Type CCL Polyphase Induction Motors

Squirrel Cage Rotors—Constant Speed

Polyphase induction motors of the squirrel cage type offer advantages for many installations superior to those of any other type of motor. The absence of sliding contacts makes possible extremely simple construction, with no wearing parts except the bearings. Absolute freedom from sparking is assured; these motors can be used with perfect safety in locations surrounded by inflammable or explosive material. The line connections are made to the stationary element when the motor is installed, and no further connections are necessary. The rotating element is practically indestructible. Simplicity of construction and operation, and low cost for attendance and maintenance are among the marked advantages of this type of motor.

Having been a pioneer in the field of alternating current motor production, and since the installation of the first motor a leader in promoting their use, the Westinghouse Company is especially qualified to produce thoroughly reliable polyphase induction motors. The Westinghouse type CCL motor possesses all the advantages inherent in this type. It is characterized by great strength of parts, large self-oiling bearings that seldom require attention, high starting and pull-out torque, large overload capacity, low operating temperature, practically constant speed, and high efficiency and power factor.

Ratings. Type CCL motors are built in all commercial sizes from one-half horse-power up to several thousand horse-power. Standard sizes for slow and moderate speeds on two and three-phase circuits are as follows:

From $\frac{1}{2}$ to 200 horse-power, inclusive.......25 and 60 cycles.

From 1 to 75 horse-power, inclusive...............40 cycles.

Standard CCL motor frames are numbered consecutively according to size from 1 to 10. The same general characteristics and the same general form of construction follow through the whole line.

Voltages. The smaller sizes are built for 100, 200, 400, and 550 volts; motors of 30 horse-power and larger are built also for 1000-1100 and 2000-2200 volts.

Complete rating and dimension leaflets for any of the foregoing standard frequencies will be supplied on request.

Modifications. A type CCL motor can drive its load through a belt or gear or can be direct connected. The motor can be arranged for operation