

Certification Test

Servo Product Catalog and BOM Webclass (part 1)



Taking the Certification Test

Please record all answers on this answer sheet. All questions are equally weighted. A passing score is 85%.

Returning the Certification Test

Option 1: Fax the entire test to **Yaskawa Technical Training Services** at (847) 887-7185.

Option 2: E-mail the numbered 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. You will receive your score via email.

Answer Sheet:

1		14		27		40	
2		15		28		41	
3		16		29		42	
4		17		30			
5		18		31			
6		19		32			
7		20		33			
8		21		34			
9		22		35			
10		23		36			
11		24		37			
12		25		38			
13		26		39			

Contact Information:

Name: _____ Title: _____

Company: _____ Email: _____

Address: _____

Phone Number: _____ Fax number: _____

Supervisor's Name/ Title: _____

Name of Yaskawa Rep: _____

Test Date: _____

- 1) What is the minimum number of cables (measured as connections to the amplifier) in a system consisting of a motor & amp with an analog speed reference as the run signal?
 - a) 1
 - b) 3
 - c) 4
 - d) 5

- 2) What is maximum length of pre-wired cable assemblies available for power and encoder?
 - a) 200 feet
 - b) 300 feet
 - c) 50 meters
 - d) 20 meters

- 3) Raw power cable is available from Yaskawa.
 - a) True
 - b) False

- 4) What is the part number of the raw encoder cable that is suitable for use in customer assemblies up to 50 meters?
 - a) JUSP-TA50P
 - b) UL20276-SB
 - c) FR-RMCT-SB
 - d) DE9404559

- 5) The above cable (question #4) works in any small or medium capacity Sigma II system.
 - a) True
 - b) False

- 6) Motors with NEMA flanges are available with the usual accessories (brake & shaft seal)
 - a) True
 - b) False

- 7) What is the part number for the I/O cable that includes a Wago terminal block for \$175 list?
 - a) JUSP-TA50P
 - b) JZSP-CKIO1-xx(A)
 - c) JZSP-CKIOD-xx(A)
 - d) JZSP-WA50P-D50
 - e) None of the above

- 8) Yaskawa sells DC reactors for use with its amps.
- a) True
 - b) False
- 9) Which amplifiers require the use of an external regeneration resistor or resistor pack to operate successfully?
- a) SGDH-01AE, SGDH-02AE, SGDH-04AE, SGDH-08AE, SGDH-15AE
 - b) SGDH -60AE, SGDH-75AE, SGDH-1AE, SGDH-1EAE
 - c) SGDH-20DE, SGDH-30DE, SGDH-44DE, SGDH-50DE
 - d) All of the above
- 10) What cable is required to communicate between the PC and the SGDH amplifier?
- a) YS-11
 - b) YS-12
 - c) YS-15
 - d) YS-16
- 11) What standard option(s) are available with a Sigma II motor?
- a) Resolver
 - b) Stainless steel shaft
 - c) Absolute encoder
 - d) High temp grease
- 12) What is the highest power motor that can be run from 100V single-phase input (SGDH)?
- a) 1kW
 - b) 1.5kW
 - c) 100W
 - d) 400W
- 13) What encoder cable will work on a SGMGH, SGMSH, or SGMUH motor?
- a) JZSP-CMM00-03(A)
 - b) JZSP-CMM10-03(A)
 - c) JZSP-CMP00-03(A)
 - d) JZSP-CMP02-03(B)
- 14) The handheld digital operator is necessary to configure the SGDH out of box.
- a) True
 - b) False

- 15) What cable is required to connect the handheld digital operator to the amp (SGDH)?
- a) JZSP-CMS00-1
 - b) JZSP-CMM00-1
 - c) JZSP-CMM10-1
 - d) JZSP-CMP02-1
- 16) What is part number for the encoder connector kit (2CN) used with ALL Sigma II amplifiers?
- a) JZSP-CKI9
 - b) B150
 - c) B055/A
 - d) JZSP-CMP9-1
- 17) What two motor family's are available with gear heads attached as standard product?
- a) SGMAH & SGMPH
 - b) SGMPH & SGMSH
 - c) SGMPH & SGMGH
 - d) SGMAH & SGMGH
- 18) Yaskawa sells 24VDC power supplies for use with the brake circuit or I/O.
- a) True
 - b) False
- 19) You have a SGMGH-05ACA6C motor. Will you need a dedicated cable for the brake, or will the brake and power cable be part of the same assembly?
- a) dedicated cable
 - b) same assembly
- 20) You have a SGMGH-05DCA6C motor. Same question as above.
- a) dedicated cable
 - b) same assembly
- 21) All pre-wired encoder cables and raw encoder cable feature shielded cable.
- a) True
 - b) False

- 22) All power cable assemblies use shielded cable.
- a) True
 - b) False
- 23) If you want an environmentally sealed connector for your power connection to a SGMGH motor, what connector would you choose?
- a) MS3108B18-20S
 - b) JZSP-CKI9
 - c) CE05-8A18-10SD-B-BAS
 - d) BA010-Q
- 24) The regeneration units JUSP-RA04, JUSP-RA05, JUSP-RA18, and JUSP-RA19 are plug-in-play, requiring no customer re-wiring, regardless of which amps they are applied to.
- a) True
 - b) False
- 25) The absolute encoder battery is the best way to power the encoder when the amplifier is off.
- a) True
 - b) False
- 26) Yaskawa sells noise filters for installation on the incoming power.
- a) True
 - b) False
- 27) Yaskawa sells field installation kits for shaft seals:
- a) True
 - b) False
- 28) The Legend amplifier will work with absolute encoder motors (and a 3rd party controller).
- a) True
 - b) False
- 29) The Legend amplifier will accept what type of control command?
- a) Analog Speed
 - b) Analog Torque
 - c) Pulse Train

- 30) The Legend amplifier has how many programmable “Pn” user parameters?
- a) 289
 - b) 310
 - c) 6
 - d) 0
- 31) The Legend amplifier uses the same I/O cabling as Sigma II.
- a) True
 - b) False
- 32) The customer wants a **shielded** power cable for a SGMAH brake motor that is 10 meters long. What would you quote?
- a) JZSP-CMM00-10(A)
 - b) BAHBCE-03(A)
 - c) BAHBCE-10(A)
 - d) JZSP-CMM10-03(A)
- 33) The customer wants to build their own I/O cable for the SGDH. What connector kit would you sell them to help facilitate this?
- a) JZSP-CKI9
 - b) JZSP-CMP9-1
 - c) YSC-1
 - d) DE9404559
- 34) The customer wants to use the analog monitor function on Sigma II. What cable would you sell them?
- a) DE9404559
 - b) JZSP-CKI9
 - c) JZSP-CMP9-1
 - d) MS3057-12A
- 35) A Yaskawa Sigma II motor will run with a Sigma I amp or vice versa.
- a) True
 - b) False

- 36) The SGMCS Direct Drive Motor can be used with the Legend amplifier.
- a) True
 - b) False
- 37) The SGMCS Direct Drive Motor has a 400V option.
- a) True
 - b) False
- 38) The Sigma Trac Linear Motor solution can be configured for use in an XY or gantry style system.
- a) True
 - b) False
- 39) The Sigma Trac Linear Motor requires the customer supply a third party feedback device.
- a) True
 - b) False
- 40) The SGDh amplifier uses different I/O cables based on the Power rating of the unit.
- a) True
 - b) False
- 41) A SGDh-50DE amplifier can successfully run a SGMGH-50ACA61 motor.
- a) True
 - b) False
- 42) OYC link on the partner log in site means stock checks at 3 am are possible.
- a) True
 - b) False