



Product Service

# CERTIFICATE

No. Z10 022733 0056 Rev. 03

**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.:** YY93685C

**Valid until:** 2028-08-16

**Date,** 2025-07-14

( Christian Dirmeier )

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|                    |                      |                                                                                                                                                  |
|--------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Parameters:</b> | Rated voltage        | 200 to 240 VAC<br>200 to 240 V3AC<br>380 to 480 V3AC                                                                                             |
|                    | Rated frequency      | 50/60 Hz                                                                                                                                         |
|                    | Rated input current  | See next pages                                                                                                                                   |
|                    | Protective class     | I                                                                                                                                                |
|                    | Overvoltage category | III                                                                                                                                              |
|                    | Safety function      | STO<br>SIL 3 acc. to IEC/EN 61800-5-2<br>SIL 3 acc. to IEC/EN 61508<br>Maximum SIL 3 acc. to IEC/EN 62061<br>Cat. 3, PL e acc. to EN ISO 13849-1 |

|                                 |                            |
|---------------------------------|----------------------------|
| <b>Tested<br/>according to:</b> | IEC 61508-1:2010           |
|                                 | IEC 61508-2:2010           |
|                                 | EN 61508-1:2010            |
|                                 | EN 61508-2:2010            |
|                                 | EN ISO 13849-1:2015        |
|                                 | EN IEC 62061:2021          |
|                                 | EN 61800-5-1:2007/A11:2021 |
|                                 | EN 61800-5-2:2007          |
|                                 | IEC 61800-5-2:2016         |
|                                 | EN 61800-5-2:2017          |
|                                 | IEC 61326-3-1:2017         |
|                                 | EN 61326-3-1:2017          |
|                                 | IEC 61000-6-7:2014         |
|                                 | EN 61000-6-7:2015          |
|                                 | IEC 62061:2021             |

|                  |                                    |
|------------------|------------------------------------|
| <b>Model(s):</b> | <b>GA500/GA501 Inverter Series</b> |
|------------------|------------------------------------|

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## Nomenclature of GA500/GA501 Series

**CIPR- GA5\*** \* \* \* \* \* - \* \* \* \* \* - \* \* \* \* \*

**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 |
|-------|---------------------------------------|------|
| GA50  | GA500 General purpose Inverter Series | --   |
| GA51  | GA501 General purpose Inverter Series | --   |

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

| Group  | Model                                               | Note |
|--------|-----------------------------------------------------|------|
| A to Z | Regional specification for initial software setting | --   |

D: Rated Voltage

| Group | Model        | Note |
|-------|--------------|------|
| 2     | 200V 3-phase | --   |
| 4     | 400V 3-phase | --   |
| B     | 200V 1-phase | --   |

E: Rated output current

D: 2(200V 3phase)

| Model | Rating(HD)                             |                                        |                   |                    |
|-------|----------------------------------------|----------------------------------------|-------------------|--------------------|
| GA500 | Maximum Applicable Motor Capacity (HP) | Maximum Applicable Motor Capacity (kW) | Input Current [A] | Output Current [A] |
| 001   | 1/6                                    | 0.1                                    | 0.7               | 0.8                |
| 002   | 1/4                                    | 0.2                                    | 1.5               | 1.6                |
| 004   | 1/2                                    | 0.4/0.55                               | 2.9               | 3.0                |
| 006   | 1                                      | 0.75/1.1                               | 5.8               | 5.0                |
| 008   | 1.5                                    | 1.1                                    | 7.0               | 6.9                |
| 010   | 2                                      | 1.5                                    | 7.5               | 8.0                |
| 012   | 3                                      | 2.2                                    | 11                | 11.0               |
| 018   | 4                                      | 3                                      | 15.6              | 14.0               |
| 021   | 5                                      | 3.7/4.0                                | 18.9              | 17.6               |
| 030   | 7.5                                    | 5.5                                    | 24                | 25                 |
| 042   | 10                                     | 7.5                                    | 37                | 33                 |
| 056   | 15                                     | 11                                     | 52                | 47                 |
| 070   | 20                                     | 15                                     | 68                | 60                 |
| 082   | 25                                     | 18.5                                   | 96                | 75                 |

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D: 4(400V 3phase)

| Model | Rating(HD)                             |                                        |                   |                    |
|-------|----------------------------------------|----------------------------------------|-------------------|--------------------|
| GA500 | Maximum Applicable Motor Capacity (HP) | Maximum Applicable Motor Capacity (kW) | Input Current [A] | Output Current [A] |
| 001   | 1/2                                    | 0.2/0.37                               | 1.2               | 1.2                |
| 002   | 3/4                                    | 0.4/0.55                               | 1.8               | 1.8                |
| 004   | 2                                      | 0.75/1.1                               | 3.2               | 3.4                |
| 005   | 3                                      | 1.5                                    | 4.4               | 4.8                |
| 007   | 3                                      | 2.2                                    | 6.0               | 5.6                |
| 009   | 4                                      | 3.0                                    | 8.2               | 7.3                |
| 012   | 5                                      | 3.7/4.0                                | 10.4              | 9.2                |
| 018   | 10                                     | 5.5                                    | 15                | 14.8               |
| 023   | 10                                     | 7.5                                    | 20                | 18.0               |
| 031   | 15                                     | 11.0                                   | 29                | 24.0               |
| 038   | 20                                     | 15.0                                   | 39                | 31.0               |
| 044   | 25                                     | 18.5                                   | 50.5              | 39.0               |
| 060   | 30                                     | 22.0                                   | 59.7              | 45.0               |

D: B(200V 1phase)

| Model | Rating(HD)                             |                                        |                   |                    |
|-------|----------------------------------------|----------------------------------------|-------------------|--------------------|
| GA500 | Maximum Applicable Motor Capacity (HP) | Maximum Applicable Motor Capacity (kW) | Input Current [A] | Output Current [A] |
| 001   | 1/6                                    | 0.1                                    | 1.4               | 0.8                |
| 002   | 1/4                                    | 0.2                                    | 2.8               | 1.6                |
| 004   | 1/2                                    | 0.4/0.55                               | 5.5               | 3                  |
| 006   | 1                                      | 0.75/1.1                               | 11                | 5                  |
| 010   | 2                                      | 1.5                                    | 14.1              | 8                  |
| 012   | 3                                      | 2.2                                    | 20.6              | 11                 |
| 018   | 5                                      | 3.7/4.0                                | 35.0              | 17.6               |

F: EMC filter option

| Group | Model              | Note          |
|-------|--------------------|---------------|
| A     | No built-in filter | --            |
| E     | built-in filter    | B="GA50" only |

G: Enclosure

| Group | Model                                           | Note                                                                |
|-------|-------------------------------------------------|---------------------------------------------------------------------|
| B     | IP20                                            | --                                                                  |
| F     | IP20, UL Type1                                  | B="GA50" only                                                       |
| N     | IP20/UL open type w/ DIN rail attachment option | B="GA51" only                                                       |
| J     | IP20, Finless                                   | Except model 082(200V 3phase) and 018(200V 1phase)<br>B="GA50" only |

H: Environmental Specification (non-safety related)

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

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## 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)

| Group          | Comment                                          | Note |
|----------------|--------------------------------------------------|------|
| A to C, E 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 (non-safety related)

| Group | Comment  | Note |
|-------|----------|------|
| A     | Standard | --   |

### M: Option setting (non-safety related)

| Group | Comment  | Note |
|-------|----------|------|
| A     | Standard | --   |

### N: Keypad option (non-safety related)

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

### 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. | --   |