



Product Service

EU-Type Examination Certificate

No. E6A 16 09 22021 674

Holder of Certificate: **Yaskawa Electric Corp.**
Tokyo Plant

480 Kamifujisawa, Iruma
Saitama 358-8555
JAPAN

Product: **AC Servo Systems**
AC Servo Motor

Model(s): **SGMVV Series**
(See Attachment for Nomenclature)

Description of Object:

Rated Power: 22 kW-55 kW
Rated voltage: 200 VAC, 400 VAC
Protection Class: I
EMC Classification: Group 1, Class A(EN 55011)
EMI:category C2(EN 61800-3)
EMS:second environment(EN 61800-3)

Tested according to:

EN 55011:2009/A1:2010
EN 61000-6-4:2007/A1:2011
EN 61800-3:2004/A1:2012
EN 61000-6-2:2005

This EU-Type Examination Certificate is issued according to the Directive 2014/30/EU relating to electromagnetic compatibility. It confirms that the listed apparatus complies with such aspects of the requirements of the EMC directive as specified by the manufacturer or his authorized representative in the European Community and applies only to the sample and its technical documentation submitted for testing and certification. This Type Examination does not contain any statements pertaining to the EMC protection requirements governed by other laws which serve to implement EU Directives other than the aforementioned Directive 2014/30/EU. See also notes overleaf.

Evaluation Report No.: 73561463

Date, 2016-09-20

(Johann Roidt)



TÜV SÜD Product Service GmbH is notified Body to the Directive 2014/30/EU relating to electromagnetic compatibility with the identification number 0123.

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1. SERIES NOMENCLATURE

Standard

$\frac{\text{SGMVV}}{a} - \frac{2B}{b} \frac{D}{c} \frac{D}{d} \frac{A}{e} \frac{\square}{f} \frac{\square}{g}$

- a. Motor Series : SGMVV
- b. Motor Output (kW)

Series	SGMVV
2B	22
3Z	30
3G	37
4E	45
5E	55

- c. Supply Voltage

A : 200V
 D : 400V

- d. Detector :

Symbol	Contents
D	Incremental(20bit)
3	Absolute(20bit)



e. Design Revision Order

Symbol	Contents		Delivery place
A	Peak Torque 200%	Rated speed 1500min ⁻¹	Global
B	Peak Torque 250%	Rated speed 1500min ⁻¹	Global
C	Peak Torque 210~230%	Rated speed 1000min ⁻¹	Global
D	Peak Torque 200~220%	Rated speed 800min ⁻¹	Global
E	Peak Torque 250%	Rated speed 1500min ⁻¹	China
F	Peak Torque 226%	Rated speed 1500min ⁻¹	China
G	Peak Torque 264~286%	Rated speed 1500min ⁻¹	China
H	Peak Torque 250%	Rated speed 1500min ⁻¹	Global(Outside Japan)
K	Peak Torque 226%	Rated speed 1500min ⁻¹	Global(Outside Japan)
N	Peak Torque 264~286%	Rated speed 1500min ⁻¹	Global(Outside Japan)
S	Peak Torque 250%	Rated speed 1500min ⁻¹	Global
T	Peak Torque 210~230%	Rated speed 1000min ⁻¹	Global
L	Peak Torque 200~220%	Rated speed 800min ⁻¹	Global
V	Peak Torque 250%	Rated speed 1500min ⁻¹	Global

f. Shaft Type and Mounting :

Symbol	Contents
2	Straight, without key (Flange-mounted Type)
6	Straight, with key and tap (Flange-mounted Type)
K	Straight, without key (Foot-mounted Type)
L	Straight, with key and tap (Foot-mounted Type)

g. Option parts :

Symbol	Contents
N	Without Option
1	With dust seal (V type)
S	With oil seal (S type)
B	With holding brake (DC90V)
C	With holding brake (DC24V)
D	With oil seal and holding brake(DC90V)
E	With oil seal and holding brake(DC24V)
F	With dust seal and holding brake(DC90V)
G	With dust seal and holding brake(DC24V)

Attachment
Certificate No. **E6A 16 09 22021 674**



Product Service

Exclusive Design for Customer

SGMVV – 2B D D A –
a b c d e f g h i

a. to e. same as standard

f, g. Customer Code

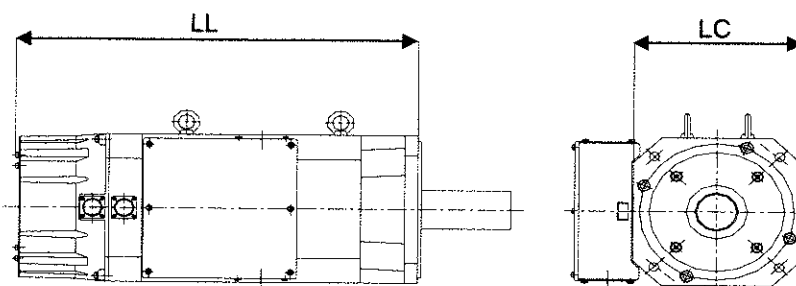
h, i. Design Revision Order for Customer



2. LIST OF Certified models

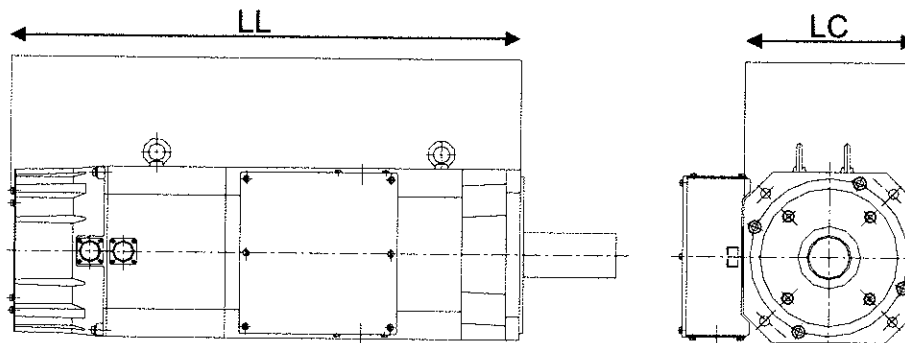
Without Brake

Item	Rated speed (min ⁻¹)	Max speed (min ⁻¹)	Rated Current (Arms)	Rated Output (kW)	Rated Torque (Nm)	Peak Torque (Nm)	LL	LC	
Motor type									
200V	1500	2000	88	22	140	280	518	250	
						350			
			120	30	191	382	564		
						478			
			152	37	236	472	604		
						589			
	1000	1500	103	22	210	441	604	250	
						136			30
			193	37	353	777	697		280
						104			
			150	30	358	752	697		
						195			37
400V	1500	2000	44	22	140	280	518	250	
						350			
			39	30	191	316	564		
						382			
			60	30	191	478	564		
						505			478
			76	37	236	472	604	250	
						589			
			69	45	286	675	543	275	
						572			
			102	45	286	715	652	280	
						700			
	117	55	350	875	697				
				97					
	1000	1500	52	22	210	441	604		250
						68			
			97	37	353	777	697	280	
						115			
			120	55	525	1210	798		
						52		22	
	75	30	358	752	697				
				98		37	442	930	747
	110	45	537	1182	798				



With Brake

Item		Rated speed (min ⁻¹)	Max speed (min ⁻¹)	Rated Current (Arms)	Rated Output (kW)	Rated Torque (Nm)	Peak Torque (Nm)	LL	LC
200V	SGMVV-2BAxAxx	1500	2000	88	22	140	280	638	250
	SGMVV-2BAxB(E,H)xx						350		
	SGMVV-3ZAxAxx			120	30	191	382	684	
	SGMVV-3ZAxB(E,H)xx						478		
	SGMVV-3GAxAxx			152	37	236	472	744	
	SGMVV-3GAxB(E,H)xx						589		
	SGMVV-2BAxCxx	1000	1500	103	22	210	441	759	250
	SGMVV-3ZAxCxx			136	30	286	630	794	
	SGMVV-3GAxCxx			193	37	353	777	856	
	SGMVV-2BAxDxx	800	1300	104	22	262	526	794	250
	SGMVV-3ZAxDxx			150	30	358	752	856	
	SGMVV-3GAxDxx			195	37	442	930	906	
400V	SGMVV-2BDxAxx	1500	2000	44	22	140	280	638	250
	SGMVV-2BDxB(E,H)xx						350		
	SGMVV-2BDxF(K)xx						39		
	SGMVV-3ZDxAxx			60	30	191	382	684	
	SGMVV-3ZDxB(E,H)xx						478		
	SGMVV-3GDxAxx						76		
	SGMVV-3GDxB(E,H)xx			102	45	286	572	811	
	SGMVV-4EDxAxx						715		
	SGMVV-4EDxB(E,H,V)xx						700		
	SGMVV-5EDxAxx			117	55	350	875	856	
	SGMVV-5EDxBxx						875		
	SGMVV-5EDxE(H,V)xx						97		
	SGMVV-2BDxCxx	1000	1500	52	22	210	441	759	250
	SGMVV-3ZDxCxx			68	30	286	630	806	
	SGMVV-3GDxCxx			97	37	353	777	856	
	SGMVV-4EDxCxx			115	45	430	946	906	
	SGMVV-5EDxCxx			120	55	525	1210	946	
	SGMVV-2BDxDxx	800	1300	52	22	262	526	794	250
	SGMVV-3ZDxDxx			75	30	358	752	856	
	SGMVV-3GDxDxx			98	37	442	930	906	
	SGMVV-4EDxDxx			110	45	537	1182	946	



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3. ENCODER

LIST OF OSCILLATOR

Encoder	Encoder type (typical)	Oscillator type	Freq.
Incremental 20bit	UTTIH-B20xx	NX3225SA(NIHON DEMPA KOGYO CO.,LTD.) or equivalent	24MHz
Absolute 20bit	UTTAH-20xx	NX3225SA(NIHON DEMPA KOGYO CO.,LTD.) or equivalent	24MHz