AFTE27/47 CONTROL BOX

- Power Indicator
- Start Button
- Emergency Stop
- Inch Reverse
- Inch Forward
- No-hole Indicator
- Mains Isolating Interlock

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OPERATORS INSTRUCTIONS

Statement of Use

To be used to control AFTE27 or AFTE47 Tappers.

Specifications

Electrical Supply: 380-415 Volts for Europe (Part No. 94942), 50Hz.
220-240 Volts for USA (Part No. 94962), 60Hz.
3-Phase supply with neutral and earth.

Weight: 8Kg.

Safety: The Control Box is protected by fuses and has a mains isolating interlock fitted to the cover. The box has an IP55 rating.

NOTE: Only one tool is to be controlled by the control box.

Electrical Connections

WARNING: ENSURE THAT THE ELECTRICAL SUPPLY IS ISOLATED FROM THE CONTROL BOX BEFORE MAKING ANY CONNECTIONS.

NOTE: Refer to AFTE27/47 service sheet for Y (star) or Δ (delta) motor connections.

The wires from the motor thermal cutout terminate in a connector (TS) (see Figure 1) and are wired in series with the holding coil in the supply contactor.

The electrical supply to the control box is via a five core cable. Three phase wires, black, black and brown, neutral wire blue and earth wire green/yellow. Remove the cover from the control box and connect the green/yellow wire to the earth screw, the blue wire to the supply terminal N and the three phase wires to L1, L2 and L3.

IMPORTANT: The cables to and from the control box should be protected by a conduit to prevent damage.

PCB connections are provided for wiring remote controls for Start, Emergency Stop; Inch forward; Inch Reverse and Ready Indicator - see circuit diagram.

Proximity Switch Connection

WARNING: ENSURE THAT THE ELECTRICAL SUPPLY IS ISOLATED FROM THE CONTROL BOX BEFORE CONNECTING THE PROXIMITY SWITCHES.

Connect the proximity switch cables SW1 and SW2 to the control box PCB as follows:

- Brown wire: 24V
- Black wire: Output
- Blue wire: 0V

Connect proximity switch SW3 to the PCB as follows:

- Brown wire: SW NOH03
- Black wire: SW NOH02
- Blue wire: SW NOH01

Ensure the proximity switch cable is plugged into the top of the proximity switch and tightened down.

Operation

Power Indicator (White illuminated) - Indicates power is on.
Start Button (Green) - Starts tapping cycle.
Emergency Stop Button (Red) - Latching button stops tapping action. Twist button to release inch reverse tool to the datum position.
Inch Reverse (Yellow) - Enables inch reversal of tool.
Inch Forward (Blue) - Enables inch forward of tool.

No Hole (Red) - Illuminates when no-hole is detected or when tool has over-run in forward position. To reset, push no-hole button and inch tool to the datum position.

WARNING: (1) ALWAYS DISCONNECT THE CONTROL BOX FROM THE POWER SUPPLY BEFORE ATTEMPTING ANY REPLACEMENT, Dismantling, Adjusting or Servicing.

(2) ELECTRIC TESTING AND CHECKING AS NECESSARY SHOULD BE CARRIED OUT BY A COMPETENT ELECTRICIAN WITH THE RELEVANT SECTION OF HEALTH AND SAFETY.

Always quote tool number, serial number and spare part number when ordering spares.

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