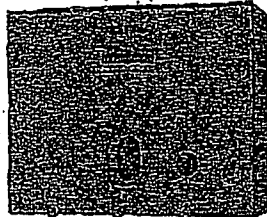
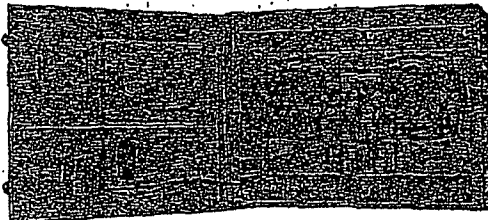


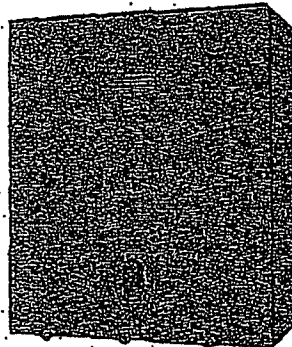
## A-c Magnetic Across-the-Line Starters (Continued)



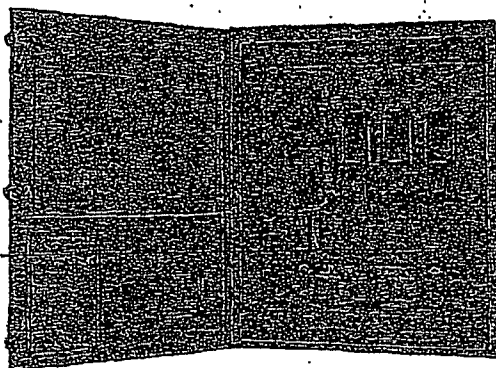
SIZE 1 DRIFFPROOF  
REVERSING CONTROLLER  
WITH LOCAL 3 WIRE  
CONTROL.



SIZE 1 DRIFFPROOF REVERSING CONTROLLER  
WITH LOCAL 3 WIRE CONTROL



SIZE 4 DRIFFPROOF  
NON-REVERSING  
STARTER WITH  
LOCAL CONTROL.



SIZE 4 DRIFFPROOF NON-REVERSING STARTER  
ARRANGED FOR 3 WIRE LOCAL CONTROL AND  
USING CURRENT TRANSFORMERS IN CONJUNCTION WITH  
THE THERMAL OVERLOAD RELAY.

### Operation (Continued)

Starters arranged for low voltage protection will also shut down in the event that there is a low voltage condition or a loss of voltage and such starters cannot restart until the master switch is again operated to set up the "starting" circuit. Likewise, starters arranged for low voltage release operation will also shut down due to a low voltage condition or loss of voltage; but such equipment will again restart immediately upon the resumption of normal voltage. Low voltage protection type starters cannot be adapted readily for low voltage release operation, or vice versa. (Internal wiring changes are necessary; and additional material is required in some cases).

An overload condition will cause the thermal overload relay to trip shutting down the equipment; and when this happens, the overload relay must be reset by hand before the starter can again operate.

The operation of the reversing type controller is similar to the non-reversing starter, except that the reversing type operates from a three button master station. The magnetic contactor corresponding to the directional button depressed will close and connect the motor to the line in the direction selected. Normal stopping from either direction is accomplished by depressing the "stop" button.

When the emergency run feature is furnished, operation is provided by the use of a separate momentary contact type pushbutton element, which is held depressed to bypass the contacts on the overload relay.

Standard starters provide simple across-the-line starting for squirrel cage motors which can be accelerated to full speed within a few seconds. However, special starters can be furnished for certain applications such as oil purifiers (centrifuges), ammunition hoists, steering gears, etc. on which long time starting, interlocking and other special features may be required. (Prices on application).

### Description

The non-reversing starter consists of a sheet steel panel (sizes 1 and 2) or a laminated glass melamine panel (size 3 and larger) on which is mounted a magnetically operated main line contactor, an adjustable thermal overload relay, a set of terminals and pilot circuit control fuses as required by the control scheme. The panel is supported inside of a sheet steel enclosing case.

Size 1 and 2 starters use a four pole contactor of balanced contact construction, which is a design based on balanced forces. Starters size 3 and larger use a 3 pole contactor which operates in conjunction with a magnetic latching relay. The magnetic relay is of the balanced construction and, when energized, serves to maintain the control circuit

Continued