

## BASIC KNOWLEDGE

## ELECTRICAL ENGINEERING IN REFRIGERATION

Refrigeration systems contain many electrical components, such as compressors, pressure switches, thermostats, fans, control relays or contactors. Therefore, electrical engineering is an important field in refrigeration. This is reflected in the high share of electrical engineering content in the training of the technicians engaged in refrigeration. The technicians engaged in refrigeration should be capable of planning, installing and commissioning electrical systems.

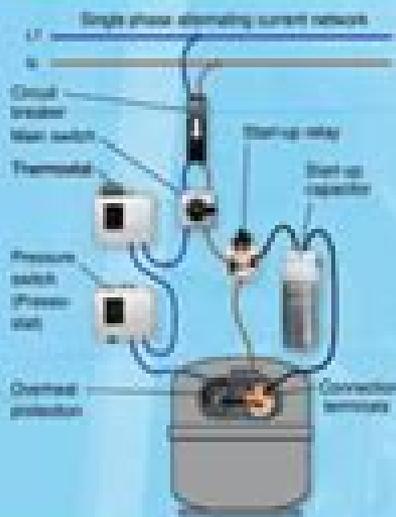
In the practice field the training, fault finding and repair of electrical systems is also an important task. During service jobs are often performed with complete documentation, which is why the technicians engaged in refrigeration must be able to produce for system and components in operation. This requires a good basic knowledge of electrical engineering.

### Electric connection of a refrigerant compressor to the alternating current network

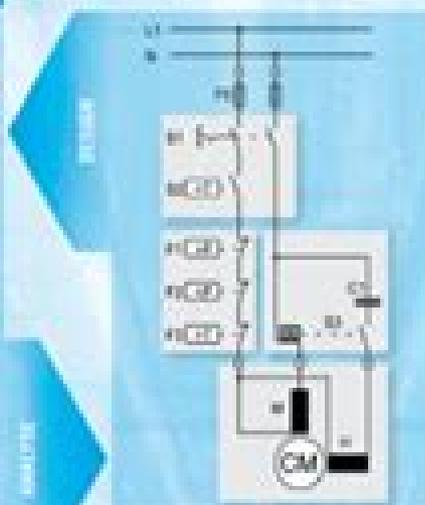
The connection of a refrigerant compressor and its protective elements to the single phase alternating current network is part of the standard activities of the installation engineer for refrigeration. This task requires the correct preparation of an electric circuit diagram (flow diagram) and the practical wiring of the electrical components in the refrigeration system.

The wiring of the compressor UM consists of three functional groups:

- Control, consisting of main switch **S1** and fuseholder **S2**
- Safety module, consisting of pressure switches (Pressurestat) **P1**, **P2** and overload protection of the compressor **P3**
- Start-up circuit, consisting of the start-up relay **S3** and start-up capacitor **C1**



Electrical components



Electric circuit diagram (flow diagram)  
**S1** main switch, **S2** fuseholder,  
**P1** pressure switch, **P2** pressure switch,  
**P3** pressure protection, **S3** start-up relay,  
**C1** start-up capacitor, **M** main winding,  
**A** auxiliary winding

### Start-up circuits for single phase compressor motors

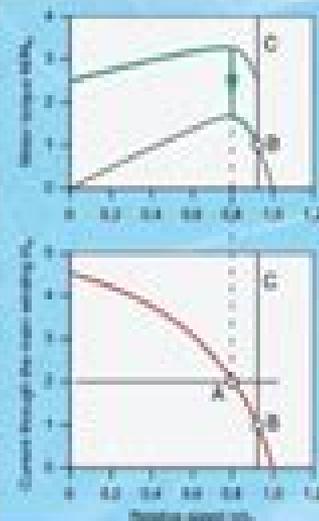
Drive motors for refrigerant compressors require a high start-up torque. For low compressor capacities single phase alternating current motors are used as drive motors. These are of single design, maintenance-free, cheap and can be used inside the refrigerant (hermetic compressor).

Due to their principle of operation these motors do not have any or only a low torque at rest. To increase the torque the motors must be equipped with a start-up circuit. Here an auxiliary winding is additionally supplied with current via a capacitor until the operating speed is reached. The automatic switching on and off of the auxiliary winding can be implemented via different options.

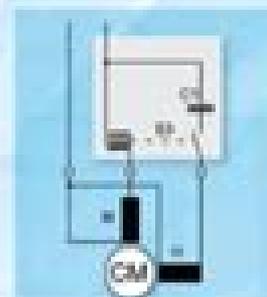
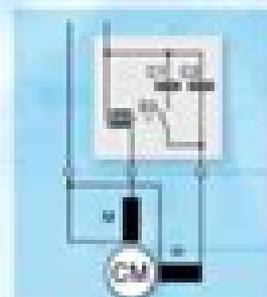
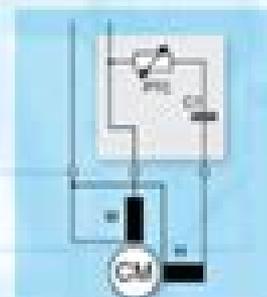
The most common is a start-up relay whose winding is connected in series to the main winding. When starting the motor a very high current first flows through the main winding, the start-up relay responds and activates the auxiliary winding via the capacitor. Once the motor has reached its speed, the current through the main winding drops. If the current falls below a certain value, the relay is released and the auxiliary winding is deactivated.

The switching of the auxiliary winding can also take place via a centrifugal force switch directly dependent on the speed. In some motors the auxiliary winding is permanently activated via an operating capacitor. Here a second start-up capacitor is connected in parallel during start-up to increase the torque.

Another particularly wear-free method is the use of a PTC element. This heats due to the current flowing in the auxiliary winding and increases its resistance. This reduces the current through the auxiliary winding after a brief period of time.



Start of a single phase alternating current motor with auxiliary winding  
 auxiliary winding is switched off at **A** ( $\approx 75\%$ )  
**B**: maximum current, **C**: nominal current  
**A**: switching point, **B**: starting point  
**C**:  $100\%$  = nominal speed

Start-up capacitor **C1** via start-up relay **S3**Operating capacitor **C2** and start-up capacitor **C1** via start-up relay **S3**Start-up capacitor **C1** via PTC

# Basic Knowledge Electrical Engineering In Refrigeration

**Judd E. Hollander**



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