



Product Service

EC-Statement of Compliance

No. E6 11 02 22021 404

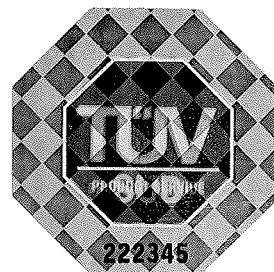
Holder of Certificate: Yaskawa Electric Corp.
Tokyo Plant

480 Kamifujisawa, Iruma
Saitama 358-8555
JAPAN

Name of Object: AC Servo Systems
AC Servo Amplifier (SERVOPACK)

This EC-Statement of Compliance is issued according to the Directive 2004/108/EC relating to electromagnetic compatibility. It confirms that the listed apparatus complies with such aspects of the essential 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 to TÜV SÜD Product Service GmbH for testing and certification. See also notes overleaf.

Technical report no.: 73531370



Date, 2011-02-21

(Johann Roidt)

TÜV SÜD Product Service GmbH is Notified Body to the Directive 2004/108/EC of the European Parliament and of the council with the identification number 0123.

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No. E6 11 02 22021 404

Model(s):

SGDV series
 SGDVB-R70A**A***** , SGDVB-R90A**A***** ,
 SGDVB-1R6A**A***** , SGDVB-2R8A**A***** ,
 SGDVB-3R8A**A***** , SGDVB-5R5A**A***** ,
 SGDVB-7R6A**A***** , SGDVB-1R9D**A***** ,
 SGDVB-3R5D**A***** , SGDVB-5R4D**A***** ,
 SGDVB-8R4D**A***** , SGDVB-120D**A***** ,
 SGDVB-170D**A***** ,
 SGDVB-A5A**A-OY , SGDVB-01A**A-OY ,
 SGDVB-02A**A-OY , SGDVB-04A**A-OY ,
 SGDVB-08A**A-OY , SGDVB-15A**A-OY ,
 SGDVB-05D**A-OY ,
 SGDVB-10D**A-OY , SGDVB-15D**A-OY ,
 SGDVB-20D**A-OY , SGDVB-30D**A-OY ,
 SGDVB-50D**A-OY ,
 SGDVB-R70F**A***** , SGDVB-R90F**A***** ,
 SGDVB-2R1F**A***** , SGDVB-2R8F**A***** ,
 SGDVB-120A**A***** , SGDVB-180A**A***** ,
 SGDVB-200A**A***** , SGDVB-330A**A***** ,
 SGDVB-470A**A***** , SGDVB-550A**A***** ,
 SGDVB-590A**A***** , SGDVB-780A**A***** ,
 SGDVB-210D**A***** , SGDVB-260D**A***** ,
 SGDVB-280D**A***** , SGDVB-370D**A***** ,
 SGDVB-60D**A-OY , SGDVB-75D**A-OY ,
 SGDVB-1AD**A-OY , SGDVB-1E**A-OY ,
 SGDVB-R70B**A***** , SGDVB-1R0B**A***** ,
 SGDVB-OFA01A***** , SGDVB-OCA01A***** ,
 SGDVB-OCA03A***** , SGDVB-OCB02A***** ,
 SGDVB-OSA01A , SGDVB-2R8A0*B***** ,
 SGDVB-2R8A1*B***** , SGDVB-2R8A2*B*****
 (See Attachment for Nomenclature)

Description of Object:

Rated Voltage: 100 VAC, 200 VAC, 400 VAC, 5 VDC
 Rated Power: 0.02 kW-15 kW(AC), 2.5 W(DC)
 Protection Class: I

Tested according to:

EN 61800-3:2004, Category C2;
 EN 55011/A2:2007, Group 1, Class A;
 EN 61000-6-2:2005;
 EN 61800-3:2004, Second environment



Nomenclature for SGDV series

$\frac{\text{SGDV-}}{\text{A}}$ $\frac{\text{***}}{\text{B}}$ $\frac{*}{\text{C}}$ $\frac{\text{**}}{\text{D}}$ $\frac{*}{\text{E}}$ $\frac{\text{***}}{\text{F}}$ $\frac{\text{**}}{\text{G}}$ $\frac{*}{\text{H}}$

A SGDV Σ -V Series SGDV Servopack

B Output Current

Group	Continuous Output current	Input Voltage	Output Voltage	
R70	0.66 [A]	200V3ac,ac	200V3ac	
R90	0.91 [A]			
1R6	1.6 [A]			
2R8	2.8 [A]			
3R8	3.8 [A]			
5R5	5.5 [A]			
7R6	7.6 [A]	200V3ac	200V3ac	
120	11.6 [A]	200V3ac,ac		
180	18.5 [A]	200V3ac		
200	19.6 [A]			
330	32.9 [A]			
470	46.9 [A]			
550	54.7 [A]			
590	58.6 [A]			
780	78.0 [A]			
1R9	1.9 [A]	400V3ac		400V3ac
3R5	3.5 [A]			
5R4	5.4 [A]			
8R4	8.4 [A]			
120	11.9 [A]			
170	16.5 [A]			
210	20.8 [A]			
260	25.7 [A]			
280	28.1 [A]			
370	37.2 [A]			
R70	0.66 [A]	100Vac	200V3ac	
R90	0.91 [A]			
2R1	2.1 [A]			
2R8	2.8 [A]			
R70	0.7 [A]	100Vac	100V3ac	
1R0	0.98 [A]			

C Rated Voltage

Group	Input Voltage	Output Voltage
A	200V3ac,ac	200V3ac
D	400V3ac	400V3ac
F	100Vac	200V3ac
B	100Vac	100V3ac

Attachment

Statement No. **E6 11 02 22021 404**



Product Service

D Interface

Group	Model	Difference
01	Analogue/Pulse I/F, for Rotary motor	Control board is Analogue/Pulse I/F, Software is for Analogue/Pulse I/F, Rotary motor
05	Analogue/Pulse I/F, for Linear motor	Hardware is exactly same as 01 type. Software is changed from 01 type for Linear motor
11	MECHATROLINK-II I/F, for Rotary motor	Control board is MECHATROLINK-II I/F, Software is for MECHATROLINK-II I/F, Rotary motor
15	MECHATROLINK-II I/F, for Linear motor	Hardware is exactly same as 11 type. Software is changed from 11 type for Linear motor.
E1	Command Option I/F, for Rotary motor	Control board is Command Option I/F, Software is for Command Option I/F, Rotary motor
E5	Command Option I/F, for Linear motor	Hardware is exactly same as E1 type. Software is changed from E1 type for Linear motor.
21	MECHATROLINK-III I/F, for Rotary motor	Control board is MECHATROLINK-III I/F, Software is for MECHATROLINK-III I/F, Rotary motor
25	MECHATROLINK-III I/F, for Linear motor	Hardware is exactly same as 21 type. Software is changed from 21 type for Linear motor.

E Design order

Group	Type
A	Standard
B	Fan-less

F Option for Hardware

Group	Option Specification of Hardware		
	Structure (Hardware)	Board coating (Varnish)	Measures for vibration
Blank	Standard	Not handle	Not handle
000	Standard	Not handle	Not handle
001	Rack mount type(capacity of 5kW and below) Ventilation type (capacity between 6kW and 15kW)	Not handle	Not handle
002	Standard	Handel	Not handle
003	=001+002	Handle	Not handle
004	Standard	Not handle	Handle
005	=001+004	Not handle	Handle
006	=002+004	Handle	Handle
007	=001+002+004	Handle	Handle
008	AC 200V single phase input voltage	Not handle	Not handle
009	=001+008	Not handle	Not handle
00A	=002+008	Handle	Not handle
00B	=001+002+008	Handle	Not handle
00C	=004+008	Not handle	Handle
00D	=001+004+008	Not handle	Handle
00E	=002+004+008	Handle	Handle
00F	=001+002+004+008	Handle	Handle



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Group	Option Specification of Hardware		
	Structure (Hardware)	Board coating (Varnish)	Measures for vibration
010	Open collector pulse output signal type	Not handle	Not handle
011	=001+010	Not handle	Not handle
012	=002+010	Handle	Not handle
013	=001+002+010	Handle	Not handle
014	=004+010	Not handle	Handle
015	=001+004+010	Not handle	Handle
016	=002+004+010	Handle	Handle
017	=001+002+004+010	Handle	Handle
018	=008+010	Not handle	Not handle
019	=001+008+010	Not handle	Not handle
01A	=002+008+010	Handle	Not handle
01B	=001+002+008+010	Handle	Not handle
01C	=004+008+010	Not handle	Handle
01D	=001+004+008+010	Not handle	Handle
01E	=002+004+008+010	Handle	Handle
01F	=001+002+004+008+010	Handle	Handle
020	External DB resistor type or without DB type	Not handle	Not handle
021	=001+020	Not handle	Not handle
022	=002+020	Handle	Not handle
023	=001+002+020	Handle	Not handle
024	=004+020	Not handle	Handle
025	=001+002+020	Not handle	Handle
026	=002+004+020	Handle	Handle
027	=001+002+004+020	Handle	Handle
028	=008+020	Not handle	Not handle
029	=001+008+020	Not handle	Not handle
02A	=002+008+020	Handle	Not handle
02B	=001+002+008+020	Handle	Not handle
02C	=004+008+020	Not handle	Handle
02D	=001+004+008+020	Not handle	Handle
02E	=002+004+008+020	Handle	Handle
02F	=001+002+004+008+020	Handle	Handle



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Group	Option Specification of Hardware		
	Structure (Hardware)	Board coating (Varnish)	Measures for vibration
030	=010+020	Not handle	Not handle
031	=001+010+020	Not handle	Not handle
032	=002+010+020	Handle	Not handle
033	=001+002+010+020	Handle	Not handle
034	=004+010+020	Not handle	Handle
035	=001+004+010+020	Not handle	Handle
036	=002+004+010+020	Handle	Handle
037	=001+002+004+010+020	Handle	Handle
038	=008+010+020	Not handle	Not handle
039	=001+008+010+020	Not handle	Not handle
03A	=002+008+010+020	Handle	Not handle
03B	=001+002+008+010+020	Handle	Not handle
03C	=004+008+010+020	Not handle	Handle
03D	=001+004+008+010+020	Not handle	Handle
03E	=002+004+008+010+020	Handle	Handle
03F	=001+002+004+008+010+020	Handle	Handle



G Option for Software

Group	Option Specification of Software	Difference from Standard model
Blank	Standard.	--
00	Standard.	Hardware and/or parameters are changed.
01	Internal setting speed a change of 15 steps.	Specification into the number of the speed tables of the internal parameter which can be set as a servopack was changed from three steps in 15 steps.
02	The functional addition of absolute value encoder initialization by the contact input signal from the outside	Specification, which could be made to perform initialization operation of the absolute value encoder with an I/O signal without connecting an external operation.
03	Speed limit detection functional addition.	Speed limit detection function addition.
04	Instruction input disconnection functional addition.	Specification, which added the function, which detects disconnections and is used as alarm when wiring of the instruction input from a controller is disconnected.
05	The Mitsubishi PLC correspondence and the Mitsubishi specification absolute value data-processing correspondence.	Specification, which changed I/F according to Mitsubishi PLC.
06	C phase pulse zero return functional addition	Specification, which added the zero return function which uses C-Phase pulse.
07	F47 standard correspondence.	Specification, to which soft processing required for the measures against the power failure specified by F47 standard was added.

H Option for Parameter

Group	Option Specification of Software	Difference from Standard model
Blank	Standard	--
0	Standard	--



Nomenclature for -OY type

SGDV- *** * ** * -OY *****
 A B C D E F G

A SGD V Σ-V Series SGD V Servopack

B Rated Output of Applicable Servomotor

Group	Relation-ship with Standard group	Rated Output of Applicable Servomotor	Input Voltage	Output voltage
A5	R70	50 [W]	200V3ac,ac	200V3ac
01	R90	100 [W]		
02	1R6	200 [W]		
04	2R8	400 [W]		
05	3R8	500 [W]		
08	5R5	750 [W]		
15	120	1.5 [kW]		
05	1R9	500 [W]	400V3ac	400V3ac
10	3R8	1.0 [kW]		
15	5R4	1.5 [kW]		
20	8R4	2.0 [kW]		
30	120	3.0 [kW]		
50	170	5.0 [kW]		
60	210	6.0 [kW]		
75	260	7.5 [kW]		
1A	280	11 [kW]		
1E	370	15 [kW]		

Notes:

For -OY models, at the column B has 2 digit, but standard models have 3 digits to indicate output current.

C Rated Voltage

Group	Input Voltage	Output Voltage
A	200V3ac,ac	200V3ac
D	400V3ac	400V3ac

D Interface

Group	Model	Difference
01	Analogue/Pulse I/F, for Rotary motor	Control board is Analogue/Pulse I/F, Software is for Analogue/Pulse I/F, Rotary motor
05	Analogue/Pulse I/F, for Linear motor	Hardware is exactly same as 01 type. Software is changed from 01 type for Linear motor
11	MECHATROLINK-II I/F, for Rotary motor	Control board is MECHATROLINK-II I/F, Software is for MECHATROLINK-II I/F, Rotary motor
15	MECHATROLINK-II I/F, for Linear motor	Hardware is exactly same as 11 type. Software is changed from 11 type for Linear motor.

Attachment

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E Design order

Group	Type
A	Standard

F -OY, OMRON Yaskawa Bland

G Option specification

Group	Option specification
Blank	Standard Model
008000	AC 200V single phase input type



Nomenclature for Y-Specification

SGDV- *** * ** * Y*****
 A B C D E F

A SGD V Σ-V Series SGD V Servopack

B Output Current

Group	Continuous Output current	Input Voltage	Output Voltage	
R70	0.66 [A]	200V3ac,ac	200V3ac	
R90	0.91 [A]			
1R6	1.6 [A]			
2R8	2.8 [A]			
3R8	3.8 [A]			
5R5	5.5 [A]			
7R6	7.6 [A]	200V3ac	400V3ac	
120	11.6 [A]	200V3ac,ac		
180	18.5 [A]	200V3ac		
200	19.6 [A]			
330	32.9 [A]			
470	46.9 [A]			
550	54.7 [A]			
590	58.6 [A]			
780	78.0 [A]			
1R9	1.9 [A]	400V3ac		400V3ac
3R5	3.5 [A]			
5R4	5.4 [A]			
8R4	8.4 [A]			
120	11.9 [A]			
170	16.5 [A]			
210	20.8 [A]			
260	25.7 [A]			
280	28.1 [A]			
370	37.2 [A]			
R70	0.66 [A]	100Vac	200V3ac	
R90	0.91 [A]			
2R1	2.1 [A]			
2R8	2.8 [A]			
R70	0.7 [A]	100Vac	100V3ac	
1R0	0.98 [A]			

C Rated Voltage

Group	Input Voltage	Output Voltage
A	200V3ac,ac	200V3ac
D	400V3ac	400V3ac
F	100Vac	200V3ac
B	100Vac	100V3ac

Attachment

Statement No. **E6 11 02 22021 404**



Product Service

D Interface

Group	Model	Difference
01	Analogue/Pulse I/F, for Rotary motor	Control board is Analogue/Pulse I/F, Software is for Analogue/Pulse I/F, Rotary motor
05	Analogue/Pulse I/F, for Linear motor	Hardware is exactly same as 01 type. Software is changed from 01 type for Linear motor
11	MECHATROLINK-II I/F, for Rotary motor	Control board is MECHATROLINK-II I/F, Software is for MECHATROLINK-II I/F, Rotary motor
15	MECHATROLINK-II I/F, for Linear motor	Hardware is exactly same as 11 type. Software is changed from 11 type for Linear motor.
E1	Command Option I/F, for Rotary motor	Control board is Command Option I/F, Software is for Command Option I/F, Rotary motor
E5	Command Option I/F, for Linear motor	Hardware is exactly same as E1 type. Software is changed from E1 type for Linear motor.
21	MECHATROLINK-III I/F, for Rotary motor	Control board is MECHATROLINK-III I/F, Software is for MECHATROLINK-III I/F, Rotary motor
25	MECHATROLINK-III I/F, for Linear motor	Hardware is exactly same as 21 type. Software is changed from 21 type for Linear motor.

E Design order

Group	Type
A	Standard
B	Fan-less



F Option specification for Hardware and/or Software and/or Parameter setting

Group	Option Specification of Software	Difference from Standard model
Blank	Standard	--
Y5****	Software and parameters are changed. The combination of this model and Safety module is not possible.	Hardware is exactly same as standard model.
Y6****	Software and parameters are changed. The combination of this model and Safety module is not possible.	Hardware is exactly same as standard model.
Y7****	Software and parameters are changed. The combination of this model and Safety module is possible. Refer to "Note".	Hardware is exactly same as standard model. Customised for non-safety related parameters and software.
Y8****	Software and parameters are changed. The combination of this model and Safety module is not possible.	Hardware is exactly same as standard model.
Y9****	Software and parameters are changed. The combination of this model and Safety module is not possible.	Hardware is exactly same as standard model.
Y101**	Software and/or hardware are changed for the specific client.	Hardware is exactly same as standard model.
Y400**	Hardware and/or software and/or parameter are changed. The combination of this model and Safety module is not possible.	Hardware is exactly same as SGD V-*****02**** and SGD V-*****03**** of Dynamic Brake Function Option specification of standard model. ** of Y400 means 2 alphanumeric characters for changed software and/or parameter are changed.
Y401**	Hardware and/or software and/or parameter are changed. The combination of this model and Safety module is not possible.	Hardware is exactly same as SGD V-*****02**** and SGD V-*****03**** of Dynamic Brake Function Option specification of standard model. ** of Y401 means 2 alphanumeric characters for changed software and/or parameter are changed.

Notes:

All the applicable models of Safety module is described in the technical report : 717503093.



Nomenclature for SGD V Series (Option card for SGD V Series)

SGDV- ** * ** * *** ** *
 A B C D E F G H

A SGD V : Option card for AC Servo amplifier SGD V Series

B Function of board
 C Product control section
 D I/F specification

B, C, D

Group B	Group C	Group D	Specification
OF:feedback option	A:JAPAN	01	Fully closed I/F card
OS:safety option		01	Safety I/F card
OC:command option		01	EtherCAT I/F card
		03	INDEXER I/F card
	E:EUROPE	02	Ethernet POWERLINK I/F card

E Design order

Group	Type
A	Standard

F Option for Hardware

Group	Option Specification of Hardware		
	Structure (Hardware)	Board coating (Varnish)	Measures for vibration
Blank	Standard	Not handle	Not handle
000	Standard	Not handle	Not handle
002	Standard	Handle	Not handle
004	Standard	Not handle	Handle
006	=002+004	Handle	Handle

G Option for Software

Group	Option Specification of Software	Difference from Standard model
Blank	Standard.	--
00	Standard.	Hardware and/or parameters are changed.

H Option for Parameter

Group	Option Specification of Software	Difference from Standard model
Blank	Standard	--
0	Standard	--



Nomenclature for Y-specification (Option card for SGD V Series)

SGD V- ** * ** * Y*****
 A B C D E F

A SGD V : Option card for AC Servo amplifier SGD V Series

B Function of board

C Product control section

D I/F specification

B, C, D

Group B	Group C	Group D	Specification
OF:feedback option	A:JAPAN	01	Fully closed I/F card
OS:safety option		01	Safety I/F card
OC:command option		01	EtherCAT I/F card
		03	INDEXER I/F card
	E:EUROPE	02	Ethernet POWERLINK I/F card

E Design order

Group	Type
A	Standard

F Option specification for Hardware and/or Software and/or Parameter setting

Group	Option Specification of Software	Difference from Standard model
Blank	Standard	--
Y5****	Software and/or parameters are changed.	Hardware is exactly same as standard model.
Y6****	Software and/or parameters are changed.	Hardware is exactly same as standard model.
Y7****	Software and/or parameters are changed.	Hardware is exactly same as standard model.
Y8****	Software and/or parameters are changed.	Hardware is exactly same as standard model.
Y9****	Software and/or parameters are changed.	Hardware is exactly same as standard model.