



5500W

SGD7S-470A30A



一般



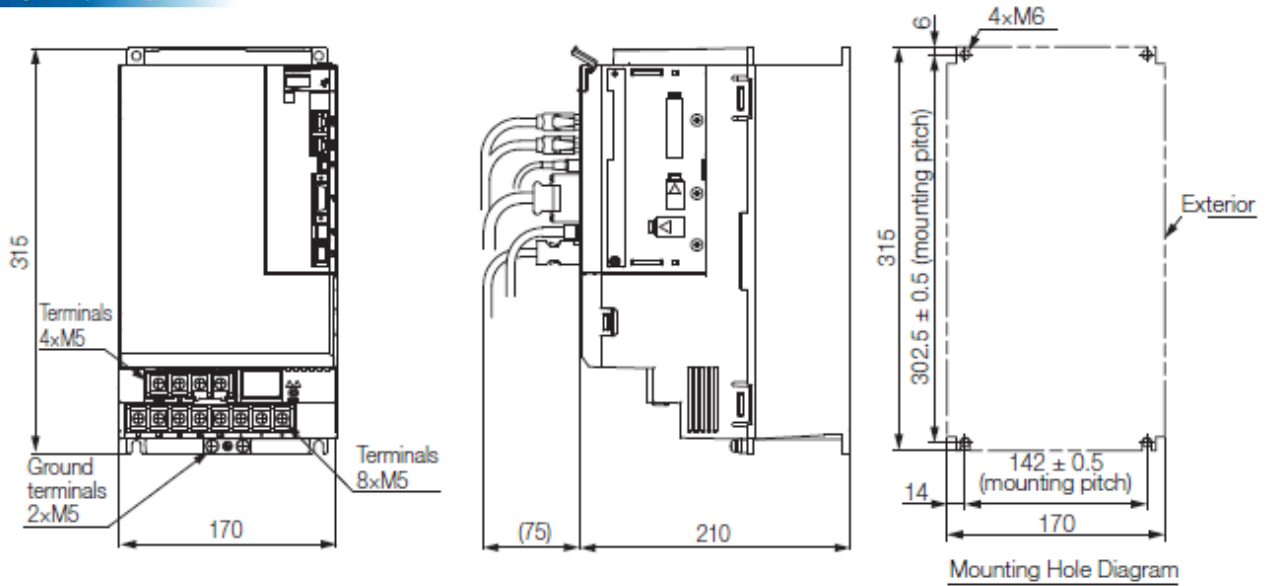
SGM7G-55AFA2S

煞車



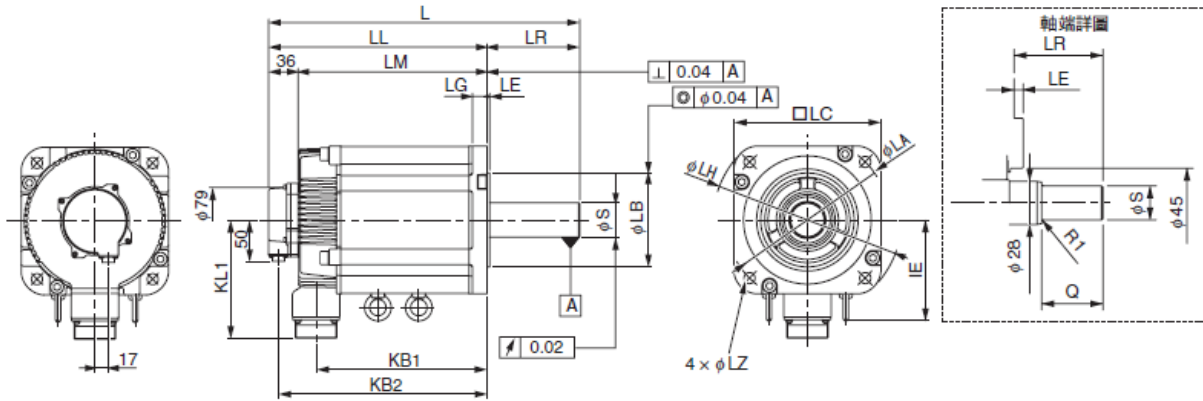
SGM7G-55AFA2E

▶ 驅動器尺寸



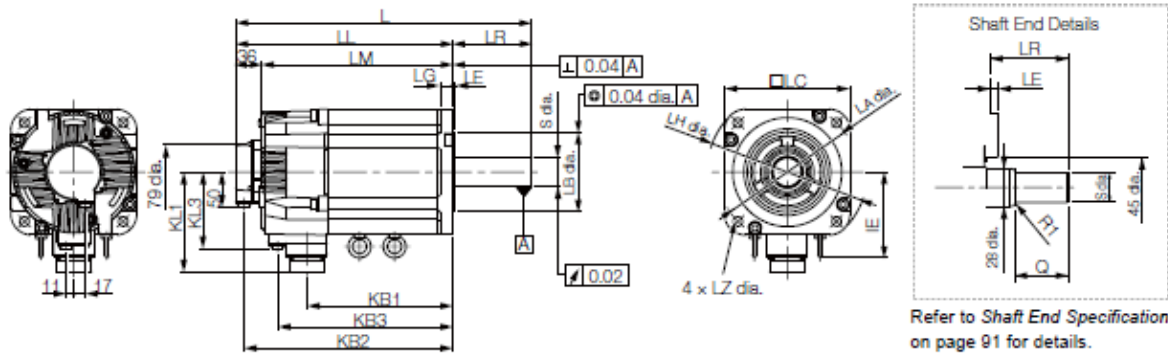
Approx. Mass: 8.2 kg  
 Unit: mm

Model SGD7S-		470A	550A	590A	780A	
Maximum Applicable Motor Capacity [kW]		6.0	7.5	11	15	
Continuous Output Current [Arms]		46.9	54.7	58.6	78.0	
Instantaneous Maximum Output Current [Arms]		110	130	140	170	
Main Circuit	Power Supply	200 VAC to 240 VAC, -15% to +10%, 50 Hz/60 Hz				
	Input Current [Arms] <sup>*1</sup>	29	37	54	73	
Control Power Supply		200 VAC to 240 VAC, -15% to +10%, 50 Hz/60 Hz				
Power Supply Capacity [kVA] <sup>*1</sup>		10.7	14.6	21.7	29.6	
Power Loss <sup>*1</sup>	Main Circuit Power Loss [W]	279.4	357.8	431.7	599.0	
	Control Circuit Power Loss [W]	33	33	48	48	
	External Regenerative Resistor Unit Power Loss [W]	180 <sup>*2</sup>	180 <sup>*3</sup>	350 <sup>*3</sup>	350 <sup>*3</sup>	
	Total Power Loss [W]	312.4	390.8	479.7	647.0	
External Regenerative Resistor Unit	External Regenerative Resistor Unit	Resistance [Ω]	6.25 <sup>*2</sup>	3.13 <sup>*3</sup>	3.13 <sup>*3</sup>	3.13 <sup>*3</sup>
		Capacity [W]	880 <sup>*2</sup>	1760 <sup>*3</sup>	1760 <sup>*3</sup>	1760 <sup>*3</sup>
	Minimum Allowable External Resistance [Ω]	5.8	2.9	2.9	2.9	
Overvoltage Category		III				



單位：mm

型號 SGM7G-	L	LL	LM	LR	KB1	KB2	IE	KL1	法蘭面尺寸						法蘭面尺寸		大致重量 [kg]	
									LA	LB	LC	LE	LG	LH	LZ	S		Q
55A□A2S	334	221	185	113	163	209	123	144	200	114.3 <sup>0</sup> <sub>-0.025</sub>	180	3.2	18	230	13.5	42 <sup>0</sup> <sub>-0.016</sub>	110	21.5



Unit: mm

Model SGM7G-	L	LL	LM	LR	KB1	KB2	KB3	E	KL1	KL3	Flange Dimensions						Shaft End Dimensions		Approx. Mass [kg]	
											LA	LB	LC	LE	LG	LH	LZ	S		Q
09ADA2C	231	173	137	58	83	161	115	-	104	80	145	110 <sup>0</sup> <sub>-0.035</sub>	130	6	12	165	9	19 <sup>0</sup> <sub>-0.013</sub>	40	7.5
13ADA2C	247	189	153	58	99	177	131	-	104	80	145	110 <sup>0</sup> <sub>-0.035</sub>	130	6	12	165	9	22 <sup>0</sup> <sub>-0.013</sub>	40	9.0
20ADA2C	265	207	171	58	117	195	149	-	104	80	145	110 <sup>0</sup> <sub>-0.035</sub>	130	6	12	165	9	24 <sup>0</sup> <sub>-0.013</sub>	40	11.0
30ADA2C	287	208	172	79	108	196	148	-	134	110	200	114.3 <sup>0</sup> <sub>-0.025</sub>	180	3.2	18	230	13.5	35 <sup>+0.01</sup> <sub>0</sub>	76	19.5
44ADA2C	311	232	196	79	132	220	172	-	134	110	200	114.3 <sup>0</sup> <sub>-0.025</sub>	180	3.2	18	230	13.5	35 <sup>+0.01</sup> <sub>0</sub>	76	23.5
55ADA2C	378	265	229	113	163	253	205	123	144	110	200	114.3 <sup>0</sup> <sub>-0.025</sub>	180	3.2	18	230	13.5	42 <sup>0</sup> <sub>-0.016</sub>	110	27.5
75ADA2C	424	311	275	113	209	299	251	123	144	110	200	114.3 <sup>0</sup> <sub>-0.025</sub>	180	3.2	18	230	13.5	42 <sup>0</sup> <sub>-0.016</sub>	110	35.0



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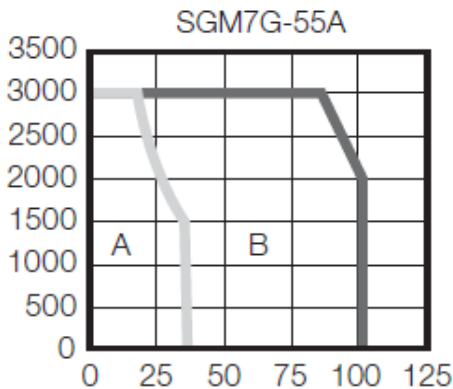
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Voltage		200 V							
Model SGM7G-		30A	30A <sup>⑥</sup>	44A	55A	75A	1A	1E	
Rated Output <sup>*1</sup>	kW	2.9	2.4	4.4	5.5	7.5	11	15	
Rated Torque <sup>*1, *2</sup>	N·m	18.6	15.1	28.4	35.0	48.0	70.0	95.4	
Instantaneous Maximum Torque <sup>*1</sup>	N·m	54.0	45.1	71.6	102	119	175	224	
Rated Current <sup>*1</sup>	Arms	23.8	19.6	32.8	37.2	54.7	58.6	78.0	
Instantaneous Maximum Current <sup>*1</sup>	Arms	70	56	84	110	130	140	170	
Rated Motor Speed <sup>*1</sup>	min <sup>-1</sup>	1500	1500	1500	1500	1500	1500	1500	
Maximum Motor Speed <sup>*1</sup>	min <sup>-1</sup>	3000	3000	3000	3000	3000	2000	2000	
Torque Constant	N·m/Arms	0.848	0.848	0.934	1.00	0.957	1.38	1.44	
Motor Moment of Inertia	×10 <sup>-4</sup> kg·m <sup>2</sup>	46.0 (53.9)	46.0 (53.9)	67.5 (75.4)	89.0 (96.9)	125 (133)	242 (261)	303 (341)	
Rated Power Rate <sup>*1</sup>	kW/s	75.2 (64.2)	49.5 (42.2)	119 (107)	138 (126)	184 (173)	202 (188)	300 (267)	
Rated Angular Acceleration Rate <sup>*1</sup>	rad/s <sup>2</sup>	4040 (3450)	3280 (2800)	4210 (3770)	3930 (3610)	3840 (3610)	2890 (2680)	3150 (2800)	
Heat Sink Size	mm	550 × 550 × 30 (steel)					650 × 650 × 35 (steel)		
Protective Structure <sup>*3</sup>		Totally enclosed, self-cooled, IP67							
Holding Brake Specifications <sup>*4</sup>	Rated Voltage	V	24 VDC <sup>+10%</sup> <sub>0</sub>						
	Capacity	W	18.5		25		32	35	
	Holding Torque	N·m	43.1		72.6		84.3	114.6	
	Coil Resistance	Ω (at 20°C)	31		23		18	17	
	Rated Current	A (at 20°C)	0.77		1.05		1.33	1.46	
	Time Required to Release Brake	ms	170						250
	Time Required to Brake	ms	100			80			
Allowable Load Moment of Inertia (Motor Moment of Inertia Ratio)		5 times	3 times	5 times					
	With External Regenerative Resistor and Dynamic Brake Resistor	10 times	7 times	10 times					
Allowable Shaft Loads <sup>*5</sup>	LF	mm	79		113		116		
	Allowable Radial Load	N	1470		1764		4998		
	Allowable Thrust Load	N	490		588		2156		

**T-N 曲線**



Shaft End Details	Servo Motor Model SGM7G-										
	03	05	09	13	20	30	44	55	75	1A	1E
Code: 2 (Straight without Key)											
LR	40	40	58	58	58	79	79	113	113	116	116
Q	30	30	40	40	40	76	76	110	110	110	110
S	16 <sup>0</sup> <sub>-0.011</sub>	16 <sup>0</sup> <sub>-0.011</sub>	24 <sup>0</sup> <sub>-0.013</sub>	24 <sup>0</sup> <sub>-0.013</sub>	24 <sup>0</sup> <sub>-0.013</sub>	35 <sup>+0.01</sup> <sub>0</sub>	35 <sup>+0.01</sup> <sub>0</sub>	42 <sup>0</sup> <sub>-0.08</sub>	42 <sup>0</sup> <sub>-0.08</sub>	42 <sup>0</sup> <sub>-0.08</sub>	55 <sup>+0.030</sup> <sub>-0.011</sub>
Code: 6 or K (Straight with Key and Tap)											
LR	40	40	58	58	58	79	79	113	113	116	116
Q	30	30	40	40	40	76	76	110	110	110	110
QK	20	20	25	25	25	60	60	90	90	90	90
S (Code 6)	16 <sup>0</sup> <sub>-0.011</sub>	16 <sup>0</sup> <sub>-0.011</sub>	24 <sup>0</sup> <sub>-0.013</sub>	24 <sup>0</sup> <sub>-0.013</sub>	24 <sup>0</sup> <sub>-0.013</sub>	35 <sup>+0.01</sup> <sub>0</sub>	35 <sup>+0.01</sup> <sub>0</sub>	42 <sup>0</sup> <sub>-0.08</sub>	42 <sup>0</sup> <sub>-0.08</sub>	42 <sup>0</sup> <sub>-0.08</sub>	55 <sup>+0.030</sup> <sub>-0.011</sub>
S (Code K)	14 <sup>0</sup> <sub>-0.011</sub>	N/A	19 <sup>0</sup> <sub>-0.013</sub>	22 <sup>0</sup> <sub>-0.013</sub>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
W	5	5	8	8	8	10	10	12	12	12	16
T	5	5	7	7	7	8	8	8	8	8	10
U	3	3	4	4	4	5	5	5	5	5	6
P	M5 screw, Depth: 12					M12 screw, Depth: 25		M16 screw, Depth: 32		M20 screw, Depth: 40	