



Product Service

CERTIFICATE

No. Z10 022733 0055 Rev. 00

Holder of Certificate: **Yaskawa Electric Corporation**
Inverter Plant
 2-13-1 Nishimiyaichi
 Yukuhashi, Fukuoka
 824-8511 JAPAN

Certification Mark:



Product: **AC Servo Systems**
AC Inverter

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: YF88941T

Valid until: 2024-11-14

Date, 2019-11-19 (Peter Weiß)



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Parameters:

Rated voltage: 200 to 240V3ac
 380 to 460V3ac
 460 to 480V3ac

Rated frequency: 50/60Hz

Rated input current: see next pages

Overvoltage category: III

Protective class: I

Safety function: STO SIL 3 acc. to EN 61800-5-2
 SIL 3 acc. to IEC/EN 61508
 SILCL 3 acc. to IEC/EN 62061
 Cat. 3, PL e, acc. to
 ISO/EN ISO 13849-1

Tested according to:

IEC 61508-1:2010
 IEC 61508-2:2010
 IEC 61508-3:2010
 EN 61508-1:2010
 EN 61508-2:2010
 EN 61508-3:2010
 ISO 13849-1:2015
 EN ISO 13849-1:2015
 IEC 62061:2005
 IEC 62061:2005/AMD1:2012
 IEC 62061:2005/AMD2:2015
 EN 62061:2005/A2:2015
 EN 61800-5-1:2007
 EN 61800-5-2:2007
 IEC 61000-6-7:2014
 EN 61000-6-7:2015

Factory(ies):

038663, 076296, 051347, 063989, 042802

Model(s)

GA700/GA800/CH700/CR700 Series

CIPR - **** * * *** * * * * - * * * * * - ****
 A - B C D E F G H I - J K L M N O - P

From A to I: Basic Code

From J to O: Optional Code
(Control terminal, Option cards, Keypad and software setting. Not related to LVD.)

P: Custom Code
(Custom software and initial software setting. Not related to LVD.)

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Basic Code

A: General purpose Inverter

Group	Model
CIPR	Yaskawa new generation inverter

B: Basic name of Inverter Series

Group	Model
GA70	GA700 General purpose inverter series
GA80	GA800 General purpose inverter series
CH70	CH700 Inverter series for crane and hoist
CR70	CR700 Inverter series for crane and hoist

C: Regional specification for initial software setting

Group	Model
A	Japan spec.
B	China spec.
C	Europe spec.
D	India spec.
U	America spec.
T	Asia (YSP, YTW) spec.
K	Korea spec.
X	China X model
Z	Exclusive model Z

D: Rated Voltage

Group	Model
2	200V 3-phase
4	400V 3-phase
T	400V 6-phase

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E: Rated output current for D:2 (200V 3phase)

Frame	Group		Heavy Duty		Normal Duty*	
	GA700 Series	CH700/CR700 Series*	Input Current [A]	Output Current [A]	Input Current [A]	Output Current [A]
A1	004	003	3.6	3.5	4.8	4.2
	006	005	4.8	5	6.7	6
	008	-	6.7	6.9	8.9	8
	010	008	8.9	8	12.7	9.6
	012	011	12.7	11	17	12.2
	018	014	17	14	20.7	17.5
	021	018	20.7	17.5	30	21
	030	025	30	25	40.3	30
	042	033	40.3	33	52	42
A2	056	047	58.2	47	78.4	56
A3	070	060	78.4	60	96.0	70
	082	075	96	75	113.5	82
A4	110	088	82	88	110.7	110
A6	138	115	111	115	135.8	138
A7	169	145	136	145	164.3	169
	211	180	164	180	199.8	211
A9	257	215	200	215	270.6	257
	313	283	271	283	323.5	313
A10	360	346	324	346	394	360
	415	415	394	415	-	-

*: CH700/CR700 series are not assumed to use the normal duty ratings

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E: Rated output current for D:4 (400V 3phase / T(400V 6phase)<5>)

Input Voltage		380V to 460V				460V to 480V				
Frame	Group		Heavy Duty		Normal Duty*		Heavy Duty		Normal Duty*	
	GA700/ GA800 Series	CH700/ CR700 Series*	Input Current [A]	Output Current [A]	Input Current [A]	Output Current [A]	Input Current [A]	Output Current [A]	Input Current [A]	Output Current [A]
A1	002	002	1.9	1.8	2.5	2.1	1.6	1.6	2.1	2.1
	004	003	3.5	3.4	4.7	4.1	2.9	3.0	3.9	3.4
	005	005	4.7	4.8	6.7	5.4	3.9	3.4	5.5	4.8
	007	006	6.7	5.5	8.9	7.1	5.5	4.8	7.4	6.9
	009	007	8.9	7.2	11.7	8.9	7.4	6.9	9	7.6
	012	009	11.7	9.2	15.8	11.9	9.0	7.6	13.1	11
	018	015	15.8	14.8	21.2	17.5	13.1	11	17.5	14
A2	023	018	21.2	18	30.6	23.4	17.5	14	25.3	21
	031	024	30.6	24	41.3	31	25.3	21	34.1	27
A3	038	031	41.3	31	50.5	38	34.1	27	41.7	34
	044	039	50.5	39	59.7	44	41.7	34	49.4	40
A4	060	045	43.1	45	58.3	59.6	35.6	40	48.1	52
	075	060	58.3	60	71.5	74.9	48.1	52	59	65
A6	089	075	71.5	75	86.5	89.2	59	65	71.4	77
	103	091	86.5	91	105.2	103	71.4	77	86.9	96
A7	140	112	105	112	142.4	140	86.9	96	117.7	124
	168	150	142	150	170.3	168	117.7	124	140.7	156
A9	208	180	170	180	207.3	208	140.7	156	171.3	180
	250	216	207	216	248	250	171.3	180	232.3	240
	296 or 302	260	248	260	299.6	302	232.3	240	289.3	302
A10	371	304	300	304	373	371	289	302	346	361
	389 or 414	371	373	371	410	389 or 414	346	361	403	414
A11	453 or 477	414	410	414	465	447	403	414	460	477
	568	453	465	477	584	568	460	477	516	515
	-	515	520	515	-	-	520	515	-	-
	675 or 605	605	584	605	657	675	516	515	573	605
	720	-	584	605	684	720	573	605	686	720

*: CH700/CR700 series are not assumed to use the normal duty ratings

F: EMC filter option

Group	Model	Note
A	No built-in filter	--
B	C3 built-in	--
C	C2 built-in	--

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G: Enclosure

Group	Model	Note
A	IP00	6-phase input model only
B	IP20	3-phase input model only
F	IP20, UL Type 1	--
J	Finless	CIPRGA70*4250AJ** only
W	IP55, UL Type12 READY (back side type)	--

H: Environmental Specification

Group	Model	Note
A	Standard (Conformal coating PCB)	--
B to Z	Put any alphabet for a Environmental Specification	--

I: Design Spec

Group	Comment	Note
A to Z	Put any alphabet for a design Spec	--

Optional Code

J: Control terminal option

Group	Comment	Note
A to Z	Put any alphabet for a Control terminal setting.	--

K: Option setting in slot A

Group	Comment	Note
A to Z	Put any alphabet for a Option setting in slot A	--

L: Option setting in slot B

Group	Comment	Note
A to Z	Put any alphabet for a Option setting in slot B	--

M: Option setting in slot C

Group	Comment	Note
A to Z	Put any alphabet for a Option setting in slot C	--

N: Keypad option

Group	Comment	Note
A to Z	Put any alphabet for a Keypad option	--

O: Sub-application software setting

Group	Comment	Note
A to Z	Put any alphabet for a Sub-application software	--

Custom Code

P: Custom setting

Group	Comment	Note
0000 to 9999	Put any numeric for a Custom setting.	--

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認證書



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Rated Input Current

GA700/GA800/CH700/CR700 Series			
Frame	Input Voltage		
	200 to 240V3ac	380 to 460V3ac	460 to 480V3ac
A1	3.6 to 40.3A	1.9 to 21.2A	1.6 to 17.5A
A2	58.2A	30.6 to 41.3A	25.3 to 34.1A
A3	78.4 to 96A	43.1 to 50.5A	35.6 to 41.7A
A4	82A	58.3A	48.1A
A6	111A	71.5 to 86.5A	59 to 71.4A
A7	136 to 164A	105 to 142A	86.9 to 117.7A
A9	200 to 271A	170 to 248A	140.7 to 232.3A
A10	324 to 394A	300 to 373A	289 to 346A
A11	-	410 to 584A	403 to 573A

GA700/GA800 Series		
Frame	Input Voltage	
	380 to 460V6ac	460 to 480V6ac
A1	-	-
A2	-	-
A3	-	-
A4	-	-
A6	86.5A	71.4A
A7	105 to 142A	86.9 to 117.7A
A9	170 to 248A	140.7 to 232.3A
A10	300 to 373A	289 to 346A
A11	410 to 584A	403 to 573A

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Zertifizierungsvertrag

Grundlage für die Zertifikatserteilung ist die Prüf- und Zertifizierungsordnung von TÜV SÜD Product Service.

Mit Erhalt des Zertifikates erkennt der Zertifikatsinhaber die jeweils gültige Fassung der Prüf- und Zertifizierungsordnung an (www.tuev-sued.de/ps_regulations) und wird somit Partner im Zertifiziersystem von TÜV SÜD Product Service.

Prinzipielle Voraussetzung für die Gültigkeit des Zertifikates:

- Gültigkeit der zitierten normativen Prüfgrundlage(n) ist gegeben und zusätzlich bei Zertifikaten mit Berechtigung zur Verwendung eines Prüfzeichens bzw. bei Zertifikaten für QM-Systeme:
- Voraussetzungen für vorschriftsmäßige Fertigung werden eingehalten.
- Die Fertigungs- bzw. Betriebsstätten werden regelmäßig überwacht.

Certification contract

Certification is based on the TÜV SÜD Product Service Testing and Certification Regulations. On receipt of the certificate the certificate holder agrees to the current version of the Testing and Certification Regulations (www.tuv-sud.com/ps_regulations) and thus becomes partner in the TÜV SÜD Product Service Certification System.

Requirements for the validity of the certificate in principle:

- Validity of the quoted test standard(s) In addition, for certificates with the right to use a certification mark and for QM certificates:
- Conditions for an adequate manufacturing are maintained
- Regular surveillance of the facility is performed

认证合约

认证基于 TÜV SÜD 产品服务《测试及认证准则》。获得证书即表明证书持有者接受当前版本的《测试及认证准则》（见 www.tuv-sud.com/ps_regulations）并成为 TÜV SÜD 产品服务认证系统内的合作伙伴。

维持证书有效性的原则要求：

- 认证所依据标准的有效性
- 此外，对于授权可使用认证标志的证书和质量管理体系证书：
- 保持充分的生产条件
 - 生产场地通过定期的监督

認証契約

認証は TÜV SÜD Product Service の試験認証規約に基づく。認証書保持者は認証書を受領することにより最新の試験認証規約(www.tuv-sud.com/ps_regulations)に同意したものとする。その結果、TÜV SÜD Product Service 認証システムのパートナーとなる。

認証書の有効性に関する原則的な要求事項

- 引用している試験規格が有効である
- さらに認証マークの使用を許諾された認証書や品質マネジメント認証書は：
- 適切な製造の条件を維持している
 - 定期的な工場監査を実施している

Contrato de certificação

A certificação se baseia nos Regulamentos de Testes e Certificação do Grupo TÜV SÜD. Ao receber o certificado, o Fornecedor, titular do certificado concorda com a versão atual dos Regulamentos de Testes e Certificação do Grupo TÜV SÜD (www.tuv-sud.com/ps_regulations) e assim, torna-se parceiro no Sistema de Certificação de Produtos e Serviços TÜV SÜD.

Requisitos para a validade do certificado (em princípio):

- Validade da(s) norma(s) de ensaio(s) referenciada(s).
- Adicionalmente, para os certificados com o direito ao uso da marca de certificação e para certificados de SG:
- Condições de fabricação adequada estão mantidas.
 - Auditoria de monitoração realizada regularmente.