



AC SERVO DRIVES LARGE-CAPACITY Σ-II SERIES



See Its Dynamic Performance!

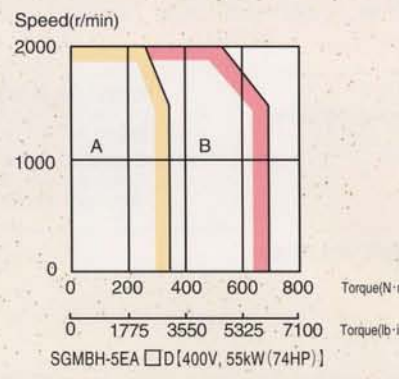
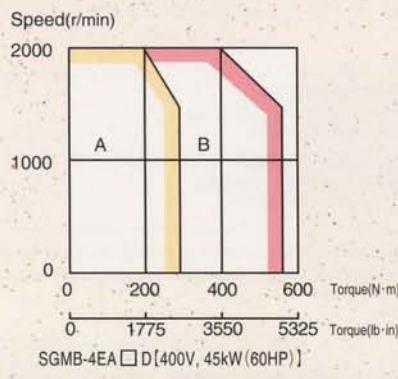
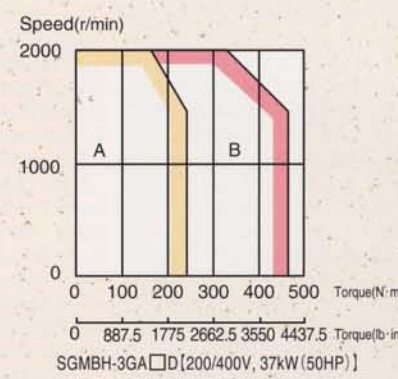
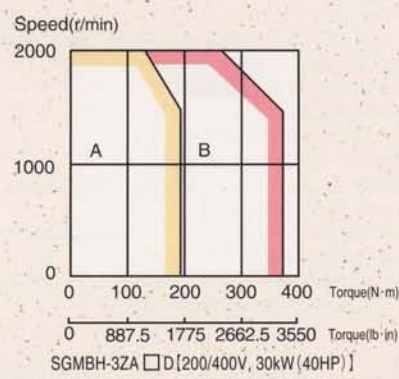
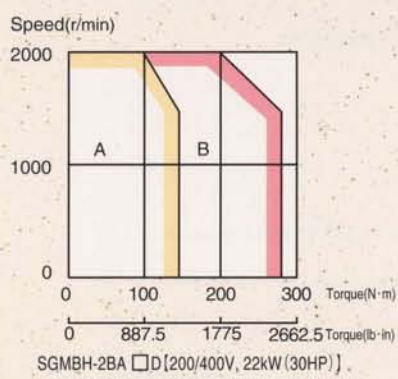
Applications: Plastic Machinery
Material Handling
Metal Forming
etc.

SERVOMOTOR

Specifications

Type	SGMBH-□□□□	2BA□D	3ZA□D	3GA□D	4EA□D	5EA□D
Rated Output	kW(HP)	22(30)	30(40)	37(50)	45(60)	55(74)
Rated Torque	N·m(lb·in)	140(1240)	191(1690)	236(2090)	286(2530)	350(3100)
Stalling Torque	N·m(lb·in)	140(1240)	191(1690)	236(2090)	286(2530)	350(3100)
Instantaneous Peak Torque	N·m(lb·in)	280(2480)	382(3380)	471(4170)	572(5060)	700(6120)
Rated/Max. Speed	r/min	1500/2000				
Moment of Inertia J _M	kg·m ² (lb·in·s ²)	0.0592(0.525)	0.0773(0.685)	0.139(1.23)	0.15(1.34)	0.197(1.75)
Protective Enclosure		IP44				
Approx. Mass	kg(lb)	120(264.6)	140(308.6)	230(507.1)	250(551.1)	350(771.6)

Torque/Speed Characteristics

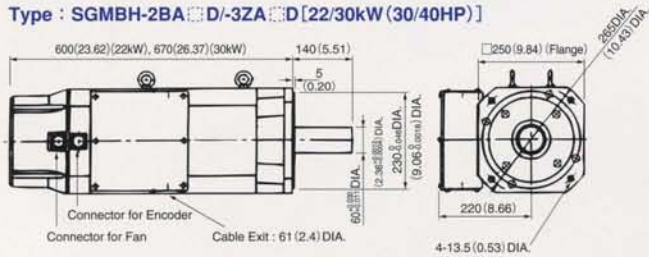


A : Continuous duty zone
B : Intermittent duty zone

LARGE-CAPACITY Σ-II SERIES

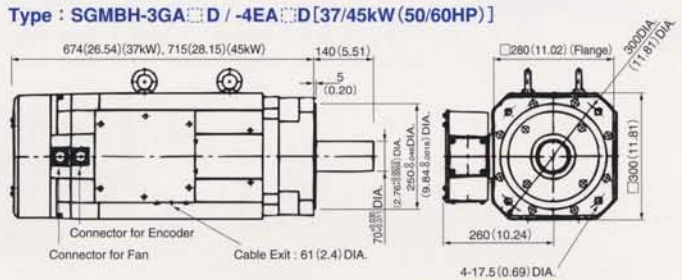
Dimensions in mm (Inches)

Type : SGBMH-2BA □D / -3ZA □D [22/30kW (30/40HP)]



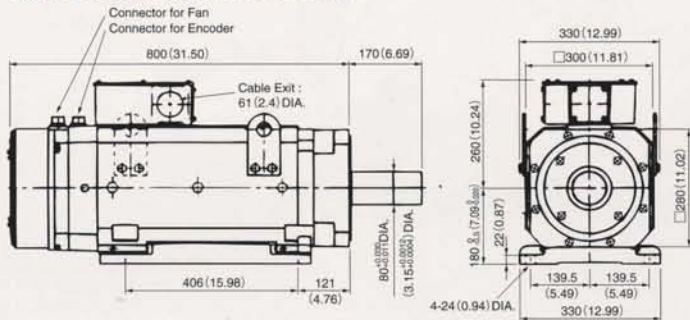
Approx. Mass : 120kg (264.6lb) [22kW (30HP)]
140kg (308.6lb) [30kW (40HP)]

Type : SGBMH-3GA □D / -4EA □D [37/45kW (50/60HP)]



Approx. Mass : 230kg (507.1lb) [37kW (50HP)]
250kg (551.1lb) [45kW (60HP)]

Type : SGBMH-5EA □D [55kW (74HP)]



Approx. Mass : 350kg (771.6lb)

SERVOPACK

Specifications

Source Voltage		400V					
Type	SGDH-□□□□E	2BD	3ZD	3GD	4ED	5ED	
Applicable Servomotor Type	SGBMH-	2BA □D	3ZA □D	3GA □D	4EA □D	5EA □D	
Continuous Output	kW (HP)	22 (30)	30 (40)	37 (50)	45 (60)	55 (74)	
Moment of Inertia J _L		Five times of the motor inertia					
Basic Specifications	Power Supply	Main Circuit: Three-phase 380 to 480VAC +10 to -15%, 50/60Hz Control Circuit: 24VDC ±10%					
	Control Method	Three-phase, full-wave rectification IGBT-PWM					
	Feedback	17-bit serial encoder (incremental/absolute value)					
	Control Method	Speed Control	±2 to 10VDC at ±1500r/min				
		Torque Control	±1 to 10VDC at rated torque				
		Position Control	Input form: sign + pulse train, CW + CCW pulse train, 90° phase difference 2-phase pulse Input frequency: 500/200kpps (line driver/open collector output)				
	I/O Signals	Position Output Form	Phase A, phase B, phase C: line driver output				
Frequency Dividing Ratio		(16 to N):N: encoder pulse number					
Sequence Input Signal		S-ON, P-CON, P-OT, N-OT, P-CL, N-CL, ALMRST					
	Sequence Output Signal	· Servo alarm, 3-bit alarm code · SRDY, TGON, COIN, CL, BR, OL (Three output forms can be set.)					
Functions/Performance	Frequency Response	100Hz (motor inertia = Load inertia)					
	DB	Built-in (The external resistor is required.)		External DB contactor and DB resistor are required.			
	Regeneration	Built-in (The external resistor is required.)					
	Protection	Overcurrent, overload, overspeed, CPU error, overvoltage, regenerative error, overrun, overheat, position error, etc.					
	Display	7-segment LED ×5 (digital operator functions provided)					
	Digital Operator Type	JUSP-OP02A-2					
Structure	Mounting Method	Base mounted					
	Dimensions (W×H×D)	mm (in)	500×350×350 (19.69×13.78×13.78)	500×400×350 (19.69×15.75×13.78)	500×500×350 (19.69×19.69×13.78)	500×550×350 (19.69×21.65×13.78)	
	Approx. Mass	kg (lb)	40 (88)	45 (99)	55 (121)	60 (132)	

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YASKAWA ELECTRIC CORPORATION

Specifications are subject to change without notice for ongoing product modifications and improvements.