
Taking the Certification Test

Each question has **only one correct answer**. Please record all answers on this answer sheet. The order of the questions in the test roughly follows the order of topics covered in class. All questions are equally weighted. A passing score is 90%.

Returning the Certification Test

Option 1: Fax the answer sheet (following page) to **Yaskawa Technical Training Services** at (847) 887-7185.

Option 2: E-mail the answers to all questions to training@yaskawa.com. Be sure to Include all of the contact information listed on the answer sheet.

Option 3: Mail the answer sheet to **Yaskawa Technical Training Services** at the address shown on the bottom of this page.

Receiving Your Score

When the test is taken during the training class, you will receive your score in class as soon as it can be graded. When taken as a CLEP test, receive your score from Technical Training Services by sending an email to training@yaskawa.com or by calling Karen Kolacki at 847-887-7228. In either case, you may review your answers only if a passing score is received.

Certification Test
eLM.E7.04.BypassStartup



Answer Sheet:

- | | | |
|---------|----------|----------|
| 1. | 6. | 11. |
| 2. | 7. | 12. |
| 3. | 8. | 13. |
| 4. | 9. | 14. |
| 5. | 10. | |

Contact Information:

Name: Title:
Company: Email:
Address:
Phone Number: Fax number:
Supervisor's Name/ Title:
Test Date:

Questions

1. Which of the following could stop the bypass from working properly?
 - a. Dip Switch Settings
 - b. Improper Wiring
 - c. Drive Parameter Settings
 - d. All of the above
2. The startup information in this eLM applies to:
 - a. E7L only
 - b. E7B only
 - c. All E7B and some E7L
 - d. All E7L and Some E7B
3. After shutting down input power:
 - a. Tighten screw terminals
 - b. Set input current Breaker
 - c. Check Motor direction
 - d. Check with meter
4. It is unnecessary to check the voltage on all 3 phases before working on the bypass.
 - a. True
 - b. False
5. The thermal OLR is always located on:?
 - a. The just before the motor on the output side of the bypass
 - b. The right side of the cabinet
 - c. The just after the power switch on the input side of the Bypass.
 - d. Contactor K1.
6. Set the Thermal OLR to match?
 - a. Input current rating of drive
 - b. Motor Full load amps
 - c. In rush current of motor
 - d. Output current rating of drive
7. E7B (three contactor) bypasses come standard with a input motor circuit protector
 - a. True
 - b. False
8. The procedure for setting the input MCP found in chapter four of the manual is:
 - a. Question doesn't make sense; Chapter four is not the chapter in the manual where the startup procedure is found.
 - b. Calculation method
 - c. Trial and error method
 - d. There is no procedure found in the manual for this setting
9. Programmable relay #3 is a:
 - a. Digital Input
 - b. Digital Output
 - c. Analog Input
 - d. Analog Output

10. If your BAS uses a contact closure to signal a run command, use control terminals:
- a. TB5-1 and TB1-9
 - b. TB1-2 and TB1-9
 - c. TB2-1 and TB5-1
 - d. TB3-1 and TB5-1
11. Analog output FM can be set for:
- a. 0-10VDC only
 - b. 4-20 mA only
 - c. Both 0-10VDC or 4-20mA set using a dip switch.
 - d. Both 0-10VDC or 4-20mA set using a Jumper.
12. Keypad operation is explained in chapter ____ of the technical manual.
- a. Chapter 2
 - b. Chapter 3
 - c. Chapter 4
 - d. Chapter 5
13. If the bypass is in drive mode, and you want to make the bypass run in drive mode, push:
- a. Drive Select then Hand
 - b. Hand only
 - c. Bypass Select then Hand
 - d. Bypass Select only
14. If your motor spins the wrong way in drive mode, the component that needs to be serviced is the:
- a. Input disconnect
 - b. Output OLR
 - c. Both
 - d. Neither