

# UNIT 8

## MOTOR AND AIR-CONDITIONING CALCULATIONS

### Introduction to Unit 8—Motor and Air-Conditioning Calculations

Motor circuits have special requirements that effect how the overcurrent protection is sized and installed. Motors typically draw about six times as much current at start-up as they draw during normal operation. Article 430 provides guidance on how to properly protect the motor from overcurrent and still avoid nuisance tripping of the fuse or circuit breaker protecting the motor. Similar rules are included in Article 440 for air conditioners.

The Code definition of "Overcurrent" is made up of three factors: short circuits, ground faults, and overloads. For motors, the function of overcurrent protection is divided into two parts. The short-circuit and ground-fault protection of a motor is usually provided by a fuse or circuit breaker which is sized large enough to let the motor start, but too large to provide overload protection. Overload protection is provided to protect the motor and wiring at a value close to the actual running current of the motor, but with sufficient time delay to allow the motor to start. This protection is often provided by the "heaters" which are overload sensing devices in a magnetic starter.

Article 430 spells out the minimum sizing of conductors for motor branch circuits and feeders as well. When conductors and short-circuit and ground-fault protection are sized based on Article 430, the fuse or circuit breaker may appear to be much larger than it should be for the conductors selected. Make sure everything is sized correctly based on Article 430, then don't be concerned. The overcurrent protection rules of Article 240 don't apply to motors or air conditioners, so often an installation may not "look right," even though it complies with the requirements of Article 430 for motors and Article 440 for hermetic air conditioners.

Careful study of this unit will help you understand the sometimes confusing requirements of Articles 430 and 440.

### Part A—Motor Calculations

#### 8.1 Scope of Article 430

Scope [430.1]. Article 430 covers motors, motor branch-circuit and feeder conductors and their protection, motor overload protection, motor control circuits, motor controllers, and motor control centers. This article is divided into many parts, the most important being:

- General—Part I
- Circuit Conductors—Part II

- Overload Protection—Part III
- Branch-Circuit Short-Circuit and Ground-Fault Protection—Part IV
- Feeder-Circuit Short-Circuit and Ground-Fault Protection—Part V
- Control Circuits—Part VI
- Controllers—Part VII
- Motor Control Centers—Part VIII
- Disconnecting Means—Part IX
- Adjustable-Speed Drive Systems—Part X

# Mike Holt Motors Calculations

**Shasha Hu**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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**Official Gazette of the United States Patent and Trademark Office** ,2001 **Official Gazette of the United States Patent and Trademark Office** United States. Patent and Trademark Office,2001 **The Commercial Motor** ,1976-11 **Flying Magazine** ,1993-07 Evaluation Engineering ,1990 **A Passion for Space** Marianne J. Dyson,2015-09-18 Marianne J Dyson recounts for us a time when women were making the first inroads into space flight control a previously male dominated profession The story begins with the inspiration of the Apollo 11 landing on the Moon and follows the challenges of pursuing a science career as a woman in the 70s and 80s when it was far from an easy path Dyson relates the first five space shuttle flights from the personal perspective of mission planning and operations in Houston at the Johnson Space Center based almost exclusively on original sources such as journals and NASA weekly activity reports The book s historical details about astronaut and flight controller training exemplify both the humorous and serious aspects of space operations up through the Challenger disaster including the almost unknown fire in Mission Control during STS 5 that nearly caused an emergency entry of the shuttle From an insider with a unique perspective and credentials to match this a must read for anyone interested in the workings of NASA during one of its busiest and defining times and the challenges faced by women pursuing scientific careers Building Services Journal ,2007 *Australian Books in Print* ,1983 *The Engineering Index Annual* ,1994 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly Electrician's Exam Preparation Michael Holt,1999 Based on the 1999 National Electrical Code this invaluable

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