

Motor Wiring Methods

In Canada, every province and territory adopts and enforces the same installation code, the Canadian Electrical Code (CEC), Part I, Electrical Installations. In particular, motor wiring is discussed in CEC, **Rule Section 28**.

In Alberta, **Canadian Electrical Code, Part I (19th Edition), Safety Standard for Electrical Installations** can be obtained from municipalaffairs.gov.ab.ca which would re-direct to an online Canadian Standards Association (CSA) web store.

In this portion of the course, we will look at how to determine copper conductor size, overcurrent and overload protection based on certain Rules from Rule Section 28.

We are going to examine the following four Rules:

Rule 28-104	Motor Supply Conductor Insulation Temperature Rating and Ampacity
Rule 28-106	Conductors, Individual Motors
Rule 28-200	Branch Circuit Overcurrent Protection
Rule 28-306	Rating or Trip Selection of Overload Devices

Rule 28-104

Rule 28-106

Once conductor temperature rating is determined, the minimum wire size can then be selected per Rule 28-106.

Rule 28-200

Rule 28-306