

Technical Specifications of 1000V, 1140V vector control AC drives (frequency inverter, variable speed drive)

Voltage range: 960V – 1300V

Control features	Control mode	Vector control 1
	Startup torque	0.50Hz 180%
	Speed adjustment range	1:100
	Speed stabilization precision	± 0.5%
	Torque control	N
	Torque precision	-
	Torque response time	-
Product functions	Key functions	Under-voltage adjustment, switching of AC operation grounding, protective grounding and DC operation grounding, rotation speed tracing, torque limitation, multi-speed operation (up to 23 speeds), auto-tuning, S curve acceleration/deceleration, slip compensation, PID adjustment , drooping control, current limiting control, manual/auto torque increase, current limiting.
	Frequency setting mode	Operation panel setting, terminal UP/DN setting, host computer communication setting, analog setting AI1/AI2/AI3, terminal pulse DI setting
	Overload capacity	150% 1 minute; 180% 10 sec; 200% 0.5 second;



EcoDriveCN drives

<http://www.EcoDriveCN.com>

	Frequency range	0.00 ~ 300.00Hz Note: Upon the control mode of vector control 1, 0.0 ~ 3000.0Hz, which can be customized according to the customer demand
	Startup frequency	0.00~60.00Hz
	Acceleration/deceleration time	0.1~36000s
	Powered braking capability	Inverter of 400V voltage grade: Braking unit action voltage: 1700 ~ 2200V Operating time: 100.0s
	DC braking capability	DC braking initial frequency: 0.00 ~ 300.00Hz; DC braking current: Constant torque: 0.0 ~ 120.0%, Variable torque: 0.0 ~ 90.0% DC braking time: 0.0 ~ 30.0s; there is no initial waiting time for the DC braking to realize quick braking
	Magnetic flux braking function	Ongoing action and no action upon deceleration as option, no action upon deceleration at default
Unique functions	Multifunctional M key	The unique multifunctional key is used to set the frequently used operations: JOG, emergency shutdown, running command reference mode switch , menu switching
	Multiple menu modes	Basic menu mode, fast menu mode. Menu mode of non-leave-factory value function codes, Menu mode of last changed 10 function codes



EcoDriveCN drives

<http://www.EcoDriveCN.com>

	Parameter copy	The standard operation panel can realize the parameter upload, download and display the copy progress. The user can select to forbid the overwriting of the uploaded parameters.
	Displayed/hidden function code	The customer can select to display or hide the function codes by themselves.
	Dual RS485 communication ports	Dual RS485 communication ports support Modbus protocol (RTU). The standard operation panel can realize remote control box function with a maximum distance of 500m.
	Communication	Built-in Modbus RTU; support Profibus, CANopen.
	Operation panel	Button type or shuttle type operation panel optional, protection class: IP20 as standard, IP54 as option
	Common DC bus	The full series can realize common DC bus supply for several inverters.
	Independent duct	The full series adopts independent duct design and supports the installation of heatsink outside the cabinet
	Universal expansion interface	Universal expansion board equipped with CPU for supporting customers secondary development: physical interface SPI bus, software protocol ModBus



	Expansion card	User's secondary development card, injection molding machine interface card, PG feedback card, air compressor control card, communication adapter card, power monitoring card, phase sequence detection card, external power rectifying card
	Power-up auto-detection	Realizing the power-up auto-detection of internal and peripheral circuits, including motor grounding, abnormal +10V power supply output, abnormal analog input, and disconnection
Protection function	Power supply under-voltage, over-current protection, overvoltage protection, interference protection, abnormal comparison reference input, auto-tuning failure, module protection, heatsink over-temperature protection, inverter overload protection, motor overload protection, peripheral protection, abnormal current detection, output to ground short circuit, abnormal power failure during operation, abnormal input power, output phase failure, abnormal EEPROM, abnormal relay contact, temperature sampling disconnection, encoder disconnection, abnormal +10V power supply output, abnormal analog input, motor over-temperature (PTC), abnormal communication, abnormal version compatibility, abnormal copying, abnormal expansion card connection, terminal mutual exclusion detection failure, hardware overload protection	

Environment	Operating site	The product shall be mounted vertically in the electric control cabinet with good ventilation. Horizontal or other installation modes are not allowed. The cooling media is the air. The product shall be installed in the environment free from direct sunlight, dust, corrosive gas, combustible gas, oil mist, steam and drip.
	Ambient temperature	-10 ~ +40°C, derated at 40 ~ 50°C, the rated output current shall be decreased by 1% for every temperature rise of 1°C
	Humidity	5 ~ 95%, no condensing
	Altitude	0 ~ 2000m, derated above 1000m, the rated output current shall be decreased by 1% for every rise of 100m
	Vibration	3.5mm,2~9Hz; 10 m/s ² ,9~200Hz; 15 m/s ² ,200~500Hz
	Storage temperature	-40~+70°C





EcoDriveCN drives

<http://www.EcoDriveCN.com>

EcoDriveCN drives

Add: #B XinFeng Building, YangGuang industrial area, XiLi Town, NanShan District, ShenZhen, 518055 China

Website: <http://www.EcoDriveCN.com>

Email: richard@EcoDriveCN.com

Tel: +86-177-04027519

WhatsApp: +86-177-04027519

Skype: EcoDriveCN

[V&T Technologies Co., Ltd. \(EcoDriveCN drives\)](#) is a leading manufacturer & supplier of motor control, energy efficiency, industrial automation & motion control in China, produces & supplies **[AC variable speed drive \(frequency inverter, variable frequency drives, VSD, VFD, inverters, VVVF\), servo, motor soft starter, AC/DC reactors \(chokes\), EMI filter, sinewave filter \(sinus filter\), du/dt filter, brake resistors, brake units, other power electronics.](#)**

The drives are widely applied in **[plastic injection molding machine \(for 25% ~ 70% energy saving ratio\)](#)**, **[machine tools](#)**, **[air compressor](#)**, water supply, civil engineering, conveyor belt, **[sewage disposal \(wastewater treatment\)](#)**, extruder, fan and pump, food and beverage industry, mining industry, paper and forest products industry, petroleum and chemical industry, wood processing, HVAC (heating, ventilating and air conditioning)...

From 200VAC to 1140VAC, from 0.4KW to 3MW (0.5hp - 4000hp), we are competing with ABB & Siemens in the market of drives & controls.

Advantages:

Failure rate < 0.15%, superior quality, as similar as Siemens, Emerson Control Techniques, ABB, Eaton, Schneider, Allen Bradley, Lenze, Yaskawa, Fujji;

[authorized CE certificate by ECMG. Under the audit of NVLAP. NVLAP Lab code: 200068-0. ISO/IEC](#)

Manufacturer & supplier of vector control frequency inverter (AC drive, VSD, VFD), servo, motor soft starter...

[07025:1999, ISO 9002:1994;](#)

18-month warranty period;

Prompt delivery lead time;

Supply to [REGAL, Ingersoll Rand, Foxconn, Tata Group, L.K. Group, Kai Shan Air Compressor Co., Ltd., Ingersoll Rand, Shenyang machine tool group, Shanghai Zhenhua Heavy Industry Co., Ltd, ...](#)



Manufacturer & supplier of vector control frequency inverter (AC drive, VSD, VFD), servo, motor soft starter...



EcoDriveCN drives

<http://www.EcoDriveCN.com>



Manufacturer & supplier of vector control frequency inverter (AC drive, VSD, VFD), servo, motor soft starter...