

IST230A Series Mini Vector Inverter

General

IST230A Series Mini Inverter is a compact and economical inverter with the following characteristics:

- compact structure, high cost performance;
- easy installation,suitable for DIN rail installation (5.5KW and below) ;
- the ports are easy for connection, optional external keyboard;
- V/F control;Built-in PID control; RS485 communication can be used for textile, paper-making, machine tools, packaging, fans, water pumps and a variety of automatic production equipment drive.

Type Designation

IST230A - S 07 B

B: Braking Unit, Blank: Without Braking Unit

Power:

04: 0.4kW	22: 2.2kW
07: 0.75kW	40: 4.0kW
15: 1.5kW	55: 5.5kW

Input Level:

S: 1 phase 220V

T: 3 phase 380V

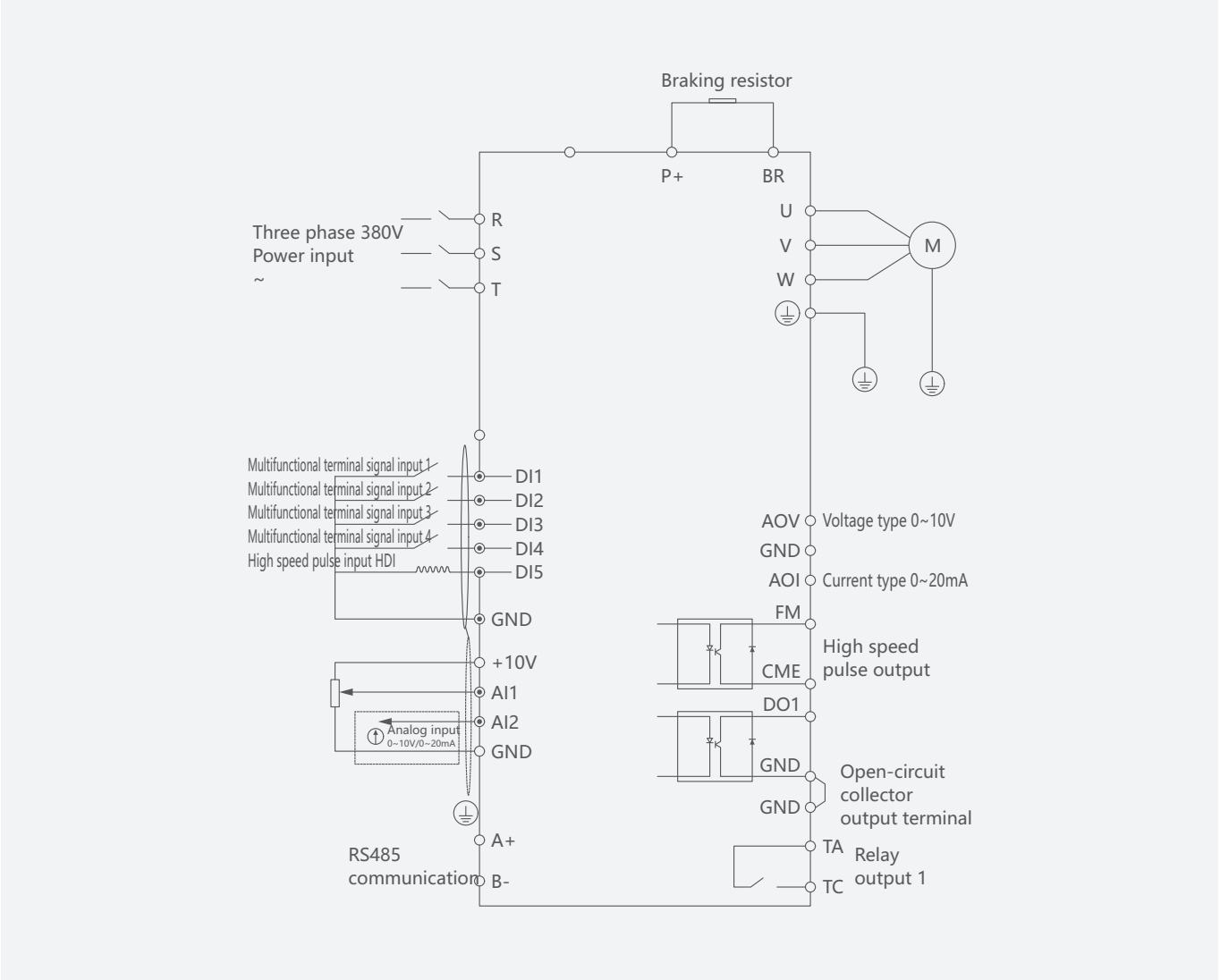
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Technical Specifications

Model	Rated power (kW)	Rated output current (A)	Adaptable motor	
			kW	HP
One phase power supply: 220V, 50Hz/60Hz				
IST230A-S04B	0.4	2.5	0.4	0.5
IST230A-S07B	0.75	4.0	0.75	1
IST230A-S15B	1.5	7.0	1.5	2
IST230A-S22B	2.2	9.6	2.2	3
Three phase power supply: 380V, 50Hz/60Hz				
IST230A-T07B	0.75	2.1	0.75	1
IST230A-T15B	1.5	3.8	1.5	2
IST230A-T22B	2.2	5.1	2.2	3
IST230A-T40B	4	9	4	5.5
IST230A-T55B	5.5	13	5.5	7.5

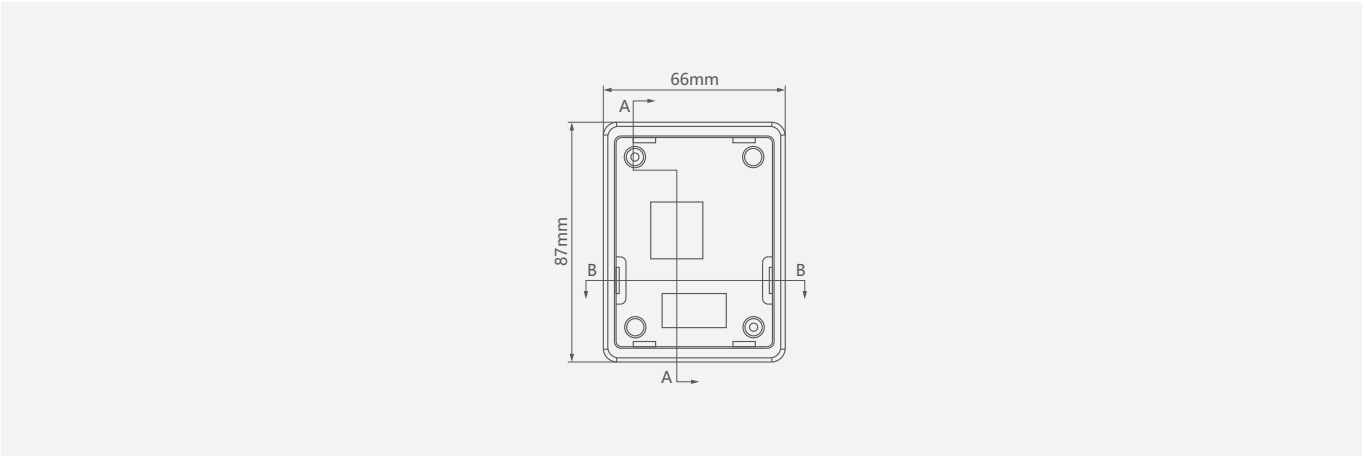
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Wiring Diagram



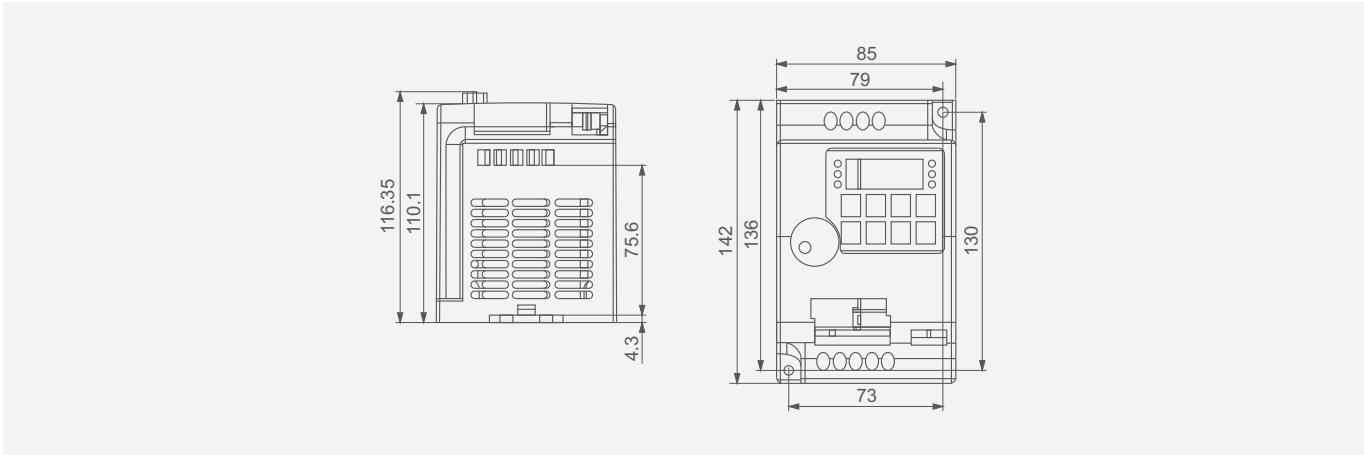
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1. Installation Dimension Diagram of Outer Panel

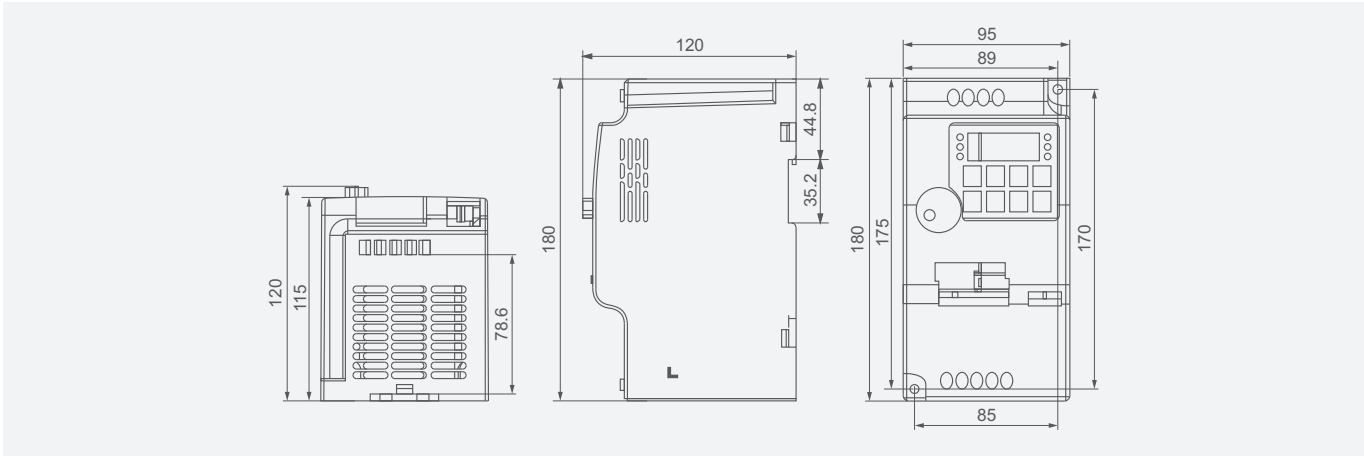


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2. Product Dimension Diagram, Installation Diagram 0.75~2.2kW



4~5.5kW



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Item		Item Description
Input	Rated voltage, frequency	1PH AC 220V 50/60Hz;3PH AC380V 50/60Hz
	Permissible working voltage	220V:170V~240V;380V:330V~440V
Output	Rated voltage	0~input voltage
	Frequency	0~400Hz
Control mode		Sensorless vector control, V/F control
Display		Five-digit tube display, indicator light display, display setting frequency, output frequency, output current, rotation direction, rotation speed, fault, etc
Control function	Freq dissolutions	Digital setting: 0.01Hz; Analog setting: highest frequency×0.1%
	Output frequency accuracy	0.1Hz
	V/F curve	V/F curve can be arbitrarily set to meet the needs of various loads
	Torque increase	Automatically rise torque up, according to output current it auto rise the torque up.Manually rise torque up, scope:0~20%
	Multi-function input terminal	there are 4 multi-functional input terminals, achieve functions as following: 15 speed control, program running 4 acceleration/deceleration switch, UP/DOWN function, emergency stop , etc
	Multi-function output terminal	There is one multi-function output terminal, to achieve function as following: indications of operating, zero speed, external abnormalities, program operation and alarm output
	Acc./Dec. time setting	0~999.9s can be set separately to Acc./Dec. time
Other Function	PID Setting	Built-in PID control
	RS485	Standard RS485 communication function (Modbus)
	Frequency setting	Analog quantity 0~10V, 4~20mA, keyboard direct setting, RS485 setting, UP/DOWN setting and other waysNote: AVI terminal can select analog voltage input (0~10V) or analog current input (4~20mA) by switching switch J2.
	Auto voltage regulation	When network voltage change, it can auto adjust the output of PWMand keep output voltage constant
	Counter	Built-in 2 groups of counters
Protection Function	overloading protection	Constant torque 150%/1 min, variable torque 120%/1 min
	over-voltage protection	Over-voltage protection can be set
	under-voltage protection	Under-voltage protection can be set
	Other protection	Short circuit protection, over current protection, parameter lock, etc
Ambient Conditions	Ambient temperature	-10- +40℃
	Humidity	20~90%RH, Without water condensation
	Altitude	Altitude less than 1000m
	Vibration	<0.5G
Structure	Cooling mode	Cooling mode
	Protection grade	IP20
	Mounting mode	Wall hung type, standing type