

ENGINEERING PUBLICATION
MOTION CONTROL DIVISION

PRODUCT: SIGMA I & II SUBJECT: UL CERTIFICATION

CATEGORY: PRODUCT NOTES

ENGINEER: Bill Leang

DISTRIBUTION: MCD

Summary: Underwriters Laboratories (UL) listing information on Yaskawa products are provided in this document. The latest UL listing information for Yaskawa products may be obtained from UL's Listing Information System (LIS) on the UL website at <http://www.ul.com/database/>.

Yaskawa Electric America's product policy is to comply with global safety standards including UL for the U. S. and c-UL for Canada. The purpose of this document is to provide information on the UL listings of Yaskawa products and applicability of c-UL mark to meet Canadian safety standards such as those required by CSA.

Yaskawa servo amplifiers and accessories are covered under UL file # E147823, and servo motors are covered under file # E165827. The servo amplifiers are tested to UL standard UL508C, *Standard for Power Conversion Equipment*, and servo motors are tested to UL standard UL1004, *Electric Motors*. Copies of these Standards may be purchased from UL.

Yaskawa products also bear the c-UL mark and are certified by UL to be in compliance with appropriate Canadian standards. More information regarding the c-UL mark can be found on the UL website at <http://www.ul.com/database/>.

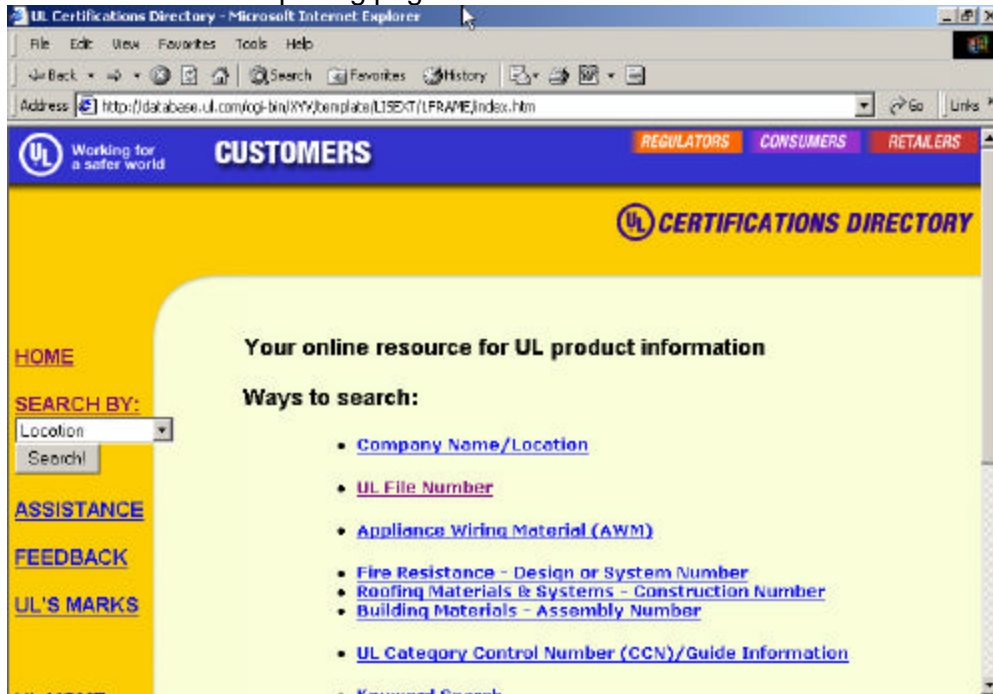
The chart below shows the UL file numbers and product categories for Yaskawa servo products:

	<u>UL</u>	<u>c-UL</u>
Motors	File #: E165827 Category: PRGY2	E165827 PRGY8
Amplifiers & Application Modules & Accessories	File #: E147823 Category: NMMS	E147823 NMMS7
Motion Controllers (e.g. SMC2000)	File #: E184524 Category: NRAQ	E184524 NRAQ7

The latest UL and cUL listing information may be obtained from UL's Listing Information System (LIS) on the UL website. To access LIS, follow the following steps:

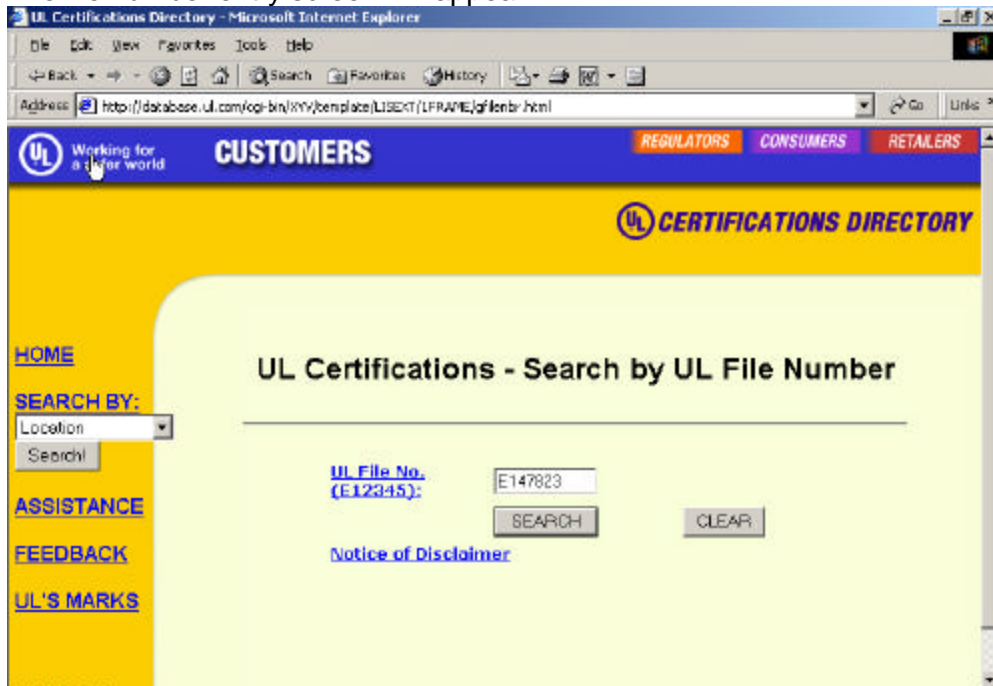
1. Log on to the UL website at <http://www.ul.com/database/>

2. You should see the opening page as below:



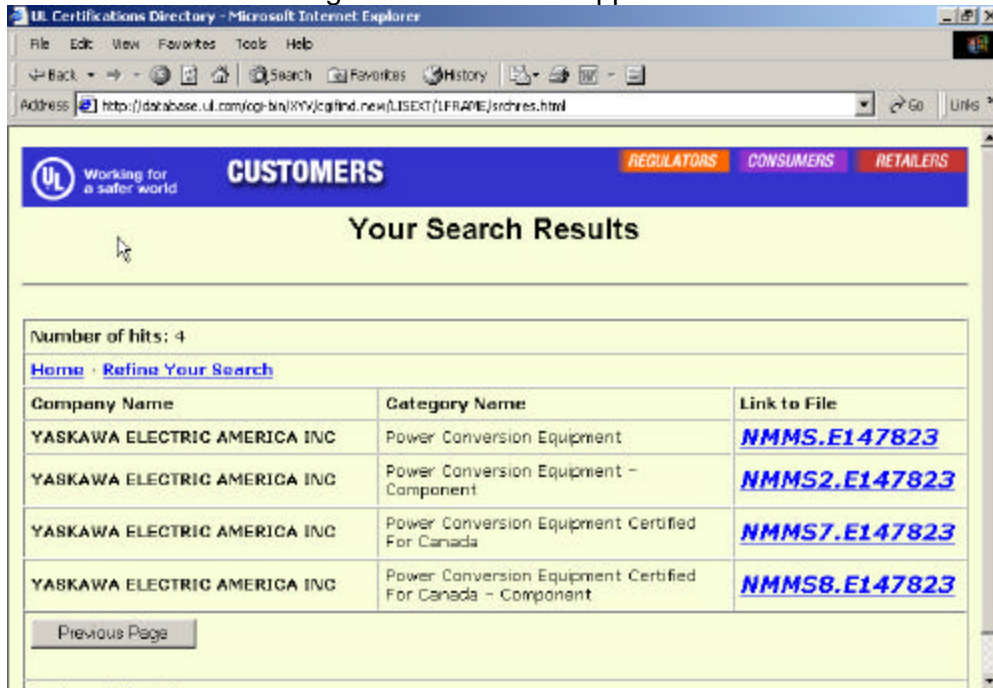
Select "UL File Number",

3. The file number entry screen will appear:



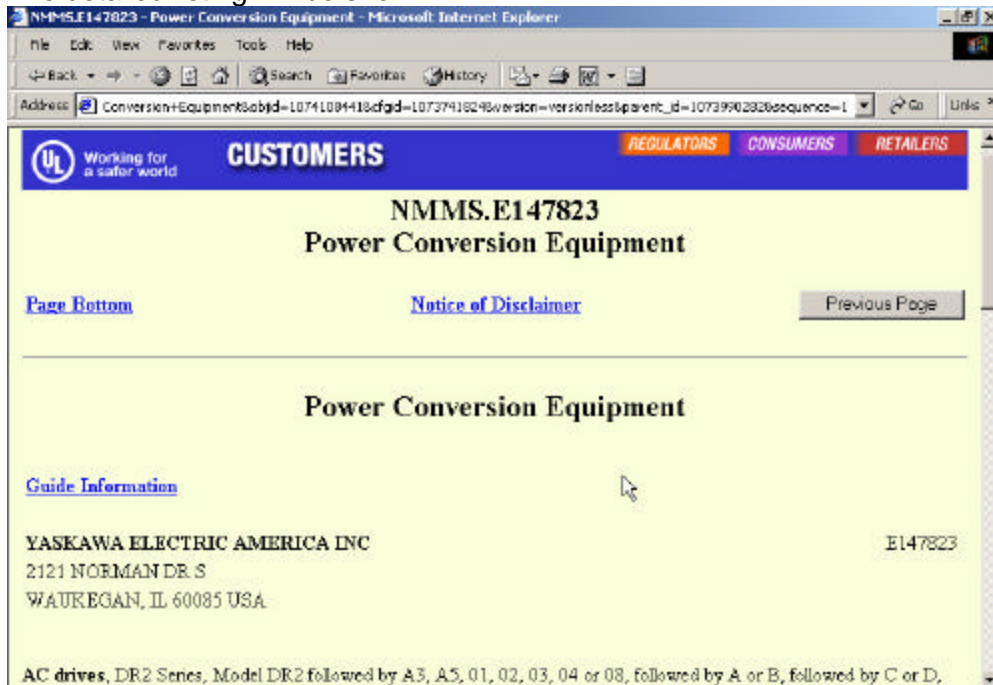
Enter the file number, e.g. E147823, and select "Search",

4. The list of Yaskawa listings for E147823 will appear as shown below:



Select one of the files, e.g. NMMS.E147823

5. The detailed listing will be shown:

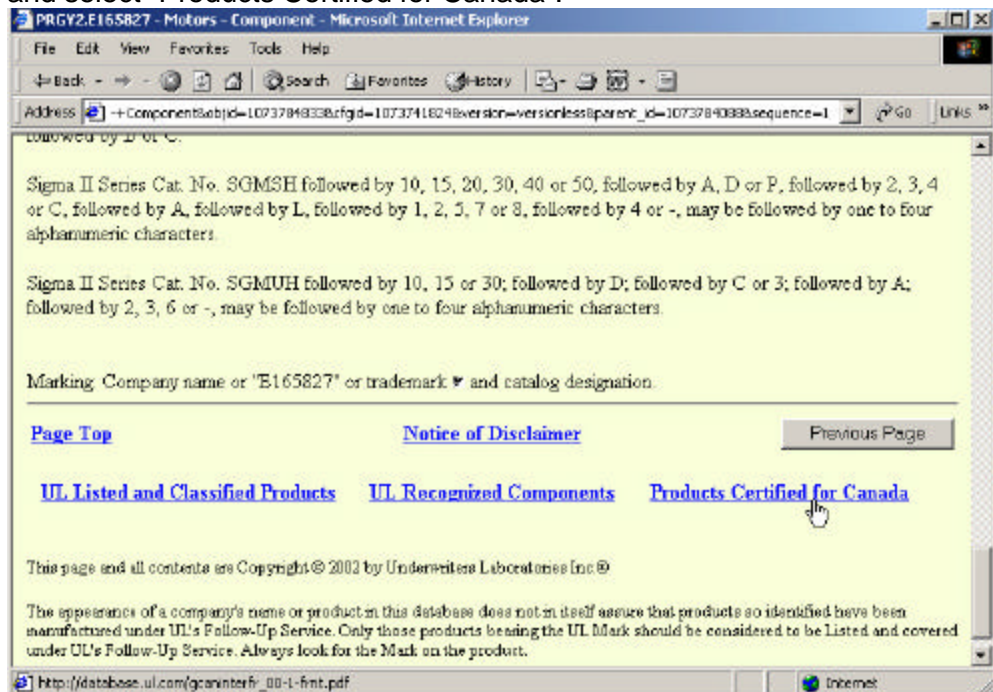


This is the UL listing for the amplifiers & options. Scroll down for more details.

- Go back to the previous screen and select NMMS7.E147823, the cUL listing will be displayed:



- The listings may be printed by using the Print option of the web browser.
- To obtain information regarding c-UL, scroll down to the bottom of the listing page and select "Products Certified for Canada":



A document describing the c-UL mark will be displayed.

Certificate

No: B 00 08 22021 071



Yaskawa Electric Corp.
Tokyo Plant
480 Kamifujisawa, Iruma
Saitama 358-8555
Japan

with production facility(ies)
22021 38663

is authorized to label the following products with the
certification mark E
as shown in the certification mark list. See also notes overleaf.

Product: **Elektromotoren
AC Servo Motor**

Model: **SGMAH, SGMPH Series
(See Attachment 1 for Nomenclature)**

Parameters:

Rated voltage:	100 V or 200 V
Rated input current:	0.44 A - 7.5 A
Protection class:	I
Degree of protection:	IP55

Remarks:

List of tested and certified motors as per
Attachment 2.

When installing/inserting the equipment all
requirements of the mentioned test standards must be
fulfilled.

The product meets the relevant safety requirements and was tested
according to:

IEC 60034-1:1996
IEC 60034-5:1991
IEC 60034-8:1972
IEC 60034-9:1997
EN 60034-1:1995
EN 60034-9:1997

Report No: TYOEMA03999, E - (B 00 03 22021 064)

Released with the above certificate number by the
certification body of TÜV PRODUCT SERVICE GMBH.

Department: TYOELP / YS
Date: 08-18-2000



ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ CERTIFICADO ◆ CERTIFICAT

Anlage 2 zum Zertifikat
Attachment 2 to the Certificate

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Page 1 of 2

Zertifikat Nr. /
Certificate No. **B 00 08 22021 071**

1. Σ -II Series SGMAH Type

1.1 MODEL DESCRIPTION

1.1.1 PRODUCT COVERED:

Component - AC Servo Motors, Series SGMAH, followed by any number from A3 to 08, followed by A or B, followed by 1, A, B and so on, followed by A, B or C may be followed by additional letters and or numbers.

1.1.2. ELECTRICAL RATINGS:

Model	Voltage	Phases	Amps	Watts (kw)
SGMAH-A3Axxxx	200	3	0.44	0.03
SGMAH-A3Bxxxx	100	3	0.66	0.03
SGMAH-A5Axxxx	200	3	0.64	0.05
SGMAH-A5Bxxxx	100	3	0.95	0.05
SGMAH-A8Axxxx	200	3	0.73	0.08
SGMAH-A8Bxxxx	100	3	1.9	0.08
SGMAH-01Axxxx	200	3	0.91	0.10
SGMAH-01Bxxxx	100	3	2.4	0.10
SGMAH-02Axxxx	200	3	2.1	0.20
SGMAH-02Bxxxx	100	3	3.0	0.20
SGMAH-04Axxxx	200	3	2.8	0.40
SGMAH-08Axxxx	200	3	4.4	0.75

"X" represents variations in model number as described in product covered and series nomenclature which do no affect electrical construction or rating. Reference "Product Covered" or "Series Nomenclature."

Organisationseinheit / Organization unit: 10 / EEC / Tetsuro Kushiyama / MY
Datum / Date: 2000/08/18

(Handwritten mark)

(Handwritten signature)

Anlage 2 zum Zertifikat
Attachment 2 to the Certificate

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Page 2 of 2

Zertifikat Nr. /
Certificate No. **B 00 08 22021 071**

2. Σ -II Series SGMPH Type

2.1 MODEL DESCRIPTION

2.1.1 PRODUCT COVERED:

Component - AC Servo Motors, Series SGMPH, followed by any number from A3 to 08, followed by A or B, followed by 1, A, B and so on, followed by A, B or C may be followed by additional letters and or numbers.

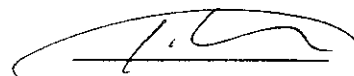
1.1.2. ELECTRICAL RATINGS:

Model	Voltage	Phases	Amps	Watts (kw)
SGMPH-A8Axxxx	200	3	0.71	0.08
SGMPH-A8Bxxxx	100	3	1.8	0.08
SGMPH-01Axxxx	200	3	0.89	0.10
SGMPH-01Bxxxx	100	3	2.2	0.10
SGMPH-02Axxxx	200	3	2.0	0.20
SGMPH-02Bxxxx	100	3	2.7	0.20
SGMPH-04Axxxx	200	3	2.6	0.40
SGMPH-08Axxxx	200	3	4.1	0.75
SGMPH-15Axxxx	200	3	7.5	1.50

"X" represents variations in model number as described in product covered and series nomenclature which do not affect electrical construction or rating. Reference "Product Covered" or "Series Nomenclature."

Organisationseinheit / Organization unit: 10 / EEC / Tetsuro Kushiyama / MY
Datum / Date: 2000/08/18

TÜV PRODUCT SERVICE GMBH, Ridlerstraße 31, D-80339 Munich, Germany




Certificate

No: B 00 01 21347 015

TÜV
PRODUCT SERVICE

Yaskawa Electric Corporation
Yahata Plant (Fukuoka)
2-1 Shiroishi Kurosaki
806-0004 Yahatanishi, Kitakyushu
Japan

with production facility(ies)
21347

is authorized to label the following products with the
certification mark E
as shown in the certification mark list. See also notes overleaf.

Product: Elektromotoren
AC Servo Motor

Model: SGMGH Series, SGMSH Series, SGMDH series
(See Attachment 1 for Nomenclature)

Parameters: Rated voltage: 200 v
Rated input power: 0.3 KW - 15 KW
Protection class: I

Remarks:
List of tested and certified motors as per
Attachment 2.

When installing/inserting the equipment all
requirements of the mentioned test standards must be
fulfilled.

The product meets the relevant safety requirements and was tested
according to:

IEC 60034-1:1996
IEC 60034-5:1991
IEC 60034-8:1972
IEC 60034-9:1997



Report No: TYOEMA04000, HA - (B 98 02 21347 010), E - (B 98 04 21347 012)

Released with the above certificate number by the
certification body of TÜV PRODUCT SERVICE GMBH.

Department: TYOELP / HI
Date: 01-13-2000

TÜV PRODUCT SERVICE GMBH · Zertifizierstelle · Ridlerstrasse 31 · D-80339 München

CERTIFICATE
CERTIFICADO
CERTIFIKAT
認証証書
CERTIFICATE
CERTIFIKAT

Anlage 1 zum Zertifikat Attachment 1 to the Certificate

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Zertifikat Nr. /
Certificate No. **B 00 01 21347 015**

Series Nomenclature

1. Standard

SGMSH - 10 A C A
a b c d e f g h

- a. Motor Series: SGMGH, SGMSH, SGMDH
b. Motor Output (kW)

Series	SGMGH		SGMSH	SGMDH
	(r / min.) 1500	(r / min.) 1000	(r / min.) 3000	(r / min.) 2000
03		0.3		
05	0.45			
06		0.6		
09	0.85	0.9		
10			1.0	
12		1.2		
13	1.3			
15			1.5	
20	1.8	2.0	2.0	
22				2.2
30	2.9	3.0	3.0	
32				3.2
40		4.0	4.0	4.0
44	4.4			
50			5.0	
55	5.5	5.5		
75	7.5			
1A	11.0			
1E	15.0			

- c. Supply Voltage
A: 200V

d. Detector

Symbol	Contents
C	Incremental (17 bit)
2	Absolute Value (17 bit)
3	Absolute Value (20 bit)

Organisationseinheit / Organization unit: 8 / TYOEMA / Tetsuro Kushiyama / MY
Datum / Date: 2000/01/13

TÜV PRODUCT SERVICE GMBH, Ridlerstraße 31, D-80339 Munich, Germany

Anlage 1 zum Zertifikat
Attachment 1 to the Certificate

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Page 2 of 4

Zertifikat Nr. /
Certificate No. **B 00 01 21347 015**

e. Design Revision Order and Rated Speed

- A: SGMGH Series (1500 r / min.)
SGMSH Series (3000 r / min.)
SGMDH Series (2000 r / min.)
- B: SGMGH Series (1000 r / min.)
- C: SGMGH Series (1500 r / min.)
For high precision machine tool
- D: SGMGH Series (1000 r / min.)
For high precision machine tool

f. Shaft Type

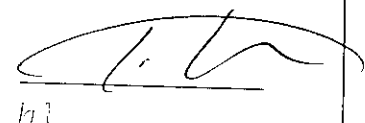
Symbol	Contents
2	Straight
4	Straight, Without Key
6	Straight, With Key and Tap
3	1/10 Conical shaft ends, With Sunk Key
5	1/10 Conical shaft ends, With Woodruff Key
8	Straight, With Tap

g. Optional parts

Symbol	Contents
F	With Oil Seal (V type)
G	With Oil Seal (V type) and With Holding Brake (DC90V)
H	With Oil Seal (V type) and With Holding Brake (DC24V)
D	With Oil Seal (S type) and With Holding Brake (DC90V)
E	With Oil Seal (S type) and With Holding Brake (DC24V)
S	With Oil Seal (S type)
1	Without Option
B	With Holding Brake (DC90V)
C	With Holding Brake (DC24V)

Organisationseinheit / Organization unit: 8 / TYOEMA / Tetsuro Kushiyama / MY
Datum / Date: 2000/01/13

TÜV PRODUCT SERVICE GMBH, Ridlerstraße 31, D-80339 Munich, Germany



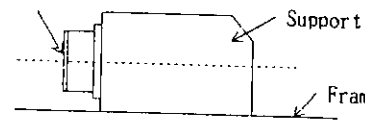
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Anlage 1 zum Zertifikat
Attachment 1 to the Certificate

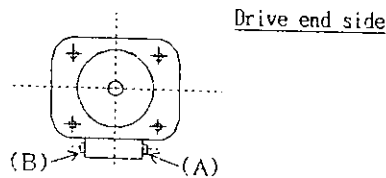
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Zertifikat Nr. /
Certificate No. **B 00 01 21347 015**

Design of connection

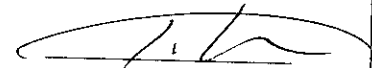
Symbol	Contents	Drawout direction * 1
Blank	Receptacle	
B	With right-angled Support Receptacle 	(A)
C		(B)
F	Cable Type 1 (See BE9359793)	(A)
G		(B)
H	Cable Type 2 (See BE9359793)	(A)
J		(B)

* 1 Drawout direction



Organisationseinheit / Organization unit: 8 / TYOEMA / Tetsuro Kushiyama / MY
Datum / Date: 2000/01/13

TÜV PRODUCT SERVICE GMBH, Ridlerstraße 31, D-80339 Munich, Germany



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Anlage 1 zum Zertifikat
Attachment 1 to the Certificate

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Page 4 of 4

Zertifikat Nr. /
Certificate No. **B 00 01 21347 015**

Exclusive Design for Customer

SGMSH - 10 A C A
a b c d e f g h i

a to d. same as standard

e. Revision Order and Rated Speed

- A: SGMGH Series (1500 r / min.)
SGMSH Series (3000 r / min.)
SGMDH Series (2000 r / min.)
- B: SGMGH Series (1000 r / min.)
- C: SGMGH Series (1500 r / min.)
For high precision machine tool
- D: SGMGH Series (1000 r / min.)
For high precision machine tool
- E: SGMGH Series (Special Rated Speed)
SGMSH Series (Special Rated Speed)
SGMDH Series (Special Rated Speed)

f, g. Customer Cord

h, i. Design Revision Order for Customer

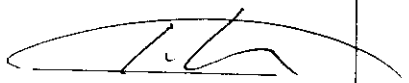
International Protection Class (IP Class)

No.	Contents	Except for drive end side (*1)	Oilseal of drive end side	
			V type	S type
1	Connection: Receptacle	IP67	IP55	IP67
2	Connection: Receptacle (With right-angled support)	IP67	IP55	IP67
3	Connection: Cable	IP55	IP55	IP55

*1. When drive end side needs IP55 or IP67, mount an oilseal.

Organisationseinheit / Organization unit: 8 / TYOEMA / Tetsuro Kushiyama / MY
Datum / Date: 2000/01/13

TÜV PRODUCT SERVICE GMBH, Ridlerstraße 31, D-80339 Munich, Germany



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EC Certificate of Conformity

No.: E9 98 06 22021 040



concerning the EMC protection requirements in accordance with Article 10 of the Council Directive 89/336/EEC on electromagnetic compatibility for

Yaskawa Electric Corporation
Tokyo Plant
480 Kamifujisawa, Iruma-Shi
Saitama 358-8555
Japan

Item Identification: Industrial Scientific and Medical Equipment
SGMAH, SGMPH series (see Attachment 1 for grouping)

Item Description: AC Servo Motors
30W-750W, 100W-1.5kW
Protection class I

Project-/TCF No.: TYOEMC04845A

This Certificate of Conformity was issued in accordance with Article 10.2 of the Council Directive 89/336 EEC on the harmonization of the laws of the Member States relating to electromagnetic compatibility. It was transposed into the "Gesetz über die elektromagnetische Verträglichkeit von Geräten vom 9. November 1992 (EMVG, § 5.2)" in Germany. This certificate does not contain any statements pertaining to the EMC protection requirements governed by other laws which serve to implement EC Directives other than the aforementioned Council Directive 89/336 EEC. This certificate or the technical report refers only to the tested sample or product family listed in the above mentioned Project-/TCF documentation.

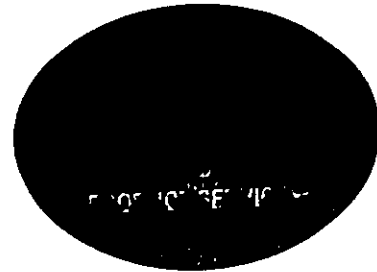
This certificate does not permit the use of a TÜV PRODUCT SERVICE certification mark on the tested product.

Released with the above mentioned certificate number by the certification body of TÜV PRODUCT SERVICE.

Robert Binder

Stv. des Leiters
der zuständigen Stelle

Department: TYOEMC/Robert Binder
Date: 02.06.1998



TÜV Product Service GmbH is Competent Body in accordance with EMC Directive 89/336/EEC (BMPT VFG. 91/1992).

ZEF FIKAT CERTIFICATE CERTIFICADO 100 BИДЕТЕЛЪСТВО

EC Certificate of Conformity

No.: E9 98 06 22021 042



concerning the EMC protection requirements in accordance with Article 10 of the Council Directive 89/336/EEC on electromagnetic compatibility for

Yaskawa Electric Corporation
Tokyo Plant
480 Kamifujisawa, Iruma-Shi
Saitama 358-8555
Japan

Item Identification: Industrial Scientific and Medical Equipment
SGMGH-**A****, SGMSH-**A**** series
(see Attachment 1 for grouping)


Item Description: AC Servo Motors
200-230VAC, 0.3-3kW
Protection class I

Project-/TCF No.: TYOEMC04847A

This Certificate of Conformity was issued in accordance with Article 10.2 of the Council Directive 89/336 EEC on the harmonization of the laws of the Member States relating to electromagnetic compatibility. It was transposed into the "Gesetz über die elektromagnetische Verträglichkeit von Geräten vom 9. November 1992 (EMVG, § 5.2)" in Germany. This certificate does not contain any statements pertaining to the EMC protection requirements governed by other laws which serve to implement EC Directives other than the aforementioned Council Directive 89/336 EEC. This certificate or the technical report refers only to the tested sample or product family listed in the above mentioned Project-/TCF documentation.

This certificate does not permit the use of a TÜV PRODUCT SERVICE certification mark on the tested product.

Released with the above mentioned certificate number by the certification body of TÜV PRODUCT SERVICE.


Robert Binder
Stv. des Leiters
der zuständigen Stelle

Department: TYOEMC/Robert Binder
Date: 02.06.1998



TÜV Product Service GmbH is Competent Body in accordance with EMC Directive 89/336/EEC (BMPT VFG. 91/1992).

Anlage 1 zum Zertifikat
Attachment 1 to the Certificate

Zertifikat Nr. /
Certificate No. **E9 98 06 22021 042**

<Grouping>

SGMGH-03A*A***,
SGMGH-05A*A***, SGMGH-09A*A***, SGMGH-13A*A***,
SGMGH-20A*A***, SGMGH-30A*A***, SGMGH-03A*B***,
SGMGH-06A*B***, SGMGH-09A*B***, SGMGH-12A*B***,
SGMGH-20A*B***, SGMGH-30A*B***, SGMGH-40A*B***,
SGMGH-44A*A***, SGMGH-55A*A***, SGMGH-55A*B***,
SGMGH-75A*A***

SGMSH-10A*****, SGMSH-15A*****, SGMSH-20A*****,
SGMSH-30A*****, SGMSH-40A*****, SGMSH-50A*****,

SGMDH-22A*****, SGMDH-32A*****, SGMDH-40A*****

SGM*H-***P*****,
SGMGH-30ACA-AM11, SGMGH-44ACA-AM12,
SGMGH-55ACA-AM12, SGMGH-75ACA-AM13,
SGMGH-1AACA-AM11

Total: 32



EC Certificate of Conformity

No.: E9 01 07 22021 097



concerning the EMC protection requirements in accordance with Article 10 of the Council Directive 89/336/EEC on electromagnetic compatibility for

Yaskawa Electric Corporation
Tokyo Plant
480 Kamifujisawa, Iruma-Shi
Saitama 358-8555
Japan

Item Identification: Industrial Scientific and Medical Equipment
SGDG Series
(See attachment 1 for grouping)

Item Description: AC Servo Amplifier
Protection class I

Project-/TCF No.: TYOEMC11237A

This Certificate of Conformity was issued in accordance with Article 10.2 of the Council Directive 89/336 EEC on the harmonization of the laws of the Member States relating to electromagnetic compatibility. It was transposed into the "Gesetz über die elektromagnetische Verträglichkeit von Geräten vom 9. November 1992 (EMVG, § 5.2)" in Germany. This certificate does not contain any statements pertaining to the EMC protection requirements governed by other laws which serve to implement EC Directives other than the aforementioned Council Directive 89/336 EEC. This certificate or the technical report refers only to the tested sample or product family listed in the above mentioned Project-/TCF documentation.

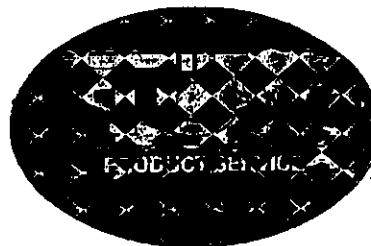
This certificate does not permit the use of a TÜV PRODUCT SERVICE certification mark on the tested product.

Released with the above mentioned certificate number by the certification body of TÜV PRODUCT SERVICE.

RB RB
Robert Binder

Siv. des Leiters
der zuständigen Stelle
TYOEMC/Robert Binder
09.07.2001

Department:
Date:



TÜV Product Service GmbH is Competent Body in accordance with EMC Directive 89/336/EEC (BMPT VFG. 91/1992).



Anlage 1 zum Zertifikat Certificate Attachment 1

Seite 1 von 1
Page 1 of 1

Zertifikat Nr./
Certificate No. **E9 01 07 22021 097**

<u>Model</u>	<u>Voltage</u>	<u>Power</u>
SGDG-01GT	AC90V-AC253V	0.1kW
SGDG-04GT	AC90V-AC253V	0.4kW
SGDG-10GT	AC90V-AC253V	1.0kW
SGDG-15GT	AC90V-AC253V	1.5kW
SGDG-A3AP	AC200V-AC220V	0.03kW
SGDG-A5AP	AC200V-AC220V	0.05kW
SGDG-01AP	AC200V-AC220V	0.1kW
SGDG-02AP	AC200V-AC220V	0.2kW
SGDG-04AP	AC200V-AC220V	0.4kW
SGDG-08AP	AC200V-AC220V	0.8kW
SGDG-A3FP	AC100V-AC115V	0.03kW
SGDG-A5FP	AC100V-AC115V	0.05kW
SGDG-01FP	AC100V-AC115V	0.1kW
SGDG-02FP	AC100V-AC115V	0.2kW
SGDG-04FP	AC100V-AC115V	0.4kW

Total: 15

Organisationseinheit / Organization unit: TYOEMC / Robert Binder / JH
Datum / Date: 7/9/01

TÜV PRODUCT SERVICE GMBH, Rüdlerstrasse 65, D-80339 Munich, Germany

Certificate

No: B 01 06 22021 095



Yaskawa Electric Corp.
 Tokyo Plant
 480 Kamifujisawa, Iruma
 Saitama 358-8555
 Japan

with production facility(ies)
 22021

is authorized to label the following products with the
TÜV Mark E20.
 Please see notes overleaf.

Product: Geschwindigkeitsgeregelte Servoantriebe
 AC Servo Amplifiers

Model: SGD8-***** Series
 (See Attachment 1)

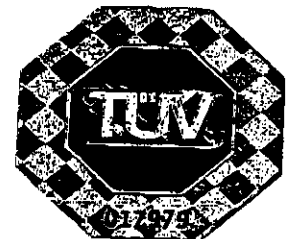
Parameters:

Rated voltage:	AC 90 - 253 V
Rated frequency:	50 / 60 Hz
Rated input current:	1.0 A - 16 A
Protection class:	I

Remark:
 When installing/inverting the equipment all
 requirements of the mentioned test standard must be
 fulfilled.

The compliance of the above-mentioned product with the following essential requirements
 was tested on a voluntary basis:

EN 50178:1997



Report No: TYOMAE10197

Released with the above certificate number by the
 certification body of TÜV PRODUCT SERVICE GMBH.

Department: TYOELP / YS
 Date: 28-Jun-2001

TÜV PRODUCT SERVICE GMBH · Zertifizierstelle · Ridlerstrasse 65 · D-80339 München



Anlage 1 zum Zertifikat Certificate Attachment 1

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Page 1 of 5

Zertifikat Nr./
Certificate No. **B 01 06 22021 095**

Type SGDG-** GT Series

Model	Item Description	
SGDG-01GT	90 ~ 253VAC	0.1 KW
SGDG-04GT	90 ~ 253VAC	0.4 KW
SGDG-10GT	90 ~ 253VAC	1.0 KW
SGDG-15GT	90 ~ 253VAC	1.5 KW

Type SGDG-** P Series

SGDG-A3AP	200 ~ 220VAC	0.03 KW
SGDG-A5AP	200 ~ 220VAC	0.05 KW
SGDG-01AP	200 ~ 220VAC	0.1 KW
SGDG-02AP	200 ~ 220VAC	0.2 KW
SGDG-04AP	200 ~ 240VAC	0.4 KW
SGDG-08AP	200 ~ 240VAC	0.8 KW
SGDG-A3FP	100 ~ 115VAC	0.03 KW
SGDG-A5FP	100 ~ 115VAC	0.05 KW
SGDG-01FP	100 ~ 115VAC	0.1 KW
SGDG-02FP	100 ~ 115VAC	0.2 KW
SGDG-04FP	100 ~ 115VAC	0.4 KW

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Nomenclature

SGDG - ****** ***** ***** ***** ****** ********
(A) (B) (C) (D) (E) (F) (G)

A : Servopack series	Σ -II series, Input Voltage is wide range. (90 ~ 253VAC)
B: Maximum Applicable Motor Capacity	Table-1 (Group)
C: Input Voltage	G= 90 ~ 253VAC A= 200 ~ 220VAC F= 100 ~ 115VAC
D: Model	T= Torque control P= Position control
E: Design Order	Blank= Original Version
F: Option specification - 1	Table-2 (Group)
G: Option specification - 2	Table-3 (Group)

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Table 1

(Group)	Rated Output Power of Max. Applicable Motor capacity
A3	0.03 KW
A5	0.05 KW
01	0.10 KW
02	0.20 KW
04	0.40 KW

Table 2

(Group)	Option specification-1
blank	Standard
- R	Rack mount type
- V	PCB Board Coating (varnish)
- P	Duct ventilation type

Table-3

(Group)	Option specification 2	Difference from Standard Model
blank		Standard
Y***P		User's parameter are changed for the customer.
Y***S		Software and user's parameter are changed for the customer.
Y***H		Hardware, software and parameter are changed for the customer.

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Zertifikat Nr./
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Nomenclature

SGDG - $\frac{**}{(A)}$ $\frac{*}{(B)}$ $\frac{*}{(C)}$ $\frac{*}{(D)}$ $\frac{*}{(E)}$ $\frac{**}{(F)}$ $\frac{****}{(G)}$

A : Servopack series	Σ -II series, Input Voltage is wide range. (90 - 253VAC)
B: Maximum Applicable Motor capacity	Table-1 (Group)
C: Input voltage	G= 90 - 253V3AC A= 200 - 220V3AC
D: Model	T= Torque Control P= Position Control
E: Design Order	Blank =Original Version
F: Option specification - 1	Table-2 (Group)
G: Option specification - 2	Table-3 (Group)

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Zertifikat Nr./
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Table 1

(Group)	Rated Output Power of Max. Applicable Motor capacity
08	0.8 KW
10	1.0 KW
15	1.5 KW

Table 2

(Group)	Option specification-1
blank	Standard
- R	Rack mount type
- V	PCB Board Coating (varnish)
- P	Duct ventilation type

Table-3

(Group)	Option specification 2	
		Difference from Standard Model
blank		Standard
Y***P		User's parameter are changed for the customer.
Y***S		Software and user's parameter are changed for the customer.
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