



## Solution of EcoDriveCN AC frequency converters (VSD, VFD, AC drives) on air compressors for 20% ~ 60% energy saving

V&T Technologies Co., Ltd. is a **reputed leader for energy efficiency retrofits of air compressors** in the world, experienced in energy saving retrofitting of air compressors for several years, achieves **20% - 60% energy saving ratio** for such application.

V&T Technologies Co., Ltd. is professional in manufacturing [best variable speed drive \(frequency inverter\), servo, motor soft starter and other power electronics products.](http://www.ecodrivecn.com)



**EcoDriveCN vector control variable speed drives (AC frequency inverters)** are used for energy saving and process control, in plastic injection molding machine, machine tools, air compressor,

Professional manufacturer of vector control frequency inverter (variable speed drive, VSD, variable frequency drive, VFD), servo, motor soft starters...

water supply, municipal engineering, conveyor belt, sewage disposal (wastewater treatment), cooling water circulation pumps, extruder machines, plastic extrusion machinery, fan and pump, blower, exhaust fan, ventilator, central air conditioning, sugar industry, food and beverage industry, mining industry, dust blower in steel works.

[As the leading factory, we are competing with Siemens, ABB, Yaskawa, Schneider in the market. The voltage is from 200VAC to 1140VAC, power from 0.4KW to 3MW.](#)

We have rich experiences in applying frequency inverters (variable frequency drives) on air compressors for energy saving, have cooperated with many famous companies, such as [Atlas Copco, Ingersoll Rand, Sullair and Kai Shan \(which is No.1 air compressors factory in China\).](#)



**Solution:**

Professional manufacturer of vector control frequency inverter (variable speed drive, VSD, variable frequency drive, VFD), servo, motor soft starters...



**EcoDriveCN** V5-H sensorless vector control (field-oriented control) and PID feedback closed loop control AC frequency converters (VSDs), + control device of air compressor

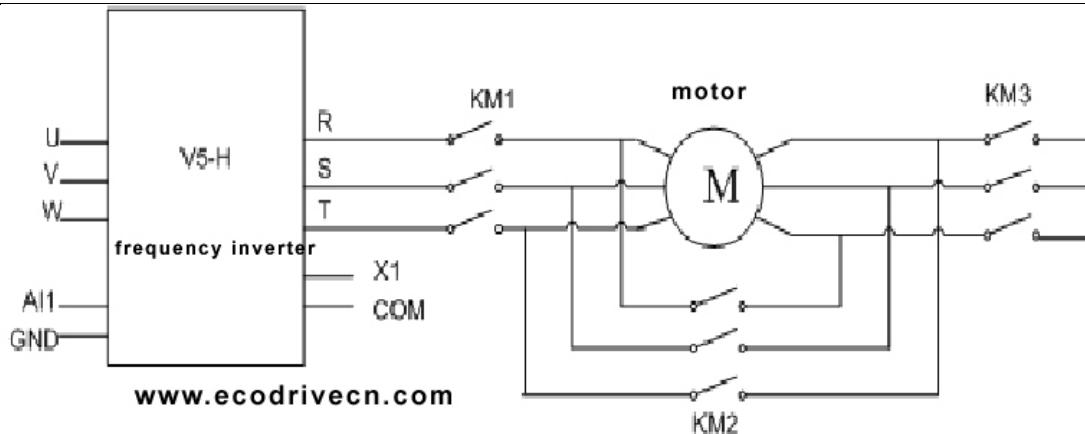
**Advantages:**

1. vector control AC frequency inverter (variable speed drive), energy efficient, up to 50% energy saving rating
2. closed loop constant pressure air supply, precision is up to  $\pm 0.01\text{MPa}$  ( $\pm 0.1\text{bar}$ )(positive or minus)
3. less maintenance cost of equipments, long lifetime, low noise
4. automatic pressure control, automatic pattern control, continuous air supply
5. start-up and running smoothly, no impact on the power grid
6. fast start with load, high torque, quick inflatable
7. power frequency/variable frequency switching
8. perfect protection mechanism, reliable operation
9. smaller volume is needed for gas storage equipment

**Parameter setting** of **EcoDriveCN** V5-H sensorless vector control (field-oriented control) and PID feedback closed loop control AC VSD drives (frequency inverters):

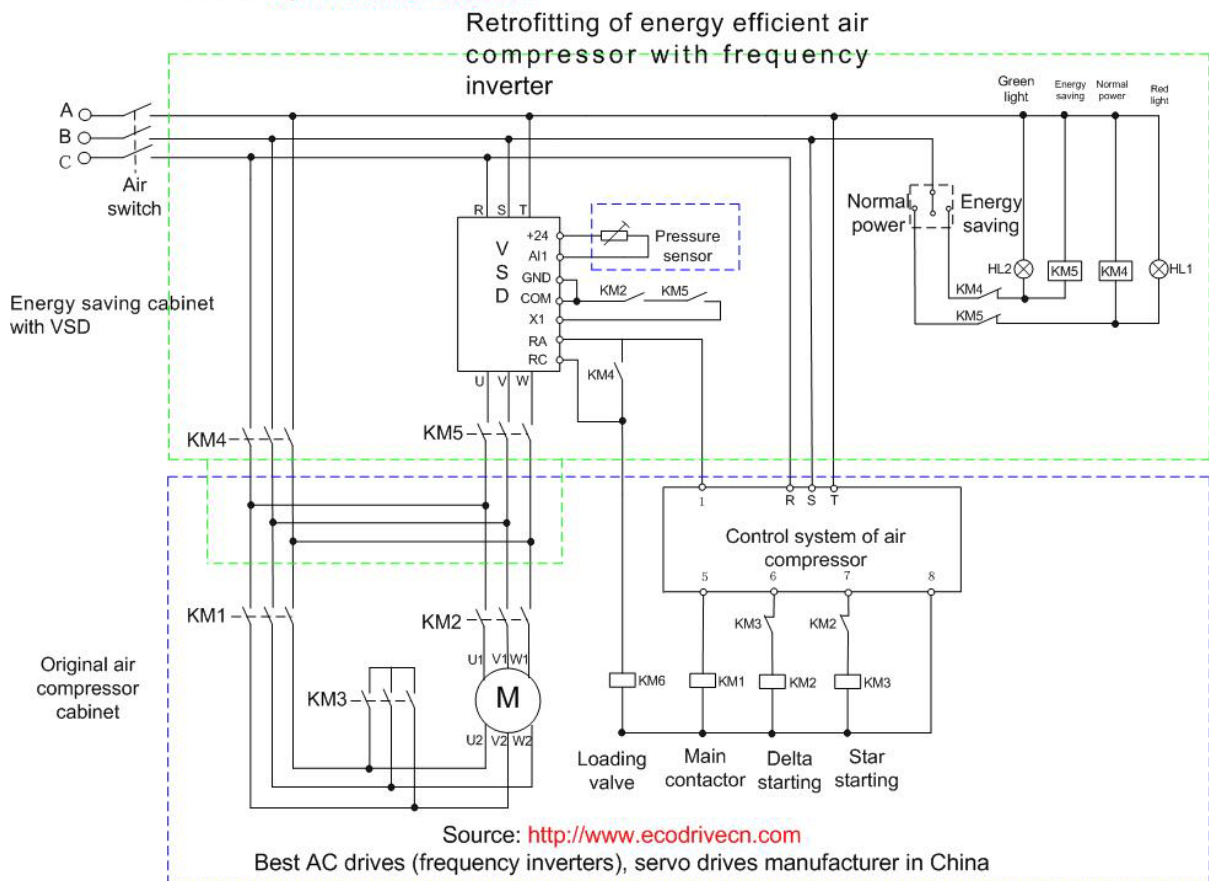
Parameter of AC drives	value	meaning
P0.03	1	Analog feedback process closed loop control
P0.04	1	Frequency value setting by analog signal from AI1 terminal
P0.06	1	Running command by AI1 terminal
P0.08	3	Acceleration time: 3 seconds
P0.09	3	Deceleration time: 3 seconds
P0.14	25	Lower frequency limit: 25Hz
P3.09	1	Negative rotation disallowed
P5.00	2	X1 terminal function: positive rotation (FWD)
P5.01	20	X2 terminal function: reset input of terminal failure
P6.00	4440	AI1 ~ AI3, DI analog input curve setting
P6.01	20	A0 value of curve 1
P7.02	14	Function of relay: failure of drive (frequency inverter)
P8.00	0	voltage setting of analog feedback process closed loop: 0 V

**System Diagram:**



Or wiring of EcoDriveCN frequency inverter (VSD drive) to air compressor with control system

Source: <http://www.ecodrivecn.com>



V&T Technologies Co., Ltd.

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

Email: [sales@EcoDriveCN.com](mailto:sales@EcoDriveCN.com)

Some competitive advantages of EcoDriveCN drives & controls:

Failure rate:

**Our failure rate < 1%, similar as ABB, Mitsubishi, Schneider, Lenze, Eaton, Siemens, Emerson,**

Professional manufacturer of vector control frequency inverter (variable speed drive, VSD, variable frequency drive, VFD), servo, motor soft starters...



Yaskawa.

Other small brands: > 1.5%, or even > 2%.

CE certificate:

Our CE certificate: issued by authorized party: ECMG.

Other small brands: issued by the unknown and unauthorized party.

Business partner:

we are supplying to Kai Shan Air Compressor Co., Ltd.(No.1 air compressors factory in China), REGAL, Ingersoll Rand, Foxconn, BYD, L.K. Group, CG Group..., which is famous in the world or in the field.

Other small brands: supply to some small projects, not supply stably to any famous companies

V&T Technologies Co., Ltd.

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