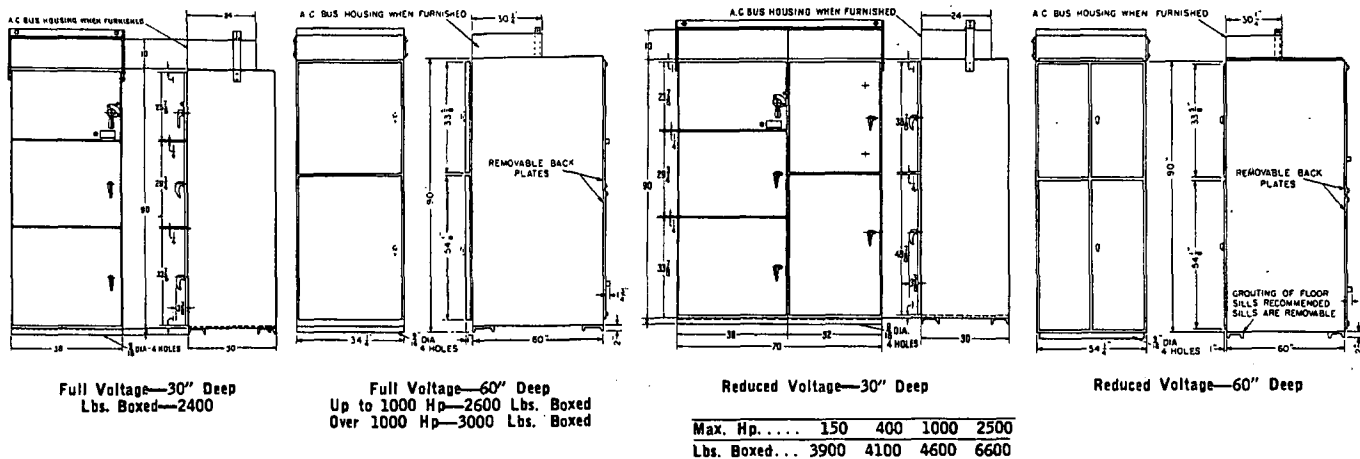


MEDIUM VOLTAGE



APPROXIMATE DIMENSIONS AND SHIPPING WEIGHTS



OPTIONAL FEATURES

1. Bus Work

- A. Power bus, a-c, 3 phase, 4800 volts maximum
 - 1. Full voltage, non-reversing and reversing
 - a. 1000 amp., add \$220.
 - b. 2000 amp., add 380.
 - 2. Reduced voltage and wound rotor
 - a. 1000 amp., add 440.
 - b. 2000 amp., add 760.
- B. Control Bus, including 60 amp. fused disconnect switch, add 145.
- C. Potential Bus
 - 1. A-c two wire, add 128.
 - 2. A-c three wire, add 218.
- D. Ground Bus
 - 1. Full voltage, non-reversing and reversing, add 38.
 - 2. Reduced voltage and wound rotor, add 76.

2. Meters and Instruments

- A. A-c ammeter \$198.
- B. A-c voltmeter (① See note below) 198.
- C. Indicating wattmeter (② See note below) 400.

Note—2 current transformers, suitable for metering are included in the basic controller. Price additions for current transformers need not be made unless a third current transformer is required. The circled numbers above indicate the number of potential transformers required for each type of meter. Price addition must be made for potential transformers. A maximum of 2 potential transformers are required for any one panel. For example: If a-c voltmeter only is being used, an addition for one potential transformer is required; if a-c voltmeter with three phase transfer switch and wattmeter, are being used, an addition for two potential transformers is required. If two or more controllers with instruments are mounted together, only one set of potential transformers is required providing potential bus is added.

- D. 3-phase ammeter transfer switch 102.
- E. 3-phase volt meter transfer switch 102.
- F. Current transformer 166.
- G. Potential transformer
 - 1. 2000-2500 volts, 50-60 cycles 288.
 - 2. 2500-5000 volts, 50-60 cycles 388.

- 3. Extra Start-Stop Pushbutton Stations mounted in door of controller, add \$50. Each

4. Run-Off-Automatic-Selector Switch, in place of Start-Stop Pushbutton

- A. Pushbutton type No Charge
- B. Drum type, add \$45. Each

5. Run-Off-Automatic Selector Switch, in addition to standard start-stop pushbutton

- A. Pushbutton type, add \$30.
- B. Drum type, add 95.

6. Indicating lights, add

30. Each

7. Extra Electrical Interlocks wired to terminal board:

- A. Maximum of 3 (in addition to maintaining interlock) No Charge
- B. More than 3 interlocks, add \$ 64. Each

8. 110 Volt Pushbutton Circuit including necessary control transformer and relays, add

\$149.

9. Control Relays:

- A. 1-4 poles, add 74.
- B. 5-8 poles, add 116.
- C. Enclosed switchboard type, 4 pole maximum, add 100.

10. Timing Relays

- A. Pneumatic type, add 100.
- B. Motor driven, add 176.

11. Under Voltage Protection:

- A. Time-delay, when specified No Charge

12. 3-Phase Overload Protection, including third current transformer

\$186.

13. Incomplete Sequence Relay, add

192.

Used on reduced voltage starters to disconnect from line, if run contactor fails to close in prescribed length of time.

14. Instantaneous Phase Reverse and Open Phase Relay, add

430.

15. Ground Fault Relaying Equipment, add

530.

Includes hand reset instantaneous type ground relay and window type current transformer.

16. Extra Control Transformer Capacity, up to 2 kva, add

274.

17. Switch Hook (hook stick and fuse tong) each

48.