

Selecting Your Sigma II Indexer System

Specify part number JUSP-NS300, the indexer add-on application module.

Use the tables beginning on the following page to specify choice of indexer interface cables, mating connectors only, set-up and monitoring tools, and software.

System Configuration

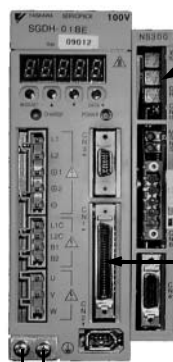
Setup and mounting software



EDS Software File



(B) SGDH Amplifier



Sigma II Application Module

•11CN setup software mating connector or cable

•DeviceNet™ network connector

•1CN I/O cable or connector

•4CN I/O cable or connector



(A) Sigma II servomotor, linear motor, or direct drive motor.

Power Components

(E) Additional regeneration resistor capacity (if necessary), optional DC reactor, etc.

(C) Pre-wired power and feedback cables or

(D) Connector kits for local cable assembly



Specify a technical manual, if it is needed, on the servo system purchase order:

DeviceNet Interface Unit Users Manual: SIE-C718-6

Linear Motor Users Manual: YEA-SIA-S800-39.11

(Manual provided at no charge with a purchase order, but must be requested).

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Power Components

(motor, amplifier, and connections for power and feedback)

Select the required power components (servomotor, power and feedback connectors or pre-wired cables, amplifier, regenerative packs, etc.) from the following catalog pages.

Use this table or the Yaskawa publications referenced below to determine which catalog section describes the best servomotor for the application.

Application Requirements (Maximum)			Number of Motor Sizes	System Voltage and Sigma II Servomotor Series				Selection Guide for Power Components Page Number *
Speed (rpm)	Rated Torque oz • in [lb • in]	Peak Torque oz • in [lb • in]		100V _{ac} Single-phase	200V _{ac} Single-phase	200V _{ac} Three-phase	480V _{ac} Three-phase	
5000	338	1010	6	SGMAH	SGMAH	—	—	11
5000	676	2027	5	SGMPH	SGMPH	—	—	29
3000	[845]	[1988]	10	—	—	SGMGH	—	57
5000	[140]	[422]	6	—	—	SGMSH	—	85
3000	[845]	[1988]	10	—	—	—	SGMGH	127
5000	[140]	[422]	6	—	—	—	SGMSH	139
6000	[43]	[190]	2	—	—	—	SGMUH	139
2000	[1240]	[6120]	5	—	—	—	SGMBH	165

* Yaskawa publication: *Sigma II Servo System Product Catalog Supplement G-MI#99001x-Sigma II, Linear Motor Catalog KAE-S800-39.10, Direct Drive Motor Catalog YEA-KAA-DDM-1*

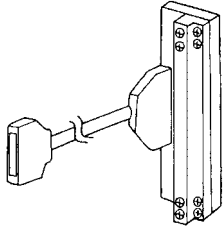
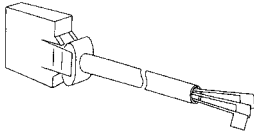
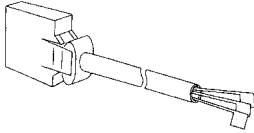
Sigma II Indexer Selection

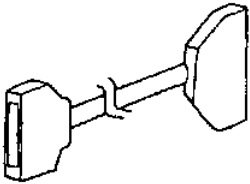
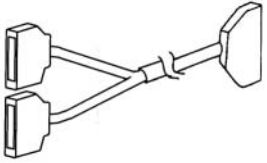
Use the servomotor and amplifier selection of this catalog for specification and selection of Sigma II servomotor and servo amplifier.

Component Description	Part Number	Comments	Item Class
Sigma II Add-on Indexer Application Module	JUSP-NS300	Mounting hardware requirements: one ground strap mounting screw. (See supplementary information on the next page.)	Stock

For 480VAC large capacity amplifiers (22 - 55kW), refer to the Sigma II catalog for amp dimensions.

Indexer I/O Interface Cable Selection

Component Description (E)	Part Number	Comments	Item Class
Input/Output 1CN Cable & Transition Terminal Block 	JUSP-TA50P	35mm DIN rail mountable; the cable length is 0.5m.	Stock
Input/Output 1CN Cable with Pigtail Leads 	JZSP-CKI01-□(A)*	Use the following key to specify required cable length (last digit of the part number): 1: 1m (standard) 2: 2m 3: 3m	
Input/Output 4CN Cable with Pigtail Leads 	CKI-NS300-□□	Use the following key to specify required cable length (last two digits of the part number): 01: 1m (standard) 02: 2m 03: 3m	



Input/Output 1CN Cable Cable with Female D-Sub output Con- nector*		JZSP-CKI0D- □□**	Use the following key to specify required cable length (last two digits of the part number): D50: 0.5m 01: 1m (standard) 02: 2m 03: 3m	
Input/Output 1CN+4CN Cable with Female D-Sub output Con- nector* Applicable only for SGDH-1E (15 kW) and below.		CKI-NS300D- □□** (for use with NS300 Indexer)	Use the following key to specify required cable length (last two digits of the part number): D50: 0.5m 01: 1m (standard) 02: 2m 03: 3m	

* The "(A)" at the end of the cable part number indicates the revision level. Revision level may be subject to change prior to this catalog reprinting.

** 50 Pin Female D-Sub output connector mates to customer supplied third party terminal block. (e.g., Wago #289-449, Weidmuller #919658, Phoenix #2283647, Amphenol/Sine #20-51039, and many others.

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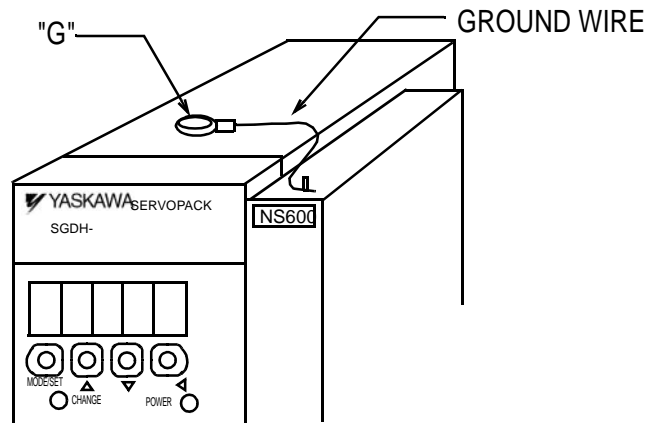
Mating Connector Selection

Component Description (E)	Part Number	Comments	Item Class
1CN Mating Connector		JZSP-CKI9	for SGDH I/O 50-pin
4CN Mating Connector		DE-9406973	Solder type with cover
3CN Peripheral Mating Connector	—	YSC-1	—
CN11 Setup Software Mating Connector	—	DE9404559	Strongly advised: YS-16 cable (next page)
DeviceNet Mating Connector	—	YDN-1	Alternate source: USA Phoenix Contact part number: MSTB2.5/5-STF-5.08AU

Supplementary Information

For grounding, connect the ground wire of the Sigma II Indexer application module to the point marked "G" on the SGDH servo amplifier. Refer to the following table for the proper screw size.

Servo Amplifier	"G" Screw	Comments
SGDH-A3-02BE SGDH-A3-10AE	M3 x 10 (round head phillips with split lock washer and flat washer)	One supplied with NS300
SGDH-15-50AE SGDH-15-50DE	M4 x 10 (round head phillips with split lock washer and flat washer)	One supplied with NS300
SGDH-60-1EAE SGDH-60-1EDE	M4 x 8 (round head phillips with split lock washer and flat washer)	One supplied with NS300 Use front panel side screw hole.



Example: For SGDH (30W to 5.0kW)

Peripheral Device Selection

Component Description (E)	Part Number	Comments	Item Class
Hand-held Digital Operator Panel	JUSP-OP02A-1 and JZSP-CMS00-1	Portable unit with 1m adapter cable for Sigma II Indexer	Stock
Absolute Encoder Battery	JZSP-BA01	3.6V, 1000mAh (lithium battery)	
Setup Software Interface Cable for CN10	YS-16	Pre-wired 1.5m cable with 9-pin connector (RS232) for NSXXX software	

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Sigma II Network Tools and Documentation

Component Description (E)	Publication Number*	Comments	Item Class
Fieldbus tools and documentation*	YEA-CD-S800-34.1	Includes : <ul style="list-style-type: none"> • Yaskawa's NSXXX monitoring and set-up software for Windows 95, Windows 98, and Windows NT. • Electronic Data Sheet (EDS) software for DeviceNet™ configuration software manager. • NS300 User's Manual.pdf. 	Stock

*Available by request. Contact: literature@yaskawa.com.