



More Value for Your Motors



V810 Series

More Performance, More Possibility

General Introduction

V810 series- High performance close loop vector control inverter:

Can adjust carrier frequency automatically according to loading characteristics.

Suitable for almost all applications.

Features



Power range

220V: 0.4 - 3.7 kw

380V: 0.75 - 1000 kw

690V: 11 - 1000 kw

1140V: customized

Open loop vector control (without PG card)

close loop vector control (with PG card)

V/F control: Built-in PID control

Can support Profibus communication protocol (optional)

Support many types of PG card

Specified model in many industries, can achieve functions like tension control, magnetoelectric motor and so on.

Specification:

Items	Specification
Control method	Open loop vector control (without PG card), close loop vector control: (with PG card): V/F control
Frequency range	Vector control: 0-320Hz, V/F control: 0-3200Hz
Setting of carrier frequency	1kHz - 16kHz, can adjust carrier frequency automatically according to loading characteristics
Resolution ratio of input frequency	Digital setting: 0.01 Hz Simulating Setting: Max frequency * 0.025%
Starting torque	G type model: 0.5 Hz/150% (without PG), 0 Hz/180% (with PG) P type model: 0.5 Hz/ 100%
Speed adjusting range	1:100 (without PG), 1:1000 (with PG)
Stable speed precision	±0.2 (without PG), ± 0.02% (with PG)
Torque controlling precision	±5% (with PG)
Overload capacity	G type model: 150% of rated current can last at most 60s, 180% of rated current can last at most 3s, P type model: 120% of rated current can last at most 60s, 150% of rated current can last at most 3s
Improve of torque	automatic improve of torque, improve of torque by hand 0.1% - 30.0%
V/F curve	Three methods: linear type, multi points type, nth power V/F curve (1.2th power, 1.4th power, 1.6th power, 1.8th power, 2th power)
V/F separt	2 methods: all separte and semi separte
Acceleration/ Deceleration curve	Linear type or S curve method of accelraion/ deceleration. Four types of accelration/ deceleration time, accelration/ deceleration time range is 0.0 - 6500.0 s
DC brake	DC brake freuquency: 0.00Hz - max frequency. Break time: 0.0S - 100.0S. Brakeaction current value: 0.0% - 100.0%
Jog control	Jog frequency range: 0.00Hz - 50.00 Hz, jog accelration/ deceleration time 0.0S - 6500.0S
PLC multi stage speed operation	Can achieve at most 16 stage speed operation by built-on PLC or control terminals.
Built-in PID	Can convenient achieve precedure control close loop control system.
Automatic voltage adjusting	When power grid voltage changes, can keep output voltage stable automatically.
Control of losing speed from overvoltage and overcurrent:	Limit automatically the current and voltage during operation, to prevent frquent tripping operation of overcurrent and over voltage.
Quick limit of current function	Decrease overcurrent breakdown at biggest level, to protect inverter run normally.
Torque limit and control	"Navy" characteristic, limit torque automatically during operation, to prevent frquent tripping operation of overcurrent, close loop vector control can achieve torque control.

Adress:

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