

## 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.

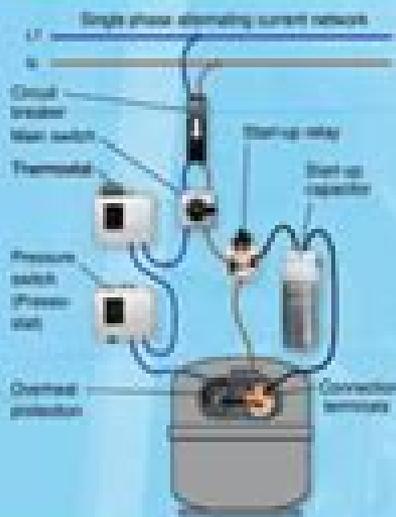
In the practice field the training, fault finding and repair of electrical systems is also an important task. During service jobs are often confronted with complete documentation, which is why the technicians engaged in refrigeration must be able to understand the system and components in operation.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

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

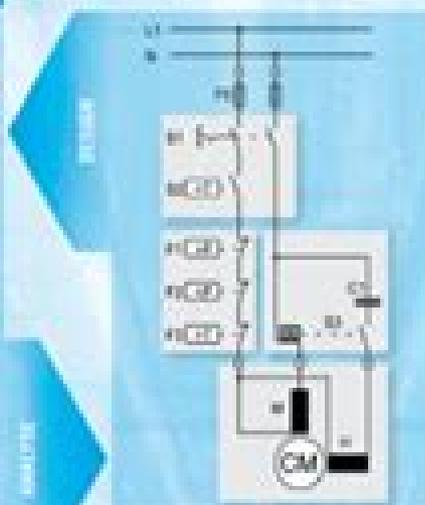
The connection of a refrigerant compressor and its protective elements to the single phase alternating current network is part of the standard activities of the installation engineer for refrigeration. This task requires the correct preparation of an electric circuit diagram (flow diagram) and the practical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

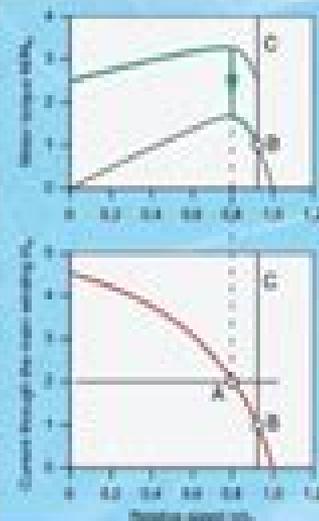
Drive motors for refrigerant compressors require a high start-up torque. For low compressor capacities single phase alternating current motors are used as drive motors. These are of single design, maintenance-free, cheap and can be used inside the refrigerant (hermetic compressor).

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.

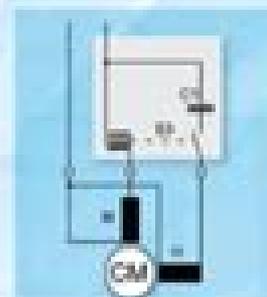
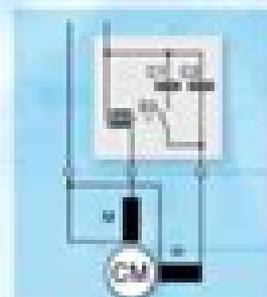
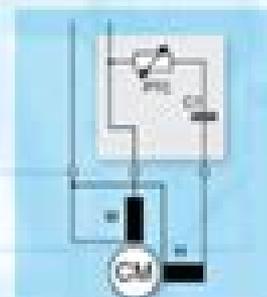
The most common is a start-up relay whose winding is connected in series to the main winding. When starting the motor a very high current first flows through the main winding, the start-up relay responds and activates the auxiliary winding via the capacitor. Once the motor has reached its speed, the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

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## **Table of Contents Basic Knowledge Electrical Engineering In Refrigeration**

1. Understanding the eBook Basic Knowledge Electrical Engineering In Refrigeration
  - The Rise of Digital Reading Basic Knowledge Electrical Engineering In Refrigeration
  - Advantages of eBooks Over Traditional Books
2. Identifying Basic Knowledge Electrical Engineering In Refrigeration
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Basic Knowledge Electrical Engineering In Refrigeration
  - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Knowledge Electrical Engineering In Refrigeration
  - Personalized Recommendations
  - Basic Knowledge Electrical Engineering In Refrigeration User Reviews and Ratings
  - Basic Knowledge Electrical Engineering In Refrigeration and Bestseller Lists
5. Accessing Basic Knowledge Electrical Engineering In Refrigeration Free and Paid eBooks
  - Basic Knowledge Electrical Engineering In Refrigeration Public Domain eBooks
  - Basic Knowledge Electrical Engineering In Refrigeration eBook Subscription Services
  - Basic Knowledge Electrical Engineering In Refrigeration Budget-Friendly Options

6. Navigating Basic Knowledge Electrical Engineering In Refrigeration eBook Formats
  - ePub, PDF, MOBI, and More
  - Basic Knowledge Electrical Engineering In Refrigeration Compatibility with Devices
  - Basic Knowledge Electrical Engineering In Refrigeration Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Basic Knowledge Electrical Engineering In Refrigeration
  - Highlighting and Note-Taking Basic Knowledge Electrical Engineering In Refrigeration
  - Interactive Elements Basic Knowledge Electrical Engineering In Refrigeration
8. Staying Engaged with Basic Knowledge Electrical Engineering In Refrigeration
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Basic Knowledge Electrical Engineering In Refrigeration
9. Balancing eBooks and Physical Books Basic Knowledge Electrical Engineering In Refrigeration
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Basic Knowledge Electrical Engineering In Refrigeration
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Basic Knowledge Electrical Engineering In Refrigeration
  - Setting Reading Goals Basic Knowledge Electrical Engineering In Refrigeration
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Basic Knowledge Electrical Engineering In Refrigeration
  - Fact-Checking eBook Content of Basic Knowledge Electrical Engineering In Refrigeration
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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