

Cabinet for MR



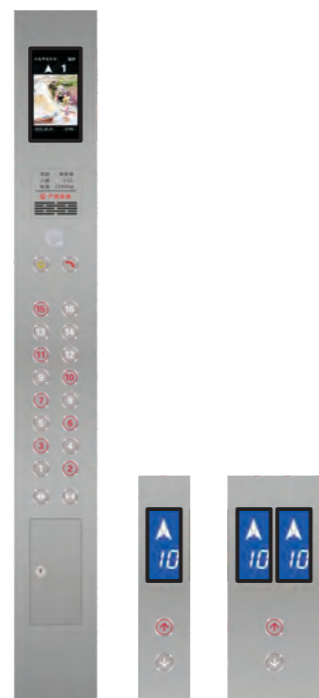
Car Top Inspection Box



Cabinet for MRL



COP / LOP



EC100 Series Elevator Integrated Controller

Your trusted industry automation solution provider



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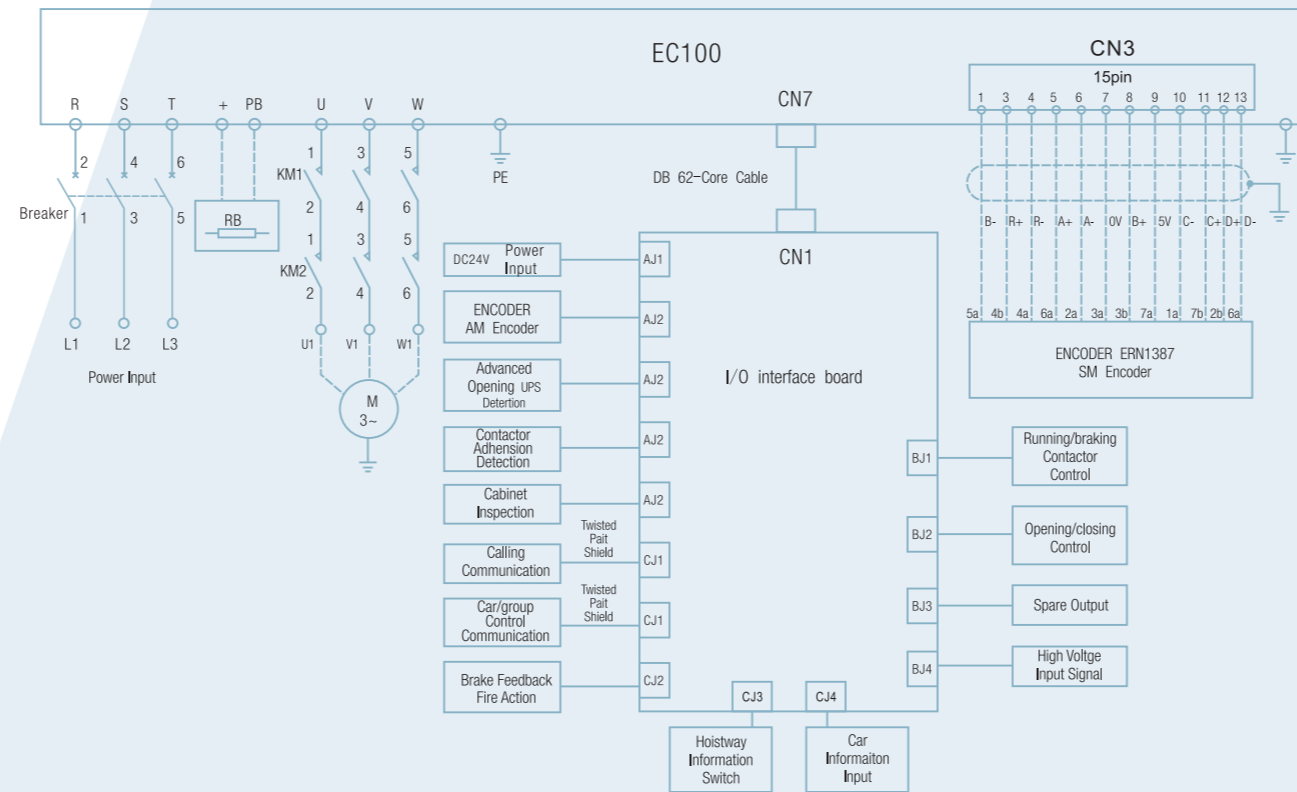
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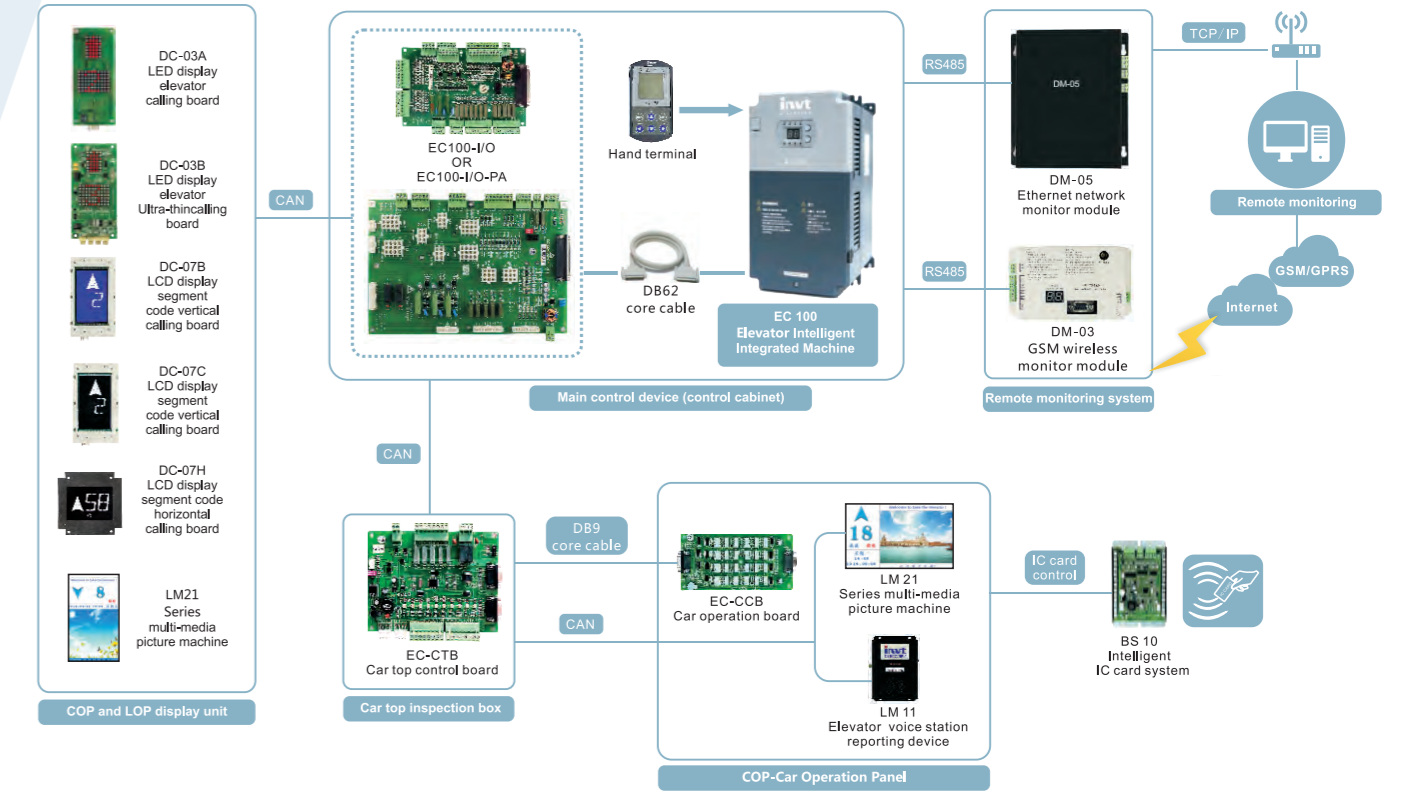
EC100 Series Elevator Integrated Controller



Connection Diagram of Peripheral Devices in Control System



EC100 Configuration Instructions



Basic Performance

- 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 starting compensation technology of non-weighting sensor.
- Advanced space 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.
- Safety enabling hardware input conform to EN81 standards.

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.

Specifications

Item	Name	Description
Input/output characteristics	Input voltage range	3AC380V±15% 1AC220V±15% 3AC220V±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	Built-in Incremental encoder interface,SIN/COS,UWV
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

Technical Advantages

- PLC programmable technology.
- Direct stop technology in the principle of distance control, automatically generated by N curves.
- Advanced vector control technology.
- LCD operation keypad, compatible with manual operation or PC debugging software.
- Redundancy design, safety protection function for the drive control of COP-Car operation panel, improving elevator safety factor greatly.
- Automatic car position correction, monitoring function for the forced deceleration switch, protection function against top-hitting and bottom-clashing.