



THE S. K. C. SYSTEM

Stanley Electric Manufacturing Company

Pittsfield, Massachusetts

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CONDENSERS

S. K. C. condensers of standard size are made in sections, each section being contained in a tin box 12 x 10 inches x $\frac{3}{4}$ of an inch. For motor work these sections or slabs operate on 550 volts at common frequencies. They are made of three standard capacities, approximating 3, 2.4 and 1.8 microfarads each, the same size tin box being used to contain either.

Special sections can be made to order of different capacity or so subdivided that by grouping different subdivisions or sections a wide range of capacity can be secured.

Standard sections contained in the tin box are provided with only two terminals which are merely copper wires passed through insulators, no binding posts being used.

A subdivided section is generally assembled in a wooden case permitting, if desired, binding posts and more terminals. When so assembled, however, provision must be made for the radiation of heat by allowing space between each section.

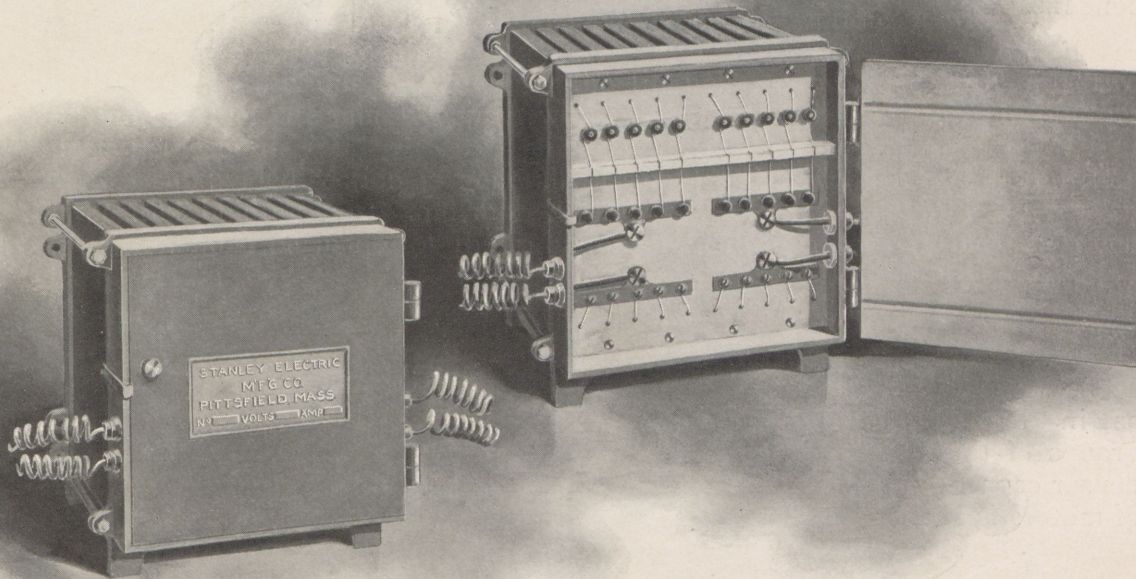


FIG. 1. S. K. C. CONDENSERS ASSEMBLED

Specially prepared paper and tin-foil are used, assembled in layers and treated in paraffine under a vacuum at the proper temperature to remove all moisture and gases. This treatment insures a perfect sealing of the paper and tin-foil, leaving no space for vibration of the parts or for a discharge to pass through the dielectric.

The use of condensers with alternating-current motors dates back to the inception of the S. K. C. System and is broadly covered by patents which we own. Connecting condensers in multiple with the field coil of a motor, as illustrated in Fig. 2, supplies the lagging component of the current, or, in other words, the false current. Alternating-current motors so connected take current in proportion to their load, substantially as direct-current motors do; the false currents, instead of flowing back to the generator, burdening the whole system, simply flow in a local circuit through the condensers.

For motor work the sections of S. K. C. condensers are assembled in a cast-iron frame or case. Two standard sizes of the latter are provided, one to contain up to six sections, the other for as many as ten sections.

An enclosed terminal and fuse box is located at one end of these cases and it is intended that each section be separately fused as in Fig. 1. By combining groups of these cases, the condenser capacity for various sizes of motors is obtained.

Standard condenser slabs, \$10.00 each
 Cast-iron case for 6 slabs, 12.00 each
 Cast-iron case for 10 slabs, 18.00 each

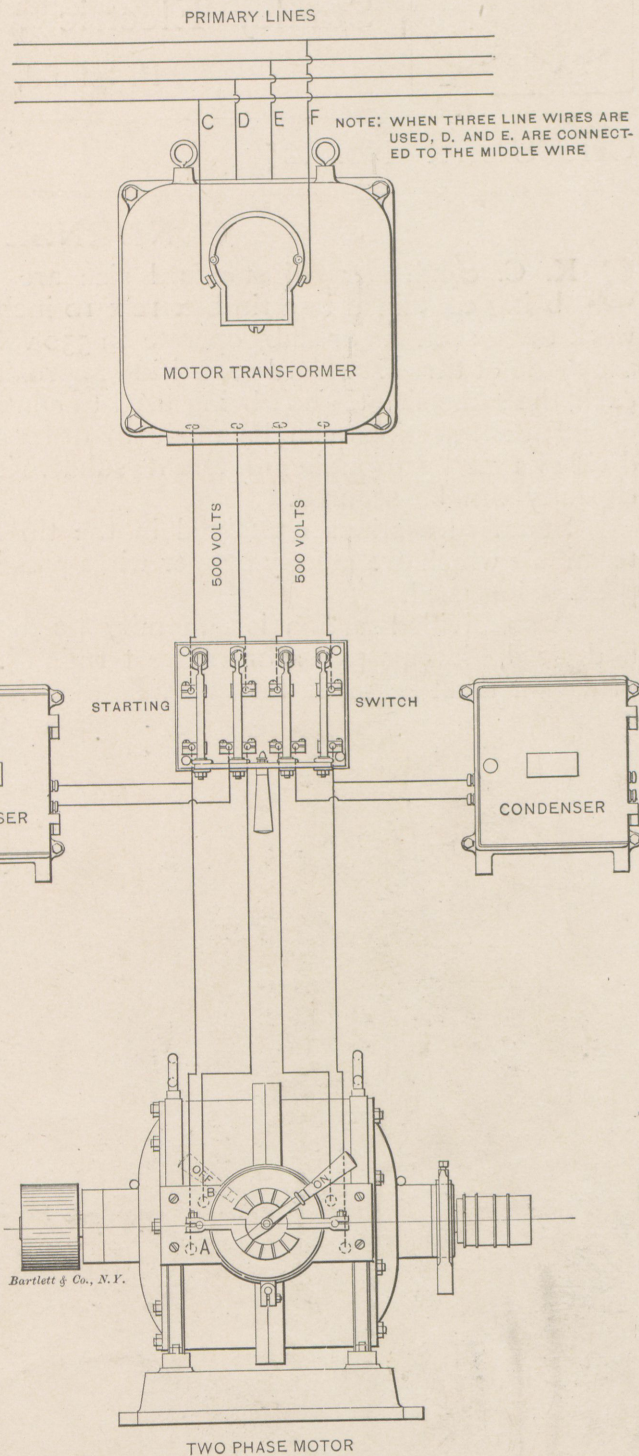


FIG. 2. CONDENSER CONNECTIONS FOR TWO-PHASE MOTOR