Cam Type Master Switch — Type T-8 (Continued)

Operation

The cam type master is operated by turning manually the hand wheel located at the side of the switch. Turning the hand wheel rotates the shaft on which the operating cams are mounted. The operating cams engage rollers mounted on the switch contact levers and cause the switch contacts to open or close as required by the electrical circuit.

When turning the master handwheel to the first position in either direction, one of the master switch contacts will close momentarily to provide a pick up circuit to the control.

With the self centering type of master, it is necessary for the operator to hold the handwheel at the selected position of operation. When the master handle is released, it returns to the off position.

On the non-self centering type of master, the hand wheel will remain in the position selected until the operator turns it to another position. A star wheel mechanism provides positive positioning on the non-self centering type master switch.

Description

This master switch is provided with six independent electrical circuits. The contacts are of the twin break silver faced type. Stationary contacts are supported on two mineral filled phenolic insulating boards. These contact supports are located at the top of the master switch, and are provided with terminals at the rear of the boards for wiring.

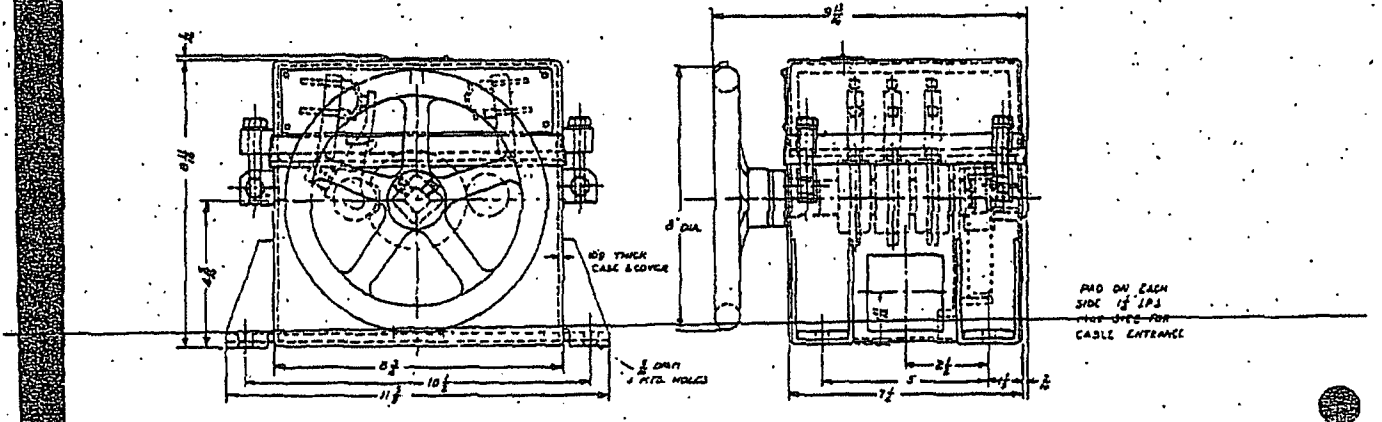
The movable contacts are of the bridging type, and are supported by contact levers, provided with rollers which engage the operating cams.

The steel operating cams are made in two pieces to permit easy assembly to the operating shaft. The design of the cam is such as to maintain the electrical contacts open or closed at various points of rotation of the cam shaft as required by the function of the magnetic controller with which the master is used.

The reversing master provides two speed points in each direction. It may be converted from the self centering type to the non-self centering type or vice versa by rotating the star wheel 180 degrees. The non-reversing master provides a maximum of 5 speed points. The spring return feature is not available with the non-reversing master.

The cam operating mechanism and the electrical contacts are enclosed in a water tight, submersible case. The top half of the case is removable for wiring and inspection. The base is provided with four mounting bosses drilled for ½ inch mounting studs. A pad is provided on each side of the case to accommodate a maximum size of 1½ inch conduit.

Approximate Dimensions & Weights



Net Weight — 32 Lbs.
Spares — 3 Lbs.

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