

Certification Test

R1000 Features and Benefits (eLM.R1000.01)



Taking the Certification Test

No demo unit is needed to take this test. Please record all answers on this answer sheet. Multiple-choice questions have **only one** correct answer, except where noted otherwise. Choose the best answer for each question.

A passing score is 90%.

Returning the Certification Test

Option 1: Fax this page to **Yaskawa Technical Training Services** at (847) 887-7185.

Option 2: E-mail the answers and **all** contact info below to training@yaskawa.com.

Receiving Your Score

You may review your answers only if a passing score is received. When the test is taken during class, you will receive your score as soon as it can be graded. When taken as a CLEP test or pre-requisite enrollment test, contact Technical Training Services via email or phone to receive your score.

Answer Sheet:

- | | | |
|----------|-----------|-----------|
| 1. _____ | 6. _____ | 11. _____ |
| 2. _____ | 7. _____ | |
| 3. _____ | 8. _____ | |
| 4. _____ | 9. _____ | |
| 5. _____ | 10. _____ | |

Contact Information:

Name: _____ Title: _____

Company: _____ Email: _____

Address: _____

Phone Number: _____ Fax number: _____

Supervisor's Name/ Title: _____

Name of Yaskawa Rep: _____

Test Date: _____

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1. An overhauled motor regenerates energy.
 - A. True
 - B. False

2. What is a benefit of applying an R1000 to your application?
 - A. Increase torque production of your VFD
 - B. Decrease motor current
 - C. Recycle regenerative energy

3. A benefit of dynamic braking is...
 - A. Cost
 - B. Energy savings
 - C. Footprint
 - D. High duty cycle capability

4. An R1000 is wired in parallel to a VFD
 - A. True
 - B. False

5. Which feature(s) does the R1000 have?
 - A. Eliminate overvoltage trips
 - B. Handle 80% continuous regen
 - C. Save money
 - D. Recycle generated energy
 - E. All of the Above

6. The R1000's rated capacity is listed as...
 - A. Horsepower
 - B. Kilowatts
 - C. Amps
 - D. Volts

7. If a low amount of regenerative energy is present the R1000 can be sized smaller than the applied VFD.
 - A. True
 - B. False

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8. What is the function of the “Automatic operation command”?
 - A. Automatically activates and deactivates the R1000 based on the regenerative energy present
 - B. Automatically runs the motor on power up
 - C. Automatically operates the VFD
 - D. Automates the R1000 through serial communications

9. How should an R1000 be mounted?
 - A. Vertical and close to the drive
 - B. Horizontal and close to the drive
 - C. Horizontal and away from the drive
 - D. Vertical and away from the drive

10. Programming for the R1000 can be performed on the LCD keypad or
 - A. with DriveWizard Industrial software
 - B. with DriveWizard HVAC software
 - C. with Yaskawa’s Auto-programming cable
 - D. telepathically

11. Which monitor group stores the 10 most recent faults?
 - A. U1
 - B. U2
 - C. U3
 - D. U4