

# ELLIPTICAL DESIGN LIMITED

## OMRON AC Servo Motor, 400 W

200 VAC, 3000 rpm, 1.27 Nm, absolute encoder

SGMAH-04AAA61D-OY

**Servo motor**

**SGMAH - 01 A 1 A 6 S D - OY**

Sigma-II servo motor type  
 SGMAH: Super high power rate type  
 SGMPH: Cube type  
 SGMGH: High-speed feed type  
 SGMSH: Super high power rate type  
 SGMUH: High speed type

**Capacity (kW)**

Code	SGMAH	SGMPH	SGMGH	SGMSH	SGMUH
	3000 min <sup>-1</sup>	3000 min <sup>-1</sup>	1500 min <sup>-1</sup>	3000 min <sup>-1</sup>	6000 min <sup>-1</sup>
A3	0.03				
A5	0.05				
01	0.1	0.1			
02	0.2	0.2			
03	0.3				
04	0.4	0.4			
05			0.45		
06					
07	0.65				
08	0.75	0.75			
09			0.85		
10				1.0	1.0
12					
13			1.3		
15		1.5		1.5	1.5
20			1.8	2.0	
22					
30			2.9	3.0	3.0
32					
40				4.0	4.0
44			4.4		
50				5.0	
55			5.5		
60					
75			7.5		
1A			11		
1E			15		

**Voltage**  
 A: 230 V  
 D: 400 V

**Connector specifications**

Blank	No option
D	Hypertac connector (SGMAH,SGMPH)

**Brake, oil seal specifications**

1	No brake, no oil/dust seal
S	Oil seal
B	90 V brake
C	24 V brake
D	Oil seal + 90 DC brake
E	Oil seal + 24 VDC brake
F	Dust seal
G	Dust seal + 90 VDC brake
H	Dust seal + 24 VDC brake

**Shaft end specifications**

Code	Shaft end	Type				
		SGMAH	SGMPH	SGMGH	SGMSH	SGMUH
2	Straight, no key	○	○	○	○	
4	Straight, key	○	○			
6	Straight, key, tapped	●	●	●	●	●
8	Straight, tapped	○	○			

●: Standard ○: Option

**Design procedure:**

- A: Standard
- E: SGMPH (IP67)
- F: SGMAH (prepared for oil seal mounting)

**Serial encoder specifications**

Code	Encoder	Type				
		SGMAH	SGMPH	SGMGH	SGMSH	SGMUH
1	16-bit absolute	○	○			
2	17-bit absolute			○	○	
A	13-bit incremental	●	●			
B	16-bit incremental	○	○			
C	17-bit incremental			●	●	●

●: Standard ○: Option