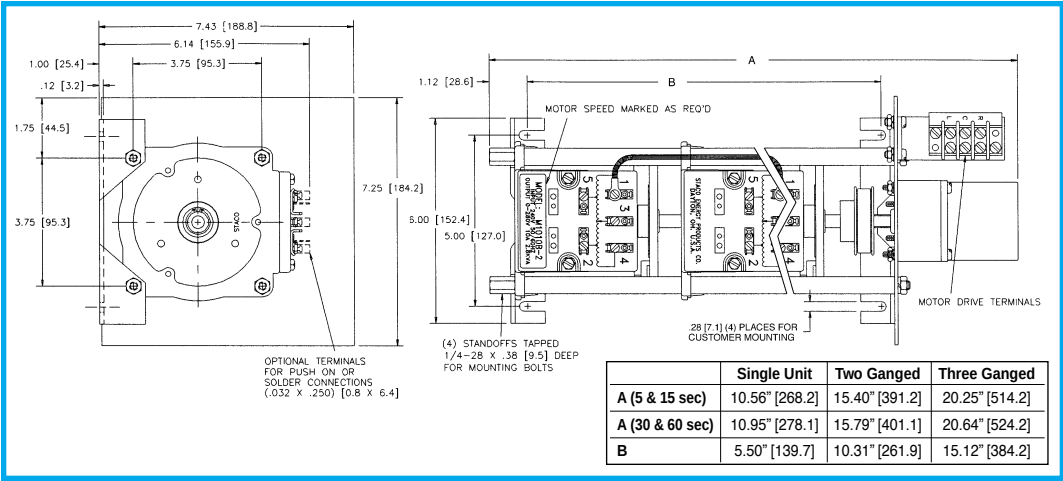


Two and Three Ganged, Uncased



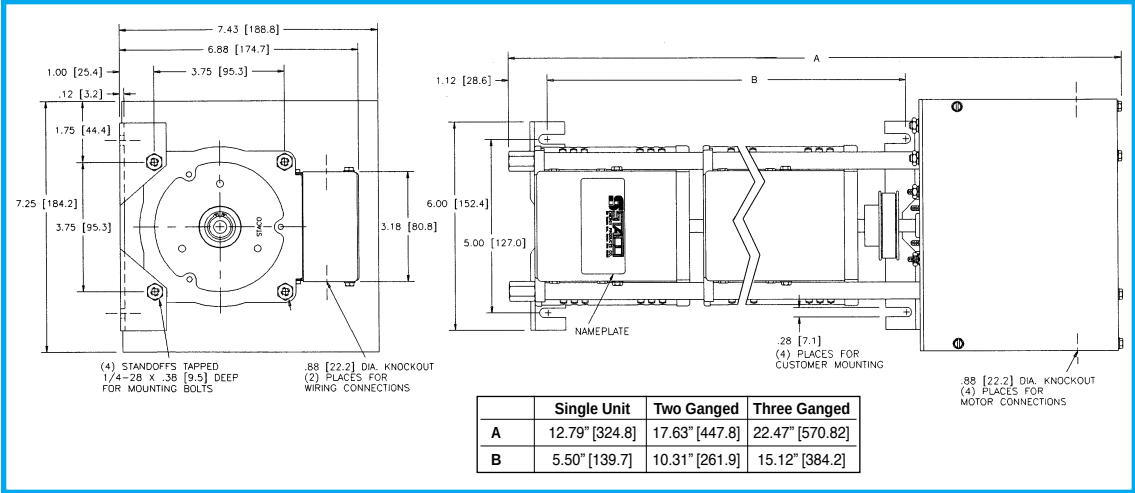
Two and Three Ganged, Cased

1000/1200 Series



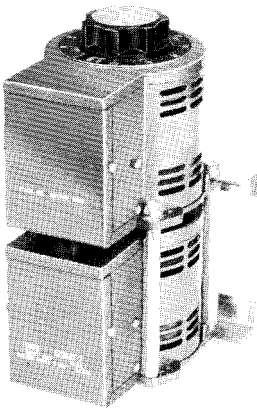
1210B  
Front View

Motorized Single, Two and Three Ganged, Uncased

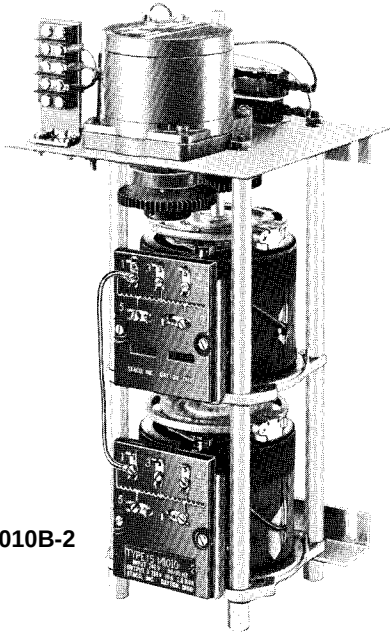


1210B  
Rear View

Motorized Single, Two and Three Ganged, Cased



1220BCT-2



15M1010B-2



**Стандарт  
Электрон  
Связь**

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