Supply

 N L1 L2 L3

 MCCB Protection device

 Hold on Contact

 Isolation

 Coil

 13 1 3 5 Contactor (Contactor Plates)

 Stop Button

 A1 A2 14 2 4 6

95

 Start Button Overload coils

96

 2 4 6

 Motor

 Overload Contact

For the Motor to function the Protective device at the DB, Isolator and the Start Button need to be in the closed position.

The Stop button and Overload Contact are ‘Normally Closed’ which means they don’t become an active part of the circuit until they are operated

and open the circuit.

The Start button is a ‘Normally Open’ contact which means when pressed current will flow from **L3** to **N** via the Coil.

The Coil becomes magnetised and attracts all 4 Contact Plates causing them to close and therefore L1, L2, L3 to connect through to the Motor.

The Hold on Contact stays closed allowing the Start Button to open, so it limits the risk of burning out the Start Button.

The Motor will run until the Coil in de-energised.

The Coil will become de-energised if the Stop Button is pressed, or the Overload Contact opens due to an Overload on the Motor windings.

(or there is a fault on the circuit)

The Coil becoming de-energised will then release the Contactor plates.

The Motor will stop until the Start Button is pressed again.

**L3**

**L2**

**N**

**L1**

 **MOTOR**

 **CONTACTOR**

 **OVERLOAD**

 **START**

 **STOP**

 **96**

 **95**

 **6**

 **4**

 **2**

**1**

 **6**

 **4**

 **2**

**14**

**13**

 **5**

 **3**

**A2**

**A1**