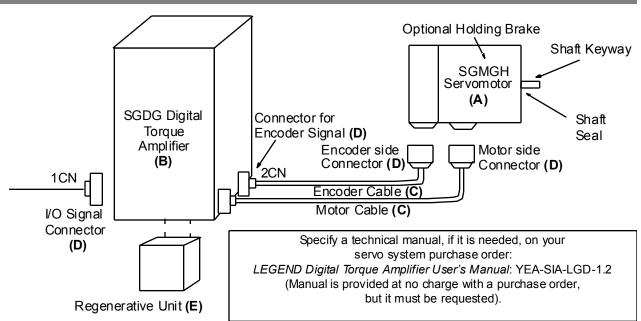
Selecting Your SGMGH LEGEND System

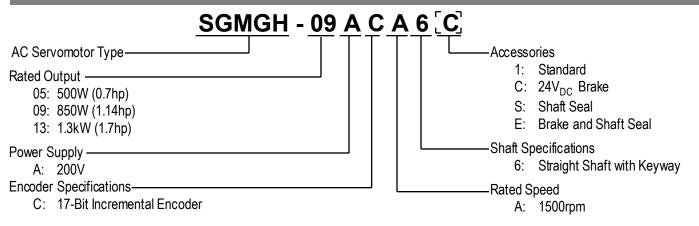
First, select the AC servomotor suited for your application using SigmaSize: the Yaskawa servomotor sizing software, available at no charge. (Request SigmaSize software via e-mail, at: literature@yaskawa.com).

Use the diagram below to locate and identify the components of your system. Each item is lettercoded and cross-referenced in the option tables on the following pages.

System Configuration



Model Number Designation



Servomotor & Amplifier Selection

Use the table below to select the appropriate SGMGH AC servomotor and amplifier.

Description	Peak Torque* (in • lb)	Rated Torque* (in • lb)	Motor Inertia (in • lb • s ² x 10 ⁻³)	Motor MODEL # (A)	Amplifier MODEL # (B) * Analog/Digital Input SGDG-	Motor & Amplifier Item Class	SGMGH
200V	79	25	6.41	SGMGH-05ACA61		Charle	
17-bit Incremental Encoder Straight Shaft with Keyway			8.26	SGMGH-05ACA6C	10GT*		
	100 40	100 40	12.30	SGMGH-09ACA61			
		14.15	SGMGH-09ACA6C		Stock		
3000rpm* maximum MS Connectors	maximum 207 74		18.2	SGMGH-13ACA61	4507*		
		20.1	SGMGH-13ACA6C	15GT*			

Note: 24V_{DC} brakes for SGMGH AC servomotors are standard. Contact a local source for 24V_{DC} power supplies. For technical information, request Yaskawa manual number YEA-SIA-LGD-1.2.

* The speed/torque specifications listed above are achievable when applied with 200V 3 phase systems. Reference the speed/torque (force) curves for performance with any other applied voltages and phase(s).

Pre-wired Cable Selection

Use the table below to select pre-wired cables for your SGMGH AC servomotor.

Cable Description (C)		Motor	Part Number*		Commonte	Item
		Size (kW)	without Brake	with Brake	Comments	Class
Power Cable with Connectors (IP67)		0.5, 0.9, 1.3	B1E-□□(A)	B1BE-□□(A)	Use the following key to specify needed cable length (last two digits of the part number): 03: 3m 05: 5m 10: 10m (standard) 15: 15m 20: 20m	
Encoder Cable (IP67)			JZSP-CMI	Р02-□□(В)	These cables are available in five lengths. Use two digits in the part number's last place: 03: 3m 05: 5m 10: 10m (standard) 15: 15m 20: 20m	
Encoder Cable (for applications up to 20m). Only for solder connections			FR-RN	//CT-SB	These cables are available in any length.	Stock**
Encoder Cable (for applications from >20 to <50m) Only for solder connections		All	UL20:	276-SB	For example, to order one FR-RMCT-SB cable, 16m long, specify: quantity: 16 part no.: FR-RMCT-SB	
Input/Output 1CN Cable & Transition Terminal Block			JUSP	-TA36P	35 mm DIN rail mountable; the cable length is 0.5m.	
Input/Output 1CN Cable with Pigtail Leads				GDG-□□	Use the following key to specify needed cable length (last digit of part number): 01: 1m (standard) 02: 2m 03: 3m	

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

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

Connector Selection

Use the table below to select mating connectors for each SGMGHAC servomotor.

Connector Description (D)		Motor	Part Number			ltem
		Size (kW)	without Brake	with Brake	Comments	Class
MS Connector for Motor Power Cable*		0.5, 0.9, 1.3	MS3106B18-10S	MS3106B20-15S	Straight-type connector	
			MS3108B18-10S	MS3108B20-15S	L-type connector	
			MS3057-10A	MS3057-12A	Cable clamp	
MS Connector for Encoder Cable			MS3106B20-29S		Straight-type connector	
			MS3108B20-29S		L-type connector	Stock
		All	MS3057-12A		Cable clamp	
1CN Mating Connector			DP9420007		Can use 1CN for analog speed and torque monitor service checks.	
2CN Encoder Mating Connector			JZSP-CMP9-1		_	

* Choose either a straight or L-type connector and the associated cable clamp for a complete assembly. For example, L-type connector MS3108B18-10S is compatible with cable clamp MS3057-10A. MS connectors listed in the table are nonenvironmental.

Peripheral Device Selection

Use the table below to select peripheral devices for each SGMGH AC servomotor.

Component De	escription (E)	Part Number	Comments	Item Class
External Regenerative Unit*	50 ohms 120 watt for 1.0 amp	RH120 50ohmJ	This is a general purpose regenerative unit.	
	rnal Regenerative Unit* 25 ohms 300 watt for 1.5 amp		Caution: Proper set-up is necessary to avoid equipment damage.	Stock

* Refer to the LEGEND Digital Torque Amplifier User's Manual (YEA-SIA-LGD-1.2) for proper resistor sizing guidelines.

CE Pre-wired Cable Selection

Use the table below to select shielded pre-wired power cables for your SGMGH AC servomotor.

Cable Description (C)		Motor Size (kW)	Part Number*		Comments	ltem
			without Brake	with Brake	Comments	Class
Power Cable with Connectors IP67		0.5, 0.9, 1.3	B1CE-□□(A)	B1BCE-□□(A)	Use the following key to specify needed cable length (last two digits of the part number): 03: 3m 05: 5m 10: 10m (standard) 15: 15m 20: 20m	Limited Stock

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

CE Connector Selection

Use the table below to select mating connectors for your SGMGH AC servomotor.

Occurrentes Description (D)		Motor	Part N	O a manufacture	ltem	
Connector Desc	ription (D)	Size (kW)	without Brake	with Brake	Comments**	Class
Connector for Motor Power Cable*	1.0, 1.5, 2.0		1.5,		L-type connector Cable clamp	
	Ę		CE02-6A20-29NS	Wand CE20BA-S	L-type connector (plug and back shell)	Limited Stock
Connector for Encoder Cable			ar	and		
			CE3057-12	A-3(D265)	Cable clamp (diameters 0.265 to 0.394in)	

Choose the connector and the associated cable clamp for a complete assembly. Connectors listed in this table are environmentally sealed.
Connectors are manufactured by DDK and listed here with the largest standard cable clamp available.

* Connectors are manufactured by DDK and listed here with the largest standard cable clamp available.

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