

# PH600 Series Electro-hydraulic Servo Drive

PH600 系列高性能电液伺服驱动器选型手册



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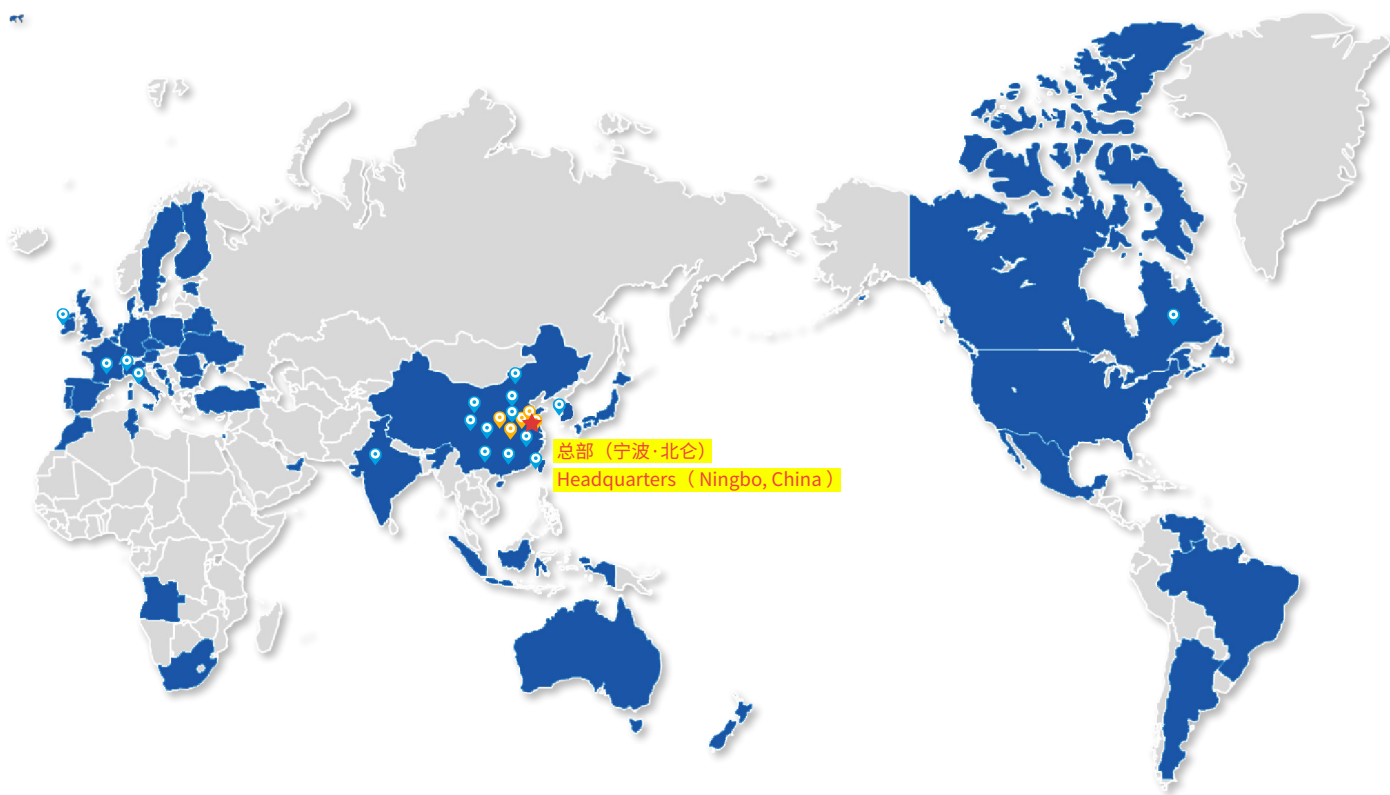
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## Company Profile 企业简介

宁波菲仕技术股份有限公司（简称：菲仕技术）成立于 2001 年，由民营控股、先进制造产业投资基金和宁波通商集团等战略投资人参股，公司致力于以“高效节能、精准控制”电驱动技术为核心的创新及产业化，为运动控制和能量转换领域提供系统产品和综合解决方案，经过多年品牌沉淀，菲仕已成为一家集研发、生产、销售为一体，拥有国内外多家控股子公司的集团化创新型高科技企业。

Ningbo Physis Technology Co., Ltd. (hereinafter referred to as Physis) was founded in 2001. Physis always devotes to innovation and industrialization of electrical drive technology, provides servo products and solutions for the field of motion control & energy conversion. After years of brand development and accumulation, Physis becomes a collectivized & innovative high-tech enterprise, which collects together R&D, manufacturing and sales, and has a numbers of domestic and overseas subsidiaries.



★ 总部  
Headquarters

📍 5 大生产基地  
Manufacturing Plant

📍 3 大研发中心  
R&D center

📍 17 个海内外分支机构  
Sales of subsidiaries and agency services

■ 销售产品及服务国家  
Countries in which products are sold and services are served

## Global presence 全球布局

### 立足全国 放眼全球

总部“永动谷”落户中国宁波北仑，在国内产业链完善的宁波、株洲、天津、赣州建立大型生产基地。建立国内外分子公司 17 家，合作伙伴百余家，形成覆盖全国、面向全球市场的营销服务网络，逐步落地国际化战略。

Physis has established large-scale production bases in Ningbo, Zhuzhou, Tianjin, and Guangzhou, which have a complete domestic industrial chain.

It has established 17 domestic and foreign subsidiaries and more than 100 partners, formed a marketing service network covering the whole country and facing the global market, and gradually implemented the internationalization strategy.



## PH600A 系列高性能电液伺服驱动器

功率范围：7.5kW~110kW

支持闭环矢量控制，内置 PID 控制，简便的增益调整及增益切换功能

支持 4 种现场总线：标配 Modbus，选配 CANopen

高可靠性，内置 C3 滤波器，核心电路板标配加厚防护涂层

性能优越，环境适应性好，结构简单，体积小、功率密度大，便于安装

保护功能完备，具有输入缺相保护、过流、过压、过载、过热、制动过载保护等功能

用 LED 面板或外置 HMI 来修改参数，支持参数拷贝，操作方便

采用可插拔式端子，散热风扇可快速更换，更方便现场接线和维护

## PH600A Series Servo Drive

Power range: 7.5kW~110kW

Closed-loop vector control, built-in PID control

Multi type Communication, Modbus RTU, CANopen High Reliability, Built-in C3 filter, Thickened protective coating

Complete Protection functions, such as Phase-lacking, Overcurrent, Overvoltage, Overload, Overheat, Brake overload and so on

Easy operation, using LED and keypad or external HMI to modify parameters, supporting parameter quick copying function

Convenient wiring and maintenance, using pluggable terminals and cooling fan can be quickly replaced

## PH600C 系列高性能电液伺服驱动器

控制板优化新增功能：

功率范围：7.5KW-355KW

支持闭环矢量控制，支持开环矢量控制、空间电压矢量控制

支持多种现场总线：标配 Modbus, CANopen, 选配 Profinet、EtherCAT

取消 HMI, 新增 LCD 键盘，支持参数拷贝

优化软件算法及控制板端子功能

可选配常见增量式 PG 卡、绝对值 PG 卡等

## PH600C series high-performance electro-hydraulic servodrives

New features in control board optimization:

Power range: 7.5KW-355KW

Support closed-loop vector control, open-loop vector control, and space voltage vector control

Supports a variety of fieldbuses: Modbus, CANopen as standard, Optional Profinet and EtherCAT

Cancel HMI, add LCD keyboard, and support parameter copying

Optimized software algorithms and control board terminal functions

Common incremental PG cards, absolute PG cards, etc. are optional



# Servo System Solution

## 伺服系统解决方案

### 配置

控制系统、交流伺服驱动器、交流永磁伺服电机、油泵、速度反馈单元、压力反馈单元等

### 优势

PQ 控制

压力控制稳定；压力波动低于 0.5bar

性能稳定，可靠；重复定位精度高，噪音低

节能高效，节能率 30%~70%

快速响应，响应时间低于 30ms

### Configurations

Control system, servo drive, PM servo motor, oil pump, speed feedback unit, pressure feedback unit, etc

### Advantages

PQ control

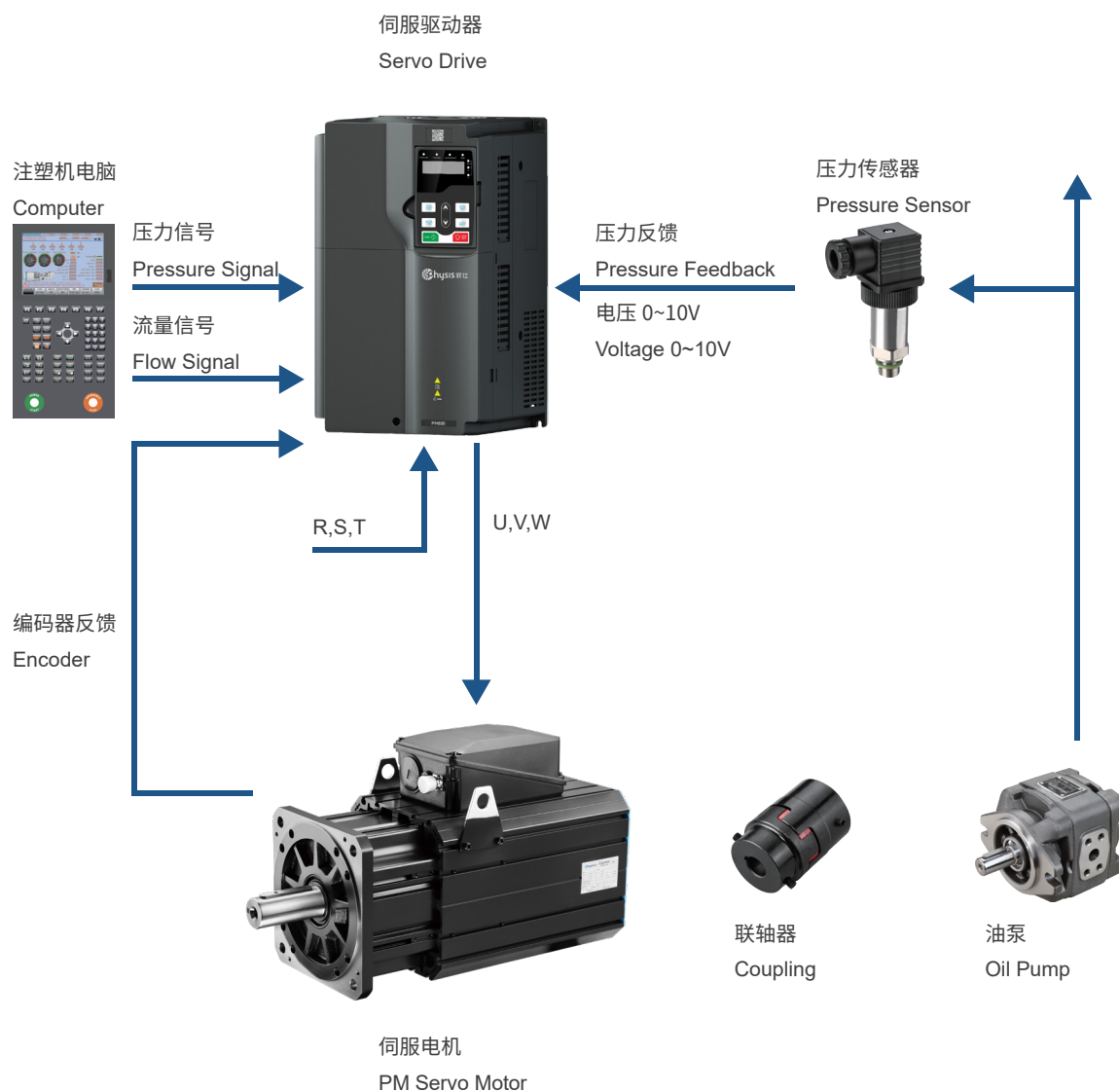
Pressure control stability, pressure fluctuations < 0.5Bar

Performance stability & reliability

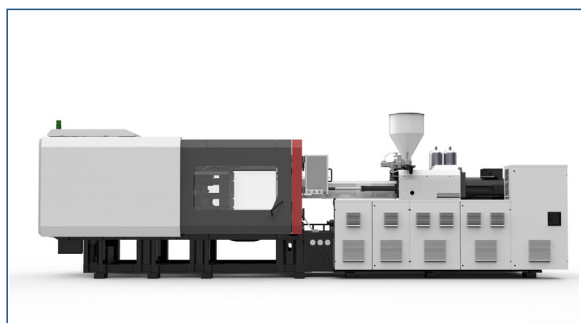
High position repeat accuracy, low noise

Energy efficiency 30%~70%

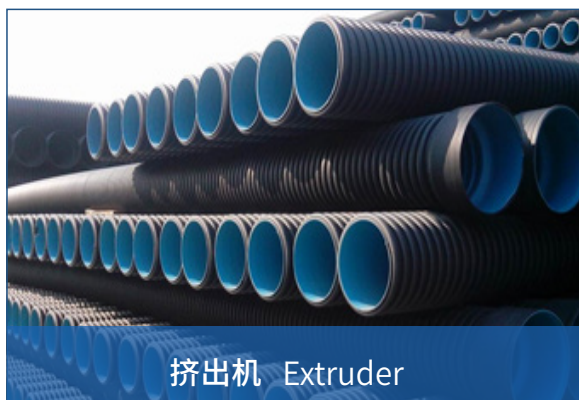
Quick response < 30ms



## Application 应用领域



注塑机 Injection Molding Machine



挤出机 Extruder



钢铁冶金 Iron and steel



压铸机 Die Casting Machine



液压机 Hydraulic Press



折弯机 Bending Machine



PH600 . 011 . 43 A R S F — XX

驱动器系列识别  
Series Identify驱动器功率识别  
Power Identify电压等级  
Voltage Class版本号  
Hardware  
VersionPG 卡识别  
PG Card总线识别  
Communication  
Bus冷却方式识别  
Cooling备用识别码  
Customized Drive  
IdentificationF= 强制风冷  
Fan cooling  
Y= 强制液冷 (部分功率可定制)  
Liquid cooling 冷却方式S: 标配 Modbus 标准型 (PH600A)  
Standard Modbus Standard Type (PH600A)  
C: 标配 Modbus 标准型和 CAN 通信 (PH600C)  
Standard Modbus standard type and CAN  
communication (PH600C)  
E: 选配 EtherCAT 通信 (PH600C 可选配)  
Optional EtherCAT communication  
(optional for PH600C)  
F: 选配 Profinet 通信 (PH600C 可选配)  
Optional Profinet communication  
(optional for PH600C) 总线识别R= 旋转变压器  
Resolver encoder PG 卡识别A: 不内置直流电抗器, 内置制动单元 (7.5KW-55KW)  
No built-in DC reactor, built-in brake unit (7.5KW-55KW)  
B: 内置直流电抗器和制动单元 (75KW-110KW)  
Built-in DC reactor and brake unit (75KW-110KW)  
C: 不内置直流电抗器和制动单元  
No built-in DC reactor and brake unit  
D: 内置直流电抗器, 不内置制动单元 (132KW 及以上)  
Built-in DC reactor, no built-in brake unit  
(above 132KW) 硬件版本号43 = 380Vac 3 相  
43=380Vac 3 phases 电压等级007 = 7.5kW 011 = 11kW 015 = 15kW 018 = 18.5kW 022 = 22kW 030 = 30kW 037 = 37kW 045 = 45kW  
055 = 55kW 075 = 75kW 090 = 90kW 110 = 110kW 132 = 132kW 160 = 160kW 185 = 185kW  
200 = 200kW 220 = 220kW 250 = 250kW 280 = 280kW 315 = 315kW 功率识别

驱动器系列识别码: 600 系列变频器

代码示例:

PH600.011.43ARCF

菲仕 PH600 系列伺服驱动器, 功率 11kW, 380V 输入三相电压, C 版硬件版本, 标配旋变, 标配 Modbus 和 CAN 通讯, 强制风冷

Code Example:

PH600.011.43ARCF

PH 600 servo series drive, 11kW, input voltage 380V, hardware version C, resolver encoder, modbus and CAN communication bus, fan coolin  
07

# Drive Technical Specifications

## PH600 A 系列伺服驱动器技术规格

| 项目 Item                                     |                               | 描述 Description                                                                                                                                                                          |
|---------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 控制方式<br>Control Mode                        |                               | 三相全波整流, IGBT PWM 控制正弦波电流驱动方式<br>Three phase full wave rectification, IGBT PWM control sine wave current drive mode                                                                      |
| 最高输出频率<br>Max Output Frequency              |                               | 400Hz                                                                                                                                                                                   |
| 电机位置传感器<br>Motor Position Sensor            |                               | 旋转变压器Resolver、分辨率4096pulse/rev                                                                                                                                                          |
| 环境<br>Environment                           | 工作温度<br>Operation Temperature | -10°C~+50°C (不冻结, 40°C以上降额使用)<br>-10°C~+50°C(Not frozen, derated for use above 40 °C)                                                                                                   |
|                                             | 储存温度<br>Storage Temperature   | -30°C~+60°C (不冻结)<br>-30°C~+60°C (Not frozen)                                                                                                                                           |
|                                             | 湿度<br>Humidity                | 工作/储存≤90%RH, 无凝露;<br>Operation/Storage≤90%RH,no condensation                                                                                                                            |
|                                             | 空气<br>Air                     | 室内(无日晒), 无腐蚀性气体, 无易燃性气体, 无油气, 无尘埃<br>Indoor, no corrosive gas, no flammable gas, no oil gas, no dust                                                                                    |
|                                             | 海拔<br>Altitude                | 3000m以下(1000m以上降额使用, 高度每升高100m, 降额)<br>Below 3000m (Derating for use above 1000m, derating for every 100m increase in height)                                                           |
|                                             | 防护等级<br>Protection Grade      | IP20                                                                                                                                                                                    |
| 冷却方式<br>Cooling Method                      |                               | F: 风冷<br>Forced air cooling                                                                                                                                                             |
| 数字信号<br>Digital Signal                      | 输入<br>Input                   | 6路DI, 内部阻抗: 5.1kΩ<br>6 Digital DI, internal impedance: 5.1kΩ                                                                                                                            |
|                                             | 输出<br>Output                  | 3路DO, 开路集电极输出<br>3 Digital output                                                                                                                                                       |
| 继电器<br>Relay                                | 输出<br>Output                  | 1路继电器输出: RA常开, RB常闭, RC公共端<br>触点容量: 3A/AC250V, 1A/DC30V<br>1 Relay output: RA:NO,RB:NC, RC:Common<br>Contact rating:3A/AC250V, 1A/DC30V                                                 |
| 模拟信号<br>Analog Signal                       | 输入<br>Input                   | 2路(AI1、AI2) 12位A/D输入, 0~10V; 1路(AI3) 12位A/D输入, 0~10V/0~20mA<br>2 Analog inputs, 12-bit A/D, 0~10V; 1 Analog input, 12-bit A/D, 0~10V/0~20mA                                             |
|                                             | 输出<br>Output                  | 2路输出: 10位D/A, 0~10V/0~20mA<br>2 Analog outputs: 10-bit D/A, 0~10V/0~20mA                                                                                                                |
| 控制电源<br>Control Power                       | 输出<br>Output                  | 对外提供15V基准电源, 最大输出50mA<br>对外提供24V基准电源, 最大输出100mA<br>Provide DC15V reference power supply with maximum output of 50mA<br>Provide DC24V reference power supply with maximum output of 50mA |
| RS485 通信接口<br>RS485 Communication Interface | 通讯<br>Communication           | 通信协议: Modbus RTU<br>波特率: 9600bps, 19200bps, 38400bps, 57600bps (Default:19200bps)                                                                                                       |

| 项目 Item                                       |                                            | 描述 Description                                                                                                                                                                             |
|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 电机温度<br>Motor Temperature                     | 电机温度传感器<br>Motor Temperature Sensor        | KTY84, PT1000, PTC130                                                                                                                                                                      |
| 通讯功能<br>Communication                         |                                            | 标配Modbus RTU,选配CAN                                                                                                                                                                         |
| LED 显示面板与键盘<br>LED Display Panel and Keyboard |                                            | 5位LED显示, 8个功能键<br>5-digit LED display with 8 function keys                                                                                                                                 |
| 控制功能性能<br>Control Function Performance        | 速度控制<br>Speed Control                      | 可设定为模拟输入AI、内部参数、通信控制等                                                                                                                                                                      |
|                                               | 多泵并联控制<br>Multi Pump Control               | 可控制16个泵, 五种工作方式(多泵, 复合, 多模式, 通信两模式, 通信四模式)<br>Capable of controlling 16 pumps and five working modes(Multi pump, composite, multi mode, communication two mode, communication four mode)   |
|                                               | 压力控制精度<br>Pressure Control Accuracy        | ±1bar                                                                                                                                                                                      |
|                                               | 流量控制精度<br>Flow Control Accuracy            | ±0.5%FS                                                                                                                                                                                    |
|                                               | 速度控制精度<br>Speed Control Accuracy           | ±0.5%                                                                                                                                                                                      |
|                                               | 压力控制阶跃响应<br>Pressure Step Control Response | ≤100ms                                                                                                                                                                                     |
|                                               | 速度阶跃相应<br>Speed Step Response              | ≤50ms                                                                                                                                                                                      |
|                                               | 流量校正功能<br>Flow Correction Function         | 根据各种泵特性对输出流量进行压力校正<br>Pressure correction of output flow rate based on various pump characteristics                                                                                        |
|                                               | 转矩响应时间<br>Torque Response Time             | ≤2ms                                                                                                                                                                                       |
|                                               | 报警信息<br>Alarm Infor                        | 过电流、直流过压、直流欠压、制动电阻损坏、模块过温、压力传感器故障、正反向过速、制动过载等<br>Overcurrent、DC overvoltage、DC undervoltage、brake resistor damage、module over temperature、pressure sensor failure、overspeed、brake overload |
| 保护功能<br>Protection Function                   | 报警记录<br>Alarm Record                       | 可存储5个报警记录<br>Can store 5 alarm records                                                                                                                                                     |
| 其他<br>Other                                   | EMC 滤波器<br>EMC Filter                      | C3: 内置C3滤波器<br>Built-in C3 Filter                                                                                                                                                          |
|                                               | 质保期<br>Warranty Period                     | 18个月质保<br>18 month warranty                                                                                                                                                                |
|                                               | 认证要求<br>Certification Requirements         | 满足CE认证<br>Meet CE certification                                                                                                                                                            |

# Drive Technical Specifications

## PH600 C 系列伺服驱动器技术规格

| 项目 Item                                     |                               | 描述 Descripton                                                                                                                                                                           |
|---------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 控制方式<br>Control Mode                        |                               | 三相全波整流, IGBT PWM 控制正弦波电流驱动方式<br>Three phase full wave rectification, IGBT PWM control sine wave current drive mode                                                                      |
| 最高输出频率<br>Max Output Frequency              |                               | 400Hz                                                                                                                                                                                   |
| 电机位置传感器<br>Motor Position Sensor            |                               | 旋转变压器Resolver、分辨率4096pulse/rev                                                                                                                                                          |
| 环境<br>Environment                           | 工作温度<br>Operation Temperature | -10°C~+50°C (不冻结, 40°C以上降额使用)<br>-10°C~+50°C (Not frozen, derated for use above 40 °C)                                                                                                  |
|                                             | 储存温度<br>Storage Temperature   | -30°C~+60°C (不冻结)<br>-30°C~+60°C (Not frozen)                                                                                                                                           |
|                                             | 湿度<br>Humidity                | 工作/储存≤90%RH, 无凝露;<br>Operation/Storage≤90%RH, no condensation                                                                                                                           |
|                                             | 空气<br>Air                     | 室内(无日晒), 无腐蚀性气体, 无易燃性气体, 无油气, 无尘埃<br>Indoor, no corrosive gas, no flammable gas, no oil gas, no dust                                                                                    |
|                                             | 海拔<br>Altitude                | 3000m以下(1000m以上降额使用, 高度每升高100m, 降额)<br>Below 3000m (Derating for use above 1000m, derating for every 100m increase in height)                                                           |
|                                             | 防护等级<br>Protection Grade      | IP20                                                                                                                                                                                    |
| 冷却方式<br>Cooling Method                      |                               | F: 风冷<br>Forced air cooling                                                                                                                                                             |
| 数字信号<br>Digital Signal                      | 输入<br>Input                   | 5路DI, 内部阻抗: 3.3kΩ<br>5 Digital DI, internal impedance: 3.3kΩ                                                                                                                            |
|                                             | 输出<br>Output                  | 2路DO, 开路集电极输出<br>2 Digital output                                                                                                                                                       |
| 继电器<br>Relay                                | 输出<br>Output                  | 1路继电器输出: RA常开, RB常闭, RC公共端<br>触点容量: 3A/AC250V, 1A/DC30V<br>1 Relay output: RA:NO, RB:NC, RC:Common<br>Contact rating: 3A/AC250V, 1A/DC30V                                               |
| 模拟信号<br>Analog Signal                       | 输入<br>Input                   | 2路(AI1、AI2) 12位A/D输入, AI1为0~10V, AI2为-10V~10V; 1路(AI3) 12位A/D输入, 0~10V/0~-20mA<br>2 Analog inputs, 12-bit A/D, AI1 is 0~10V, AI2 is -10~10V; 1 Analog input, 12-bit A/D, 0~10V/0~-20mA  |
|                                             | 输出<br>Output                  | 2路输出: 10位D/A, 0~10V/0~-20mA<br>2 Analog outputs: 10-bit D/A, 0~10V/0~-20mA                                                                                                              |
| 控制电源<br>Control Power                       | 输出<br>Output                  | 对外提供15V基准电源, 最大输出50mA<br>对外提供24V基准电源, 最大输出100mA<br>Provide DC15V reference power supply with maximum output of 50mA<br>Provide DC24V reference power supply with maximum output of 50mA |
| RS485 通信接口<br>RS485 Communication Interface | 通讯<br>Communication           | 通信协议: Modbus RTU<br>波特率: 9600bps, 19200bps, 38400bps, 57600bps (Default: 19200bps)                                                                                                      |

| 项目 Item                                       |                                            | 描述 Descripton                                                                                                                                                                                     |
|-----------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 电机温度<br>Motor Temperature                     | 电机温度传感<br>Motor Temperature Sensor         | KTY84, PT1000, PTC130                                                                                                                                                                             |
| 通讯功能<br>Communication                         |                                            | 标配Modbus RTU, CAN; 选配EtherCAT、Profinet                                                                                                                                                            |
| LED 显示面板与键盘<br>LED Display Panel and Keyboard |                                            | 5位LED显示, 8个功能键<br>5-digit LED display with 8 function keys                                                                                                                                        |
| 控制功能性能<br>Control Function Performance        | 速度控制<br>Speed Control                      | 可设定为模拟输入AI、内部参数、通信控制等                                                                                                                                                                             |
|                                               | 多泵并联控制<br>Multi Pump Control               | 可控制16个泵, 五种工作方式(多泵, 复合, 多模式, 通信两模式, 通信四模式)<br>Capable of controlling 16 pumps and five working modes (Multi pump, composite, multi mode, communication two mode, communication four mode)         |
|                                               | 压力控制精度<br>Pressure Control Accuracy        | ±1bar                                                                                                                                                                                             |
|                                               | 流量控制精度<br>Flow Control Accuracy            | ±0.5%FS                                                                                                                                                                                           |
|                                               | 速度控制精度<br>Speed Control Accuracy           | ±0.5%                                                                                                                                                                                             |
|                                               | 压力控制阶跃响应<br>Pressure Step Control Response | ≤100ms                                                                                                                                                                                            |
|                                               | 速度阶跃响应<br>Speed Step Response              | ≤50ms                                                                                                                                                                                             |
|                                               | 流量校正功能<br>Flow Correction Function         | 根据各种泵特性对输出流量进行压力校正<br>Pressure correction of output flow rate based on various pump characteristics                                                                                               |
|                                               | 转矩响应时间<br>Torque Response Time             | ≤2ms                                                                                                                                                                                              |
|                                               | 报警信息<br>Alarm Infor                        | 过电流、直流过压、直流欠压、制动电阻损坏、模块过温、压力传感器故障、正反向过速、制动过载等<br>Overcurrent, DC overvoltage, DC undervoltage, brake resistor damage, module over temperature, pressure sensor failure, overspeed, brake overload |
| 保护功能<br>Protection Function                   | 报警记录<br>Alarm Record                       | 可存储5个报警记录<br>Can store 5 alarm records                                                                                                                                                            |
| 其他<br>Other                                   | EMC 滤波器<br>EMC Filter                      | C3: 内置C3滤波器<br>Built-in C3 Filter                                                                                                                                                                 |
|                                               | 质保期<br>Warranty Period                     | 18个月质保<br>18 month warranty                                                                                                                                                                       |
|                                               | 认证要求<br>Certification Requirements         | 满足CE认证<br>Meet CE certification                                                                                                                                                                   |

## Drive Specifications

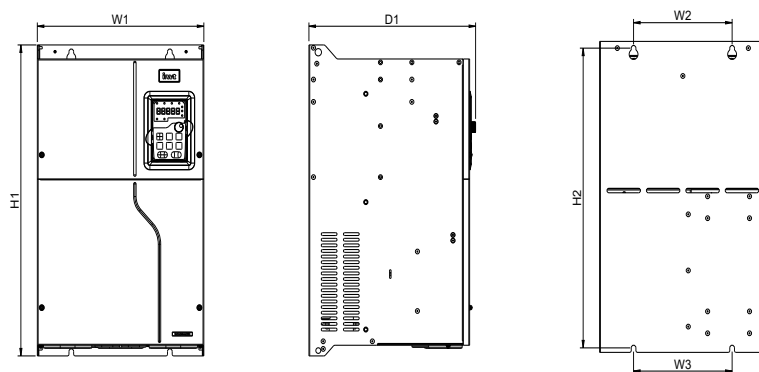
### PH600 系列伺服驱动器规格参数

| PH600__43ARSF                                                            | 007                     | 011  | 015  | 018  | 022       | 030  | 037       | 045   | 055 | 075                                                          | 090                                                       | 110 |
|--------------------------------------------------------------------------|-------------------------|------|------|------|-----------|------|-----------|-------|-----|--------------------------------------------------------------|-----------------------------------------------------------|-----|
| 适用电机容量 (kW)<br>Applicable motor capacity                                 | 7.5                     | 11   | 15   | 18   | 22        | 30   | 37        | 45    | 55  | 75                                                           | 90                                                        | 110 |
| 额定输出电流 (A)<br>Rated output current                                       | 18.5                    | 25   | 32   | 38   | 45        | 60   | 75        | 92    | 115 | 150                                                          | 180                                                       | 215 |
| 过载 (Arms) 持续时间<br>5min<br>Overload (Arms) lasts 5min                     | 26                      | 35   | 48   | 53   | 67        | 99   | 109       | 138   | 167 | 195                                                          | 242                                                       | 258 |
| 最大输出电流 (Arms) 持续<br>时间 30s<br>Max. output current (Arms)<br>lasts 30s    | 32.5                    | 40.7 | 55.2 | 63.6 | 81.3      | 113  | 141       | 169.7 | 226 | 297                                                          | 318                                                       | 350 |
| 额定输入电流 (A)<br>Rated input current(Arms)                                  | 25                      | 32   | 40   | 47   | 56        | 70   | 80        | 94    | 128 | 160                                                          | 190                                                       | 225 |
| 输入电压<br>Input voltage                                                    | AC 380V~480V            |      |      |      |           |      |           |       |     |                                                              |                                                           |     |
| 电压波动范围<br>Voltage fluctuation range                                      | -15%~+10%, AC 323V~528V |      |      |      |           |      |           |       |     |                                                              |                                                           |     |
| 输入频率<br>Input frequency                                                  | 50Hz/60Hz, 47~63Hz      |      |      |      |           |      |           |       |     |                                                              |                                                           |     |
| 重量 (kg)<br>Weight                                                        | 4.8                     | 4.8  | 6.1  | 6.1  | 9.5       | 14.5 | 14.5      | 21    | 21  | 27                                                           | 49                                                        | 49  |
| 推荐外置制动电阻规格<br>Recommended external<br>braking resistor<br>specifications | 40Ω 1000W               |      |      |      | 15Ω 1500W |      | 10Ω 2000W |       |     | 2 个 20Ω 2000w<br>电阻并联<br>resistors in parallel<br>connection | 2 个 10Ω 2000w 电阻并联<br>resistors in parallel<br>connection |     |
| 最小制动电阻 (Ω)<br>Min. braking resistance                                    | 31                      | 31   | 23   | 23   | 15        | 11.7 |           | 6.4   |     |                                                              | 4.4                                                       | 4.4 |

注：132kW 以上可联系技术人员进行选型

## Dimensions of Drive

### PH600 系列伺服驱动器壁挂安装尺寸



| PH600__43ARSF | 外形尺寸 (mm)<br>Outline Dimensions |     |     | 安装孔位 (mm)<br>Mounting Hole Distance |     |     | 安装孔径<br>Hole Diameter | 固定螺钉<br>Fixing Screw |
|---------------|---------------------------------|-----|-----|-------------------------------------|-----|-----|-----------------------|----------------------|
|               | W1                              | H1  | D1  | H2                                  | W2  | W3  |                       |                      |
| 007           | 145                             | 280 | 203 | 268                                 | 130 | /   | Ø 6                   | M5                   |
| 011           |                                 |     |     |                                     |     |     |                       |                      |
| 015           | 169                             | 320 | 210 | 308                                 | 154 | /   | Ø 6                   | M5                   |
| 018           |                                 |     |     |                                     |     |     |                       |                      |
| 022           | 200                             | 341 | 208 | 328.6                               | 185 | /   | Ø 6                   | M5                   |
| 030           | 250                             | 400 | 222 | 380                                 | 230 | /   | Ø 6                   | M5                   |
| 037           |                                 |     |     |                                     |     |     |                       |                      |
| 045           | 282                             | 560 | 257 | 542                                 | 160 | 226 | Ø 9                   | M8                   |
| 055           |                                 |     |     |                                     |     |     |                       |                      |
| 075           |                                 |     |     |                                     |     |     |                       |                      |
| 090           | 338                             | 554 | 330 | 534                                 | 200 | /   | Ø 9.5                 | M8                   |
| 110           |                                 |     |     |                                     |     |     |                       |                      |



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