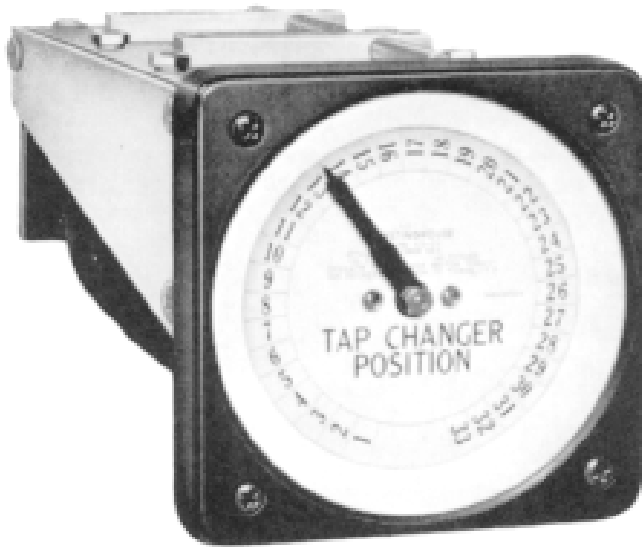


Type KS-241 Synchronie Remote Position Indicators



Application

A synchronie system is used to indicate the position of a remote device. Basically, the system consists of a self-synchronous motor mechanically coupled to the remote device and electrically coupled to an identical motor on a local indicating instrument. Any rotation of the motor (transmitter) on the remote device is translated into an equal rotation of the indicating instrument (receiver).

Typical uses for remote position indicators are on turbine or waterwheel governors, draw or lift bridges, elevators and conveyors, liquid level floats, transformer tap changers, valve position or generator rheostats. Synchronie equipment may also be used for remote signalling, using a manually operated transmitter.

Mechanism

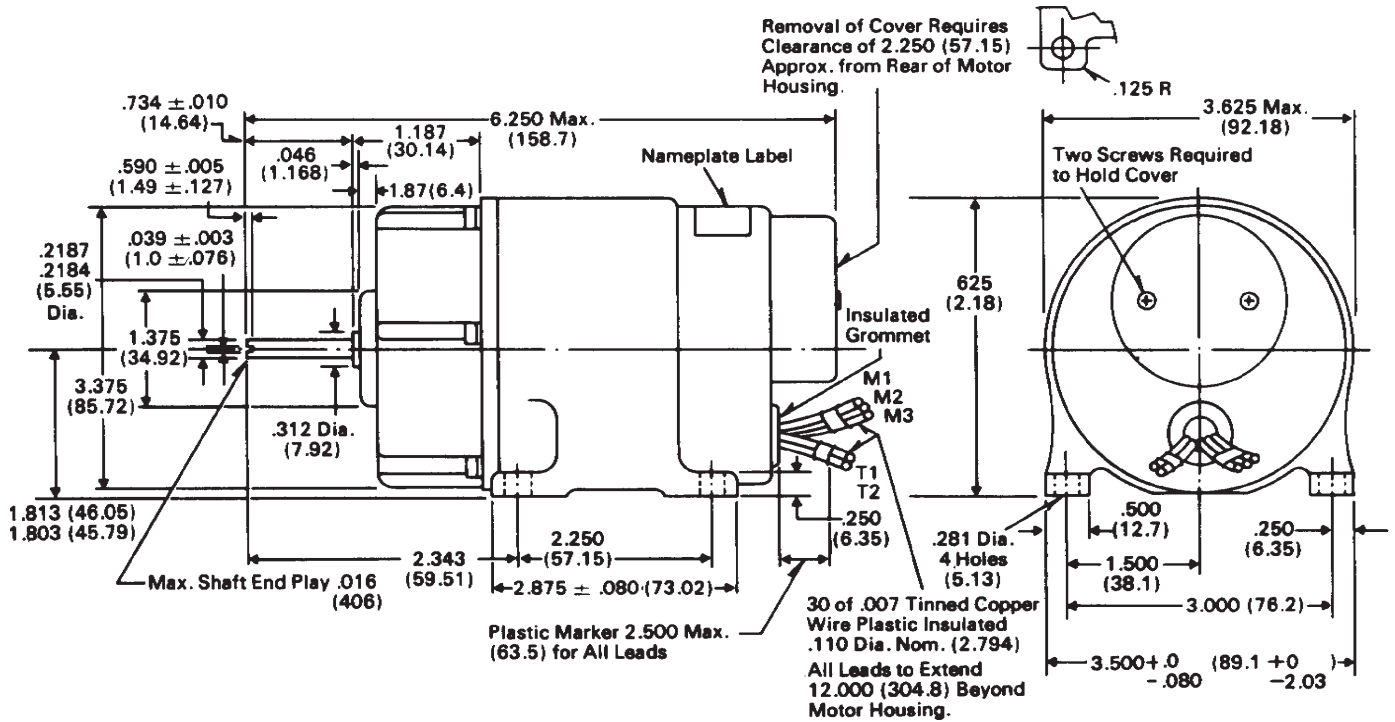
The transmitter and receiver motors are identical. Each has a single-phase rotor energized from a common source of 50/60 Hz power. The three-phase motor windings are connected solidly together. They will always attempt to find a position where the induced stator voltages balance out. Rotation of the transmitter will cause an unbalance which the receiver will compensate for by a corresponding rotation.

Types Available

Synchronie	Transmitter motor
KS-241:	Receiver 4½" (114mm.), flush mounted.

Type KS-241 Synchrotie Remote Position Indicators

Outline Dimensions and Drilling Plan, Inches (Millimeters) See Application Data 43-200



Specifications

Maximum Speed: 200 rpm,

Accuracy: Accuracy is $\pm 1\%$. Accuracy can be adversely affected by low line voltage, excessive line resistance between transmitter and receiver, or by operating several receivers from one transmitter. (For actual conditions determine error from IL 43-249.)

Power Consumption: 60 VA, 15 watts, per motor.

Power Supply: 120 volts, 50/60 hertz

Secondary voltage: 57½ volts.

Modifications

Dials: Black with white markings
Fluorescent

Windows: Non-glare
Shatterproof

Electrical: Multiple receivers
Differential receivers

Wiring Diagrams

See Application Data 43-200.

Further Information

Ordering Information & Ratings:
This Catalog, Switchboard Section
Instructions: IL 43-249

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