

Pedestal Mounted Cam Type Master Switch — Type T-9 (Continued)

stans and other similar motor driven deck auxiliaries. The master is used with full reversing, and dynamic lowering magnetic hoist controllers providing a maximum of five positions in each direction.

Operation

The pedestal type master is operated manually by a vertical operating lever. The master operating lever is normally held mechanically in the "off" position. To advance the operating lever to a desired speed point, the lever must be shifted toward the master and then advanced to the desired operating position. To operate in the opposite direction, the master handle must be returned to the "off" position, and shifted away from the master before the lever can be advanced to the selected operating point in the reverse direction. The throw of the master handle is 72 degrees in each direction. When shifting the master lever through the neutral or "off" position for changing the direction of operation, the lever moves through an arc of 10 degrees.

A small drum type switch is assembled to the master, and provided with an outside operating lever. This is provided for disconnecting the controller pilot circuit from the line when not in use. This drum type switch is provided with "on" and "off" points which may be selected by turning the switch lever.

Description

The master switch is provided with ten independent electrical circuits. The contacts are 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 board for wiring.

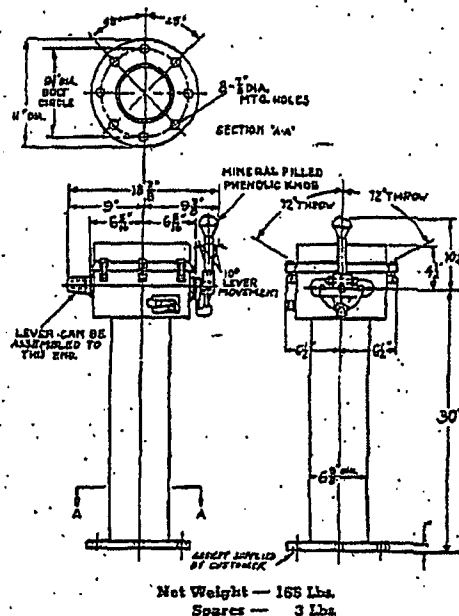
The movable contacts are the bridging type and are supported by contact levers provided with rollers which engage the operating cams.

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 operating cams are assembled to a shaft which is supported by anti-friction bearings. The master handle is assembled to the shaft at one end of the master. A star-wheel is assembled to the shaft for the purpose of providing definite positioning of the cam shaft at the operating points.

The complete switch mechanism is mounted in a spraytight sheet steel enclosure, welded to a hollow steel tube provided with a flange at the base for deck mounting. The top half of the master enclosing case is removable for wiring and inspection. The control wiring to the master switch is brought through the pedestal.

Approximate Dimensions & Weights



Continued