

**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/>.

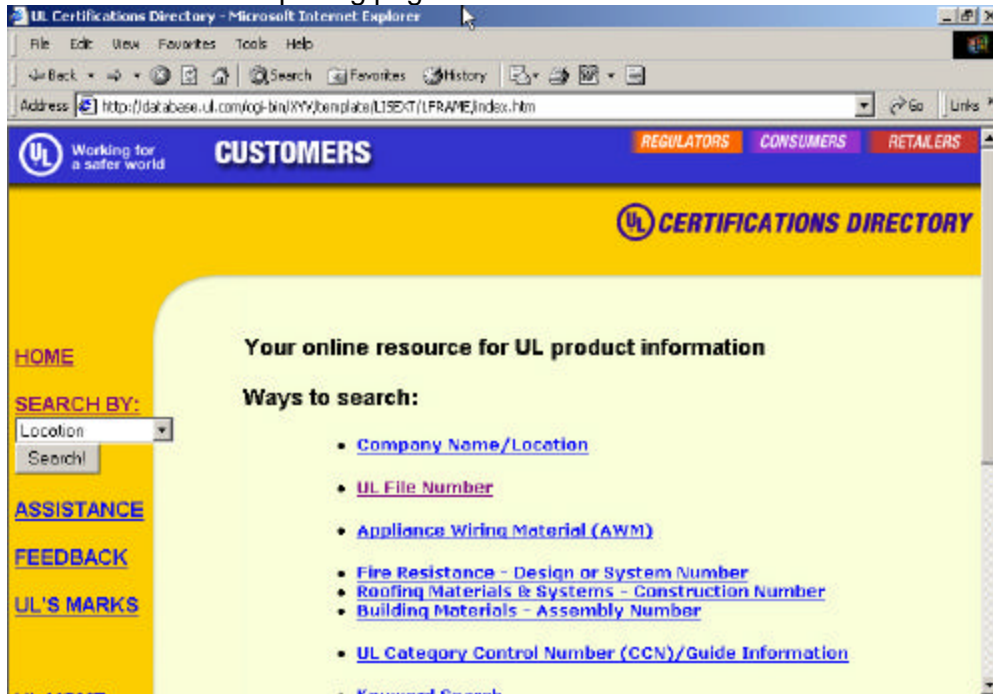
The chart below shows the UL file numbers and product categories for Yaskawa servo products:

	<u>UL</u>	<u>c-UL</u>
<b>Motors</b>	File #: E165827 Category: PRGY2	E165827 PRGY8
<b>Amplifiers &amp; Application Modules &amp; Accessories</b>	File #: E147823 Category: NMMS	E147823 NMMS7
<b>Motion Controllers</b> (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:

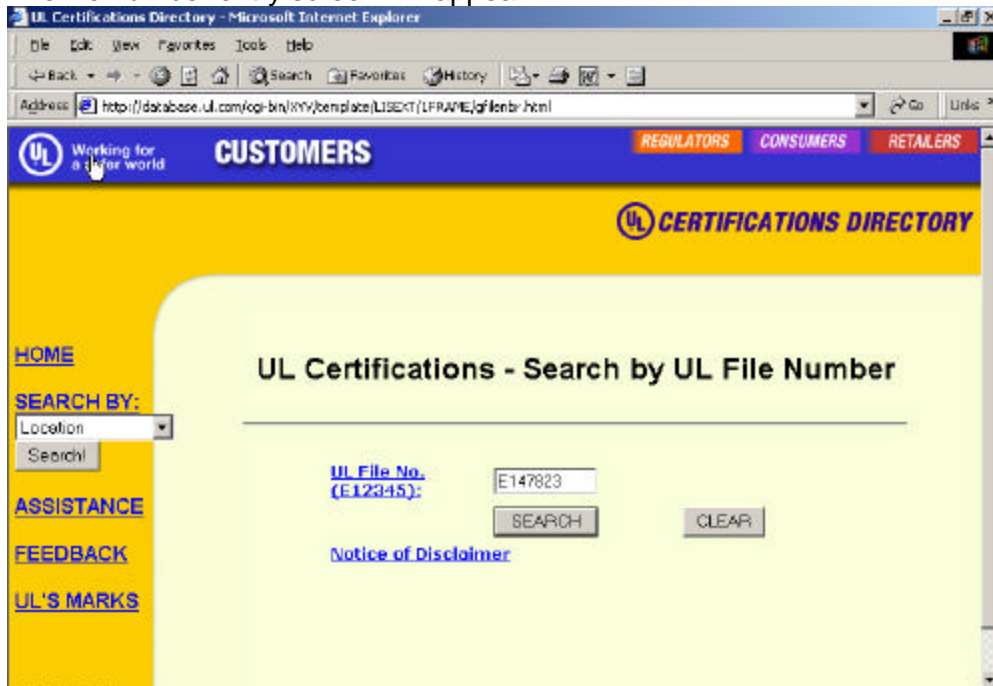
1. Log on to the UL website at <http://www.ul.com/database/>

2. You should see the opening page as below:



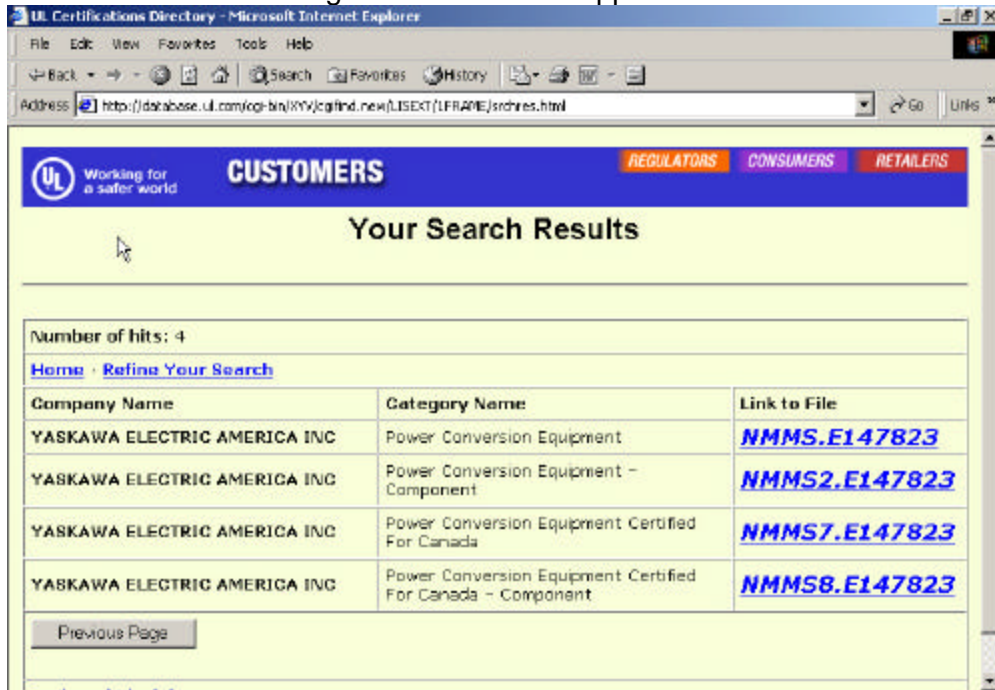
Select "UL File Number",

3. The file number entry screen will appear:



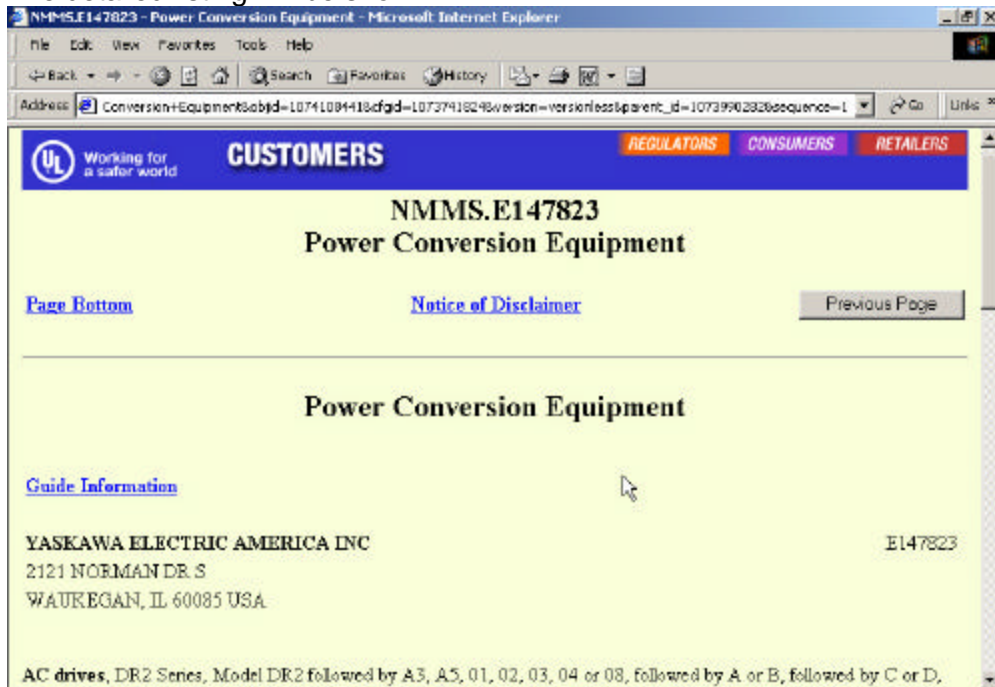
Enter the file number, e.g. E147823, and select "Search",

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.



# 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

Seite 1 von 2  
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 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

**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.  $\Sigma$ -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



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

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

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### 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

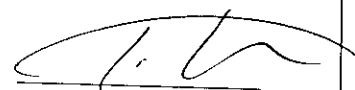
Symbol	Contents
2	Straight
4	Straight, Without Key
6	Straight, With Key and Tap
3	1/10 Conical shaft ends, With Sunk Key
5	1/10 Conical shaft ends, With Woodruff Key
8	Straight, With Tap

### 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



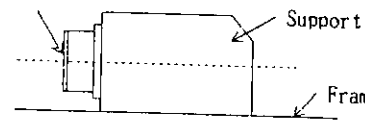
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Anlage 1 zum Zertifikat  
Attachment 1 to the Certificate

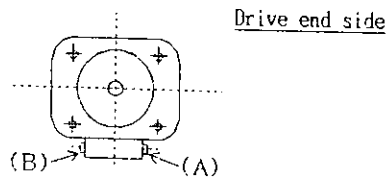
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Zertifikat Nr. /  
Certificate No. **B 00 01 21347 015**

Design of connection

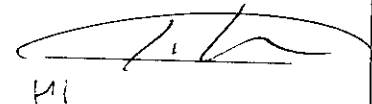
Symbol	Contents	Drawout direction * 1
Blank	Receptacle	
B	With right-angled Support Receptacle 	(A)
C		(B)
F	Cable Type 1 (See BE9359793)	(A)
G		(B)
H	Cable Type 2 (See BE9359793)	(A)
J		(B)

\* 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

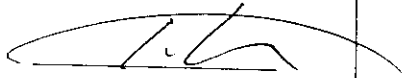
**International Protection Class (IP Class)**

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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# Certificate

No: B 00 01 21347 016

9/16  
**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: SGMG, SGMS, SGMGH, SGMSH, SGMUH Series  
(See Attachment 1 for tested and certified motors)

Parameters: Rated voltage: 400 V  
Protection class: I  
Degree of protection: IP55 (V type)  
IP67 (S type)

Remark:

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

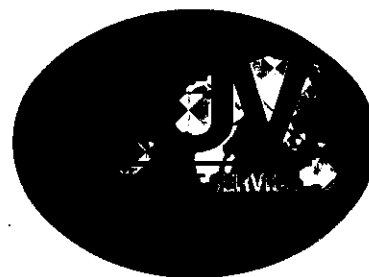
The product meets the relevant safety requirements and was tested  
according to:

IEC 60034-1:1996  
IEC 60034-5:1991  
IEC 60034-8:1972  
IEC 60034-9:1990

Report No: TYOEMA03650, E - (B 99 01 21347 014)

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

Department: TYOELP / HI  
Date: 01-24-2000



# Σ-II Series

## MODEL DESCRIPTION

### 1.1 PRODUCT COVERED:

Component-AC Servo Motors, Series SGMGH, SGMSH, followed by any number from 05 to 1E, followed by A, followed by 2, C, and so on, followed by X, may be followed by additional letters and/or numbers.

### 1.2 ELECTRICAL RATINGS:

#### 1.2.1 SGMGH Series

<u>Model</u>	<u>Voltage</u>	<u>Phases</u>	<u>Watts (kW)</u>
SGMGH-05Dxxxxx	400	3	0.45
SGMGH-09Dxxxxx	400	3	0.85
SGMGH-13Dxxxxx	400	3	1.3
SGMGH-20Dxxxxx	400	3	1.8
SGMGH-30Dxxxxx	400	3	2.9
SGMGH-44Dxxxxx	400	3	4.4
SGMGH-55Dxxxxx	400	3	5.5
SGMGH-75Dxxxxx	400	3	7.5
SGMGH-1ADxxxxx	400	3	11
SGMGH-1EDxxxxx	400	3	15

#### 1.2.2 SGMSH Series

<u>Model</u>	<u>Voltage</u>	<u>Phases</u>	<u>Watts (kW)</u>
SGMSH-10Dxxxxx	400	3	1.0
SGMSH-15Dxxxxx	400	3	1.5
SGMSH-20Dxxxxx	400	3	2.0
SGMSH-30Dxxxxx	400	3	3.0
SGMSH-40Dxxxxx	400	3	4.0
SGMSH-50Dxxxxx	400	3	5.0

#### 1.2.3 SGMUH Series

<u>Model</u>	<u>Voltage</u>	<u>Phases</u>	<u>Watts (kW)</u>
SGMUH-10Dxxxxx	400	3	1.0
SGMUH-15Dxxxxx	400	3	1.5
SGMUH-30Dxxxxx	400	3	3.0
SGMUH-40Dxxxxx	400	3	4.0

"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".



Reviewed  
1999-11-01  
ML

# Certificate

No: B 01 02 21347 020



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: SGMB Series, SGMBH Series  
(See Attachment 1 for Nomenclature)

Parameters: Rated voltage: AC 200 V, 400 V  
Rated input current: 22kW - 55kW  
Protection class: I

Remark:

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:

EN 60034-1/A1:1998  
EN 60034-5:1991  
EN 60034-8/A2:1996  
EN 60034-9:1997  
EN 60034-11:1979

Report No: TYOMAE07020, E - (B 00 04 21347 018)

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

Department: TYOELP / YS  
Date: 02-01-2001

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



ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT ◆ 認証証書 ◆ CERTIFICATE ◆ ZERTIFIKAT

# Certificate

No: B 01 03 22021 087

**TÜV**  
PRODUCT SERVICE

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

with production facility(ies)  
22021 38373

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

Product: Geschwindigkeitsgeregelte Servoantriebe  
AC Servo Amplifiers

Model: SGDM Series, SGDH-\*\*\*E\*\*\*\*\* Series,  
SGDP-\*\*\*P\*\*\*\*\* Series, SGDH-\*\*DE\*\*\*\*\* Series,  
SGDP-\*\*\*PA\*\*\*\*\* Series (See Attachment 1)

Parameters: Rated voltage: AC 100 - 115 V  
AC 200 - 230 V  
AC 380 - 480 V  
Rated frequency: 50 / 60 Hz  
Rated input current: 1 - 81 A  
Protection class: I

Remarks:

1. See Attachment 1 for Nomenclature
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:

EN 50178:1997

Report No: TYOEMA07144, E - (B 00 10 22021 078)

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

Department: TYOELP / YS  
Date: 03-13-2001



ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFIKAT ◆ 認 証 証 書 ◆



Type SGD H - \* \* \* E ( Σ - Π ) series

99 02 22021 051

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7 12

MODEL:


Item Description:

SGDH-A3BE * * * * *	100V	0.03 [KW]
SGDH-A5BE * * * * *	100V	0.05 [KW]
SGDH-01BE * * * * *	100V	0.10 [KW]
SGDH-02BE * * * * *	100V	0.20 [KW]
SGDH-A3AE * * * * *	200V	0.03 [KW]
SGDH-A5AE * * * * *	200V	0.05 [KW]
SGDH-01AE * * * * *	200V	0.10 [KW]
SGDH-02AE * * * * *	200V	0.20 [KW]
SGDH-04AE * * * * *	200V	0.40 [KW]
SGDH-05AE * * * * *	200V	0.50 [KW]
SGDH-08AE * * * * *	200V	0.75 [KW]
SGDH-10AE * * * * *	200V	1.0 [KW]
SGDH-15AE * * * * *	200V	1.5 [KW]
SGDH-20AE * * * * *	200V	2.0 [KW]
SGDH-30AE * * * * *	200V	3.0 [KW]
SGDH-50AE * * * * *	200V	5.0 [KW]
SGDH-60AE * * * * *	200V	6.0 [KW]
SGDH-75AE * * * * *	200V	7.5 [KW]
SGDH-05DE * * * * *	400V	0.5 [KW]
SGDH-10DE * * * * *	400V	1.0 [KW]
SGDH-15DE * * * * *	400V	1.5 [KW]
SGDH-20DE * * * * *	400V	2.0 [KW]
SGDH-30DE * * * * *	400V	3.0 [KW]



**REVIEWED**

12 FEB 1999

SIG. 

# 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.

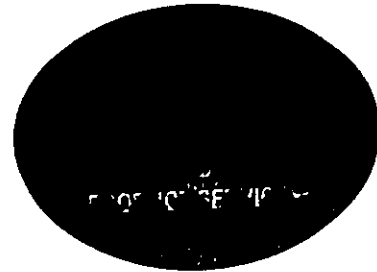
This certificate does not permit the use of a TÜV PRODUCT SERVICE certification mark on the tested product.

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 98 09 22021 045



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  
SGDM-\*\*\*DA, SGDH-\*\*\*E series  
(see Attachment 1 & 2 for grouping)

**Item Description:** AC Servo Amplifier (AC SERVOPACK)  
100-115VAC, 200-230VAC, 30W-3kW  
Protection class I

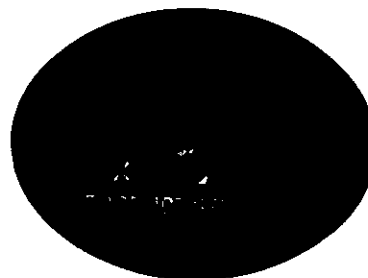
**Project-/TCF No.:** TYOEMC05309A

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*  
**Robert Binder**  
Stv. des Leiters  
der zuständigen Stelle



**Department:** TYOEMC/Robert Binder  
**Date:** 09.09.1998

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

ZERTIFIKAT · CERTIFICATE · CERTIFICADO · СВИДЕТЕЛЬСТВО

Anlage 1 zum Zertifikat  
Attachment 2 to the Certificate

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Page 2 of 2

Zertifikat Nr. /  
Certificate No. **E9 98 09 22021 045**

Grouping:

<u>Model</u>	<u>Voltage</u>	<u>Watts (kW)</u>
SGDH-A3BE*****	100	0.03
SGDH-A5BE*****	100	0.05
SGDH-01BE*****	100	0.10
SGDH-02BE*****	100	0.20
SGDH-A3AE*****	200	0.03
SGDH-A5AE*****	200	0.05
SGDH-01AE*****	200	0.10
SGDH-02AE*****	200	0.20
SGDH-04AE*****	200	0.40
SGDH-05AE*****	200	0.50
SGDH-08AE*****	200	0.75
SGDH-10AE*****	200	1.0
SGDH-15AE*****	200	1.5
SGDH-20AE*****	200	2.0
SGDH-30AE*****	200	3.0
SGDM-**AD*-S****	200	see above power ratings
SGDH-**AE-S****	200	see above power ratings

Sub total: 17

Organisationseinheit / Organization unit: Yaskawa Electric Corporation  
Datum / Date: 1998/12/09 modified

  
Robert Binder

**Anlage 1 zum Zertifikat**  
 Attachment 1 to the Certificate

Seite 1 von 2  
 Page 1 of 2

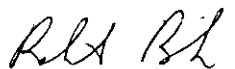
Zertifikat Nr. /  
 Certificate No. **E9 98 09 22021 045**

**Grouping:**

<u>Model</u>	<u>Voltage</u>	<u>Watts (kW)</u>
SGDM-A3BDA*****	100	0.03
SGDM-A5BDA*****	100	0.05
SGDM-01BDA*****	100	0.10
SGDM-02BDA*****	100	0.20
SGDM-A3ADA*****	200	0.03
SGDM-A5ADA*****	200	0.05
SGDM-01ADA*****	200	0.10
SGDM-02ADA*****	200	0.20
SGDM-04ADA*****	200	0.40
SGDM-05ADA*****	200	0.50
SGDM-08ADA*****	200	0.75
SGDM-10ADA*****	200	1.0
SGDM-15ADA*****	200	1.5
SGDM-20ADA*****	200	2.0
SGDM-30ADA*****	200	3.0

Sub total: 15

Organisationseinheit / Organization unit: Yaskawa Electric Corporation  
 Datum / Date: 1998/11/10 modified

  
 Robert Binder



# EC Certificate of Conformity



No.: E9 99 12 22021 060

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  
SGDM Series  
SGDH Series  
(see attachment for grouping)

Item Description: AC Servo Amplifier  
Protection class I

Project-/TCF No.: TYOEMC07603A

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*  
Robert Binder  
Stv. des Leiters  
der zuständigen Stelle



Department: TYOEMC/Robert Binder  
Date: 10.12.1999

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

ZERTIFIKAT · CERTIFICATE · CERTIFICADO · СВИДЕТЕЛЬСТВО

**Anlage 1 zum Zertifikat**  
**Attachment 1 to the Certificate**

Seite 1 von 1  
Page 1 of 1

Zertifikat Nr. /  
Certificate No. **E9 99 12 22021 060**

<Model>	<Voltage>	<Power>
<Model>	<Voltage>	<Power>
SGDM-50ADA*****	200V	5.0kW
SGDM-60ADA*****	200V	6.0kW
SGDM-75ADA*****	200V	7.5kW
SGDH-50AE*****	200V	5.0kW
SGDH-60AE*****	200V	6.0kW
SGDH-75AE*****	200V	7.5kW
SGDH-05DE*****	400V	0.5kW
SGDH-10DE*****	400V	1.0kW
SGDH-15DE*****	400V	1.5kW
SGDH-20DE*****	400V	2.0kW
SGDH-30DE*****	400V	3.0kW
SGDH-50DE*****	400V	5.0kW
SGDH-60DE*****	400V	6.0kW
SGDH-75DE*****	400V	7.5kW
SGDH-1ADE*****	400V	11kW
SGDH-1EDE*****	400V	15kW

Total: 16

Organisationseinheit / Organization unit: Yaskawa Electric Corporation / Robert Binder  
Datum / Date: 1999/12/08

