AC70E Series
High Performance Mini Frequency Inverter
Shenzhen Veichi Electric Co., Ltd is a high-tech enterprise that is professionally engaged in the development, manufacturing and marketing of industrial automation control products, and committed to becoming a global leading provider of industrial automation control products and system solutions.

The company owns powerful R&D team, relatively perfect production system, independent intellectual property and manufacturing bases in Shenzhen and Suzhou. To improve our R&D strength, we keep on introducing advanced overseas technology and broadening our partnerships with first-class universities and research institutions.

The main products of Veichi Electric include a variety of Variable Frequency Drive(VFD), Servo Drive System, Photovoltaic Inverter, PLC, HMI, Automation Equipment, etc, which are widely used in industries such as oil&gas, chemical industry, ceramic, crane&hoist, metallurgy, electrical cable and wire, plastic, print and package, textile, metal work and cable, coal mining and municipal engineering. Suitable solutions and products are always ready to meet the demands and improve comprehensive competitiveness of users.

With the spirit of "Innovation is the lifeblood of Veichi", we’re committed to becoming one of the leading providers of electric drives, industrial control and green energy products. Veichi has set up more than 40 brand offices in China and dozens of partners in Asia, Europe and Africa. Veichi has been named Chinese Electric Industry’s Top Ten National Brands, Chinese Electric Industry Top Ten Satisfying Brands and Top Ten National Brands of Inverter Industry. Veichi products have become the first choice of many enterprises.
AC70E Series High Performance Mini Frequency Inverter

AC70E series inverter is a new generation of high-performance general-purpose inverter; the product has advanced control method to achieve high torque, high accuracy, high reliability and wide speed drive. Products built-in PLC, PID adjustment, programmable input and output terminals, RS485 interfaces, analog input and output, and other rich control functions. These functions provide highly integrated solutions for engineering and special industry automation applications.

Features

Two drive control modes

- V / F control
  The control mode is used in all variable speed control that does not require fast response speed and high-precision control and in situations where one inverter connecting multiple motors; and the mode can be used when the motor parameters are not clear or can not use the self-study.

- Vector control without PG
  This mode is used in all variable speed control, when the high-accuracy speed control is needed, please set to this mode, which has rapid torque response, and a large torque can be obtained in low speed running.

Best use: suitable for stamping machinery requiring instantaneous high torque and fast response current.

Rich self-study function

<table>
<thead>
<tr>
<th>Rotating self-study and static self-study can be selected through parameter settings</th>
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<tbody>
<tr>
<td><strong>Static self-study</strong></td>
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<tr>
<td><strong>Rotating auto tuning</strong></td>
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In light load, one inverter can drive several motors to start tracking and to optimize the hardware and software tracking function, in which case the speed tracking precision and reliability are much higher.

**Random carrier function**

Random carrier function can effectively reduce motor noise and suppress inverter interference on external devices.

**Product Features**

**Advanced control algorithms**
PG without vector control SVC, V/F control mode, optimization of PWM output.

**User-friendly design**
Wide voltage input range, ensuring that products meet the needs of the user site.

**Convenient operation**
Out access is standard, potentiometer keyboard, plug and play, supporting parameter copy. Complete fault protection, fault history query support, rapid positioning.

**Feature-rich**
Multi speed, simple PLC, PID.
Wide voltage input range, ensuring that products meet the needs of the user site.

**Environmental resistance design**

**Three anti-treatment**
PCB three anti-paint treatment: anti-moisture, anti-salt, anti-fungal.

**Protection class**
Protection class is IP20, higher protection class products can be customized. Equipped with moisture, dust resistant, vibration-resistant reinforced products.
Applications

Food Machinery
- Improve efficiency, reduce costs.
- Wide speed regulation range, strong anti-overload capacity.
- Realize the Software controlling.

Packaging Machinery
- It has high steady-state accuracy and dynamic response.
- Small size, low noise, multiple functions.

Textile Machinery
- Smooth start, large torque in low-speed.
- Better acceleration and deceleration.
- Widely used in textile machineries such as sizing machines, coating machines, photographic machines, photoelectric weft machines, Embroidery machines, roving machines.

Automatic assembly line
- Powerful communication functions that is convenient for centralized control.
- Powerful anti-current shock capacity.
Mounting dimensions

Inverter model | W | W1 | H | H1 | D | D1 | Mounting Hole
--- | --- | --- | --- | --- | --- | --- | ---
AC70E-S2-R40G | 88 | 75 | 142.5 | 129.5 | 142 | 132 | Ф5
AC70E-S2-R75G | 106 | 90 | 172 | 158 | 142 | 132 | Ф6
AC70E-S2-IR5G |  |  |  |  |  |  |  
AC70E-T3-R75G |  |  |  |  |  |  |  
AC70E-T3-IR5G |  |  |  |  |  |  |  
AC70E-S2-2R2G |  |  |  |  |  |  |  
AC70E-T3-2R2G |  |  |  |  |  |  |  
AC70E-T3-004G |  |  |  |  |  |  |  

Standard Wiring Diagram

1. Mark         stands for main circuit terminals.
2. Mark         stands for control circuit terminals.

Legend:

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