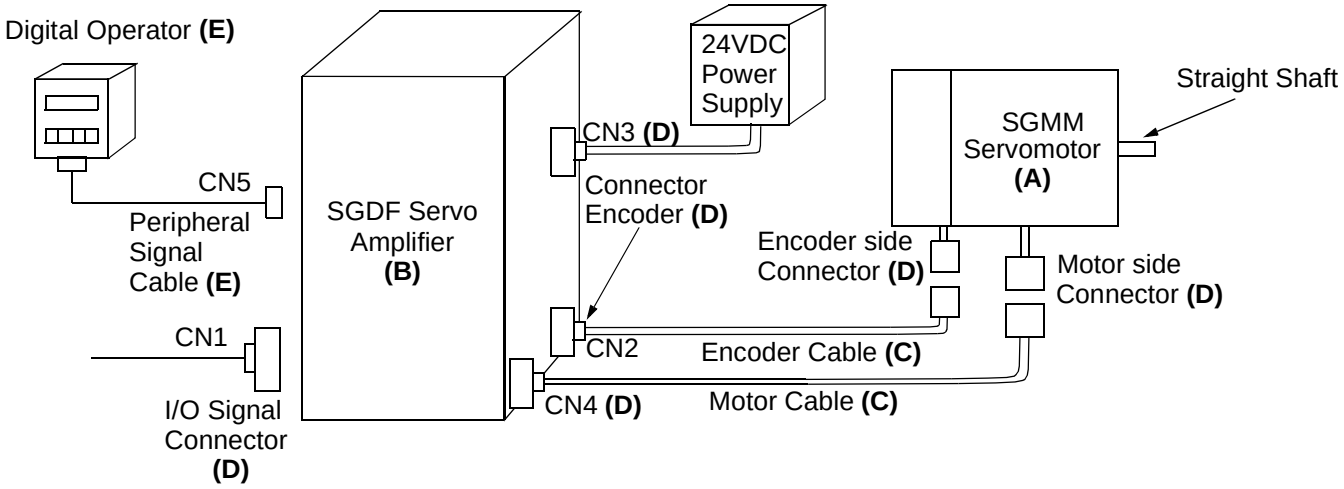
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Selecting Your SGMM Sigma Mini Servo System

First, select the Sigma servomotor suited for your application using SigmaSize: the Yaskawa servomotor sizing software, available at no charge. (Request SigmaSize software via e-mail, at: literature@yaskawa.com).
Use the diagram below to locate and identify the components of your system. Each item is letter-coded and cross-referenced in the option tables on the following pages.

System Configuration



Model Number Designation

SGMM - A1 S 3 1 2 ☐

Sigma Mini Servomotor Type

Rated Output
- **A1**: 10W (0.013hp)
- **A2:** 20W (0.027hp)

Power Supply
- **S**: 24VDC

Accessories
- C: 24VDC Brake

Shaft Specifications
- 3: Straight Shaft with Flat Seat
- **2**: Straight Shaft without Flat Seat

Revision Level

Encoder Specifications
- **3**: 2048PPR Incremental Encoder

Note: Model number designations printed in boldface type represent stock items. Please contact Yaskawa for delivery on all other items. The model number designation is provided for reference only.

Servomotor & Amplifier Selection

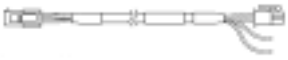
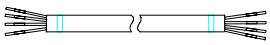
Use the table below to select the recommended SGMM Sigma Mini Servomotor and Amplifier.

Motors Used with Incremental Encoders (3000rpm Rated Speed)					Amplifier		
Description	Peak Torque (oz. in.)	Rated Torque (oz. in.)	Motor Inertia ($oz.in.s^2 \times 10^{-3}$)	Motor MODEL # (A)	Amplifier MODEL # (B)*		Motor & Amplifier Item Class
					Analog Input SGDF-	Digital Input SGDF-	
24VDC, 2048PPR Incremental Encoder Straight Shaft without Flat Seat	13.5	4.5	0.0501	SGMM-A1S312	A1CS	A1CP	Stock
			0.0690	SGMM-A1S312C			Limited Stock
	27.1	9.02	0.0776	SGMM-A2S312	A2CS	A2CP	Stock
			0.0968	SGMM-A2S312C			Limited Stock

Notes: 24VDC brakes for SGMM Sigma Mini servomotors are standard. Contact a local source for 24VDC power supplies.
Motor power and encoder cables are factory pre-wired with approximately 12" lead length with amplifier mating connectors.
Use the tables on the following pages to specify mating connectors or pre-wired cables available in various lengths.
For technical information, request manual number SIE-S800-27 from your Yaskawa representative.

Pre-wired Cable Selection

Use the table below to select Pre-wired Cables for your SGMM Sigma Mini Servomotor.

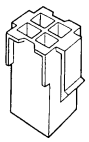
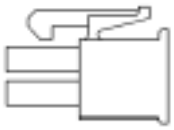
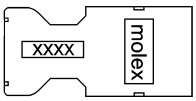
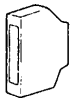
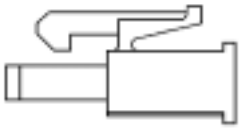
Cable Description **(C)**		Motor Size (W)	Part Number	Comments	Item Class
Power Cable without brake		All	JZSP-CFM00-☐(A)**	Use the following key to specify required cable length (last digit of part #): 01: 1m 03: 3m (standard) 05: 5m	Stock*
Power Cable with brake			JZSP-CFM10-☐(A)**		
Encoder Cable (incremental)			JZSP-VFP00-☐(A)**		
Encoder Cable (for 5m maximum applications) Only for Solder Connections			DP8409123	For use with mating connector.	
Input/Output CN1 Cable with Pigtail Leads			JZSP-VFI01-☐(A)**	Use the following key to specify required cable length (last digit of part #): 01: 1m 03: 3m (standard)	

* Standard cable lengths are Stock items; non-standard cable lengths are Limited Stock items.

** 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.

Connector Selection

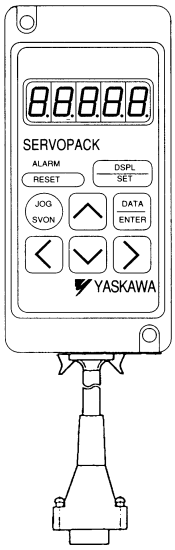
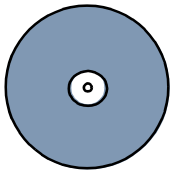
Use the table below to select Mating Connectors or Kits for your SGMM Sigma Mini Servomotor.

Connector Description **(D)**		Motor Size (W)	Part Number	Comments	Item Class
Motor Power Mating Connector (without Brake)		All	JZSP-CFM9-2	These connector kits include pin and socket.	Stock
Motor Power Mating Connector (with Brake)			JZSP-CFM9-3		
CN4 Power Connector on servo amplifier side			JZSP-CFM9-1		
Motor Encoder Mating Connector			JZSP-VFP9-2	–	
CN1 I/O Connector			JZSP-VFP9	Connector for the amplifier side.	
CN2 Encoder Connector			JZSP-VFP9	Connector for the servo amplifier side.	
CN3 Power Connector			JZSP-CFG9	For 24VDC power supply.	Limited Stock

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Peripheral Device Selection

Use the table below to select Peripheral Devices for your SGMM Sigma Mini Servomotor.

Component Description **(E)**		Part Number	Comments	Item Class
Hand-held Digital Operator Panel		JUSP-OP02A-1 + JZSP-CFS00	Portable unit with 1m cable for Sigma Mini	Stock
SVMON Software		SVMON	Monitoring and configuration software for DOS 3.3 on a 3.5” floppy disk.	
Sigma Win™ Software		SVWIN-F	Programming software for Windows 95, Windows 98, and Windows NT on a 3.5” floppy disk.	Stock
		SVWIN-C	Programming software for Windows 95, Windows 98, and Windows NT on a CD-ROM.	
Software Interface Cable		JZSP-CFS02-(A)	Pre-wired 2.0m cable with 9-pin connector	Stock