



Product Service

# CERTIFICATE

No. Z10 022733 0055 Rev. 08

**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. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** YY98099C

**Valid until:** 2029-02-23

**Date,** 2024-05-27

( Thomas Kreten )



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**Parameters:**

Rated voltage:	200 to 240 V3AC 380 to 460 V3AC 460 to 480 V3AC
Rated frequency:	50/60 Hz
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 Maximum SIL 3 acc. to EN IEC 62061 Cat. 3, PL e, acc. to 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
- EN ISO 13849-1:2015
- IEC 62061:2021
- EN IEC 62061:2021
- EN 61800-5-1:2007/A11:2021
- EN 61800-5-2:2007
- IEC 61000-6-7:2014
- EN 61000-6-7:2015
- EN 61800-3:2004/A1:2012

**Model(s):** **GA700/GA800/CH700/CR700/LA700/ES700 Series**

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## Nomenclature for GA700/GA800/CH700/CR700/LA700/ES700 Series

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

### Basic Code

A: General purpose Inverter

Group	Model	Note
CIPR	Yaskawa new generation inverter	--

B: Basic name of Inverter Series

Group	Model	Note
GA70	GA700 General purpose inverter series	--
CH70	CH700 Inverter series for crane and hoist	--
CR70	CR700 Inverter series for crane and hoist	--
LA70	LA700 Inverter series for elevator	--
ES70	ES700 Inverter series for elevator	--
GA80	GA800 General purpose inverter series	--

C: Regional specification for initial software setting (non-safety related)

Group	Model	Note
A	Japan spec.	--
B	China spec.	--
C	Europe spec.	--
D	India spec.	--
U	America spec.	--
T	Asia spec.	--
K	Korea spec.	--
X	China X model	--
Z	Exclusive model Z	--

D: Rated Voltage

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

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E: Rated output current

D: 2(200V 3phase) for GA700/CH700/CR700

Group		Heavy Duty		Normal Duty*	
GA700 Series	CH700/CR700 Series*	Input Current [A]	Output Current [A]	Input Current [A]	Output Current [A]
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
056	047	58.2	47	78.4	56
070	060	78.4	60	96.0	70
082	075	96	75	114	82
110	088	82	88	111	110
138	115	111	115	136	138
169	145	136	145	164	169
211	180	164	180	200	211
257	215	200	215	271	257
313	283	271	283	324	313
360	346	324	346	394	360
415	415	394	415	-	-

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

E: Rated output current for

D: 4(400V 3phase / T(400V 6phase)) for GA700/GA800/CH700/CR700

Voltage		380V to 460V				460V to 480V			
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]
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
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
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
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
089	075	71.5	75	86.5	89.2	59	65	71.4	77

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103	091	86.5	91	105	103	71.4	77	86.9	96
140	112	105	112	142	140	86.9	96	118	124
168	150	142	150	170	168	118	124	141	156
208	180	170	180	207	208	141	156	171	180
250	216	207	216	248	250	171	180	232	240
296 or 302	260	248	260	300	296 or 302	232	240	289	302
371	304	300	304	373	371	289	302	346	361
389 or 414	371	373	371	410	389 or 414	346	361	403	414
453 or 477	414	410	414	465	453 or 477	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
810	720	739	720	830	810	686	720	799	810
930	810	830	810	922	930	799	810	912	930
H11	930	922	930	1031	1090	912	930	1024	1090
H12	H11	1031	1090	1158	1200	1024	1090	1137	1200

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

D: 2(200V 3phase) for LA700/ES700

Voltage	200V to 240V	
Group	Heavy Duty	
LA700 / ES700 Series*	Input Current[A]	Output Current[A] (Cont. (50%ED))
022	18.2	15.3(21.9)
031	26.5	21.9(31.3)
041	35.5	28.9(41.3)
059	51.2	41.1(58.8)
075	69.0	52.5(75.0)
094	84.4	65.6(93.8)
110	72.0	77.0(110.0)
144	97.3	100.6(143.8)
181	119.2	126.9(181.3)
225	144.3	157.5(225.0)
269	175.4	188.1(268.8)
354	237.5	247.6(353.8)
432	283.9	302.4(432.0)
519	345.6	363.2(518.8)

D: 4(400V 3phase) for LA700/ES700

Voltage	380V to 480V
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Group	Heavy Duty	
	Input Current[A]	Output Current[A] (Cont. (50%ED))
LA700 / ES700 Series*		
012	10.3	8.1(11.5)
019	13.9	13.0(18.5)
023	18.7	15.8(22.5)
030	26.9	21.0(30.0)
039	36.3	27.1(38.8)
049	44.4	34.1(48.8)
056	37.9	39.4(56.3)
075	51.2	52.5(75.0)
094	62.8	65.6(93.8)
114	75.9	79.6(113.8)
140	92.3	98.0(140.0)
188	125.0	131.3(187.5)
225	149.4	157.5(225.0)
270	181.9	189.0(270.0)
325	217.5	227.5(325.0)
380	262.7	266.0(380.0)

## F: EMC filter option

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

## G: Enclosure

Group	Model	Note
A	IP00	6-phase input model only
B	IP20	3-phase input model only
D	IP20 with top cover	LA700 only
F	IP20, UL Type 1	--
J	Finless	CIPR-GA70*4250AJ** only
W	IP55, UL Type12 READY (back side type)	--

## H: Environmental Specification (non-safety related)

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

## I: Design Spec (non-safety related)

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

## Optional Code

### J: Customize Specification of Control module (non-safety related)

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

K: Option setting in slot A (non-safety related)

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

L: Option setting in slot B (non-safety related)

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

M: Option setting in slot C(non-safety related)

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

N: Keypad option (non-safety related)

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

O: Sub-application software setting (non-safety related)

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

Custom Code

P: Custom setting (non-safety related)

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