

**ATA 奥托科技**



**产品选型手册**

# **ATA QB-H系列 中高压电动机固态软启动装置**

专业与品质的代言者



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长沙奥托自动化技术有限公司隶属于长沙奥托科技，由原国防科技大学奥托开发中心发展而来，是一家集研发、生产、销售、国际贸易于一体的现代化高新技术企业。

#### 以“专”为本

秉承着“专”的核心价值观，公司致力于为客户提供“专业技术，真诚服务，专精品质”，自主研制生产出ATA QB系列低压软起动器、ATA QB-JDR系列软起柜成套、ATA SA系列低压软起动器、ATA SA-JDR系列软起柜成套、ATA QB-H系列中高压固态软起动装置、ATA QB-S系列手车式中高压固态软起动装置、ATA SA-H系列中高压固态软起动装置、ATA QB-R系列绕线电机调速控制器(行车控制器)、ATA QBLV系列低压变频器、ATA QBMV系列高压变频器、KTZ系列能源汽车电机控制器、FDCS现场数据测控系统、TPV/TPR电压/功率调节器、DZH系列多功能转换器等，已在钢铁、冶金、化工、石油、造纸、造船等领域得到了广泛应用。公司还在火力发电机组数据监测系统、高炉煤气布袋除尘控制系统、工厂锅炉监测系统、工厂能源计量管理中心、高低压配电监测系统、涂料厂自动配料系统、丙纶纺丝机控制系统、新能源汽车电机控制器已成功配套生产投入市场等工程项目上有成功的应用和丰富的经验。

#### 优秀技术

公司是首批在10kV等级中高压晶闸管固态软起中采用5组6500V晶闸管串联组成一相的厂家，现今无论是进口产品还是国产产品几乎均采用5组晶闸管串联，这一串联技术已成为了行业的统一技术标准；公司产品已在钢铁、矿山、水泥、石油、化工、冶金、港口、造船、电力、医药、市政、纺织、轻工、印刷、建筑、造纸等领域得到了广泛应用；能可靠地与电动机拖动设备配套使用，如：风机、水泵、压缩机、破碎机、搅拌机、球磨机、皮带机等多类型负载设备；产品已大批量成功应用于日立泵、梅塞尔等外资企业；出口至印度、巴西、阿曼、印尼、越南、伊朗、巴基斯坦、吉尔吉斯斯坦、塔吉克斯坦、俄罗斯等国家，并得到成功的应用。

#### 真诚服务

同时，奥托围绕“用户至上，真诚服务”的服务理念，打造三位一体服务模式——集售前、售中、售后三位一体的闭环式服务，联线上、线下、电话三位一体的全覆盖服务，全方位立体化服务，随时响应客户。并独创“6s服务”体系，“专项(Special)、无缝(Seamless)、专业(Specialty)、共享(Shared)、快捷(Shortcut)、灵活(Smart)为原则，提供一流服务。

Changsha ATA automation CO.,LTD.belongs to changsha ATA science and technology from the original national university of defense technology ATA development center, is a collection of research and development, production, sales, international trade in one of the modern high-tech enterprises.

#### Focus on the "only"

Adhering to the core values of "special", the company is committed to providing customers with "professional technology, dedicated service, specialized quality", independently developed and produced ATA QB series low-voltage soft starter, ATA QB-JDR Series set of soft start up cabinets, ATA SA series low-voltage soft starter, ATA SA-JDR Series set of soft start-up cabinets, ATA QB-H series medium-high pressure solid-state soft-starting, ATA QB-S series handcar-type medium-high-pressure solid-state soft-starting device, ATA SA-H series medium-high-pressure old-state soft-starting device, ATA QB-R series winding motor speed regulating controller (driving controller), ATA QBLV Series low Voltage Inverter, ATA QBMV Series medium Voltage Inverter, KTZ Series Energy Automotive Motor Controller, FDCS Field data Measurement and Control system, TPV / TPR Voltage / Power regulator, DZH Series Multi-function Converter, etc., have been used in iron and steel, metallurgy, chemical industry, etc. Petroleum, papermaking, shipbuilding and other fields have been widely used; The company is also engaged in the data monitoring system for thermal power generating sets, the bag dust removal control system for blast furnace gas, the monitoring system for factory boilers, the energy metering and management center for factories, the monitoring system for high and low voltage distribution, and the automatic batching system for paint plants. The control system of polypropylene spinning machine and the motor controller of new energy vehicle have been successfully applied and experienced in engineering projects such as production and market.

#### Good technology

The company is one of the first batch of manufacturer s to adopt 5 groups of 6500V thyristors in series to form a phase in the solid-state soft lifting of 10kV class high voltage thyristors. Nowadays almost all imported products and domestic products adopt 5 groups of thyristors in series. This series technology has become the unified technical standard of the industry. The company's products have been widely used in iron and steel mines, cement, petroleum, chemical industry, metallurgy port, shipbuilding, electric power, medicine, municipal administration, textile light industry, printing, construction, paper making and other fields. Can be used reliably with motor drive equipment, such as: fan, water pump, compressor crusher, mixer, ball mill, belt machine and other types of load equipment; Products have been successfully applied in large quantities to Hitachi pump, messel and other foreign enterprises; Export to India Brazil, Oman, Indonesia, Vietnam, Iran, Pakistan, Kyrgyzstan, Tajikistan, Russia and other countries and has been successfully applied.

#### Sincere service

At the same time, ATA around the "customer first, sincere service" concept of service, to create a trinity service model - set pre-sale, sale, after-sale three in one of the closed-loop service, online, offline, telephone three as one of the full coverage of the service all-round three-dimensional service, ready to respond to customers, And the original "6s service" system, to "Special, Seamless, Specialty, Shared, Shortcut, Smart" as the principle, to provide first-class service.



<<< 资质证书

Qualification and Certificates



2494665

CCC认证



2494665

CCC认证



采用国际标准产品认可证书



质量管理体系认证



环境管理体系认证



职业健康管理体系认证



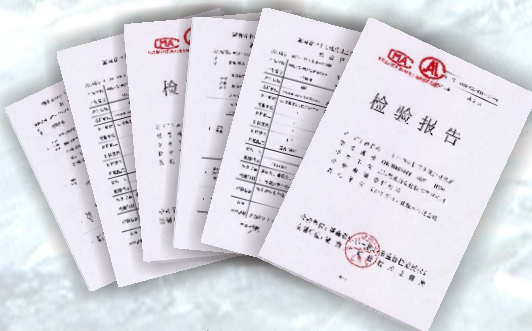
石化行业合格供应商  
石油物资供应商准入证



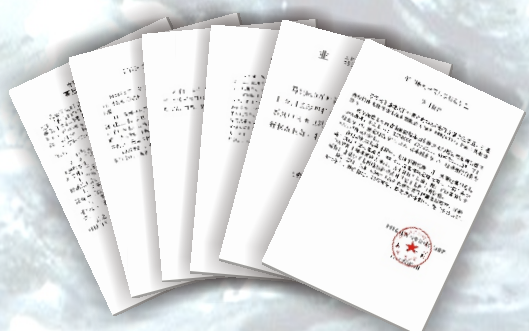
知识产权管理体系认证



CE认证  
两化融合管理体系认证



检验报告



使用报告

## <<< 产品概述

## Brief Introduction of Products

我公司生产的ATA QB-H系列中高压电动机固态软起动装置(以下简称中高压软起动装置)主要适用于高压交流电动机的起动、运行及停止的控制和保护。

ATA QB-H系列中高压软起动装置采用计算机控制技术和电力电子技术相结合,以高压大功率晶闸管为主回路的开关元件,通过改变晶闸管的导通角来控制电动机电压的平稳升降和无触点通断,实现电动机的平稳起停。以理想的电流来起动机,有效地减小对电网的冲击,降低设备的振动,噪声及起动机机械应力,延长电动机及相关设备的使用寿命。

ATA QB-H系列中高压软起动装置具有技术先进、工作稳定可靠、保护功能齐全等特点,其性能达到了国际上同类产品的先进水平。

ATA QB-H series solid state soft start device for medium and high voltage motor (Hereinafter referred to as high voltage soft start device) is a special device, designed for controlling and protecting the start, running and stop of high voltage AC motor.

This device integrates with the computer control and electronic technology. It adopts large power thyristor as the switching component of its main circuit. By changing the flow angle of thyristor, it controls the motor voltage from rise to reduce smoothly and non-contact on-off, then perfectly finishes the motor smooth starting or stopping. The ATA QB-H series soft start device can realize that uses the ideal current to drive motors, reduces the impact on the power network imposed by the current, decreases equipments' shaking, noise and starting mechanical stress, therefore helps prolong the motor and its relative equipments operation life.

ATA QB-H series of soft start device holds various characteristics such as advanced technology, reliable operation and complete protection function, and its performances have reached international standards.

## <<< 型号说明

## Model Illustration

### ATA QB-H 10 / 2500

#### 软起动装置功率规格

Power specification

2500 2500 kW

.....

10000 10000 kW

.....

23000 23000 kW

.....

50000 50000 kW

#### 额定工作电压

Rated working voltage

02 2 kV

03 3.3 kV

06 6 kV ~ 6.9 kV

10 10 kV

11 11 kV

15 15 kV

#### 型号

Model

中高压电动机固态软起动装置  
(以下简称高压软起动装置)

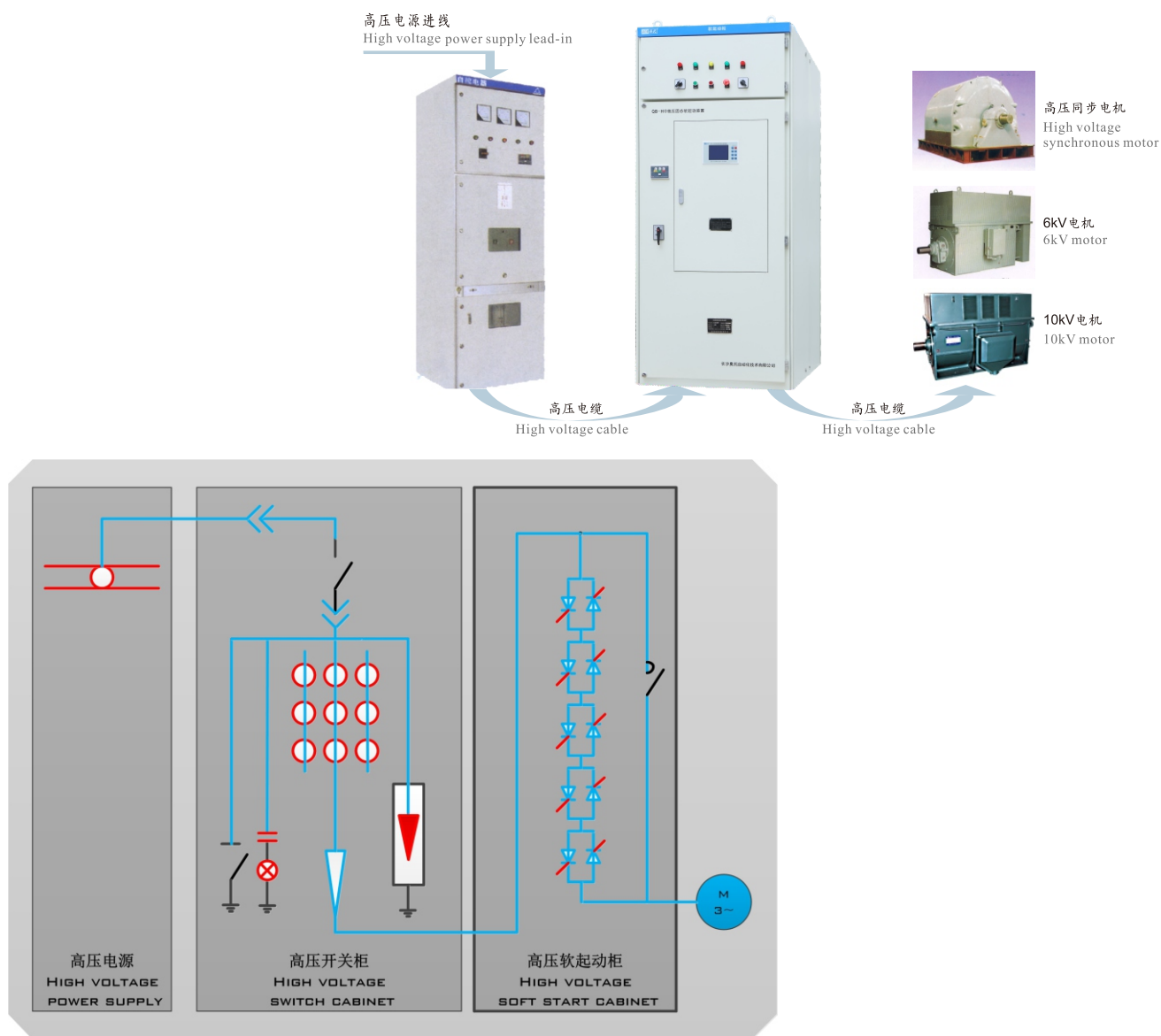
Solid state soft start device for medium and high voltage motor  
(Abbr. high voltage soft start device)

## <<< 应用领域 Application Field

ATA QB-H系列中高压软起动装置适用于额定电压2~ 15KV的大中型交流电动机的软起动。产品广泛应用于大型钢铁、石油、化工、铝业、消防、矿山、污水处理、电力等工业领域。能很好的与电动机拖动设备配套使用，如：水泵、风机、压缩机、粉碎机、搅拌机、皮带机等各种机电设备。

ATA QB-H series soft start device is applicable to the soft start of medium and large AC motor with rated voltage from 2KV to 15KV. It is widely applied to industrial fields such as large-scale steelworks, petroleum, chemical industry, aluminium industry, mine, pollution treatment and power, etc. It is suitable for applying motor with dragging equipments, such as water pumps, blowers, compressors, crushing mills, mixers and belt conveyor, etc.

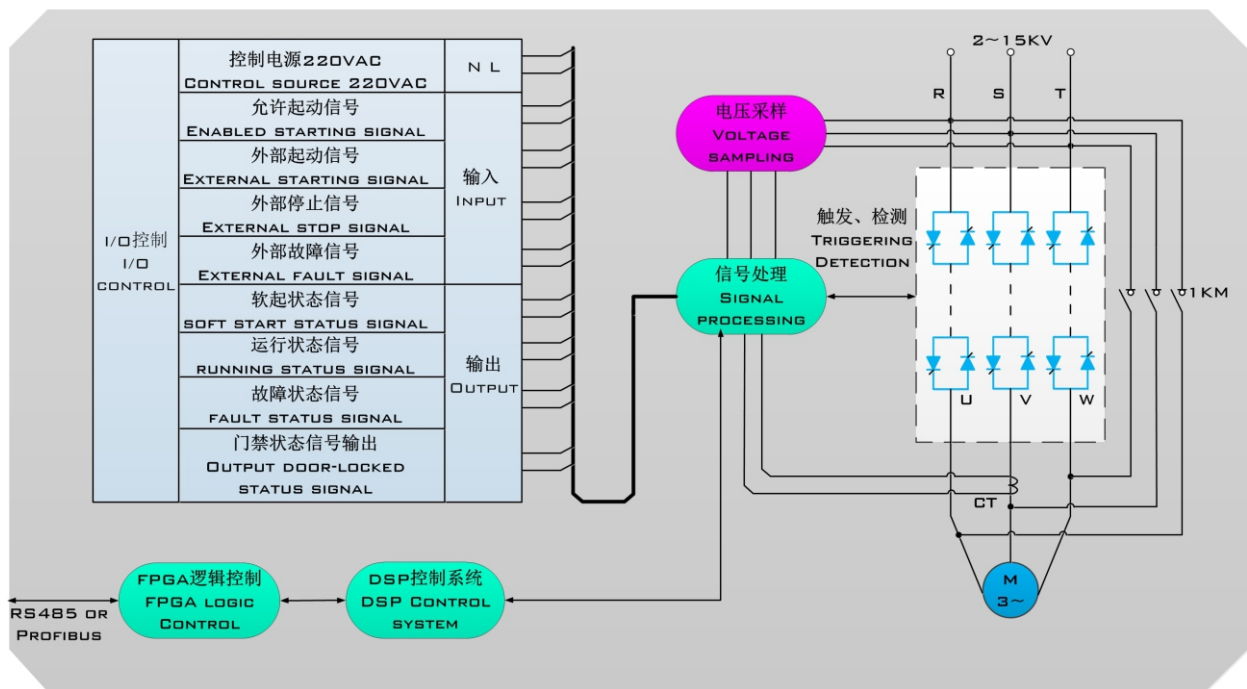
## <<< 组柜方案 Cabinet Cases



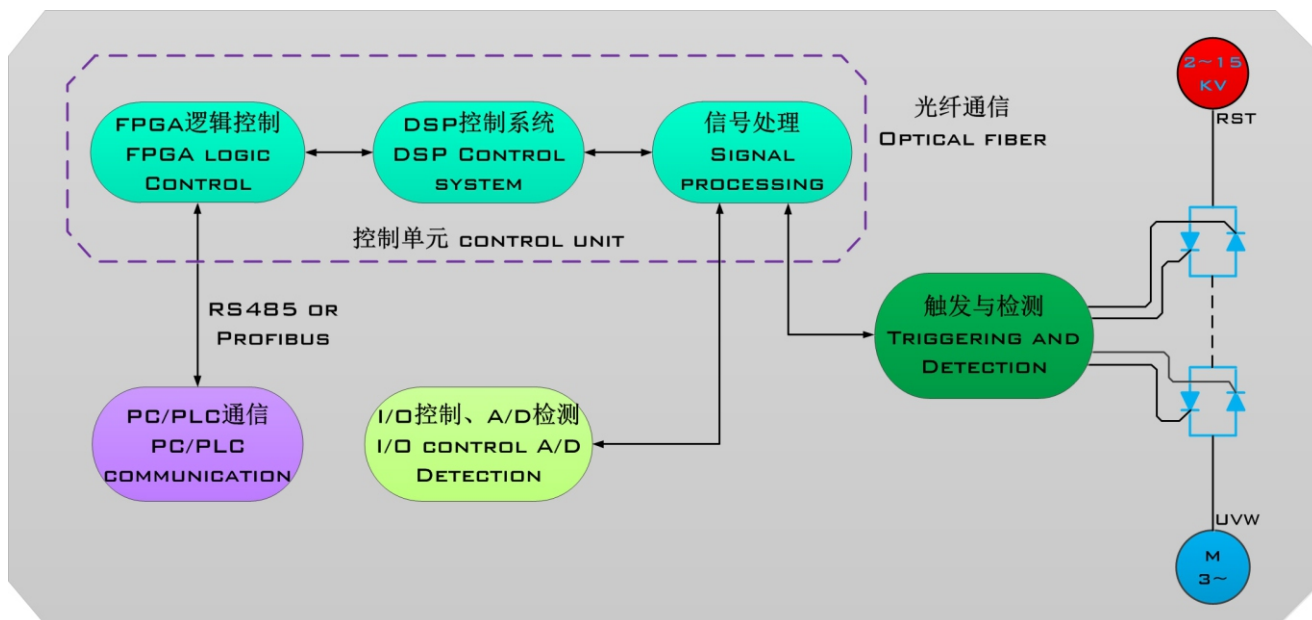
## <<< 系统结构 System Framework

- ◇ 高压晶闸管组件
- ◇ High voltage thyristor unit
- ◇ 真空开关部件
- ◇ Vacuum switch block
- ◇ 光纤或磁环触发部件
- ◇ Fiber or magnetic ring trigger unit
- ◇ 均压保护部件
- ◇ Voltage equalized protection component
- ◇ 信号采集与保护部件
- ◇ Signal collection and protection component
- ◇ 系统控制与显示部件
- ◇ System control and display unit

## <<< 工作原理 Working Principle



## &lt;&lt;&lt; 技术特点 Technical Characteristics



控制框图 Control Figure

- △ 以高压晶闸管为主回路部件，并具有均压保护和过电压保护系统；
  - △ 先进的光纤和磁环传输技术，实现高压晶闸管的触发检测与低压控制回路之间的隔离；
  - △ 双CPU结构，用先进的数字信号处理器DSP执行核心控制，用单片机对数据及通信进行管理，使设备控制实时高效、显示直观、可靠性高、稳定性好；
  - △ 信号多级处理及隔离技术，使系统具有很强的抗干扰能力；
  - △ 中/英文显示、薄膜按键、操作简单、界面友好；
  - △ 具有RS-485或Profibus通信接口，可与上位机或集中控制中心进行通信。
- △ Adopt high voltage thyristor as the main circuit component of the QB-H high voltage soft start device, and hold both voltage equalized and over voltage protection system.
  - △ Advanced optical fiber and magnetic ring transmission technology to realize the isolation between high voltage thyristor trigger test and low voltage control loop.
  - △ Adopt the double CPU structure. Processed the centre control by advanced digital signal processor, and administrated the data and communication by single chip computer ensure that ATA QB-H series high voltage soft start device holds many advantages such as control equipments in real-time and high efficiency, demonstrative display, high reliability and stability, etc.
  - △ Adopt the multi-level signal processing and isolation technology to ensure that the system holds strong capability of anti-interference.
  - △ Displaying with Chinese/English and adopting the film keystroke ensure the device easy operation and well human-computer interface.
  - △ Hold the RS-485 or Profibus, which enabled communicate with the master computer or centralized control centre.



## <<< 产品性能

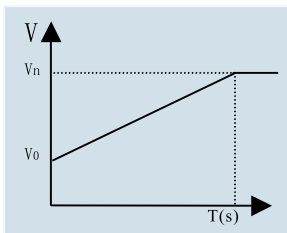
## Product Performance

### ☆ 控制方式可选

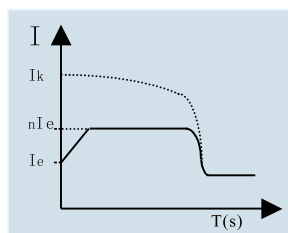
- ◇ 斜坡电压控制
- ◇ 限流控制
- ◇ 斜坡电流控制
- ◇ 软停控制

### ☆ The optional controlling modes

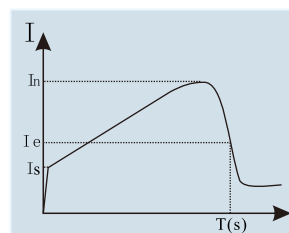
- ◇ Ramp voltage control
- ◇ Current limiting control
- ◇ Ramp current control
- ◇ Soft stop control



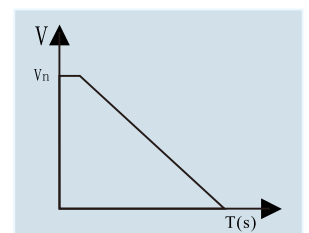
斜坡电压控制  
Ramp voltage control



限流控制  
Current limiting control



斜坡电流控制  
Ramp limiting control



软停控制  
Soft stop control

### ☆ 起动方式多样

- ◇ 现场按钮起动
- ◇ 键盘按键起动
- ◇ 上位机远程起动
- ◇ 组合起动

### ☆ Various starting modes

- ◇ Local button start
- ◇ Keystroke start
- ◇ Remote start
- ◇ Combined start

### ☆ 保护功能齐全

- ◇ 缺相、欠压保护
- ◇ 电源过压保护
- ◇ 运行过流保护
- ◇ 晶闸管组件保护
- ◇ 瞬时过电压保护
- ◇ 起动间隔时间保护
- ◇ 起动超时保护
- ◇ 联锁控制保护
- ◇ 三相不平衡保护
- ◇ 相序保护

### ☆ Complete protection functions

- ◇ Phase loss and under voltage protection
- ◇ Power supply over voltage protection
- ◇ Running over current protection
- ◇ Thyristor unit protection
- ◇ Instantaneous over voltage protection
- ◇ Starting interval protection
- ◇ Starting time over protection
- ◇ Inter-locked control protection
- ◇ Three phase unbalance protection
- ◇ Phase sequence protection



<<< 技术参数

Technical Parameters

工作条件 Working Conditions	
电压范围 Voltage range	2~15kV AC
功率范围 Power range	110kW~50000kW
工作频率 Operating frequency	50Hz/60Hz ± 1Hz
相序要求 Phase sequence requirement	允许在任何相序下工作 No phase sequence
负载要求 Load	三相鼠笼异步电动机、同步电动机、绕线电机 Three phases squirrel cage asynchronous or synchronous motors
控制电源 Control power supply	用户提供220VAC (可协议 220VDC、110VDC) 220VAC user supplied (Can deal 220VDC、110VDC)
冷却方式 Cooling mode	自然冷却 Naturally cool
安装地点 Installation place	户内安装 (无导电尘埃、无剧烈震动的场所) Installation indoor (a place without conductive dust or fiercely shaking) 户外安装 (可加装遮雨棚) Outdoor installation (put up a canopy)
环境条件 Environment Condition	环境温度: -20°C~+50°C Environment temperature: -20°C~+50°C
	相对湿度: 5%~95% 无凝露 Relative humidity: 5%~95%, no dew
	海拔小于1500米 (大于1500米可降容使用) The high voltage soft start device is suitable for operating at an altitude of less than 1500m; otherwise, the power grade of its adapted motor should be degraded.
设定参数 Parameter setting	
软起时间 Soft start time	0~120秒可设定 Enabled set 0~120s
软停时间 Soft stop time	0~60 秒可设定 Enabled set 0~60s
初始电压 Initial voltage	20~80%可设定 Enabled set 20% ~80%
额定电流 Rated current	可设定 Enabled set
保护参数 Protection parameters	可设定 Enabled set
突跳时间 Jumping time	90%电压0.0~3.0 秒, 可设定 90% voltage, 0.0~3.0s, enabled set
控制方式 Control mode	可设定 (斜坡电压控制、限流控制、斜坡电流控制) Enabled set (ramp voltage control, Current limiting control, ramp current control)
起动方式 Start mode	可设定 (现场、按键、远程、组合) Enabled set: local start, keystroke start, remote start, combined start



## 技术参数

## Technical Parameters

保护功能 Protection function	
缺相、欠压保护 Phase loss or under voltage protection	欠压值可设定 Enabled set under voltage value
电源过压保护 Power supply over voltage protection	过压值可设定 Enabled set over voltage value
运行过流保护 Running over current protection	自动反时限保护, CPU控制 Automatic inverse time-lag protection, CPU control
晶闸管组件保护 Thyristor unit protection	动、静态均压 Dynamic voltage equalized or static voltage equalized
瞬时过电压保护 Instantaneous over voltage protection	dv/dt吸收网络 dv/dt dynamic absorption.
起动间隔时间保护 Starting interval protection	起动间隔时间可设定 Enabled set
起动超时保护 Starting time over protection	超过软起动时间设定值则保护 The protection devices will act while the soft start time exceeds its setting value.
联锁控制保护 Inter-locked control protection	机械、电气联锁 Mechanism and electric inter-locked
检测功能 Detection function	
电流检测 Current detection	相电流 The current phase
电压检测 Voltage detection	电源输入电压 Power supply input voltage
通信接口 Communication interface	
通信接口 Communication interface	RS-485接口和Profibus接口可选 RS-485 interface and Profibus interface (optional)
通信协议 Communication protocol	Modbus RTU和Profibus-DP协议可选 Modbus RTU and Profibus-DP protocol (optional)
操作界面 Operation interface	
LCD显示 LCD display	中/英文显示, 显示各种状态及设定参数 Various status and parameters setting can be displayed by LCD with multiple parallel Chinese/English
键盘 Keyboard	薄膜按键 Film keystroke
状态指示灯 Status indicator light	包括: 电源、软起、运行、故障 Status indicator lights include: Power supply, soft start, running and fault
记忆功能 Memory function	
操作记忆 Operation memory	可从EEPROM中自动下载控制参数 Control parameters can be downloaded automatically from EEPROM
事件记录 Records	可对历史事件进行记录 Saving past records



## &lt;&lt;&lt; 外形尺寸

## Outline Dimension

软起动装置 Soft start device	标称电压 Nominal voltage	标称电流 Nominal current	输出功率 Output power	外形尺寸 (mm) Outline dimension (mm)		
型号 Model	(kV)	(A)	(kW)	宽 Width	深 Depth	高 High
ATA QB-H06 / 400	6	48	400	1000	1500	2300
ATA QB-H06 / 710	6	85	710	1000	1500	2300
ATA QB-H06 / 1000	6	120	1000	1000	1500	2300
ATA QB-H06 / 1500	6	170	1500	1000	1500	2300
ATA QB-H06 / 2000	6	230	2000	1000	1500	2300
ATA QB-H06 / 2500	6	280	2500	1000	1500	2300
ATA QB-H06 / 2800	6	308	2800	1430	1500	2300
ATA QB-H06 / 3500	6	386	3500	1430	1500	2300
ATA QB-H06 / 4000	6	440	4000	2430	1500	2300
ATA QB-H06 / 4500	6	500	4500	2430	1500	2300
ATA QB-H06 / 5000	6	551	5000	2430	1500	2300
ATA QB-H06 / 5800	6	639	5800	2430	1500	2300
ATA QB-H06 / 6500	6	720	6500	2430	1500	2300
ATA QB-H06 / 7100	6	782	7100	2430	1500	2300
ATA QB-H06 / 8000	6	882	8000	2430	1500	2300
ATA QB-H06 / 10000	6	1102	10000	2830	1500	2300
ATA QB-H06 / 14000	6	1470	14000	2830	1500	2300
ATA QB-H06 / 20000	6	2200	20000	2830	1500	2300
ATA QB-H10 / 400	10	26	400	1000	1500	2300
ATA QB-H10 / 710	10	52	710	1000	1500	2300
ATA QB-H10 / 1000	10	66	1000	1000	1500	2300
ATA QB-H10 / 1500	10	120	1500	1000	1500	2300
ATA QB-H10 / 2000	10	132	2000	1000	1500	2300
ATA QB-H10 / 2500	10	165	2500	1000	1500	2300
ATA QB-H10 / 2800	10	185	2800	1000	1500	2300
ATA QB-H10 / 3500	10	231	3500	1000	1500	2300
ATA QB-H10 / 4000	10	264	4000	1000	1500	2300
ATA QB-H10 / 4500	10	320	4500	2430	1500	2300
ATA QB-H10 / 5800	10	384	5800	2430	1500	2300
ATA QB-H10 / 6500	10	440	6500	2430	1500	2300
ATA QB-H10 / 7100	10	480	7100	2430	1500	2300
ATA QB-H10 / 8000	10	540	8000	2430	1500	2300
ATA QB-H10 / 10000	10	680	10000	2630	1500	2300
ATA QB-H10 / 12000	10	810	12000	2630	1500	2300
ATA QB-H10 / 14000	10	927	14000	2630	1500	2300
ATA QB-H10 / 18000	10	1100	18000	4800	1500	2300
ATA QB-H10 / 20000	10	1333	20000	4800	1500	2300
ATA QB-H10 / 23000	10	1523	23000	4800	1500	2300
ATA QB-H10 / 28000	10	1760	28000	4800	1500	2300
ATA QB-H10 / 32000	10	2010	32000	4800	1600	2300
ATA QB-H10 / 40000	10	2520	40000	4800	1600	2300
ATA QB-H10 / 50000	10	3150	50000	4800	1600	2300

注：以上数据供参考，如有特殊要求请与我公司联系。

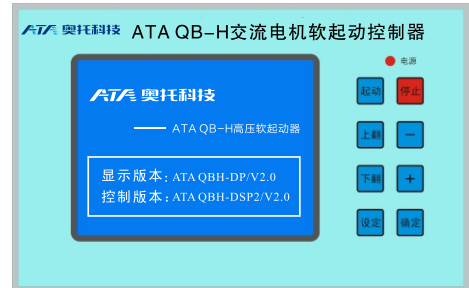
Note: The listed dimensions above are only for reference. If you have any specific requirement, please contact us directly.

## <<< 操作界面 Operation Interface

ATA QB-H系列中高压软起动装置的操作界面如右图，显示器有背光控制与屏幕保护功能。中/英文显示和数据通信实行协调统一管理，高效可靠，具有良好的人机交流功能。

Please refer to the right figure for the operation interface of ATA QB-H series soft start device. Both apheliotropic control and screen saver function are included in the display.

The consistent management is integrated with both Chinese/English display and data communication to ensure the device holds high reliability and effective human-machine communication function.



## <<< 生产场景 Workshop Scenes



<<< 典型工程案例

Typical project cases

钢铁行业案例： Steel Industry Cases:



**唐山建龙实业有限公司**  
高炉鼓风机系统  
软起动装置型号: ATA QB-H06/11000  
Tangshan Jianlong Industry Co.,Ltd.  
Blast furnace blower system  
Soft Starter Model:ATA QB-H06/11000



**福建三安钢铁高炉项目**  
软起动装置型号: ATA QB-H10/19000  
电机型号: YGF1000-4 (上海电机厂)  
负载: 鼓风机 (陕鼓)  
Fujian Sanan Steel blast furnace Project  
Soft Starter Model: ATA QB-H10/19000  
Motor Model: YGF1000-4 (Shanghai Electric Machinery Co.,Ltd.)  
Load: Blower (Shanxi Blower(Group) Co.,Ltd.)

石油、石化行业案例： Petroleum, petrochemical industry case:



**中国化工山东昌邑石化有限公司**  
烟气轮机能量回收机组主风机系统  
软起动装置型号: ATA QB-H10/14000  
负载: 压缩机  
China national chernical corporation Changyi branch  
Main blower system in flue gas turbine energy recovery unit  
Soft Starter Model: ATA QB-H10/14000  
Load:compressor



**中国石油长岭分公司**  
280万吨/年催化裂化装置项目  
软起动装置型号: ATA QB-H10/23000KW  
负载: 压缩机 控制方式: 一拖二  
Changling Branch of China 2,800,000 tons of oil / year  
catalytic cracking derive project  
Soft Starter Model: ATA QB-H10/23000KW  
Load :Compressor Control mode: One driven two

有色行业案例： Case of non-ferrous industry:



**湖北大冶有色制氧压缩机系统**  
软起动装置型号: ATA QB-H10/17000  
电机: ABB  
负载: 制氧压缩机 (Siemens)  
Hubei Daye Nonferrous oxygen compressor system  
Soft Starter Model:ATA QB-H10/17000  
Motor: ABB  
Load: Oxygen Compressors (Siemens)



**紫金铜业20万吨铜冶炼制氧压缩机系统**  
软起动装置型号: ATA QB-H10/18000  
电机: 上海电机厂  
负载: 制氧压缩机 (CAMERON)  
Zijin Copper 200,000 tons of copper smelting oxygen compressor system  
Soft Starter Model: ATA QB-H10/18000  
Motor: Shanghai Electrical Machinery Co.,Ltd.  
Load: Oxygen Compressors (CAMERON)

## 造船行业案例：Shipbuilding Industry Cases:



**福建泉州船厂**  
1#、2#、3#、4#、5#  
空压机系统：  
ATA QB-H10/1500 (5套)  
电机型号：SACK-S2A26

**Fujian Quanzhou Shipyard**  
1 #, 2 #, 3 #, 4 #, 5 #  
Air compressor system:  
ATA QB-H10/1500(5 sets)  
Motor Model: SACK-S2A26

## 水泵行业案例：Water Pump Industry Cases:



**日立泵制造(无锡)有限公司**  
水泵运转试验平台电源系统  
软起动装置型号：ATA QB-H10/8000

**Hitachi Pump Manufacture (Wuxi) Co., Ltd.**  
The power supply system of water pump operational test platform  
Soft Starter Model: ATA QB-H10/8000

## 外资企业案例：Foreign enterprise cases:



**德国MESSER气体公司攀枝花分公司制氧压缩机系统**  
软起动装置型号：ATA QB-H10/19200(1套)；ATA QB-H10/17000 (2套)  
电机：Siemens  
负载：制氧压缩机 (Siemens)

**Oxygen Compressor System For Panzhihua Branch of Germany Messer gas company**  
Soft Starter Model: ATA QB-H10/19200(1 set); ATA QB-H10/17000(2 sets)  
Motor: Siemens Load: Oxygen Compressors (Siemens)



**德国MESSER气体公司昆明分公司制氧压缩机系统**  
软起动装置型号：ATA QB-H10/22000  
电机：Siemens  
负载：制氧压缩机 (Man)

**Oxygen Compressor System for Kunming Branch of Germany Messer gas Company**  
Soft Starter Model: ATA QB-H10/22000  
Motor: Siemens Load: Oxygen Compressors (Man)

## 出口项目案例：Export Projects:



**印度ISL烧结和高炉工程**  
软起动装置型号：ATA QB-H11/4000(3套)  
负载：风机

**Sintering and blast furnace engineering for ISL in India**  
Soft Starter Model: ATA QB-H11/4000(3 sets)  
Load: fan



**巴西球团项目**  
软起动装置型号：ATA QB-H6.6/8000 (2套)  
负载：球磨机  
电网频率：60Hz

**Pellet project in Brazil**  
Soft Starter Model: ATA QB-H6.6/8000 (2 sets)  
Load: ball mill  
Line frequency:60Hz

<<<

**订货须知**

**Notice for Order Placing**

### 订货时请提供下列资料

- △ 电动机型号、额定功率、额定电流、额定电压、额定转速
- △ 电动机拖动负载类型 (风机、水泵、压缩机等)
- △ 设备使用在特殊环境条件时应在订货时提出
- △ 若用户有其他要求，请与我司联系
- 本公司保留产品设计与规格变更的权利，恕不另行通知。
- 本产品选型手册中图片与实物如有差别，以实物为准。
- 本产品选型手册最终解释权归长沙奥托自动化技术有限公司所有。

### Those data should be provided when you place an order:

- △ Motor model, rated power, rated current, rated voltage and rated rotary rotary speed.
- △ The type of motor dragging load such as fan, water pump, compressor and etc.
- △ If the device will be operated in special environment, please inform us when you place the order.
- △ Please contact us for additional requirements.
- Our company reserves the right to revise product design and specification without notice.
- All pictures or images contained within this manual are for illustration purpose only.
- CHANGSHA ATA AUTOMATION CO.,LTD reserves the final right to interpret this manual.



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[www.atawindow.com](http://www.atawindow.com)



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