

## EC100 Series Elevator Integrated Controller

### About the Product

EC100 series elevator integrated controller is an intelligent network product for control and drive through applying advanced variable-frequency vector control, intelligent elevator control and network communication. We devote to provide high-tech, high-quality, energy-saving and safe control drive devices to global market.



### Main Features

- Resources reducing in the elevator installation, debugging, operation and management
- Max speed: 6m/s Max floor:64
- Intelligent network group control can control 8 elevators at the same time
- Embedded high-performance no-load starting compensation technology
- Advanced vector calculation and be compatible to the encoder interface of AM/SM motor
- High-performance current vector control, 180% torque output at zero speed
- Low voltage emergency-rescue mode of AC220V single phase UPS, search the direction in light load
- EN81-20 certificate

### Special Functions

- The initiate open PLC programming controller: provide the shifting/changing function for some input/output terminals and further development platform for the user
- Hand terminal: stand-alone human-machine interface, on-line Chinese/English help system; functions of debugging management, debugging trace management, parameters uploading/downloading, computer data copying
- The hand terminal can be connected to the CAN interface in the car for convenient parameters setting
- Add TCP/IP internet module for remote debugging and control
- Support remote control of TCP/IP protocol

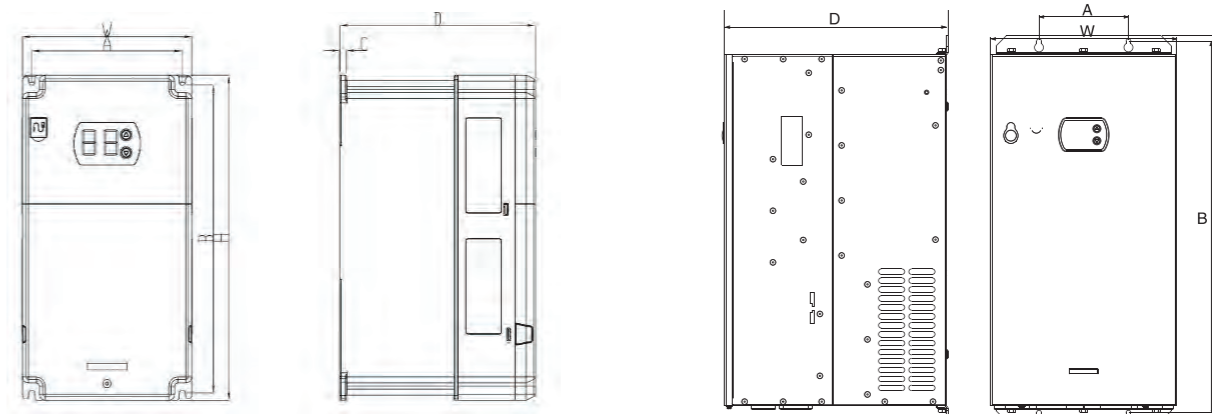
### Comprehensive Technical Parameters

Item	Name	Description
Input/output characteristics	Input voltage range	3PH AC380V±15% 3PH AC220V±15%
	Input frequency range	47~63Hz
	Output voltage range	0~Rated input voltage
	Output frequency range	0~400Hz
Peripheral interface features	Digital low voltage input	29 channels, DC24V/4.5~8mA
	High-voltage detector input	3 channels, AC/DC 110V
	Digital output	12 channels
	CAN communication interface	3 channels
	Encoder port	Incremental encoder interface, SIN/COS, UVW
Technical control characteristics	Control mode	PG vector control
	Overload capacity	150% of the rated current:60s; 180% of the rated current:10s
	Starting torque	PG vector control: 0Hz/ 180%
	Speed control accuracy	PG vector control: ±0.1% of the Max. speed
	Carrier frequency	1.0kHz~16.0kHz

### Configuration

Model	Input Voltage	Output Power(kW)	Output Current(A)	Braking Unit	Min.Braking Resistor
EC100-1R5-S2	Single-phase	1.5	5.5	Built-in	120Ω/400W
EC100-2R2-S2	220V±15%	2.2	11	Built-in	100Ω/1000W
EC100-004-2	3PH AC220V±15%	4.0	18.5	Built-in	35Ω/1200W
EC100-5R5-2		5.5	27.0	Built-in	25Ω/1500W
EC100-7R5-2		7.5	34.0	Built-in	20Ω/2000W
EC100-011-2		11.0	46.0	Built-in	15Ω/4000W
EC100-015-2		15.0	62.0	Built-in	10Ω/4500W
EC100-018-2		18.5	75.0	DBU-055-2	8Ω/5000W
EC100-004-4	3PH AC380V±15%	4.0	11	Built-in	75Ω/1200W
EC100-5R5-4		5.5	13	Built-in	55Ω/1500W
EC100-7R5-4		7.5	18.5	Built-in	50Ω/2000W
EC100-011-4		11.0	27.0	Built-in	40Ω/4000W
EC100-015-4		15.0	34.0	Built-in	32Ω/4500W
EC100-018H-4		18.5	38.0	Built-in	28Ω/5000W
EC100-022-4		22.0	46.0	Built-in	22Ω/7000W
EC100-030-4		30.0	62.0	Built-in	20Ω/10000W
EC100-037-4		37.0	75.0	DBU-55-4	14Ω/11000W
EC100-045-4		45.0	92.0	DBU-55-4	11Ω/13500W
EC100-055-4	55.0	115.0	DBU-55-4	9Ω/16500W	

### Appearance and Installation Dimensions



Dimension of 3PH AC220V 15kW and below  
Dimension of 3PH AC380V 30kW and below

Dimension of 3PH AC220V 18.5kW  
Dimension of 3PH AC380V 37~55kW

### Installation Dimensions

Input voltage	Power(kW)	W(mm)	H(mm)	D(mm)	A(mm)	B(mm)	C(mm)	Hole Diameter (mm)	Installation STUD
Single-phase 220V	1.5~2.2	170	320	197	151	303	6.5	Φ6.5	M6
3PH AC220V	4~5.5	170	320	197	151	303	6.5	Φ6.5	M6
	7.5	230	330	197	210	311	6.5	Φ6.5	M6
	11~15	255	400	226	237	384	10	Φ6.5	M6
	18.5	270	555	325	130	540	2	Φ7	M6
3PH AC380V	4~11	170	320	197	151	303	6.5	Φ6.5	M6
	15~18.5	230	330	197	210	311	6.5	Φ6.5	M6
	22~30	255	400	226	237	384	10	Φ6.5	M6
	37~55	270	555	325	130	540	2	Φ7	M6