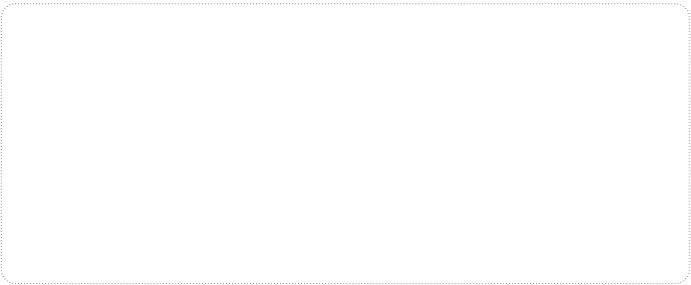


Product Catalogue

Innovation, Value, Teamwork



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About INVT



INVT, established in 2002, is committed to being the world’ s leading and most respected provider of electric drive, industrial control, and new energy products and services. In 2010, it listed as an A-share company on the Shenzhen Stock Exchange (stock code: 002334). INVT is a national-level high-tech company with nine subsidiaries, whose business involves electric drive, industrial control, new energy, rail traction, mining explosion proof, energy management, building intelligence system, and other spheres. Over 1100 people are currently employed at the company’ s headquarters, and the company operates more than 30 offices domestically and internationally. INVT products are sold in more than 60 countries and regions worldwide.

INVT actively explores its client’s requirements, holding to its mission of “striving to provide top value products and services to enhance the competitive strength of clients.” INVT leads the nation in its main business of inverter manufacturing, providing a wide range of high, mid, and low-voltage general-purpose and industry-specific product lines with voltages ranging from 220V–10KV and a power range of 0.4–8000KW and containing products with wide applications in lifting, mining, metallurgy, textiles, machine tools, chemical engineering, plastics, oil, municipal administration and other industries. High quality products, innovative technologies and excellent service ensure that INVT’s reputation grows day by day. Accumulation and translation of maturing drive control technologies is now enabling INVT to expand into motion control and new energy sectors. Representative products include servo systems, wind power inverters, dynamic reactive power compensation generators and photovoltaic inverters.

INVT’s brand proposition “Exquisite quality, great value” expresses INVT’s commitment to constantly improve the already excellent quality of its products and pursue the greatest value for its customers. INVT’s market insight and grasp of customer requirements keeps its products innovative and flexible; advanced integrated product development management, comprehensive research and development testing, and specialized automated production ensure the high performance and reliability of its products. INVT offices, after-sales service centers and warranty service agents all over the world provide consumers with solutions, technological training and specialized support.

In the next ten years INVT will continue to uphold a business philosophy that stresses “honesty, generosity and integrity are the keys to success.” Building on strong foundations in electronics, automatic control, energy conservation and environmental protection, Internet of Things and other areas, INVT will continue to vigorously grow its main businesses of electricity drive, industrial control, transit traction, energy generation and management, intelligent building systems etc., consolidating its position as a product, technology and market leader and leveraging its efficient management, high profitability and other clear competitive advantages as a leading brand to become a standard bearer for national industry. The INVT industrial group continues to fulfill its social responsibilities, operate in harmony with the environment and achieve annual turnover in excess of RMB 10 billion.



Quality Assurance

Laboratory		Testing Capabilities
Thermal Design Lab		Equipped with comprehensive numerical simulation and thermal design experiment capabilities, the lab is able to carry out air and water cooling tests. The lab provides an experimental foundation for new heat dissipation technique and technology. It meets the increasingly high heat dissipation requirements of the products' power density so as to ensure the products' reliability and service life.
Performance Lab		Primarily engaged in testing the Inverters' electric and control performances in accordance with GB/T 12668.2–2002 /IEC 61800–2:1998 standards, as well as analysis and comparison testing of advanced technology within the industry, so as to promote technological improvement and technological accumulation.
Device Lab		The lab precisely scrutinizes and analyzes devices' micro-structure; conducts performance, compatibility, and reliability tests on an unused batch of new devices (including new manufacturers or new model numbers) so as to perform technological checks on device access; by analyzing device failures, the causes of malfunctions are analyzed so as to continually improve product quality.
EMC Lab		Built with three EMI shielding chambers, the primary testing equipment are all globally-used internationally famous brands, which are able to carry out all EMC tasks, including complete test items within the IEC/EN61800–3:2004 standard.

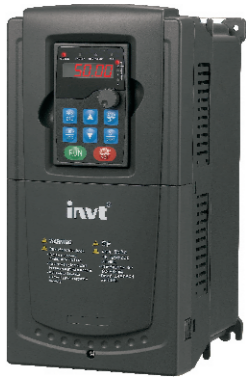
- “Comprehensive quality management” :
Development and testing quality management, processing quality management, supplier quality management, and customer service quality management
- ISO9001:2008 Quality Management System
- ISO14001: 2004 Environmental Management System
- OHSAS18001: 2007 Occupational Health and Safety Management System
- After-sale bar code traceability management

3AC 380V±15% 1.5~500kW

GD300 Series High Performance Vector Control Inverter

About the product

Goodrive300 series inverter is a new type of high-performance vector control inverter, and can be widely used for driving asynchronous motors and permanent magnet synchronous motors. The product relies upon a 32-bit DSP and adopts an advanced vector control algorithm to realize a high-performance and high-precision motor control. Improve the product's reliability and environmental adaptability, at the same time, strengthen user-friendliness and industry-specialized design makes the function is more optimized, and the application is more flexible, and the performance is more stable.



Technical Features

- Compatible with various motors: asynchronous motors, traditional permanent magnet synchronous motors, variable frequency motors and direct drive motors.
- Outstanding motor driving performance: accurate parametric autotuning of motor, advanced open-loop vector control: 0.25Hz/150% starting torque, 1:200 speed ratio.
- Abundant application functions and design
 - a. Structural design that meets the customers' requirements: Book type exterior, independent air duct design, multiple installation methods, hand-riveted galvanized board structure.
 - b. Powerful hardware configuration provides customers more valuable choices: C3 EMI filter installed as standard, the 1.5~30kW inverter is fitted with a braking unit, high-performance keyboard with potential and ability to download and upload parameters, abundant external terminal accessories, moveable design of terminal board, all products in the series support common DC bus and can be supplied with DC power, wide voltage range and heavy duty design.
 - c. Multiple braking modes makes stop follow your will.
 - d. Integrated industrial application: V/f separated set-up, Two sets of motor parameters, Virtual terminal function, Speed trace function, Terminal delay setting function, Electric charge display, Stop delay time
- Communication methods: MODBUS, PROFIBUS, CAN and Ethernet, powerful PC software.
- Product design strictly adheres to the IEC international standards and has passed the certification test of the international certification authority CE. The only domestic producer in the automation control industry to receive the ACT qualification issued by TUV-SUD, and the only domestic producer in the automation control industry to affix the TUV-MARK sign. Each power grade of this product has been passed the certification tests.

Applications

Permanent Magnet Synchronous Motor, Mine, Machines Tools, Textiles, Oil, Other Machineries.



Laboratory		Testing Capabilities
Safety Lab		The lab has already covered product safety tests included in the IEC 61800-5-1, GB 12668.5-1, IEC60950, and IEC62109 standards; testing items include temperature rise test for rated loads, overload tests, Hipot tests, earth resistance tests, touch current tests, electrical clearance and creepage distance tests, protection grade tests, and so forth, in order to provide technological guarantee for the products' safety and reliability.
Environmental Lab		According to the GB2423 electric and electronic goods environmental experiment method, and power on with load, the temperature, humidity, air pressure, salt spray, and all other types of environmental experiments are conducted so as to accurately determine the Inverter's actual environmental adaptability and reliability during actual operation.
Vibration Lab		A 5-ton high-thrust electric vibration test system, drop test machine, and high resolution dynamic signal analyzer comprehensively simulate shocks, vibration, falls, sand, and other mechanical stress on products during packaging, transit, and use in order to ensure the products' mechanical reliability.
Photovoltaic Lab		The lab can carry out solar radiation tests of wavelengths within the 290-3000 nanometer waveband range and 24-hour monitoring of photovoltaic batteries' environmental properties and inverter and electrical performance indices, thus reaching the leading domestic standard so as to improve the reliability of the inverter, static conversion efficiency, and MPPT tracking efficiency.



3AC 380V±15% 1.5~500kW

GD200 Series General Purpose Inverter

About the product



The Goodrive200 inverter adopts DSP control system platform and uses vectorized V/F control technology. Compatible with many types of protection methods. Can be used with asynchronous motors, Providing excellent driving performance. The product's air duct design, hardware configuration, and software capabilities all greatly improve the customer usability and environmental availability.

Technical Features

- Product can achieve more accurate motor autoturning and provide excellent motor drive performance.
- Product's design strictly follows IEC national standards and has passed the CE certification test of international authority TÜV SÜD.
- Product uses riveting structure design. Built-in C3 filter(standard). EMC performance is even more outstanding, enhances its reliability to meet the requirement of electromagnetic environment adaptability.
- 1.5 – 30KW inverter built-in brake unit. The whole series standard keypad supports parameters copy function. Pluggable terminal board makes convenient for replacement and maintenance for the users.
- Product supports common DC bus and supports DC input power supply. Can provide DC braking, dynamic braking, and flux braking methods. And includes many functions such as a simple water supply and instantaneous power failure non-stop.
- Book structure with independent air-duct design. Supports wall mounting, flange mounting, floor mounting, providing the customer a more reliable and economic installation.

Applications

Oil, mining, HVAC, water supply, blower pumps, universal drives.



3AC 380V±15% 0.75~15kW

GD100 Series Economic Vector Control Inverter

About the product



Goodrive100 inverter contains both V/F and sensorless vector control. Uses newly designed platform to provide excellent motor drive performance and is a simple, high performance product aimed at the general inverter market.

Technical Features

- Excellent motor drive performance with autoturning of rotation or static
- Independent duct design capable of supporting wall mounting and (through wall) flange mounting
- Built-in C3 filter (standard)
- External LED keypad (standard)
- Product design strictly complies with IEC international standards and has passed the CE certification testing of the
- International authoritative certification TUV-SUD

Applications

Machine Tool, Textile, Ceramic, Food Machinery, Transportation Machinery, And Plastic Machinery



1AC 220V \pm 15% 1.5~2.2kW
 3AC 220V \pm 15% 1.5~55kW
 3AC 380V \pm 15% 0.75~630kW
 3AC 660V \pm 15% 18.5~2500kW

CHF100A Series General Purpose Inverter

About the product

CHF100A Series Universal Vector Control Inverter is a function enhancement product. It uses the DSP control series, completely optimizes speedless sensor control and V/f control, further optimizes function, and allows for more flexible application and steadier performance. It has a wide range of applications in fans and pump loads, and may be used in situations requiring speed control precision pump torque response speed and low-frequency output.

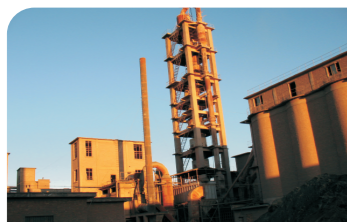
Technical Features

- Three control modes: without PG vector (SVC), V/F control, and torque control;
- Starting torque: without PG vector control: 0.5Hz/150% (SVC);
- 18.5kW~90kW inverter built-in DC reactor to improve input power factor and increase overall efficiency and stability;
- Internal brake unit with every specification 0.75~15kW, so that the braking resistor can be connected directly for a quick stop;
- 16-steps simple PLC, multi-speed control, and PID control
- Supporting multi-frequency installation methods: digital setup, analog quantity setup, PID setup, and communication setup;
- Supports starting and stopping DC brake;
- The input and output terminals may be freely programmed, so users may combine a variety of operating modes as needed;
- Equipped with jump frequency control which prevents mechanical resonance and makes the system more stable and reliable;
- Equipped with instantaneous power failure non-outage capability;
- Equipped with sleep-wake delay installation capability;
- Equipped with over-torque detection;
- Variety of maximum frequency setting source options;
- Equipped with a bidirectional shift key " \gg SHIFT", which enables users to use the shift key to view real-time parameters;
- Rotation speed tracking re-start function: allowing rotating machinery to be started smoothly and without any shocks;
- QUICK/JOG function: users can freely define multi-functional shortcut keys, and by setting up these parameters users can quickly browse different function codes of modified which are different from default values;
- Equipped with automatic voltage adjustment function, which can effectively resolve problems with high-power motors low-frequency vibrations;
- Equipped with vibration suppression;
- Offering a variety of fault protection functions: over-current, over-voltage, under-voltage, over-temperature, phase-failure, overload, etc.



Applications

- Boiler drum, induced draft fan, mine exhaust fan;
- Energy-saving air compressor;
- Energy-saving central air conditioning;
- Circulating pump, water supply pump, constant pressure water supply;
- Oil injection pump, oil transfer pump;
- Musical fountain.



CHE100 Series Sensorless Vector Control Inverter

About the product

CHE100 Series Open-Loop Vector Control Inverter uses the DSP control system to provide sensorless vector control, which has significant advantages compared with V/F control. The CHE100 Series best serves OEM clients at the middle and high end of the market and support fans and pumps with specific requirements. The inverter's flexible design has sensorless vector control (SVC) and V/F control installed in one unit. It is widely used in applications that require high-speed control accuracy, rapid torque response, and high performance at low frequencies.



Technical Features

- Three control modes: Sensorless vector control (SVC), V/F control, torque control.
- Start-up torque: Sensorless vector control 0.5Hz/150% (SVC).
- Built-in breaking unit: Brake resistance can be directly connected when rapid stops are required.
- Eight-step speed control, PID control, and traverse control.
- Offering four multi-functional digital inputs, two analog inputs, one relay output, one analog output, and one open-collector output.
- Automatic voltage regulation: When grid voltage is variable, this function automatically maintains a stable voltage output.
- Offering RS485 serial communication interface and a standard Modbus communication agreement.
- Optional LED or LCD external keypad for convenient and quick operation.

Applications

- Textiles, Plastics, Ceramics, Electronics, Numerical Controls, Foods Processing, Light Industry, And Pharmaceuticals.



3AC 220V $\pm 15\%$ 1.5~55kW
 3AC 380V $\pm 15\%$ 1.5~630kW
 3AC 1000V - 10% 15% 45~1200kW

CHV100 Series High Performance Vector Control Inverter

About the product

Completely new hardware design: the CHV100 Series Inverter uses the ARM (32-bit) + DSP (16-bit) double CPU system control plan, leading the way in vector control with a brand-new hardware control platform. It provides high performance with PG vector control (VC), without PG vector control (SVC), and torque control (TC). The CHV100 Series Inverter provides an open-style secondary development platform and a specially-designed function expansion card to optimize industrial resolution plans. Users are able to easily realize the functions of special industrial inverters just by configuring the function expansion card.



Technical Features

- Three speed control modes: without PG vector control (SVC), with PG vector control (VC), and V/F control method;
- Achieving 180% low-frequency torque output, with torque control precision $\pm 5\%$ (VC);
- With PG vector control, it provides a torque control mode and offers a specialized resolution plan for tension control;
- With PG vector control, the speed precision reaches $\pm 0.1\%$, offering a 1:1000 speed control range;
- 18.5~90kW inverter build-in DC reactor, increasing the overall efficiency and stability of the machinery and effectively eliminating the influence of high degree harmonics on the inverter and decreasing surrounding interference;
- Internal brake unit with inverters 0.75~15kW, so that the braking resistor can be connected directly for a quick stop;
- Rich expansion cards give rise to industrial resolution program: injection molding card, water card, IO expansion card, communication card, and PG card;
- 16-steps simple PLC, multi-speed control, and PID control, traverse control;
- Providing multi-functional 10 channels digital input, 4 channels analog input, 3 channels relay output, and 2 channels analog output;
- Speed trace function allows rotating machinery to be started smoothly and without any shocks;
- Optional LED/LCD panel for quick and convenient operation; the LCD panel allows users to quickly copy parameters and conduct convenient debugging.

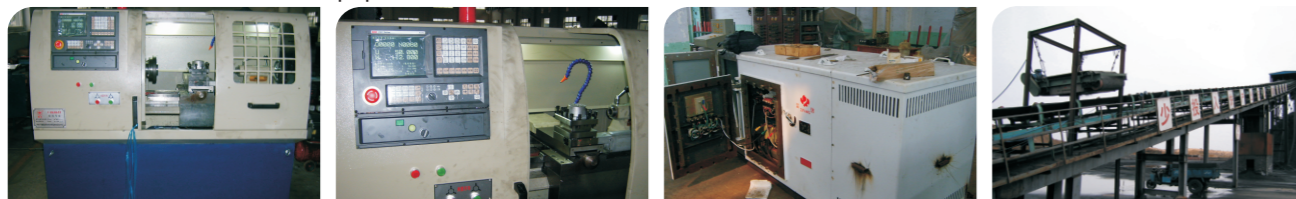
Applications

Universal

- Plastic and chemical fiber extrusion equipment;
- Metal processing machinery: lathe, milling machine, planing machine, and grinding machine;
- Building materials: cement, glass primary drive equipment;
- Rubber machinery;
- Wire and cable extrusion equipment.

Explosion-proof

- Belt Conveyers, Scraper Conveyers, Coal Feeder Machinery, Fans, Water Pumps, Engine Oil Pumps, And Oilfield Electrical Submersible Pumps.



3AC 380V $\pm 15\%$ 5.5~350kW

CHV160A Series Special Inverter for Multi-pump Water Supply

About the product

The CHV160A Series is a strong inverter designed for heating, ventilation, air conditioning and water supply. It is applicable for supporting fans and water pumps. This inverter employs advanced control theory to automatically adjust pump speed and switchover according to the pressure in the pipe network, so as to provide constant pressure.



Technical Features

- CHV160A Series Inverter = PLC + PID regulator + inverter;
- Supporting multiple water supply modes, including fixed variable frequency pumps (can define up to one fixed ariable pump + nine general pumps) and circulating variable frequency pumps (can define up to four circulating variable pumps + two general pumps);
- Optimized water supply PID regulator can shift between two sets of PID parameters;
- Flexible control logic for adding or removing pumps;
- Flexible dormant pump controls;
- Timed rotation control can effectively prevent pump corrosion;
- Eight timeslots for water supply and up to sixteen pressure settings;
- Built-in inlet and sewage pool water-level detection and logic control functions;
- Manual soft-start debugging and manual cyclical debugging allow for easy maintenance;
- Pipe network pressure monitoring and warning systems;
- Excellent protection against water pump grounding and phase deficits;
- Built-in standard Modbus communication protocol.

Applications

- Water for daily use, heating, and fire prevention for skyscrapers, housing development, offices, and businesses.
- Central air-conditioning systems and dual water supply systems.
- Water for use in mining and industrial production and circulation cooling water and water supplies for industrial boilers.
- Oilfield oil pipelines, oil depots, oil pump stations, oil ports, and other constant pressure oil supply systems.
- Water treatment plants and feed water booster pump stations.
- Waste water treatment.
- Irrigation systems for large plazas, parks, and farms.
- Fan and pump OEM.



3AC 380V \pm 15% 4~30kW

CHV180 Series Special Inverter for Elevator

About the product

The CHV180 Series is a special inverter designed for Elevator. It can control both traditional gear-traction machines and new gearless elevator. Its outstanding design can be easily integrated with existing elevator controls so as to ensure safety and comfort. The CHV180 Series can be applied to elevators with a speed of less than 4 m/s.



Technical Features

- Compatible with asynchronous and synchronous motors.
- With function of load sensor torque compensation: With simple parameter settings can avoid reverse slipping when starts.
- Torque compensation without load sensor: Accurately control synchronous gearless traction hoists for a smooth start.
- Identify initial pole angle when the synchronous motor is static: For a permanent magnet synchronous motor, it can do motor parameters autotuning process when motor is static. Debugging is the most effective when the motor and the machine are connected (Note: requires a sin/cos encoder).
- Acceleration and deceleration S-curve algorithm ensures comfort when the hoist accelerates, decelerates and stops.
- Brake and contact control: Controlling braking and contact according to the hoist's operation logic so as to ensure safety.
- Optimized speed loop: Speed loop employs variable proportional and integral gains controls for a dynamic response when stopping and starting the hoist. Improves comfort at stable speeds.
- Forced deceleration function: Preventing the hoist from crashing into the top or bottom-crashing.
- Emergency operation function: Automatically leveling to the nearest floor.
- Energy saving mode: Optional RBU series energy feedback unit saves energy.
- Parameter copy function: Providing optional LCD with a copy function for easy debugging.
- Multiple encoder inputs: Asynchronous PG card, SIN/COS synchronous PG card, and UVW synchronous PG card.

Applications

- Elevators for carrying passengers and cargo in residences, tourist attractions, hospitals, businesses, and stereoscopic and automated warehouses.

3AC 380V \pm 15% 4~500kW

CHV190 Series Special Inverter for Crane

About the product

The CHV190 Series is an inverter designed for hoisting and lifting, and uses advanced control theory to provide excellent torque control. The inverter's many capabilities ensure safety, reliability, and efficiency. It offers a variety of solutions for users with different needs, such as variable inverter with a translation structure, completely variable frequencies, and common DC bus. The CHV190 series is widely applicable in lifting and hoisting machinery for the stepless speed regulation of hoisting, lifting, variable amplitude, large vehicles, small vehicles, rotating, and grabbing.



Technical Features

- The time sequence of brake logic control and monitor function.
- Light load acceleration.
- Master-slave control of power balance and speed synchronization.
- Crane operation mode.
- Professional communication function. (Profibus, Modbus, Ethernet)
- Slack rope detection.
- Upper monitoring software.
- Independent control of main and control circuits to the power supply.
- Four groups of motor control and switch functions.
- Dangerous speed monitor, quick stop, and over-speed protection.
- Pre-compensation of start-up torque and torque verification.
- Current vector control can provide 200% output torque at zero speed.
- Numerous exterior interfaces and strong protective functions.

Applications

- Lifting equipment for ports, metallurgy, electric power, machinery, chemicals, transport and shipping, energy, light industry, environmental protection, and water conservancy.
- Railway and highway construction beam lifters, bridge erectors, and other engineering and construction cranes.
- Mine lifting machinery.



3AC 400V \pm 15% 75~1200kW

CHA100 Series 4-Quadrant Cubicle Inverter

About the product

The CHA100 Series 4-Quadrant Cabinet Inverter, using PWM controlled IGBT rectification technology, completes bi-directional control of rectification and energy feedback, bringing the power factor close to 1 and achieving true four-quadrant operation. The main circuit uses a unit module structural design for convenient system maintenance, and through the unit module parallel connection creates a inverter with different power grades.



Technical Features

- The rectifier/feedback units use a sine wave pattern to automatically return regenerated electric energy to the electrical network, making them “greener” and more energy efficient than the traditional brake unit + brake resistance method;
- The grid side electric current harmonics are small, and the fundamental wave power factor is close to 1 (full capacity);
- Excellent closed-loop vector performance, capable of achieving zero-speed 200% torque output;
- The structure of the rectifier and inverter power units are identical, simplifying the system and allowing for convenient maintenance;
- The rectifier and inverter use completely independent control plans, making it easy to achieve a common DC bus;
- Designed for application in the lifting industry, logic control when power on, brake control, pre-excitation, over-speed protection, starting pre-torque compensation, and other functions ensure safe and reliable use in the lifting industry.
- Supporting Profibus-DP, Modbus, and Ethernet communication protocols simultaneously;
- The master-slave control function satisfies the electric power equilibrium and speed synchronization requirements of multi-motor drives;
- The second motor control and switching function facilitates system control and reduces costs;
- Three speed control modes: without PG vector control (SVC), with PG vector control (VC), and V/F control method;
- Rich peripheral interface;
- System and unit module double protection, power-on sequence control, gate control, and configuration pre-fault status message automatic storage function enable quick diagnosis and easy troubleshooting.

Applications

- Shore container cranes (STS), Rail-mounted container Gantry Cranes (RMG), shipbuilding machines, wagon tippler, stacker and reclaimer machines, and a variety of other types of port machinery;
- Large tonnage (over 40 tons) bridge cranes, Gantry cranes, and other kinds of lifting machinery;
- Multi-motor drive steel rolling mill, blast furnace winch, and other metallurgy machinery;
- Multi-motor drive paper-making and carton machinery;
- Mine hoists, belt conveyers, and other mining machinery;
- Centrifuge, pour washer, and other food and pharmaceutical machinery;
- Centrifugal casting machine, large scale press, and other metal processing machinery.

3AC 380V \pm 15% 7.5~110kW

CHV110 Series Energy Saving Cabinet

About the product

The CHV110 Series high-performance vector energy saving cabinet is the latest achievement of many years of research and development, production, and on-site modification in energy saving equipment for injection molding machines. Energy saving modification brings exceptional vector control technology into the realm of injection molding machines, saving more electricity and completely resolving past problems of V/F control methods influencing production cycles. The energy saver can also be used in the modification of air compressors, central air conditioners, and escalators.



Technical Features

- Three control methods: Sensorless vector control (SVC), PG vector control (VC), and V/F control
- Frequency setting method: Comparative input of pressure and flow signals
- Protection level of IP21 and completely-closed design protects against dust, air, and corrosion. Adapted well to different environments, with a long service life.
- The 18.5-55kW energy saver is fitted with a DC reactor, which increases the input side power factor and overall machine efficiency and stability. The impact of input side high order harmonics on the energy saver is effectively eliminated, so as to reduce outside interference.
- A braking unit is installed on the 7.5-15kW model. If the machine needs to be stopped quickly, the machine can be linked directly to the braking resistor.
- Automatic reset and power failure reset ensure production continuity and efficiency.
- Automatic voltage regulation. When the voltage in the grid changes, this feature automatically ensures a constant output voltage.
- Speed trace function makes the motor start running smoothly.
- The commercial power grid/energy saver double circuit design ensures that the system can continue to operate without impacting production.
- Small unit, easy installation, ergonomic and compact structural design, dual use hanging or cabinet unit.
- LED/LCD are optional.
- Providing voltage and current signal detection panels. (The standard configuration provides a current signal panel. Voltage detection panels can accept current and voltage signal inputs. Please specify when ordering if a voltage detection panel is needed.)

Applications

Injection molding machine



3AC 6.6KV -15% 10% 185~4000kW
3AC 10KV -15% 10% 220~7100kW

CHH100 Series Medium Voltage Drive

About the product



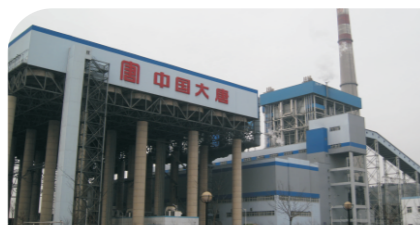
CHH100 high-voltage frequency inverter control system adopts the DSP + FPGA digital processing technologies, so its control accuracy and response speed are improved significantly; its output side uses the phase-shifting multiple pulse width modulation (PWM) technology, it has an extremely low harmonic content while there is no output filter. The touch panel is friendly and convenient for operating. It has been extensively used in multiple industries like electric power, metallurgy, mines, cement and petrochemical industry, and well accepted by customers.

Technical Features

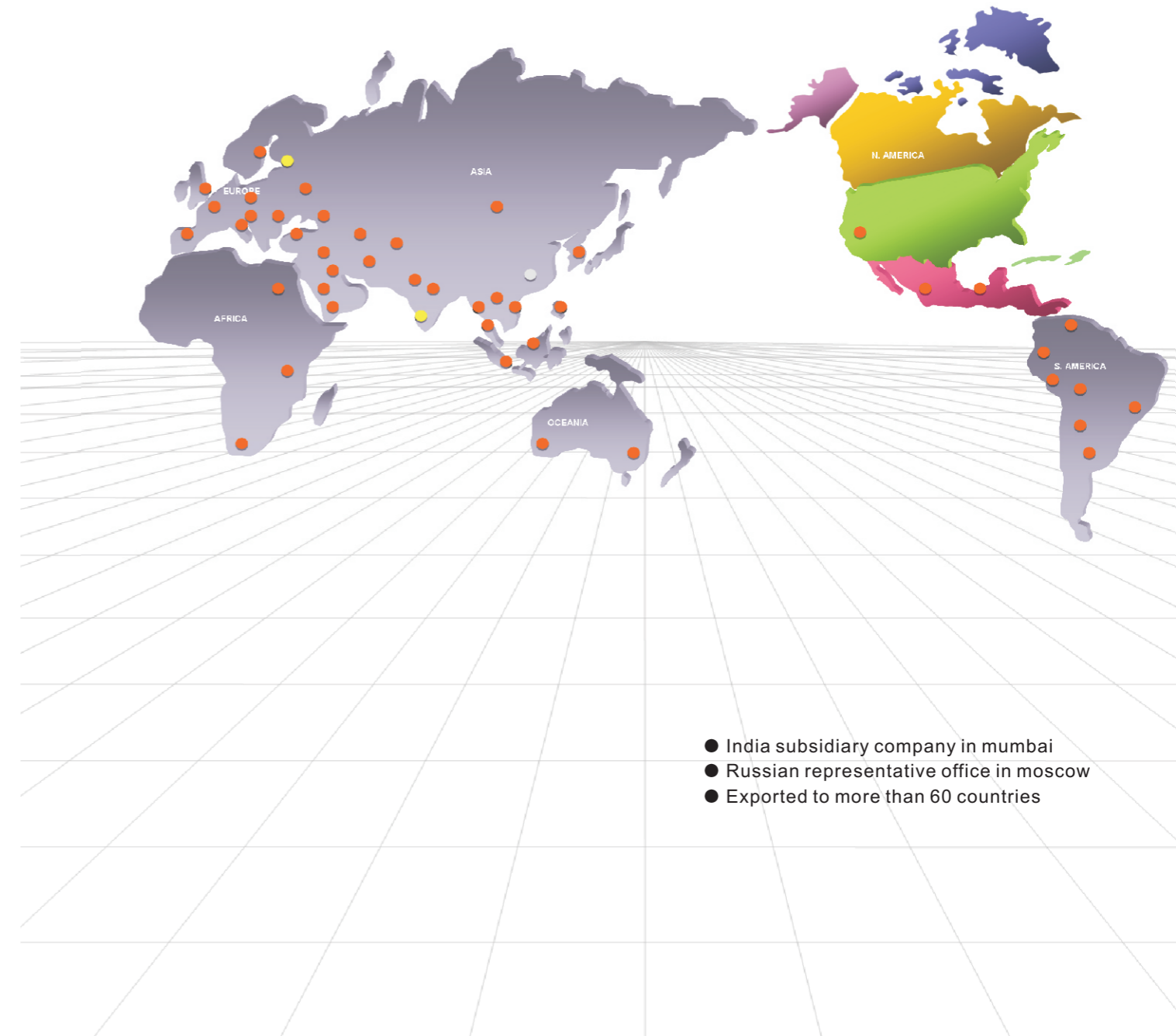
- Units feature hot galvanized board design delivering extremely high corrosion resistance;
- Tracking capacity by ultra-low frequency rotational speed to ensure fast restart in case of power failure;
- Unique synchronous interference-free switching to enable interference-free and automatic switching between industrial frequency and inverters;
- Units featuring dual protection bypass technology with a higher level of system reliability;
- Resistance to voltage fluctuations within a wide range;
- 20 protective functions and a professionally specialized high-resistance EMC circuit design.

Applications

- Thermal power plants: boiler induceddraft fan, primary fans for boilers, condensation pumps, and water-feed pumps etc.;
- Mines: primary exhaust fans, mine ventilator machines, air compressors, conveyor, etc.;
- Metallurgy: dedusting exhaust fans etc.;
- Petroleum and petrochemical: main pipe pumps, recycling pumps, and water injection pumps etc.;
- Chemical industry: air compressors etc.;
- Building material: high temperature fans, exhaust fans at the front and end of kilns, and raw feed mills etc.;
- Utilities: sewage pumps and send oxygen blowers etc.;
- Others: fans and pumps in the pharmaceutical industries, paper making industries, and so on.



Sales Network



- India subsidiary company in mumbai
- Russian representative office in moscow
- Exported to more than 60 countries