



FPR系列变频器选型手册

FPR series frequency inverter manual



目 录

CONTENTS

公司简介	01
Company Profile	01
产品设计	02
Products Design	02
技术指标	04
Technical Indicators	04
FPR系列通用变频器	
FPR Series General Inverter	
FPR500系列高性能矢量变频器	05
FPR500 Series High Functional Vector Inverter	05
FPR500M系列迷你型变频器	06
FPR500M Series Mini Inverter	06
FPR500E系列同步矢量变频器	07
FPR500E Series Synchronous Vector Inverter	07
FPR系列专用变频器	
FPR Series Special Inverter	
FPR500T系列纺织专用变频器	08
FPR500T series inverter for textile machine	08
FPR500C系列机床专用变频器	08
FPR500C series inverter for CNC machine	08
FPR500H系列冷镦机专用变频器	09
FPR500H series inverter for cold heading machine	09
FPR500J系列注塑机伺服驱动器	09
FPR500J series servo drive for injection machine	09
产品选型	10
Product selection	10
标准接线图	12
Standard Wiring Diagram	12
部分应用	13
Some Application	13

CHIFON

为客户创造价值！
为社会创造效益！
为企业创造未来！
为员工创造机会！

Create value for customers!
Create benefits for society!
Create the future for the enterprise!
Create opportunities for employees!

创新、超越、协作、共赢
Innovation Transcendence
Cooperation Win-win



公司简介 Company Profile

浙江乾方电气有限公司是一家专业致力于电气传动、工业控制、电机节能技术产品的研发、制造和销售的高科技企业。

公司拥有完全自主知识产权和多 国家专利创新技术，始终坚持技术创新，以不断满足客户需求为目标，始终以高品质、高精度、高效率，低维护为设计理念，逐步成为国内外值得依赖的电气传动设备供应商。

公司产品包括通用变频驱动器、专属行业应用专机、一体化解决方案及新能源领域产品等。公司研发团队聚焦国内外众多专业技术人才，在掌握高性能矢量变频技术、伺服技术平台的基础上不断创新，实现各相关领域的技术突破。这使得乾方电气能够向用户提供最为合适的产品和解决方案以满足客户在高效、节能、环保和总体成本控制方面的要求。高质量的产品、不断革新的技术及优质的报务，让乾方的信誉日益深入人心。

Zhejiang Chifon electric co., ltd. is a high-tech enterprise specializing in research, development, manufacture and sales of electric drive, industrial control and motor energy saving technology products.

The company has completely independent intellectual property rights and several national patent innovation technologies. It has always adhered to technological innovation, with the goal of continuously meeting customer's needs, and has always adopted the design philosophy of high quality, high precision, high efficiency and low maintenance. It has gradually become a domestic and foreign supplier of electrical transmission equipment that is worth relying on.

The company's products include general frequency conversion drives, special industrial application planes, integrated solutions and new energy products. The company's research and development team gathers numerous professional and technical personnel at home and abroad, and continuously innovates on the basis of mastering high-performance vector frequency conversion technology and servo technology platforms to realize technological breakthroughs in various related fields. This enables Chifon to provide customers with the most suitable products and solutions to meet their requirements in terms of high efficiency, energy conservation, environmental protection and overall cost control. High-quality products, continuously updated technology and high-quality service have made the reputation of the cadres increasingly popular.

公司资质 Company Qualification



FPR系列变频器基于对客户要求的准确了解，秉承对产品高品质、高可靠性的一贯追求，FPR系列变频器将以卓越的性能和强大的功能，为您带来焕然一新的使用感觉。

采用美国TI公司新一代电机控制专用数字信号处理器（DSP），主频可达到150Hz。采用德国INFINEON第四代模块，结合其175℃最高结温特性，运用创新型PWM调制方式，进一步降低了开关损耗，使得驱动器在50℃环境下也无需降额使用。

FPR series adopts a new generation of special digital signal processor (DSP) for motor control of TI Company USA. Its frequency can reach up to 150 MHz.And adopt latest generation Infineon IGBT module, combined with the 175 °C maximum junction temperature characteristics.This series further reduces the switching loss by using innovative PWM modulation, so that the drive can be used normally in the environment of 50 °C.

强大的功能 Powerful function

模拟量输入/输出 analog input / output port

每个模拟量输入(AI1~AI2)可分别设置4个点的曲线，使用灵活；
Each analog input (AI1~AI2) can set the curve of 4 points respectively, which is more flexible to use;

AI1~AI2可出厂校正或用户现场校正线性曲线，校正后精度达20mV；
A/1~AI2 can be used to correct the linear curve, and the accuracy is 20mV after correction;

AO可出厂校正或用户现场校正线性曲线，校正后精度可达20mV；
AO can be used to correct the linear curve, and the accuracy is 20mV after correction;

AI1~AI2均可作为DI使用；
A/1~AI2 can be used as DI;

转速追踪功能 Speed tracking function

不依赖硬件的速度搜索启动功能,速度搜索准确、可靠，能对正在旋转中的电机进行无冲击平滑启动。
Speed search and start function is independent of hardware. The speed search is accurate and reliable. It can start the motor in rotation smoothly without impact.

快速限流功能 Speed tracking function

快速限流功能可以避免变频器频繁的出现过流报警,当电流超过电流保护点时,快速限流功能可以将电流快速限制在电流保护点以内,从而保护设备的安全,避免由于突加负载或者干扰造成的过流报警。
Fast current limit function can avoid inverter's frequent over-current alarm.When the current exceeds the current protection point, with a fast current limit function,the current can be quickly limited within the current protection point to protect the safety of the equipment, to avoid the over-current alarm caused by sudden added load or interference.

欠压调节功能 Underpressure adjustment settings

在瞬时欠压或者瞬时停电时,通过自动降低输出频率,维持直流母线电压的恒定,从而保证驱动器短时间内连续运行,适合风机、离心泵等应用场合。
In the instantaneous undervoltage or the instantaneous power outage. By automatically lowering the frequency, this keeps the undervoltage of the dc bus constant, thus keeping the drive running continuously for a short time, which is suitable for the fan, centrifugal pump and other applications.

过压失速保护 analog input / output port

大惯性负载减速运行过程中有短时间再生制动时,通过对输出频率的瞬时调整,从而降低过压跳闸的几率,保证系统的连续可靠运行。

When there is a short time regeneration in the process of slow down operation of large inertial load, the transient adjustment of output frequency can reduce the probability of over-voltage tripping and ensure the continuous and reliable operation of the system;

PID控制功能 PID control function

具有丰富的给定和反馈方式,两组比例、积分和微分参数自由切换，可选择正作用或反作用特性。
The two groups of proportion, integral and differential parameters can be freely switched, and the positive or negative characteristics can be selected.

出色的性能 Excellent performance

转矩控制 Torque control

矢量控制模式下,高精度的转矩限定控制,使得驱动器可以按照用户工艺控制要求,输出强劲的转矩或柔和的转矩,可靠的保护机械设备。
In vector control mode, the high precision torque limit control enables the drive to output strong torque or soft torque according to the user's process control requirements,which can reliably protect the mechanical equipment.

高启动转矩 Speed tracking function

在0.3Hz可提供150%的启动转矩(无传感器矢量控制);在0.0Hz可提供180%的启动转矩(有传感器矢量控制)。
It can provide 150% starting torque when frequency is 0.3Hz(No sensor vector control)
It can provide 180% zero speed torque when frequency is 0Hz(Sensor vector control)

矢量控制性能 vector control performance

无速度传感器矢量控制可以堵转启动在0.3Hz输出150%额定力矩。
No speed sensor vector control can plug the movement at 0.3hz output 150 % rated torque.
无速度传感器矢量控制对电机参数的敏感性降低了,提高了现场适应性。
The sensitivity of sensorless vector control to motor control is reduced, and improved site adaptability.

超快的响应速度 Extremely fast response time

无传感器矢量控制下转矩响应<20ms；
有传感器矢量控制下转矩响应<5ms；
Torque response under sensorless vector control <20ms
Torque response under sensor vector control <5ms

技术指标
Public technical indicators

产品系列 Product		FPR500M	FPR500	FPR500E
输入输出 特 性 I/O Features	输入电压范围 Input voltage range	1PH AC220V±15% ； 3PH AC380V±15% ；		
	输入频率 Input frequency	47~63Hz		
	输出频率 Output frequency range	0~500Hz		
外围接口 I/O Terminals	数字输入 Digital input	5路可编程数字输入 ； 5 programmable digital inputs	6路可编程数字输入 ； 1路高速脉冲输入(S5); 6 programmable digital inputs; 1 high speed pulse input;	
	模拟量输入 Analog input	模拟量输入AI1: 0~10V AI1：0~10V input	模拟量输入AI1: 0~10V;模拟量输入AI2: 0~10V或0~20mA AI1：0~10V input; AI2：0~10V or 0~20mA input	
	开路集电极输出 Open collector output	1路开路集电极输出 1 open collector output	1路开路集电极输出 ； 1路高速脉冲输出 1 open collector output ； 1 high speed pulse output	
	模拟量输出 Analog output	1路模拟量输出 1 analog output	2路模拟量输出 2 analog output	
	继电器输出 Relay output	1路继电器输出 1 relay output	1路继电器输出 1 relay output	
技术性能 Technical performance	控制方式 Control mode	V/F控制 ； 无PG矢量控制 ； V/F control;No PG vector control		V/F控制 ； 无PG矢量控制 ； 有PG矢量控制 ； V/F control;No PG vector control;PGvector control;
	启动转矩 Starting Torque	G型机：0.5Hz/150%(SVC),0Hz/180%(FVC)； P型机：0.5Hz/100% G type:0.5Hz/150%(SVC);0Hz/180%(FVC); P type:0.5Hz/100%		
	过载能力 Overload capacity	G型机：150%额定电流60s;180%额定电流3s P型机：120%额定电流60s;150%额定电流3s G type:150% Rated current 60s; 180% Rated current 3s; P type:120% Rated current 60s; 150% Rated current 3s		
	调速比 Speed regulation ratio	1:100(无PG矢量控制) 1:100(No PG vector control)	1:100(无PG矢量控制);1:1000(PG矢量控制) 1:100(No PG vector control);1:1000(PG vector control)	
	稳速精度 Speed stabilization accuracy	±0.5%(无PG矢量控制) ±0.5%(No PG vector control)	±0.5%(无PG矢量控制);±0.02%(PG矢量控制) ±0.5%(No PG vector control);±0.02%(PG vector control)	
	转矩控制精度 Torque control accuracy	±5%(无PG矢量控制) ±5%(No PG vector control)		
	载波频率 Carrier frequency	0.5~16.0kHz 0.5~16.0kHz		
	功能特性 Functional characteristics	频率设定方式 Carrier frequency	数字设定、模拟量设定、脉冲频率设定、串行通讯设定、多段速及简易PLC设定、PID设定等。可实现设定的组合和方式切换。 Frequency setting mode：Digital setting、Analog setting、Pulse frequency setting、Serial communication setting、Multistage speed and simple PLC setting、PID setting、etc, the set combination and mode switching can be realized.	
简易PLC、多段速控制功能 Simple PLC、Multistage speed control function		通过内置PLC或控制段子实现最多16段速运行 Speed up to 16 segments through built-in PLC or control section		
转速追踪再启动功能 Speed tracking restart function		实现对旋转中电机的无冲击平滑启动 Realizing smooth starting of the motor in rotation without impact		
过电机切换 Multi - motor switching		两组电机参数，可实现两个电机切换控制 Two sets of motor parameters can realize switching control of two motors		
支持多种编码器 Supports multiple encoders		不支持 No	支持差分卡、开路集电极、UVW旋转变压器、正余弦编码器 Support differential, open collector、UVW、rotary transformer、sine and cosine encoder	
提供多种故障保护功能 Provides various fault protection functions		过流、过压、欠压、过温、缺相、过载等保护功能 Over - current, over - voltage, under - current, over - temperature, out-of-phase and over-load protection		

产品介绍
Product introduction

FPR500系列依托TI公司DSP双核专业控制电机芯片，采用国际领先的矢量控制算法，实现真正意义上的高精度磁通矢量转矩控制，内嵌有PG矢量控制、无PG矢量控制和V/F三种控制模式。转矩控制、速度控制、位置控制一体化，同时FPR500具有超出同类产品防跳闸和适应恶劣电网、环境温度、湿度和粉尘的能力。

FPR500 series relies on TI company's DSP dual-core professional control motor chip, which supplies the international leading vector control algorithm to realize the real high-precision flux vector torque control.It has built-in pg vector control, pg - free vector control and V/F control modes, which widely aplied to high speed control accuracy, rapid torque response and high performance at low frequency.The integration of torque control, speed control and position control.And, FPR 500 has the ability to exceed the anti-trip performance of similar products and adapt to severe power grid, ambient temperature, humidity and dust, greatly improving the reliability of products.

功率等级
Power class

三相(Three phases)380V±15% 0.75kw-355kw

技术特点
Technical characteristics

符合国际标准的宽电压设计:380-480V三相电网要求。
Wide voltage design with international standard :380V-480V three phase power grid requirement.

选用新一代IGBT模块技术，结温高，功率密度大，机器体积更小，能量更大
The new generation IGBT module technology is selected with high junction temperature, high power density, small machine volume and larger capacity.

高性能矢量控制，提高设备精度:矢量控制下最高输出频率达500Hz,能够实现10倍弱磁调速范围内高精度速度输出。
High-performance vector control can improve equipment accuracy. The highest output frequency under vector control is up to 500HZ, which can realize high-precision speed output within the range of 10-times weak magnetic speed regulation.

低速大转矩，提高设备低速控制性能: 环矢量模式下，转矩直线线性度 差在3%以内。转矩输出稳定，低频转矩大，能够实现超低速0.01Hz的稳定带载运行，转矩模式与速度模式可进行便捷切换。完善的直流制动回路方案。

Low speed high torque, improve equipment vulgar control performance, closed - loop vector mode, torque linear linearity deviation within 3%,the torque output is stable, and the low-frequency torque is large,which can realize the stable on-load operation of ultra-low-speed 0.0HZ. The torque mode and speed mode can be conveniently switched, and the perfect dc braking loop scheme is also available.

支持多种编码器，高精度 环控制:支持集电极信号、差分信号、旋变信号等多种编码器接口，方便实现 环矢量控制。
Support a variety of encoders, high-precision closed-loop control, support collector signals, differential signals, rotating signals and other encoder interfaces, easy to achieve closed-loop vector control.

应用场合
Application

可应用于拉丝机、注塑机、印刷机械、包装机械、橡塑机械等对电机要求精度较高的行业；
This series can be used in wire drawing machines, injection molding machines, printing machines, packaging machine, rubber and plastic machine and other industries with high accuracy requirements for motors.



FPR500M系列MINI变频器

FPR500M series mini vector frequency converter

CHIFON

产品介绍

Product introduction

FPR500M系列MINI变频器定位小功率OEM配套市场的普通应用场合，采用空间电压矢量控制技术，具有PID、多段速、直流制动、摆频、Modbus通讯等多种功能，功能齐全，体积小。

FPR500M series vector frequency converter appeals to general applications of small power OEM matching market. It adopts space voltage vector control technology, and its function obtains PID, multi-section speed, DC brake, swing frequency, Modbus communication, etc. Generally, it is smarter and smaller.

功率等级

Power class

单相(Single-phase)220V $\pm$ 15% 0.4kw 0.75kw 1.5kw 2.2kw;
三相(Three phases)380V $\pm$ 15% 0.4kw 0.75kw 1.5kw 2.2kw 4kw 11kw 22kw;

技术特点

Technical characteristics

空间电压矢量控制；
Space voltage vector control;

频率设定方式：数字设定、模拟量设定、串行通讯设定、PID设定等；
Frequency setting mode: Digital setting, Analog setting, Serial communication settings, PID Setting etc;

可实现16段速控制程序运行；
Feasible operation of the 16-segment speed control program;

内置PID控制功能,可方便实现简易自动控制系统；
Built-in PID control function.etc, simple and easy automatic control system can be conveniently realized;

具有摆频控制功能；
Possess the function of frequency swing control;

提供多功能5路数字量输入、1路模拟量输入、1路继电器输出；
Provide multifunctional 5 -way digital input, 1-way analog input and 1 - way relay output;

自动电压调整：当电网电压变化时，能自动保持输出电压恒定；
Automatic voltage regulation: when the grid voltage changes, it can automatically keep the constant input voltage;

具备瞬时掉电不停机功能；
It has the function of instantaneous power failure without shutdown;

提供多种故障保护功能：过流、过压、欠压、过温、缺相、过载等保护功能；
Provides a variety of fault protection functions: Over - current, over - voltage, under - voltage, over - temperature, out-of-phase and over-load protection functions;

应用场合

Application

可应用于纺织机械、机床、食品机械、雕刻机、线切割机等行业；
It can be applied to textile machine, CNC machine, food machine, engraving machine, wire cutting machine and other industries.



FPR500E系列高性能同步驱动器

FPR500E Series High Performance Synchronous Drive

CHIFON

产品介绍

Product introduction

FPR500E系列同步电机驱动器是一款高性能同步伺服驱动器,主要面向三相交流永磁同步电机的速度和转矩控制,能够实现不带编码器下的开环矢量控制。

FPR500E series high Functional synchronous drive is specially for speed and torque control of three phase ac permanent magnet synchronous motor; it can open loop vector control without encoder.

功率等级

Power class

三相(Three phases)380V $\pm$ 15% 0.75kw-160kw;

技术特点

Technical characteristics

具有良好的动态特性、超强的过载能力；
Excellent dynamic characteristics, Super overload capacity

组合功能丰富强大,性能稳定可靠
Rich combination function, stable Functional

可用于各种自动化生产设备的驱动
Application to various kinds of automated production equipment

省电:最大程度地节省电能
Energy Saving :Save energy at max

精度高:产品重复精度高,转速控制更加平稳
High Accuracy: High repeated accuracy, Stable speed control

性能强:响应速度快,输出转矩大
High Performance: quick respond of speed, big output torque

非线性弱磁控制、位置校正空间矢量低速控制；
Non-linear weak magnetic control, Position correction space vector control low control;

专业的开环同步算法,为不同品牌的永磁同步电机提供完美的应用方案
Professional open loop synchronization algorithm can provide perfect application solution for different brand of permanent magnet synchronous motor



应用场合

Application

可应用空压机、塑料行业、油田等行业。
Air compressor, plastic industries, oil field ect.



FPR系列专用变频器

FPR Series Special Inverter

CHIFON

FPR系列专用变频器

FPR Series Special Inverter

CHIFON

FPR500T纺织专用变频器

FPR500T series inverter for textile machine

FPR500T系列纺织专用变频器是本公司为纺织行业开发的一款高性能矢量变频器。针对纺织行业应用场合温度高、棉絮多、控制系统易受电磁干扰等特点，使产品能在恶劣环境中稳定运行。针对设备:倍捻机并纱机、加捻机、横机、络筒机、细纱机等。

FPR500T series textile inverter is specifically designed for the textile industry with a high performance vector frequency converter. applied in where there is high temperature,cotton textile industry,and the control system are more vulnerable to electromagnetic interference etc,this series can make the product more stable in harsh environment.

技术特点

Technical characteristics

独特的结构设计,自动清除棉絮,降低客户维护人力,减少故障率
Unique structural design,automatic of cotton, reduced manpower for customers maintenance, reduced failure rate

大风量风扇的使用,散热性能改进,散热性能比同类产品提高20%
The use of fan with large volume air made the heat dissipation improved, the heat dissipating performance is increased by 20% than similar products

亚密封设计,免除电子元器件受灰尘的影响,防尘能力大为提高,延长机器寿命
Sub-seal design, exempt from electronic components affected by dust, improved the dust prevention ability and extend the life of the machine

功能齐全:简易PLC、多段速、V/F曲线可调、485通讯、摆频等
Complete functions, simple PLC, multistage speed, adjustable curve of V/F, 485 communications, set of frequency, etc



FPR500C机床专用变频器

FPR500C series inverter for CNC machine

FPR500C系列数控机床专用变频器对于数控机床的主轴调节,既可实现宽调速范围和高精度加工,也可完成低频大力矩及无极调速中电流的稳定输出,整理模块化的软硬件功能完全满足数控机床的高端控制要求。

FPR500C series special inverter for CNC machine can adjust main shaft of CNC machine, it realizes wide speed adjusting range and high precision process, ensured large torque at low frequency and stable current output when stepless speed regulation. Software and hardware function of overall modular can completely meet high-end control requirement of CNC machine.

技术特点

Technical characteristics

稳速精度高:开环矢量控制,稳速精度达到0.5%; 闭环矢量控制, 稳速精度达到0.02%, 完全满足数控机床高精度要求。

High precision of steady speed: 0.5% (open loop vector control) 0.02% (close loop vector control), It can completely meet high precision requirement of CNC machine.

低频力矩大: 与同类品牌相比, 机械特性硬, 有更强的进刀能力和切削深度, 可提高机床效率和产能。

Large torque at low frequency: compare with other brands, higher mechanical functional, stronger feed capacity and cutting depth, it can improve the efficiency of machine tool and production capacity.

快速响应: 更快的加减速时间, 最快达到0.1秒, 提高机床生产效率。
Fast response: faster acceleration/deceleration time, up to 0.1 seconds, improve the efficiency of machine tool production.

内置直流制动功能, 加上可外接能耗电阻, 可达到高速启停, 稳定可靠。
Built in DC brake, and external braking resistor, can reach to start-stop at high speed stably and reliably.



FPR500H冷镦机专用变频器

FPR500H series inverter for cold heading machine

FPR500T系列冷镦机专用变频器采用先进的 闭环矢量控制算法, 解决了冷镦机工作中惯量负载冲击大、点动启动电流大、转速跟踪不平稳等问题。

The special frequency converter of fpr500t series cold heading machine adopts advanced closed loop vector control algorithm to solve the problem of big inertia load impact in cold heading machine work. The problem of large starting current and unstable speed tracking is also discussed.

技术特点

Technical characteristics

采用先进 闭环矢量控制, 低速转矩大, 动态响应快。
The advanced closed loop vector control is adopted, the low speed torque is large, and the dynamic response is fast.

冲击电流输出平缓, 保证冷镦机在工作中加减速时间很短的情况下不跳闸连续运行。
The output of the impact current is gentle, so that the cold heading machine can not be tripped to run continuously in the case of a short acceleration and deceleration time in the work.

全系列内置制动单元。
Full range of built-in brake units.

不需要再换飞轮, 调试更方便、精确, 保护功能齐全。
Do not need to change the flywheel, debugging more convenient, accurate, complete protection.



FPR500J注塑机伺服驱动器

FPR500J series servo drive for injection machine

FPR500J系列注塑机伺服驱动器能根据负载变化改变输出电压, 持续优化电机效率, 使输出功率与压力和流量同步跟踪控制, 消除原系统高压溢流能量损失。可大大减轻合模、开模震动, 稳定生产工艺、提高产品质量和生产效率。

FPR500J Series Injection Molding Machine Servo Drive can change output voltage according to load change, optimize motor efficiency continuously, make output power and pressure and flow synchronously track control, eliminate the original system high pressure overflow energy loss. It can greatly reduce the vibration of mold closing and opening, stabilize the production process, and improve the product quality and production efficiency.

技术特点

Technical characteristics

位置重复精度高: 快速响应速度保障了开模、合模精度, 射胶终点位置精度可达0.1mm;

High position repetition precision: fast response speed guarantees the mold opening and closing precision, and the glue injection end position precision can reach 0.1 mm;

压力控制精度高: 高精度、高响应的PID算法使系统压力非常稳定, 压力波动低于0.5bar, 提高了饲料制品的成型质量。

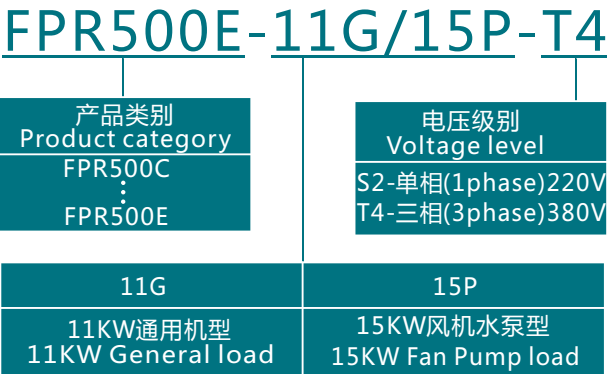
High precision of pressure control: The high precision and high response PID algorithm makes the system pressure very stable, the pressure fluctuation is less than 0.5bar, which improves the quality of feed products.

节能: 与传统的定量泵与变量泵系统相比, 伺服油泵系统结合了伺服电机快速的无级调速特性和液压油泵的自主调节油压特性, 节能率可达60%。

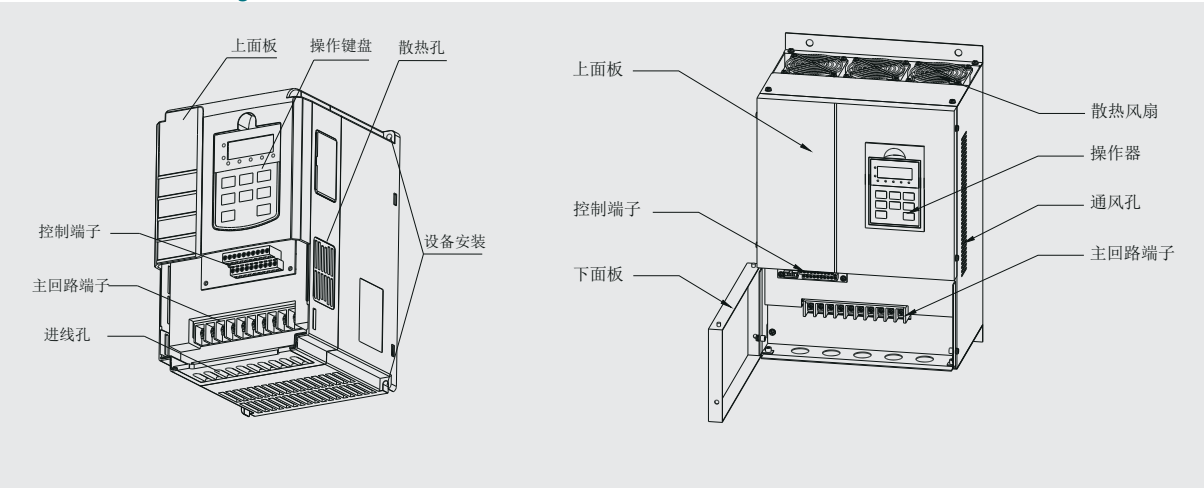
Energy saving: Compared with the traditional quantitative pump and variable pump system, servo pump system combines the fast stepless speed regulation characteristics of servo motor and the hydraulic oil pump self-regulating oil pressure characteristics, the energy saving rate can be as high as 60%.



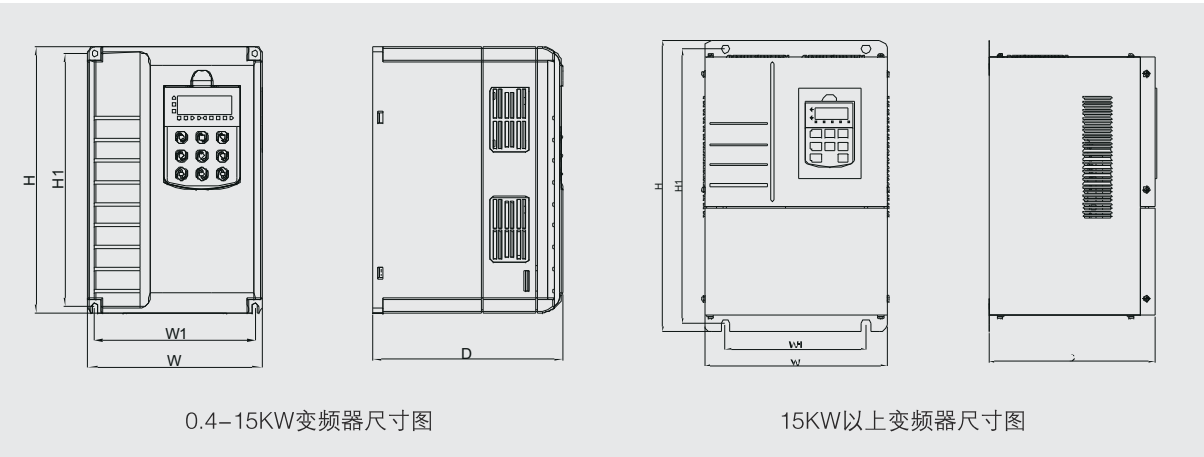
产品型号说明
Product description



产品结构图
Product structure diagram



安装尺寸
Installation size



产品参数表
Product parameter list

变频器型号 Frequency converter type	适配电机 Motor	W (mm)	H (mm)	D (mm)	W1 (mm)	H1 (mm)	安装螺丝 Screw
FPR500-0.7G-S2	0.75	118	185	157	106	177	□ 4
FPR500-1.5G-S2	1.5	118	185	157	106	177	□ 4
FPR500-2.2G-S2	2.2	118	185	157	106	177	□ 4
FPR500-0.7G-T4	0.75	118	185	157	106	177	□ 4
FPR500-1.5G-T4	1.5	118	185	157	106	177	□ 4
FPR500-2.2G-T4	2.2	118	185	157	106	177	□ 4
FPR500-4.0G-T4	4.0	118	185	157	106	177	□ 4
FPR500-4.0G/5.5P-T4	4.0/5.5	160	248	178	148	235	□ 5
FPR500-5.5G/7.5P-T4	5.5/7.5	160	248	178	148	235	□ 5
FPR500-7.5G/011P-T4	7.5/11	160	248	178	148	235	□ 5
FPR500-011G/015P-T4	11/15	220	320	197	205	305	□ 5
FPR500-15G/18.5P-T4	15/18.5	220	320	197	205	305	□ 5
FPR500-18.5G/22P-T4	18.5/22	220	320	197	205	305	□ 5
FPR500-022G-T4	22	220	320	197	205	305	□ 5
FPR500-022G/030P-T4	22/30	285	460	235	200	443	□ 6
FPR500-030G/037P-T4	30/37	285	460	235	200	443	□ 6
FPR500-037G/045P-T4	37/45	285	460	235	200	443	□ 6
FPR500-045G/055P-T4	45/55	320	550	303	200	525	□ 8
FPR500-055G/075P-T4	55/75	320	550	303	200	525	□ 8
FPR500-075G/090P-T4	75/90	375	650	345	230	625	□ 8
FPR500-090G/110P-T4	90/110	375	650	345	230	625	□ 8
FPR500-110G/132P-T4	110/132	375	650	345	230	625	□ 8
FPR500-132G/160P-T4	132/160	500	765	350	400	742	□ 10
FPR500-160G/185P-T4	160/185	500	765	350	400	742	□ 10
FPR500-185G/200P-T4	185/200	500	765	350	400	742	□ 10
FPR500-200G/220P-T4	200/220	500	765	350	400	742	□ 10
FPR500-220G/250P-T4	220/250	750	860 1325	450	500	835	□ 12
FPR500-250G/280P-T4	250/280	750	860 1325	450	500	835	□ 12
FPR500-280G/315P-T4	280/315	750	860 1325	450	500	835	□ 12
FPR500-315G/355P-T4	315/355	750	860 1325	450	500	835	□ 12

标准接线图

Standard wiring diagram

CHIFON

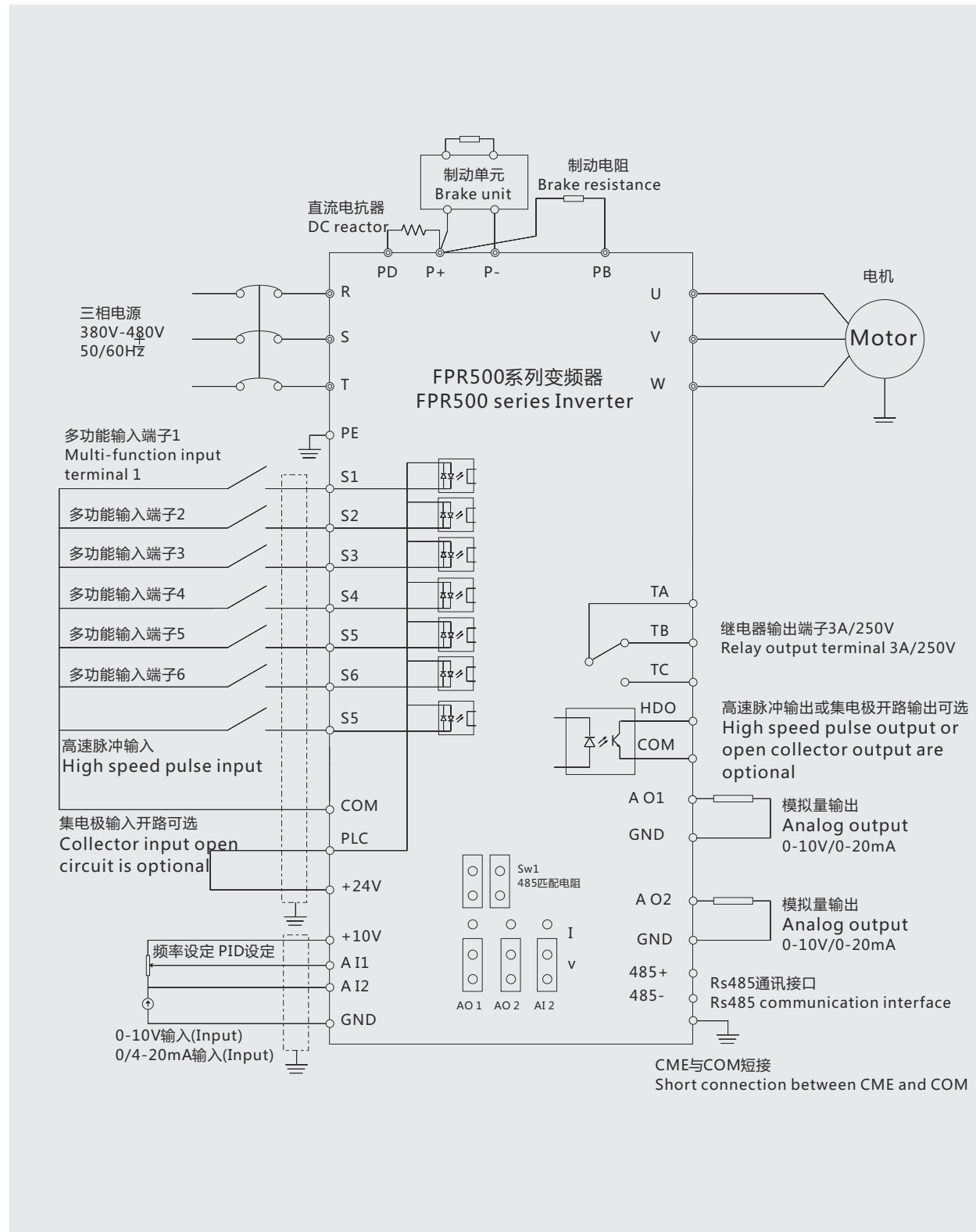
部分应用

Some application

CHIFON

标准接线图

Standard wiring diagram



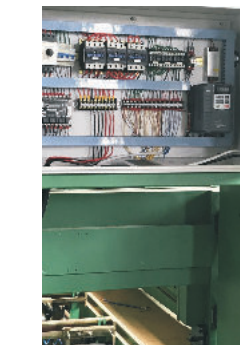
部分应用及现场图片

Part application and scene pictures

橡胶割条机
Rubber cutting machine



木工机械
Woodworking machine



冷镦机
Cold heading machine



空压机
Air compressor



音乐喷泉
Musical fountain



拉丝机
Wire drawing machine



线缆机械
Cable machine



印染机械
Printing and dyeing machine



消防供水
Fire water supply



污泥燃烧系统
Sludge combustion system



煤粉气化
Pulverized coal gasification



水处理系统
Water treatment system

