

# YASKAWA

## GA700

### High Output Frequency

Excellent motor drive performance: GA700 are compact variable frequency drives (VFDs) running induction motors and PM motors with an output frequency of up to 2000 Hz.

Online control mode switch function: GA700 can switch between Closed Loop Vector Control (CLV) and V/f control during run. The VFD will run as CLV at low speed, then switches to V/f automatically when the configurable output frequency threshold is reached.

Built-in functional safety: The built-on Safe Torque Off (STO) function replaces output contactors and significantly improves machine safety and reliability and provides substantial cost reduction potentials.

Easy integration of PLC functionality: DriveWorksEZ® creates a custom drive functionality with just some mouse clicks and by fast and intuitive programming.

Space saving and compact set-up: Outstanding power to size ratio and gapless side-by-side installation reduce the mounting space to a minimum.

Reliable operation: Designed for 10 years of maintenance-free operation.

Fast acceleration and deceleration: High peak current capability for rapid start and stop. Time required for tool changes at spindles is minimized increasing the time-efficiency of machine cycles.

Coated PCBs as standard protect the electronics from dust or humidity and ensure reliable operation even in a harsh environment (IEC 60721-3-3, 3C2, 3S2).

Reduce harmonics and emissions

- Built-in EMC filter, possible to disable
- Built-in DC reactor (22 kW (HD) and above)



| Catalog code | Max applicable motor power | Rated output current | Dimensions [mm] |       |       | Weight [kg] | Max. output frequency [Hz] |
|--------------|----------------------------|----------------------|-----------------|-------|-------|-------------|----------------------------|
|              | HD / ND [kW]               | HD / ND [A]          | Height          | Width | Depth |             |                            |
| 4002         | 0.55 / 0.75                | 1.8 / 2.1            | 260             | 140   | 176   | 3.5         | 2000                       |
| 4004         | 0.75 / 1.5                 | 3.4 / 4.1            | 260             | 140   | 176   | 3.5         | 2000                       |
| 4005         | 1.5 / 2.2                  | 4.8 / 5.4            | 260             | 140   | 176   | 3.5         | 2000                       |
| 4007         | 2.2 / 3.0                  | 5.5 / 7.1            | 260             | 140   | 211   | 3.9         | 2000                       |
| 4009         | 3.0 / 3.7                  | 7.2 / 8.9            | 260             | 140   | 211   | 3.9         | 2000                       |
| 4012         | 3.7 / 5.5                  | 9.2 / 11.9           | 260             | 140   | 211   | 3.9         | 2000                       |
| 4018         | 5.5 / 7.5                  | 14.8 / 17.5          | 260             | 140   | 211   | 4.2         | 2000                       |
| 4023         | 7.5 / 11                   | 18 / 23.4            | 260             | 140   | 211   | 4.2         | 2000                       |
| 4031         | 11 / 15                    | 24 / 31              | 300             | 180   | 202   | 6.0         | 2000                       |
| 4038         | 15 / 18.5                  | 31 / 38              | 300             | 180   | 202   | 6.0         | 2000                       |
| 4044         | 18.5 / 22                  | 39 / 44              | 350             | 220   | 227   | 7.5         | 2000                       |
| 4060         | 22 / 30                    | 45 / 59.6            | 350             | 220   | 246   | 13          | 2000                       |
| 4075         | 30 / 37                    | 60 / 74.9            | 400             | 240   | 280   | 16          | 2000                       |
| 4089         | 37 / 45                    | 75 / 89.2            | 450             | 255   | 280   | 35          | 2000                       |
| 4103         | 45 / 55                    | 91 / 103             | 450             | 255   | 280   | 35          | 2000                       |
| 4140         | 55 / 75                    | 112 / 140            | 543             | 264   | 335   | 40          | 1000                       |
| 4168         | 75 / 90                    | 150 / 168            | 543             | 264   | 335   | 40          | 1000                       |
| 4208         | 90 / 110                   | 180 / 208            | 700             | 312   | 420   | 80          | 1000                       |
| 4250         | 110 / 132                  | 216 / 250            | 700             | 312   | 420   | 80          | 1000                       |
| 4296         | 132 / 160                  | 260 / 296            | 700             | 312   | 420   | 80          | 1000                       |
| 4371         | 160 / 200                  | 304 / 371            | 800             | 440   | 472   | 120         | 1000                       |
| 4389         | 200 / 220                  | 371 / 389            | 800             | 440   | 472   | 120         | 1000                       |



Flexibility, ease of use and a sustainable design for the best value proposition in your application

**YASKAWA Europe GmbH**

Philipp-Reis-Str. 6  
65795 Hattersheim am Main  
Germany

+49 6196 569-500  
support@yaskawa.eu  
www.yaskawa.eu.com

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