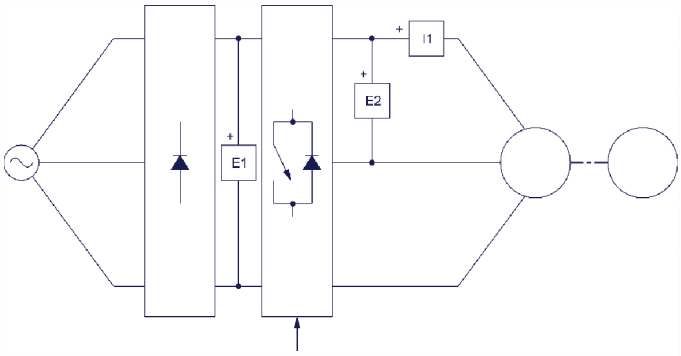
Three-Phase Motor Drives

Course 86368

The Three-Phase Motor Drives course teaches the fundamental principles and operating characteristics of three-phase induction motor drives. The three-phase induction motor is rugged, requires little maintenance, and is low cost, making it attractive in numerous commercial and industrial applications. To control the rotational speed of an induction motor, a motor drive using variable frequency and voltage is necessary.



Topic Coverage:

» Study the three-phase variable-frequency induction motor drive.

» Examine the three-phase variable-frequency induction motor drive with a constant volt-per-hertz (V/f) ratio.

Features and Benefits:

» Set up a drive in less than five minutes!

» Study several topics related to motor drives, such as motor saturation, V/f ratio, overmodulation, etc.

» Discover the relationship between speed and torque in a variable-frequency induction motor drive with constant V/f ratio.

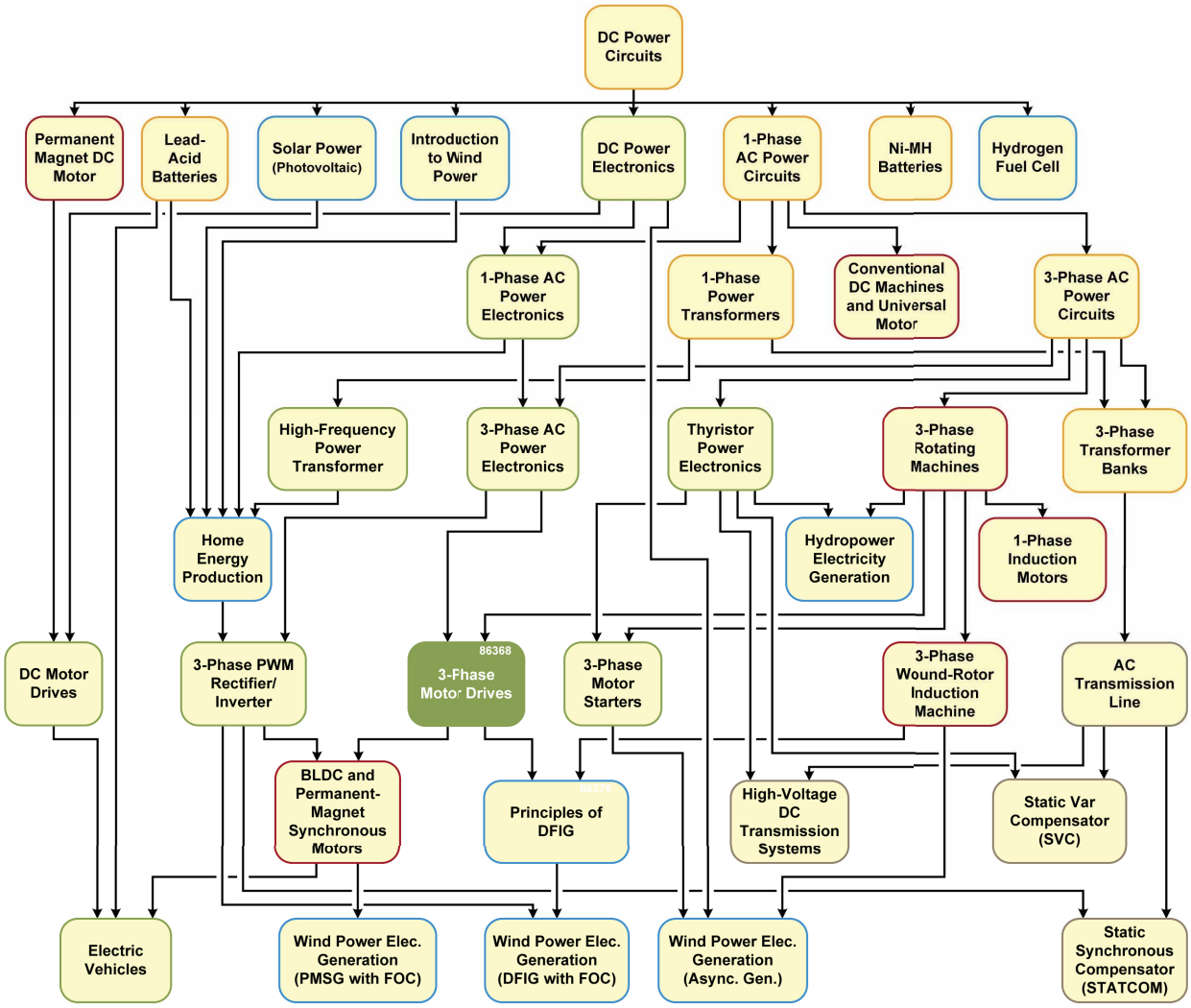
SMART INSTRUMENTATION AND CONTROL

4Q DYNAMOMETER POWER SUPPLY

Lab-Volt®

Photo courtesy of Siemens

Lab-Volt Electric Power Technology Training Program



Equipment

Qty	Model	Description	Qty	Model	Description
1	8134-2	Workstation	1	8951-L	Connection Leads
1	8221	Four-Pole Squirrel Cage Motor	1	8960-C	Four-Quadrant Dynamometer/Power Supply
1	8326	Three-Phase Filter	1	9063-C	Data Acquisition and Control Interface
1	8823	Three-Phase Power Supply	1	30004-2	24 V AC Power Supply
1	8837-B	IGBT Chopper/Inverter	1	86368/-1	Student Manual/Instructor Guide
1	8842-A	Rectifier and Filtering Capacitors			
1	8942	Timing Belt			

Lab-Volt reserves the right to make product improvements at any time and without notice. **Note:** A computer is required to perform the exercises.

Lab-Volt®

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