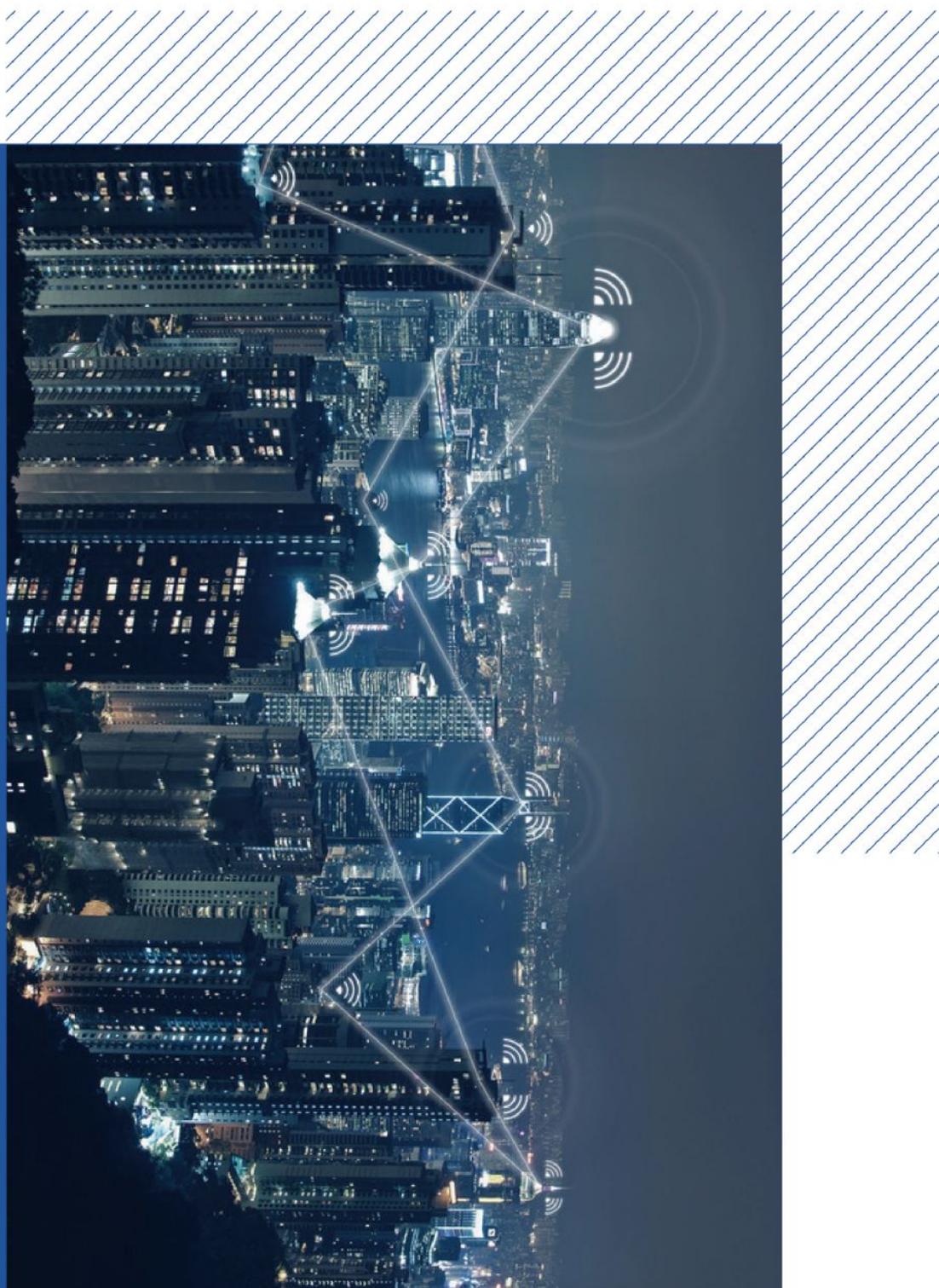




Professional supplier of  
**Inverter**

**变频器专业供应商**







### 核心价值观 Values

诚实守信、务实创新、精于此道、止于至善  
Honest and trustworthy, pragmatic and innovative,  
good at this, stop at the best



### 企业愿景 Vision

用我们的激情和责任供应质优价廉的民族变频器  
With our passion and responsibility to produce  
high-quality and inexpensive national frequency converter



### 企业使命 Mission

科技兴国，为民族品牌的伟大复兴而不懈努力  
Science and technology to revitalize the country,  
for the great revival of national brands and unremitting efforts

# GLOBAL INDUSTRY

## 全球行业应用



具有一定的规模  
Having a certain scale



注重行业内商誉  
Pay attention to goodwill  
in the industry



具有专业技术人才  
Having professional technical  
personnel



注重社会责任与环境保护  
Emphasis on social  
responsibility and  
environment protection



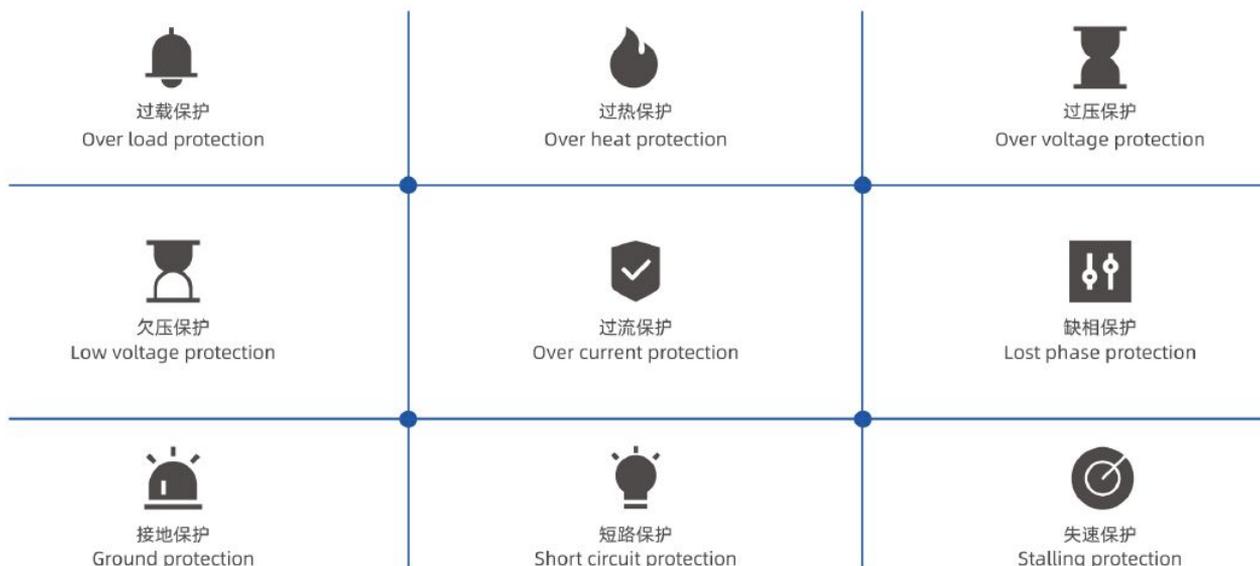
提供投资建厂咨询服务  
与零部件解决方案  
Providing investment  
advisory Services  
componentsolutions



提供产品定制化服务  
Providing product  
customization services

# 9大保护呵护您的设备

Nine protectiveness take care of your equipment



## 质量管理理念 Quality management concept

加强培训，打造高技能团队  
注重细节，精细化销售技巧  
To strengthen training  
Build a highly skilled team  
Attention to detail  
Refined production process



## 客户服务理念 Customer service concepts

客户至上 微笑服务  
坚持原则 全员服务  
Customer First  
Smiling Service  
Stick To Principles  
Full Service



## 技术支持理念 Technical support concepts

专业高效 使命必达  
售前、售中、售后全方位覆盖  
Professional and efficient  
The mission must reach  
Full coverage before, during  
and after sales

# HS 350 Series (Universal compact inverter)

## HS 350 系列 (通用精简型)

INPUT VOLTAGE AC220V 0.4KW-3KW  
INPUT VOLTAGE AC380V 0.75KW-7.5KW

单进三出 0.4KW-3KW  
三进三出 0.75KW-7.5KW



多年来，我们看到很多的变频器用户只使用了变频器的20%的功能，这就意味着80%的功能都白白浪费掉。从而导致变频器的价格居高不下。

HS350系列变频器是我们精心供应的一款独一无二的精简型高性价比的变频器。此款机器只保留了变频器的基本功能（如正/反转、点动、三个段速、模拟量输入/输出、数字量输出、继电器输出）。节省了大量成本的同时，也最大限度的降低了故障率（因为那些用不到功能的元器件也存在损坏的可能性）。

Over the years, we've seen a lot of inverter users use only 20% of the features of their converters, which means 80% of the features are wasted. As a result, the price of frequency converter is high.

HS350 series inverter is our dedicated research and development of a unique compact cost-effective inverter. This machine only retains the basic functions of frequency converter (such as forward/reverse, inching, three-stage speed, analog input/output, digital output, relay output). At the same time, it also minimizes the failure rate (because the components that are not functional also have the possibility of damage).

## 产品特点

Product Features

结构紧凑  
功能简洁

Compact structure  
Features concise

性能卓越  
质量稳定

Excellent performance  
Stable quality

输出稳压  
AVR功能

Output voltage stabilization  
AVR function

宽电压  
输入

Wide voltage input

支持  
键盘外引

Support keyboard  
exportation

双模拟量  
输入

Double analog input

内置EMC  
滤波器

Built-in EMC filter

内置PID  
控制器

Built-in PID controller

内置磁环

Built-in copper

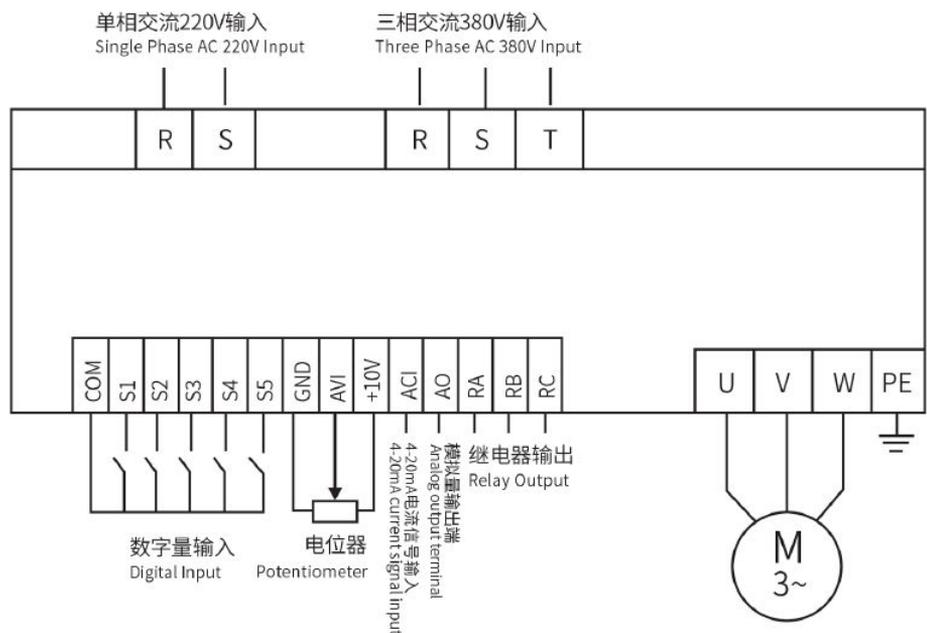
## 产品信息

### Product Information

产品型号 Product Model	适配功率 Power Adapter	输入电压 Input Voltage	输出电流 Output Current	安装孔距 Installation Distance	外形尺寸 Overall Dimensions	包装尺寸 Packing Dimensions	净重 Net Weight	毛重 Gross Weight
				宽*高/W*H	长*宽*厚/L*W*T	长*宽*厚/L*W*T		
HS350	0.4KW	单相 220V-240V 50-60HZ  Single phase 220V-240V 50HZ-60HZ	2.1A	91*145MM	154*100*145MM	173*135*172MM	1.0KG	1.2KG
HS350	0.75KW		4A	91*145MM	154*100*145MM	173*135*172MM	1.1KG	1.3KG
HS350	1.5KW		7A	91*145MM	154*100*145MM	173*135*172MM	1.1KG	1.3KG
HS350	2.2KW		9.5A	91*145MM	154*100x145MM	173*135*172MM	1.1KG	1.3KG
HS350	3KW		11A	91*145MM	154*100x145MM	173*135*172MM	1.15KG	1.35KG
HS350	0.75KW	三相 380V-440V 50-60HZ  Three phase 220V-240V 50HZ-60HZ	2.5A	91*145MM	154*100*145MM	173*135*172MM	1.1KG	1.3KG
HS350	1.5KW		4.1A	91*145MM	154*100*145MM	173*135*172MM	1.1KG	1.3KG
HS350	2.2KW		5.8A	91*145MM	154*100*145MM	173*135*172MM	1.15KG	1.35KG
HS350	3KW		7.9A	91*145MM	154*100*145MM	173*135*172MM	1.2KG	1.4KG
HS350	4KW		9.4A	112*207MM	218*215*174MM	216*175*232MM	2.3KG	2.55KG
HS350	5.5KW		12.6A	112*207MM	218*215*174MM	216*175*232MM	2.35KG	2.6KG
HS350	7.5KW		16.1A	112*207MM	218*215*174MM	216*175*232MM	2.35KG	2.6KG

## 安装接线

### Installation Wiring



# 端子功能说明

## Terminal Function Description

端子名称 Terminal Name	端子用途 Terminal Use	设定及说明 Setting and Description
R	变频器电源: 380V机型接R、S、T Inverter power supply: The 380V model is connected to R,S and T The 220V model is connected to R,S or R,T	变频器输入电源前端应使用空气开关作为过流保护装置, 若加有漏电保护开关, 为防止漏电开关误动作, 请选择敏感度200mA以上, 动作时间100ms以上的设备。 Air switch shall be used as overcurrent protection device at the front end of inverter input power supply. If leakage protection switch is added, in order to prevent misoperation of leakage switch, please select equipment with sensitivity of more than 200mA and operation time of more than 100 ms.
S		
T		
U、V、W	变频器输出, 连接电机 Inverter output, connected to the motor	为减小漏电流, 电机连接线尽量不要超过50米 In order to reduce leakage current, the motor connection line should not exceed 50 meters
PE	接地 grounding	变频器要良好接地 The inverter should be well grounded
COM	信号公共端 Signal common terminal	数字信号和模拟信号的零电位 Zero Potential of Digital and Analog Signals
S1	数字输入S1 Digital input S1	通过参数F9设定, 出厂默认为正转 Through parameter F9 setting,the factory defaults is forward
S2	数字输入S2 Digital input S2	通过参数F10设定, 出厂默认为反转 Through parameter F10 setting,the factory default is reverse
S3	数字输入S3 Digital input S3	通过参数F12设定, 出厂默认为多段速第一位 Through parameter F12 setting,the factory default is multi-speed first
S4	数字输入S4 Digital input S4	通过参数F13设定, 出厂默认为多段速第二位 Through parameter F13 setting,the factory default is multi-speed second
S5	数字输入S5 Digital input S5	通过参数F14设定, 出厂默认为多段速第三位 Through parameter F14 setting,the factory default is multi-speed third
GND	信号公共端 Signal common terminal	模拟输入信号的零电位 Zero potential of analog input signal
AVI	0-10V信号输入 0-10V Signal Input	0-10V,输入阻抗: >50kΩ 0-10V, input impedance: > 50kΩ
10V	频率设定电位器电源 Frequency setting potentiometer power supply	10V, 最大10mA +10V, 10mA maximum
ACI	4-20mA模拟量输入 4-20mA Analog Input	4-20mA输入阻抗: 100Ω 4-20mA input impedance: 100 Ω
AO	模拟量输出信号 Analog output signal	通过参数F24、F25设定 Set by parameters F24 and F25
RA	继电器输出 Relay output	通过参数F14设定 触点容量: AC 250V/3A DC 24V/2A Set with F14 parameter Contact capacity: AC 250V/3A DC 24V/2A
RB		
RC		



## 行业应用

### Industry Application

HS350系列变频器是专门针对小型机械设备调速和自动化需求设计的，可以广泛应用于食品包装机械、纺织机械、木工机械、回流焊及流水生产线、风机、水泵等等。

HS350 series inverter is specially designed for small mechanical equipment speed regulation and automation requirements, can be widely used in food packaging machinery, textile machinery, woodworking machinery, reflow welding and assembly lines, fans, water pumps and so on.

# HS710 Series (High-performance vector inverter)

## HS710 系列 (高性能矢量型)

INPUT VOLTAGE AC220V 0.75KW-5.5KW

INPUT VOLTAGE AC380V 0.75KW-450KW

单进三出 0.75KW-5.5KW

三进三出 0.75KW-450KW



HS710系列变频器是一款通用高性能电流矢量变频器，主要用于控制和调节三相交流异步电机的速度。本系列采用高性能的矢量控制技术，低速高转矩输出，具有良好的动态特性、超强的过载能力、增加了用户可编程功能及后台监控软件，通讯总线功能，支持多种PG卡等，组合功能丰富强大，性能稳定。

HS710 series inverter is a general purpose high performance current vector inverter, mainly used to control and adjust the speed of three-phase ac asynchronous motor. This series adopts high-performance vector control technology, low speed and high torque output, with good dynamic characteristics, super overload capacity, increased user programmable function and background monitoring software, communication bus function, support a variety of PG CARDS, the combination of functions rich and strong, stable performance.

## 产品特点

### Product Features

#### ● 低频性能优越 Superior low frequency performance

电流矢量控制算法，实现了高启动转矩和稳定的低速转矩输出  
Current vector control algorithm, realizing high starting torque and stable low speed torque output

#### ● 宽电压输入 Wide voltage input

良好应对电压不稳定的使用情况  
Wide voltage input, good response to the use of voltage instability

#### ● 应用广泛 Widely application

融合了丰富的行业应用软件功能，方便实现各种现场控制需求  
It integrates rich industrial application software functions to facilitate the realization of various on-site control requirements

#### ● 内置自动单元 Built-in brake unit

紧凑的机构设计，内置制动单元（18.5KW以下标配）  
Compact mechanism design, built-in brake unit (standard configuration below 18.5kw)

#### ● RS485通讯 RS485 communication

全系列产品配置标准RS485串行通信接口，采用标准的Modbus通讯协议  
The whole series of products are configured with the standard RS485 serial communication interface and adopt the standard Modbus communication protocol

#### ● 保护全面 Full protection

全面的保护功能，轻松应对各种负载突变和使用环境异常  
Comprehensive protection function, easy to deal with all kinds of load mutation and abnormal use environment

#### ● 安全性高 High security

全系列产品采用高阻燃材料及高可靠性主回路连接方式，确保产品使用安全  
The whole series of products adopt high flame retardant materials and high reliability main circuit connection to ensure the safety of product use

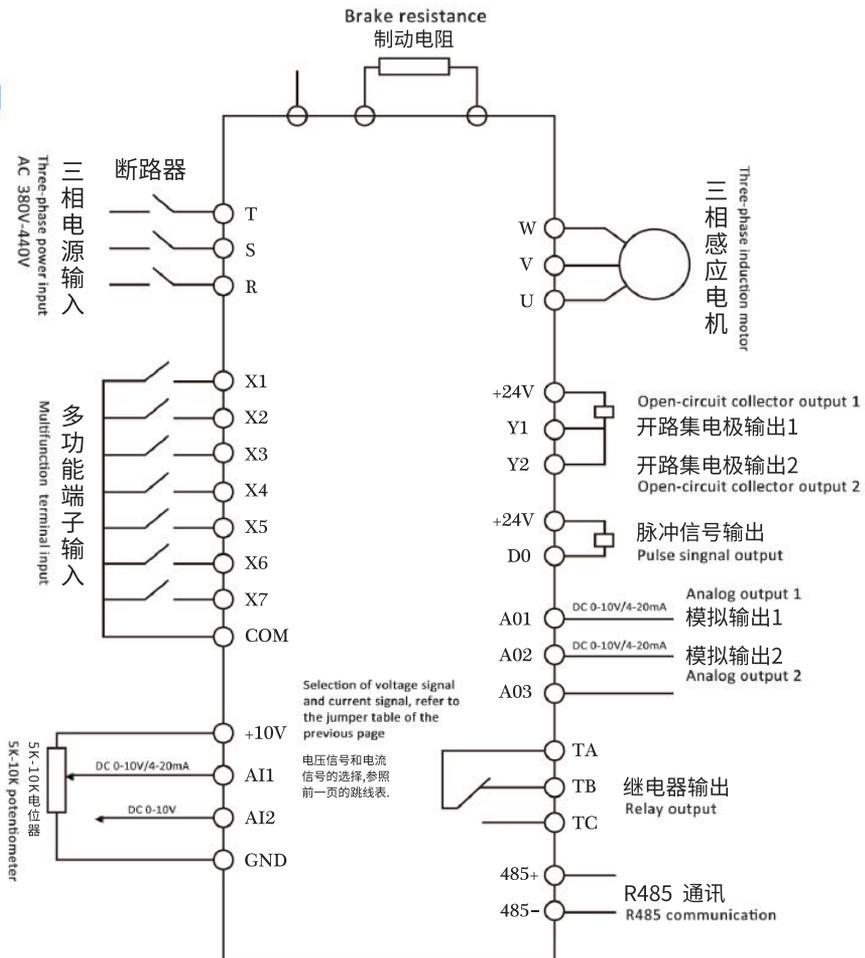
# 产品信息

## Product Information

产品型号 Product Model	适配功率 Power Adapter	输入电压 Input Voltage	输出电流 Output Current	安装孔距 Installation Distance	外形尺寸 Overall Dimensions	包装尺寸 Packing Dimensions	净重 Net Weight	毛重 Gross Weight
				宽*高/W*H	长*宽*厚/L*W*T	长*宽*厚/L*W*T		
HS710	4KW	单相 220V-240V 50-60HZ Single phase 220V-240V 50HZ-60HZ	17A	128*228MM	240*140*180MM	302*185*235MM	2.75KG	3.2KG
HS710	5.5KW		25A	128*228MM	240*140*180MM	302*185*235MM	2.85KG	3.3KG
HS710	0.75KW		2.1A	88*140MM	151*100*138MM	215*142*183MM	1.05KG	1.3KG
HS710	1.5KW		3.8A	88*140MM	151*100*138MM	215*142*183MM	1.05KG	1.35KG
HS710	2.2KW		5.1A	88*140MM	151*100*138MM	215*142*183MM	1.05KG	1.35KG
HS710	4KW		8.5A	128*228MM	240*140*180MM	302*185*235MM	2.75KG	3.15KG
HS710	5.5KW		13A	128*228MM	240*140*180MM	302*185*235MM	2.85KG	3.25KG
HS710	7.5KW		16A	128*228MM	240*140*180MM	302*185*235MM	2.9KG	3.35KG
HS710	11KW		24A	128*228MM	240*140*180MM	302*185*235MM	3.3KG	3.45KG
HS710	15KW		32A	187*305MM	323*205*205MM	395*285*300MM	5.6KG	6.5KG
HS710	18.5KW	36A	187*305MM	323*205*205MM	395*285*300MM	5.75KG	6.65KG	
HS710	22KW	44A	187*305MM	323*205*205MM	395*285*300MM	5.85KG	6.75KG	
HS710	30KW	58A	235*443MM	465*285*225MM	560*385*335MM	16.1KG	17.6KG	
HS710	37KW	70A	235*443MM	465*285*225MM	560*385*335MM	16.3KG	17.8KG	
HS710	45KW	90A	235*482MM	510*320*256MM	605*425*355MM	22.75KG	24.6KG	
HS710	55KW	110A	235*482MM	510*320*256MM	605*425*355MM	23.05KG	24.9KG	
HS710	75KW	152A	240x626MM	650*380*275MM	765*480*321MM	37KG	40.1KG	
HS710	90KW	172A	240*626MM	650*380*275MM	765*480*321MM	37.75KG	41.5KG	
HS710	110KW	205A	240*626MM	650*380*275MM	765*480*321MM	38.5KG	42.25KG	
HS710	132KW	253A	320*730MM	750*495*325MM	850*595*395 MM	59.5KG	69.5KG	
HS710	160KW	304A	320*730MM	750*495*325MM	850*595*395 MM	61.5KG	71.3KG	

# 安装接线

## Installation Wiring



## 端子功能说明

### Terminal Function Description

端子名称 Terminal Name	端子用途 Terminal Use	设定及说明 Setting and Description
R	变频器电源: 380V机型接R、S、T	变频器输入电源前端应使用空气开关作为过流保护装置, 若有漏电保护开关, 为防止漏电开关误动作, 请选择感度200mA以上, 动作时间100ms以上的设备 Air switch shall be used as overcurrent protection device at the front end of inverter input power supply. If leakage protection switch is added, in order to prevent misoperation of leakage switch, please select equipment with sensitivity of more than 200mA and operation time of more than 100 ms
S	220V机型接R、S或接R、T	
T	Inverter power supply: The 380V model is connected to R,S and T; The 220V model is connected to R,S or R,T	
U、V、W	变频器输出, 连接电机 Inverter output, connected to the motor	为减小漏电流, 电机连接线尽量不要超过50米 In order to reduce leakage current, the motor connection line should not exceed 50 meters <sup>1)</sup>
PE	接地 grounding	变频器要良好接地 The inverter should be well grounded
X1	X1/X2/X3/X4/X5/X6/X7与COM之间短接有效, 其他功能分别由参数F4.00-F4.06设定。X7除了可以做普通多功能端子使用外, 还可编程作为高速脉冲输入端口, 详见F4.06功能说明 The connection between X1/X2/X3/X4/X5/X6/X7 and COM is effective, and other functions are set by parameters F4.00~F4.06 respectively. X7 can be used as a common multi-function terminal, and can also be programmed as a high-speed pulse input port, as shown in F4.06 function description	Input, 0-24V电平信号, 低电平有效, 5mA Input, 0-24v level signal, effective low level, 5mA
X2		
X3		
X4		
X5		
X6		
X7		
AI1	接收电流或电压模拟量输入 Receive current or voltage analog input	Input, 输入电压范围: 0-10V 输入电流范围: 0-20mA Input voltage range: 0-10v Input current range: 0-20ma
AI2	仅接收电压模拟量输入 Only Receive current analog input	Input, 输入电压范围: 0-10V Input voltage range: 0-10v
AO1	模拟量输出信号1 Analog output signal 1	Output, 0-10V 直流电压 Output, 0-10v DC voltage
AO2	模拟量输出信号2 Analog output signal 2	Output, 0-10V 直流电压 Output, 0-10v DC voltage
24V	24V是数字信号输入端子的电路共同电源 24V is the common power supply of digital signal input terminal <sup>1)</sup>	最大输出电流200mA Maximum output current 200mA
10V	10V是模拟输入输出端子的电路共同电源 10V is the common power supply for the analog input and output terminals	最大输出电流20mA Maximum output current 20mA
COM	信号公共端 Signal common terminal	内部与GND隔离 Internal isolated with GND
GND	信号公共端 Signal common terminal	内部与COM隔离 Internal isolated with COM
AVI	0-10V信号输入 0-10V Signal Input	0-10V信号输入 0-10V Signal Input
TA	可编程定义为多功能的继电器输出端子, 可达99种, 详见F5.02端子功能介绍 Programmable defined as multi-function relay output terminal, up to 99 kinds, see F5.02 terminal function introduction	TA-TB: 常闭, TA-TC: 常开 触点容量: AC 250V/3A DC 24V/2A
TB		TA-TB: normally closed, TA-TC: normally open Contact capacity: AC 250V/3A DC 24V/2A
TC		



## 行业应用

### Industry Application

HS710系列机器以其卓越的性能和强大的功能广泛应用于设备调速和自动化需求设计，如纺织、造纸、拉丝、机床、包装、食品、风机、水泵等行业。

HS710 series machine with its excellent performance and powerful function is widely used in the design of equipment speed regulation and automation requirements, such as textile, papermaking, drawing, machine tools, packaging, food, fan, water pump and other industries.



# HS200 Series (Special inverter for engraving machine)

## HS200 系列 (雕刻机专用变频器)

INPUT VOLTAGE AC220V 1.5KW-3KW

单进三出 1.5KW-3KW

INPUT VOLTAGE AC380V 1.5KW-3KW

三进三出 1.5KW-3KW



HS200系列是在HS350系列基础上专门为雕刻机行业量身定做的一款专用变频器。此款变频器只能用在雕刻机行业，无需修改参数，接线即可使用。机器内部内置了磁环和滤波器，有效防止了雕刻机行业的高频干扰问题。同时，此款变频器节省了其他用不到功能的硬件成本，大大提高了机器的性价比，是雕刻机行业用户的不二选择。

HS200 series is based on HS350 series specially designed for engraving machine industry a special frequency converter. This inverter can only be used in engraving machine industry, no need to modify the parameters, wiring can be used. The machine has a built-in magnetic ring and filter, which effectively prevents the high frequency interference problem in engraving machine industry. At the same time, this inverter saves other functions of the hardware cost, greatly improve the cost performance of the machine, engraving machine industry users are the only choice.

# HS 280 Series (Special inverter for temperature control fan)

## HS 280 系列 (温控风机专用变频器)

INPUT VOLTAGE AC380V 1.5KW-3KW

三进三出1.5KW-3KW



HS280系列变频器是在HS350系列基础上专门为温控机行业定制的一款专用机型。此款变频器标配20米温度控制线（自带温度探头），还可以选配40米线，广泛使用于塑料温室和养殖行业等。

HS280 series inverter is based on HS350 series for the temperature control machine industry customized a special model. This inverter standard with 20 meters of temperature control line (built-in temperature probe), but also optional with 40 meters of line, widely used in plastic greenhouse and aquaculture industry.

# HS 800 Series (special type for single-phase capacitor motor ) HS 800 系列 (单相电容电机专用型)

INPUT VOLTAGE AC220V 0.4KW-1.5KW

单进单出 0.4KW-1.5KW



HS800系列是一款专门为单相电容电机设计的一款产品。本款产品直接可以接带电容的两相电机，无需拆电容。同时，也可以拆掉电容接三相使用（不推荐）。此系列变频器以其独特的设计广泛应用于恒压供水、风机、卷帘门等自动化设备驱动的行业。

HS800 series is a product specially designed for single-phase capacitor motors. This product can directly connect to the two-phase motor with capacitor, without removing capacitor. At the same time, can also remove the capacitor to connect the three phase use (not recommended). This series inverter with its unique design is widely used in the constant pressure water supply, fan, shutter door and other automation equipment drive industry.

# HS 810 Series (Special type for decelerating motor )

## HS 810 系列 (减速电机专用型)

INPUT VOLTAGE AC220V 0.4KW-0.75KW

单进单出 0.4KW-0.75KW



HS810系列是一款专门为小型减速电机设计的一款经济型产品。此系列变频器机身灵巧、功能简洁、采用MCU芯片数字化精准控制。广泛应用于减速机行业。

HS810 series is an economical product specially designed for small speed reduction motors. This series of inverter body dexterity, simple function, using MCU chip digital precision control. Widely used in reducer industry.



衷心希望本手册能给广大用户带来方便！鉴于本手册中所涉及的标准、技术要求及各种尺寸，可能随着时间的推移而发生变化。因此，我公司保留最终修改权，如有更改恕不另行通知。图片以实物为准，未经许可，禁止全部或部分复制。

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