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Product Summary Manual

产品总汇手册

RENLE 雷诺尔



RENLE

上海雷诺尔科技股份有限公司是“工业控制解决方案”的系统集成商、“工业控制与应用电气”的专业制造商。公司业务覆盖工业自动化产品、智能配电、自动化控制系统等，产品包括高低压电机软起动器、高低压变频调速器、储能系统产品、防爆电气、高低压无功补偿及谐波治理装置、传动控制系统、MCS、DCS、节能改造系统和高低压输变电成套设备等。

公司获得多项荣誉如国家级专精特新“小巨人”企业、高新技术企业、上海市企业技术中心、承装（修、试）电力设施许可证、建筑机电安装工程专业承包二级资质等。

公司获得多项认证如 ISO9001、ISO14001、ISO45001、KA、CE、IECEE CB、CCC、CQC、TUV、EAC、GOST认证等。

Shanghai RENLE Science & Technology Co.,Ltd is a system integrator in solutions to industrial control and a professional manufacturer of industrial control and applied electrical. Our business covers industrial automation products, intelligent power distribution, automatic control systems, etc. Our product range includes medium and low voltage motor soft starters, medium and low voltage variable frequency drives, explosion-proof electrical apparatus, medium and low voltage reactive power compensation and harmonic suppression devices, energy storage systems, drive control systems, MCS, DCS, energy efficiency retrofit system and medium and low voltage power transmission and distribution equipment, etc.

Shanghai RENLE has been honored with several National-level awards and major professional certifications, including the title of Unique and Innovative “Little Giant” Enterprise, High Technology Enterprise, and Shanghai Enterprise Technology Center, and installation (repair and test) power facilities license, Secondary Speciality Contracting Qualification for Construction Mechanical and Electrical Installation Engineering.

In the development process of striving for excellence, Shanghai RENLE has obtained multiple certifications such as ISO9001, ISO14001, ISO45001, KA, IECEE CB, CCC, CQC, TÜV SÜD, EAC, GOST, etc.



KA certification



Management system certification



National standard



CQC certification



Testing and certification



Intellectual property

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RNHV1000 高压变频调速器

RNHV1000 Series Medium-Voltage VFD



- 输出功率：最大功率10kV/3,150kW、6kV/1,800kW。
- 一体化结构：整机尺寸节约40%，整体运输、单边维护。
- 快速连接器：功率单元维护时间节约50%，简洁高效。
- 薄膜电容器：预期寿命可达10年、安全可靠、性能优异。
- 单元热保护：温度实时在线监测，保护灵敏、安全可靠。
- 人机互动窗：真彩触摸屏，操作简便、设备信息一览无余。
- 5G+工业云：云端智能，远程高效深度技术支持。

- Output power: maximum power 10kV/3,150kW; 6kV/1,800kW.
- Integrated structure: 40% reduction in overall size, overall transportation, and unilateral maintenance.
- Quick connector: saves 50% of power unit maintenance time, simple and efficient.
- Thin film capacitors: expected lifespan of up to 10 years, safe and reliable, and excellent performance.
- Unit thermal protection: real-time online temperature monitoring, sensitive protection, safe and reliable.
- HMI: True color touch screen, easy to operate, and easy to see all equipment information.
- 5G+Industrial Cloud: cloud-based Intelligence and remote efficient deep technical support.

RNHV2000 高压变频调速器

RNHV2000 Series Medium-Voltage VFD

- 输出功率：最大功率10kV/15,000kW、6kV/9,000kW。
- 标准工业设计：支持各种电压等级3~13.8kV，高海拔、低温及高湿等各种应用场景。
- 客户特殊定制：支持定制化功能用途及外观结构等，满足客户多样化需求。
- 变频器类型：电压源型级联多电平，对电机及电缆无特殊要求，无滤波器完美无谐波，直接供电距离可达1000m。
- 西门子PLC：安全可靠，精确逻辑过程控制、标准工业接口。



- Output power: maximum power 10kV/15,000kW; 6kV/9,000kW.
- Standard industrial design: support various voltage levels ranging from 3 to 13.8kV, and various application scenarios such as high altitude, low temperature and high humidity.
- Customization: Support customized functions, appearance and structure to meet diverse customer needs.
- Variable frequency drive type: voltage source cascaded multi-level, imposes no special requirements on the motor or cables, requires no filters for perfect harmonic-free output, and can directly supply power over distances up to 1000 meters.
- Siemens PLC: Safe and reliable with precise logic process control and standard industrial interface.

RNHP1000 制氢电源

RNHP1000 Hydrogen Power Supply

- 电源功率：200~20,000 kW。
- 绿色低碳：高效率 $\geq 98.5\%$ 。
- 电能质量：功率因数 ≥ 0.99 ，交流侧Thdi $\leq 3\%$ ，具备无功补偿及谐波抑制功能。
- 功能特性：支持恒压、恒流及恒功率运行模式。
- 工业设计：模块化设计，并联特性好，系统扩容方便。
- 散热设计：水冷高效低噪音，风冷独立密闭风道散热好。
- 电网适应性：宽电压及频率适应能力，支持弱电网运行。
- Power supply: 200~20,000 kW.
- Green and low carbon: high efficiency $\geq 98.5\%$.
- Power quality: power factor ≥ 0.99 , AC side Thdi $\leq 3\%$, with reactive power compensation and harmonic suppression.
- Functional characteristics: support constant voltage, constant current and constant power operation modes.
- Industrial design: modular design, detailed parallel characteristics and convenient system expansion.
- Thermal design: water-cooling with high efficiency and low noise level; air-cooling with independent airtight duct and excellent thermal dissipation.
- Grid adaptation: wide range of voltage and frequency adaptability, able to support weak grid operation.



RNHV3000 高压变频调速器

RNHV3000 Series Medium-Voltage VFD

- 绿色低碳：高效率 $\geq 98\%$ 。
- 电能质量：单元级级多电平，高功率因数 ≥ 0.96 ，低谐波THDu $\leq 2\%$ 。
- 功率范围：10,000~34,000kW。
- 散热设计：水冷。
- 工业设计：单元模块化，水冷接口快速联接，维护便捷。
- 整流变压器：干式变压器（室内）或油冷变压器（室外）。
- 5G+工业云：云端智能，远程高效深度技术服务。
- Green and low carbon: high efficiency $\geq 98\%$.
- Power quality: unit cascade multi-level, high power factor ≥ 0.96 , low harmonic THDu $\leq 2\%$.
- Power range: 10,000~34,000kW.
- Thermal design: water-cooling.
- Industrial design: Unit modularization, water-cooling interface for quick connection, easy installation and maintenance.
- Rectifier transformer: dry-type transformer(indoor) or oil-cooled transformer (outdoor).
- 5G+Industrial Cloud: cloud intelligent enables deep and efficient remote technical services.



低压变频调速器

LV Variable Frequency Drive



- 额定电压：110~690V；
- 额定功率：0.75~1,250kW；
- V/F控制模式，可有效的保护驱动器；
- 矢量控制模式，高精度的转矩控制；
- V/F分离控制模式，输出频率和输出电压可以分设定；
- 兼容异步电机和永磁同步电机的闭环矢量控制；
- 支持多种PG卡扩展；
- 可扩展GPRS，WIFI无线监控；
- 支持单传、多传及传动模块三种形态。
- 应用领域：风机、泵、空压机、皮带机、磨机、密炼机等负载的电机速度调节。

- Rated voltage: 110~690V；
- Rated power: 0.75~1,250kW；
- V/F control mode
Effectively protect the drive；
- Vector control mode
High precision torque control；
- V/F separation control mode
The output frequency and output voltage can be set separately；
- Closed-loop vector control compatible with asynchronous motors and permanent magnet synchronous motors；
- Supports multiple PG card expansions；
- Scalable GPRS and WIFI wireless monitoring.
- Supports three configurations: single-drive, multi-drive, and drive module assemblies.
- Application: motor speed regulation for loads such as fans, pumps, air compressors, belt conveyors, mills, internal mixers, etc.

低压软起动器

LV Soft Starter



- 额定电压：380V/690V/1140V；
- 额定功率：5.5~800kW；
- 启动电流：可调范围1.0~8.0倍；
- 采用可控硅阀组串联、双电源触发技术；
- 可设置启动方式，启动过程平滑，启动速度快，适用场合广；
- 内置旁路功能，外部接线方便，工作稳定、可靠性高、调整、维修简便；
- 具有故障自诊断功能；
- 可扩展联网模块，远程在线升级程序，远程参数监控。
- 应用领域：风机、泵、空压机等负载的电机启动，减少对电网和电机的冲击，延长设备使用寿命。

- Rated voltage: 380V/690V/1140V;
- Rated power: 5.5~800kW;
- Starting current: adjustable range 1.0~8.0 times;
- Adopt serial thyristor valve group and dual power supply trigger technology;
- Adjustable starting method, smooth starting process, fast starting speed, suitable for a wide range of applications;
- Built in bypass with advantages of convenient external wiring, stable operation, high reliability, easy adjustment and maintenance;
- Equipped with fault self diagnosis function;
- Expandable networking module, remote online upgrade program, remote parameter monitoring.
- Application: motor starting of fans, pumps, air compressors and other loads, reducing the impact on the power grid and motor, extending the service life of the equipment.

RNMV 智能型高压固态软启动柜

RNMV Series Intelligent Medium-Voltage Solid State Soft Starter

- 额定电压: 3kV/3.3kV/4.16kV/6kV/6.6kV/10kV/11kV/13.8kV;
- 额定功率: 250~15,000kW;
- 启动电流: 可调范围1.0~8.0倍;
- 采用可控硅阀组串联、双电源触发技术;
- 利用光纤复用技术实现高压组件全数字化;
- 高压手车真空断路器与母线电源有效隔离, 便于检修;
- 电动机微机保护与软起主控系统对电机实现双重保护;
- 可与现场开关柜并柜安装, 可与整个配电系统实现集成。

- Rated voltage: 3kV/3.3kV/4.16kV/6kV/6.6kV/10kV/11kV/13.8kV;
- Rated power: 250~15,000kW;
- Starting current: adjustable range 1.0~8.0 times;
- Adopt serial thyristor valve group and dual power supply trigger technology;
- Fiber optic communication multiplexing technology realizes the digitalization of medium-voltage components.
- Equipped with a withdrawable medium-voltage vacuum circuit breaker for safe isolation from busbar power, facilitating maintenance.
- Features dual protection with motor microprocessor-based protection and the main soft-start control system.
- Designed for integrated installation with existing switchgear and full compatibility with the overall power distribution system.



RNSTS 低压变频软启动柜

RNSTS Low Voltage Variable Frequency Soft Start Cabinet

- 额定功率: 200~1,250kW;
- 额定电压: 380V/690V;
- 高效安全的无扰切换: 自动实现变频/工频无扰切换, 同步锁相切换过程平稳, 对电网无冲击;
- 灵活可控: 启动时间自由设定, 满足不同负载的启动需求;
- 启动方式可选: VF或者矢量控制启动可选, 加快启动过程;
- 最优的启动电流: 最小的启动电流可小于电机额定值。

- Rated Power: 200~1,250kW;
- Rated Voltage: 380V/690V;
- High-Efficiency, Bumpless Transfer: Provides automatic, bumpless transfer between variable frequency and line-frequency power. The synchronous phase-locked switching ensures a smooth transition without impact on the grid;
- Flexible and Controllable Starting: Offers freely adjustable start-up time to meet the requirements of various load types;
- Selectable Starting Modes: Supports both V/F control and Vector control start modes, enabling faster acceleration;
- Optimized Starting Current: Reduces the minimum possible starting current below motor rated current.



工商业户外储能柜

Industrial and Commercial Outdoor Energy Storage Cabinet



- 内置烟感、水浸、凝露检测、消防系统、安全性高；
 - 模块化设计、运输安装便捷、调试周期短、后期维护高效；
 - 人机交互界面、真彩触摸屏、操作方便、实时数据、历史记录、故障显示、本地远程控制、在线升级；
 - 采用门装嵌入式一体化空调，不占机柜空间，提高户外柜可用空间，顶部结构完整性更佳，防水效果好；
 - 远程控制响应时间 ≤ 5 s，充放电转换效率 $\geq 88\%$ ，数据采集频率 ≤ 30 s。
- Built-in smoke detection, flooding, condensation detection, and fire protection system for high safety;
 - Modular design, convenient transportation and installation, short commissioning cycle, efficient maintenance;
 - Human-Machine Interaction interface, true color touch screen, easy to operate, real-time data, historical records, fault display, local and remote control, online upgrade;
 - The door-mounted embedded integrated air conditioner does not take up cabinet space and improves the available space in the outdoor cabinet, with better top structure and good waterproof effect;
 - Remote control response time is ≤ 5 seconds, charging and discharging conversion efficiency is $\geq 88\%$, data acquisition frequency is ≤ 30 seconds.

集装箱式高压变频撬

Container Type MV Frequency Converter Skid

- 具有安全可靠、占地面积小、建站周期短、可移动性强、使用寿命长、布局灵活，外形美观等优点；
 - 整个变频器撬内部分为接线开关配电单元、移相变压器单元、变频控制单元、空调照明单元，实现模块化及标准化设计；
 - 集装箱式高压变频撬 广泛用于石油，石化天然气增压，储气库，煤层气页岩气开采等特殊作业场站，充分解决了石油石化开采作业智能化配电系统可移动难的问题。
- It has the advantages of safety and reliability, small land occupation area, short construction period, strong mobility, long service life, flexible layout, and beautiful appearance;
 - The frequency converter skid internally includes the wiring and switchgear distribution unit, the phase-shifting transformer unit, the drive control unit, and the air conditioning & lighting unit, featuring a modular and standardized design;
 - The containerized medium-voltage frequency converter skid is widely used in special operation sites of oil, petrochemical natural gas boosting, gas storage, coalbed methane and shale gas extraction, etc., fully solving the problem of difficulty in moving the intelligent distribution system for petroleum and petrochemical extraction operations.



静止式变频电源

Static Frequency Converter

- 额定电压：
3kV/3.3kV/4.16kV/6kV/6.6kV/10kV/11kV/13.8kV；
 - 电源功率：200~20,000 kW；
 - 50Hz输入/60Hz输出或60Hz输入/50Hz输出；
 - 电能质量：功率因数 ≥ 0.99 ，交流侧Thdi $\leq 3\%$ ；
 - 具备谐波抑制功能；
 - 高防护等级设计，直接户外安装；
 - 不同频率或电压等级切换，实现电网与负载无缝连接。
- Rated voltage:
3kV/3.3kV/4.16kV/6kV/6.6kV/10kV/11kV/13.8kV；
 - Power supply: 200~20,000 kW；
 - 50Hz input/ 60 Hz output or 60Hz input/ 50 Hz output；
 - Power quality: power factor ≥ 0.99 , AC side Thdi $\leq 3\%$ ；
 - Harmonic suppression function；
 - High protection class design for direct outdoor installation；
 - Switching between different frequencies or voltage levels for a seamless connection between the grid and the loads.



试验站变频电源

Power Supply Test Bed



- 输入电压：
3kV/3.3kV/4.16kV/6kV/6.6kV/10kV/11kV/13.8kV；
 - 输入频率：50/60Hz；
 - 输出电压与频率：可定制；
 - 额定功率：250~10,000kW；
 - 负载类型：同步电机/异步电机、变压器；
 - 控制方式：V/F恒定/分离；
 - 定制化的电机及变压器特种试验电源功能，如三相到单相变换、高频、低频及叠频等；
 - 应用领域：电机试验站、变压器试验站。
- Input voltage:
3kV/3.3kV/4.16kV/6kV/6.6kV/10kV/11kV/13.8kV；
 - Input frequency: 50/60Hz；
 - Output voltage and frequency: customizable；
 - Rated power: 250~10,000kW；
 - Load type: Synchronous motor/ Asynchronous motor, transformer；
 - Control method: V/F constant/separate；
 - Customized functions of special test power supplies for motors and transformers, such as three-phase to single-phase conversion, high-frequency, low-frequency, and superimposed frequency operations；
 - Applications: motor test stations, transformer test stations.



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雷诺尔
Shanghai RENLE
Science & Technology Co., Ltd.

上海雷诺尔科技股份有限公司

上海市嘉定区城北路 3968 弄 188 号 (邮编: 201807)
总机: 021-5996 6666
传真: 021-5916 0987
Http:// www.renle.com
E-mail: renle@renle.com
全国统一服务热线: 800-8200-785

Shanghai RENLE Science & Technology Co., Ltd
Address: No.188 Building 1.Lane 3968.Chengbei
Road, Jiading District, Shanghai,China
Zip code: 201807
Tel: +86-21-39538009/+86-21-59553176
<http://www.renle.com>
Email: sales@renle.com