

Retained Motor Voltage

C9916  
11/8/2004  
New  
New

19XR Series Chillers

**Purpose:**

To advise the field of a possible shock hazard due to residual voltage at motor terminals on hermetic motors.

**Information:**

There have been reports from the field and from the lab of electrical shocks from the motor terminals of the hermetic motors used on the 19XR series machines. These shocks may occur during servicing of compressors or starters up to an hour or more after the electrical disconnects are opened.

The stored charge is a result of the polar nature of motor insulation materials and very high resistance. The voltage potential has been measured on several occasions to be in excess of 100 volts which is high enough to startle and potentially injure someone as a direct or indirect result of the shock.

**Action:**

Whenever working on a motor or starter which is connected to the motor, open all disconnects and short each terminal to ground to dissipate the retained charge. The ground must be left in place until all service work is complete because the voltage may reappear after a momentary grounding of the terminals.

The ground wires must be removed before reapplying voltage.



**! WARNING**

File: Compressors, Motor, Drive, Gears

Benny DiMarco

Alan M. Johnson

Mail Keys: 2.33A, 2.33B, 2.33D, 2.40, 2.40A, 2.40B, 2.40D, 2.40M, 2.46A, 5.25G