

Certification Test

Sigma-5 Hardware Overview eLM



Date: _____

Student Name: _____

Company Name: _____

Address: _____

Phone: _____

eMail: _____

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 the eLM. All questions are equally weighted. A passing score is 88% (1 wrong).

Returning the Certification Test

Option 1: Fax this 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 above.

Receiving Your Score

You may review your answers only if a passing score is received. When the test is taken during the training class, you will receive your score in class as soon as it can be graded.

Answer Sheet:

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

SIGMA-5 MOTORS

1. What is the standard encoder resolution for all Sigma-5 motors?
 - A. 13-bit
 - B. 16-bit
 - C. 17-bit
 - D. 20-bit

2. Which motor series include a motor with 550W output?
 - A. SGMJV
 - B. SGMAV
 - C. SGMGV
 - D. SGMJV and SGMAV
 - E. SGMAV and SGMGV
 - F. SGMGV and SGMJV
 - G. SGMJV, SGMAV, and SGMGV
 - H. None of the above

3. Which motor series can attain a speed of 6000 RPM?
 - A. SGMJV
 - B. SGMAV
 - C. SGMGV
 - D. SGMJV and SGMAV
 - E. SGMAV and SGMGV
 - F. SGMGV and SGMJV
 - G. SGMJV, SGMAV, and SGMGV
 - H. None of the above

4. Which motor series includes motors with a smaller flange size than the sigma-2 motor with the same capacity?
 - A. SGMJV
 - B. SGMAV
 - C. SGMGV
 - D. SGMJV and SGMAV
 - E. SGMAV and SGMGV
 - F. SGMGV and SGMJV
 - G. SGMJV, SGMAV, and SGMGV
 - H. None of the above

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SIGMA-5 AMPLIFIERS

5. Which Sigma-5 amplifier model has a built-in digital operator?
 - A. Analog/Pulse
 - B. Mechatrolink-II
 - C. Option Module

6. Which Sigma-5 amplifier model has a 50-pin IO connector?
 - A. Analog/Pulse
 - B. Mechatrolink-II
 - C. Option Module

7. Which Sigma-5 amplifiers can run a 200 Volt motor?
 - A. 100V Amplifiers
 - B. 200V Amplifiers
 - C. 400V Amplifiers
 - D. 100V and 200V Amplifiers
 - E. 200V and 400V Amplifiers
 - F. 400V and 100V Amplifiers
 - G. 100V, 200V, and 400V Amplifiers
 - H. None of the above

8. When is the absolute encoder **battery cable** required when using the standard absolute encoder motor (used as absolute)?
 - A. The battery cable is always required when encoder is used as absolute
 - B. When the absolute encoder motor is used as incremental
 - C. When the SEN input is not connected
 - D. When the battery is NOT connected through CN-1
 - E. Answers B and C
 - F. Answers C and D
 - G. Answers B, B, and D
 - H. None of the above