



HICONICS ECO- ENERGY DRIVE TECHNOLOGY CO., LTD.

Add: No.3 Boxing 2nd Road, E-Town, Daxing District, Beijing, China, 100176

Web: www.hiconics-global.com Fax: + 0086 10 5918 0035 Email: overseas@midea.com

HIC

Low Voltage Variable Frequency Drive

380VAC/690VAC, \leq 1400kW/2000kW

220VAC/380VAC/660VAC, \leq 5.5kW/800kW/710kW



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High Performance Engineering Low Voltage Drive



The HIC800 high performance engineered drive system is Hiconics' new generation low voltage high power drive control platform, which is designed to meet the application requirements of high power motor college drives in major industries with the following functions and features:

- Multiple control modes: Speed sensor vector control, V/F, SVC and VC.
- Modular design
- Broad areas of applications: can flexibly realize single-drive, multi-drive requirements and two-quadrant and four-quadrant operation through combination.
- Superior speed sensing-free vector control algorithm
- Guided HMI: Multi-language; can be operated on multiple platforms; high-speed Ethernet communication technology
- Safety protection mechanism: over-voltage, over-current, over-frequency, input/output phase loss, motor leakage, motor overload inverse time protection and wave-by-wave current limiting fast protection.

Input/Output Voltage	Input: 3-phase 380VAC(-15%~+20%)/3-phase 660VAC(-15%~+20%) Output: 0~rated/voltage
Motor Power Rating	3-phase 380VAC:710~1400kW 3-phase 690VAC:710~2000kW
Type	VSI
Pulse No.	6 pulses
Input/Output Frequency	50/60Hz±5%
Output Current Range	3-phase 380VAC:1377~2716A/3-phase 690VAC:748~2137A
Overload Capacity	120%/1min or 150%/1min
Output Frequency Range	0~rated frequency
Rectifier	DFE(Diode Front End)
Inverter	IGBT
Operating Quadrant	2-Q
IP Grade	IP30,IP31
Anti-corrosion Class	C3
Power Factor at input side	Customization
Rectifier-DC link-Inverter Efficiency	Customization
Input THDi	Customization
Output THDu	Customization
Output dv/dt	Customization
Motor Control Mode	V/f, Vector Control
Operating Temperature	≤ 40°C
Application Environment RH%	Customization
Installation Altitude	≤ 1000m

General Purpose Vector Control Low Voltage Drive



HIC530 series is a technology-upgraded standard asynchronous motor vector control inverter introduced through in-depth market research. It can be used to drive asynchronous motors and torque motors, with the following functions and features:

- Compact structure
- High stable speed accuracy, wide speed range
- High start torque function
- Instantaneous power failure function
- Excellent overcurrent suppression function
- Fast current limit technology
- Speed tracking function
- Thermal reliability of the inverter
- Short-circuit protection detection function
- FAT 100% withstand voltage safety test

Input/Output Voltage	Input: 1-phase 220VAC(-15%~+20%)/3-phase 380VAC(-15%~+20%)/3-phase 660VAC(-15%~+20%) Output: 0~rated voltage
Motor Power Rating	1-phase 220VAC:0.4~5.5kW/3-phase 380VAC:0.75~800kW/3-phase 660VAC:11~710kW
Type	VSI
Pulse No.	6 pulses
Input/Output Frequency	50/60Hz±5%
Output Current Range	1-phase 220VAC: ≤ 25A/3-phase 380VAC: ≤ 1450A/3-phase 660VAC: ≤ 730A
Overload Capacity	120%/1min or 150%/1min
Output Frequency Range	0~300Hz
Rectifier	DFE(Diode Front End)
Inverter	IGBT
Operating Quadrant	2-Q
IP Grade	IP20
Anti-corrosion Class	C3
Power Factor at input side	≥ 0.9
Rectifier-DC link-Inverter Efficiency	≥ 92%
Input THDi	---
Output THDu	<5%, IEEE519
Output dv/dt	---
Motor Control Mode	V/f, Vector Control
Operating Temperature	≤ 40°C
Application Environment RH%	≤ 90°C
Installation Altitude	≤ 1000m