## Test Bank for Electrical Control for Machines 7th Edition by Lobsiger IBSN 9781133693383

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Chapter 2 - Fuses, Disconnect Switches, and Circuit Breakers

#### **TRUE/FALSE**

1. The 120 VAC circuit is normally protected by a single fuse or circuit breaker.

	ANS: T	PTS:	1	REF:	Protective Factors			
2.	Switching voltage surges are usually limited to three times normal voltage.							
	ANS: T	PTS:	1	REF:	Voltage and Frequency Surges			
3.	By programming a motor-protective relay unit with the motor's electrical characteristics, the unit's algorithm will automatically tailor the optimal protection curve to the motor being monitored.							
	ANS: T	PTS:	1	REF:	Programmable Motor Protection			
III TIPI E CHOICE								

### **MULTIPLE CHOICE**

The typical fuse consists of an element surrounded by a filler and enclosed by the fuse body. The element is a calibrated \_\_\_\_\_.
 a. insulator c. conductor
 b. transistor d. capacitor

ANS: C PTS: 1 REF: Fuse Construction and Operation

- 2. Peak let-thru current  $(I_p)$  and ampere squared seconds  $(I_{2t})$  are two measures for the degree of \_\_\_\_\_\_ provided by a fuse.
  - a. current limitationb. time delayc. circuit isolationd. rectification

ANS: A PTS: 1 REF: Peak Let-Thru Current (Ip) and Ampere Squared Seconds (I2t)

3. \_\_\_\_\_ is the current-limiting characteristic of a transformer and is expressed as a percent. a. Capacitance c. Ampacity

b. Impedance				Rectification
ANS: B	PTS:	1	REF:	Selecting Protective Devices

- 4. The main purpose of a ground fault circuit interrupter (GFCI) is to \_\_\_\_\_.
  a. determine the interrupting capacity
  c. protect a person from electrical shock
  - b. calculate the available currentd. gauge the ambient temperatureANS: CPTS: 1REF: Ground Fault Circuit Interrupter

## **COMPLETION**

1. All protective devices have a published \_\_\_\_\_\_, which is defined as the highest current at rated voltage that a device can safely interrupt.

ANS: interrupting capacity

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PTS: 1 REF: Fuse Types

2. \_\_\_\_\_ fuses are used today in almost all fuse applications.

ANS: Current-limiting time-delay Current limiting time delay

PTS: 1 REF: Fuse Types

3. Adding a(n) \_\_\_\_\_\_ to the nonautomatic circuit breaker, by using a bimetallic element in each pole of the breaker, provides automatic tripping.

ANS: thermal trip unit

PTS: 1 REF: Circuit Breaker Types