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RUDRAKSHA



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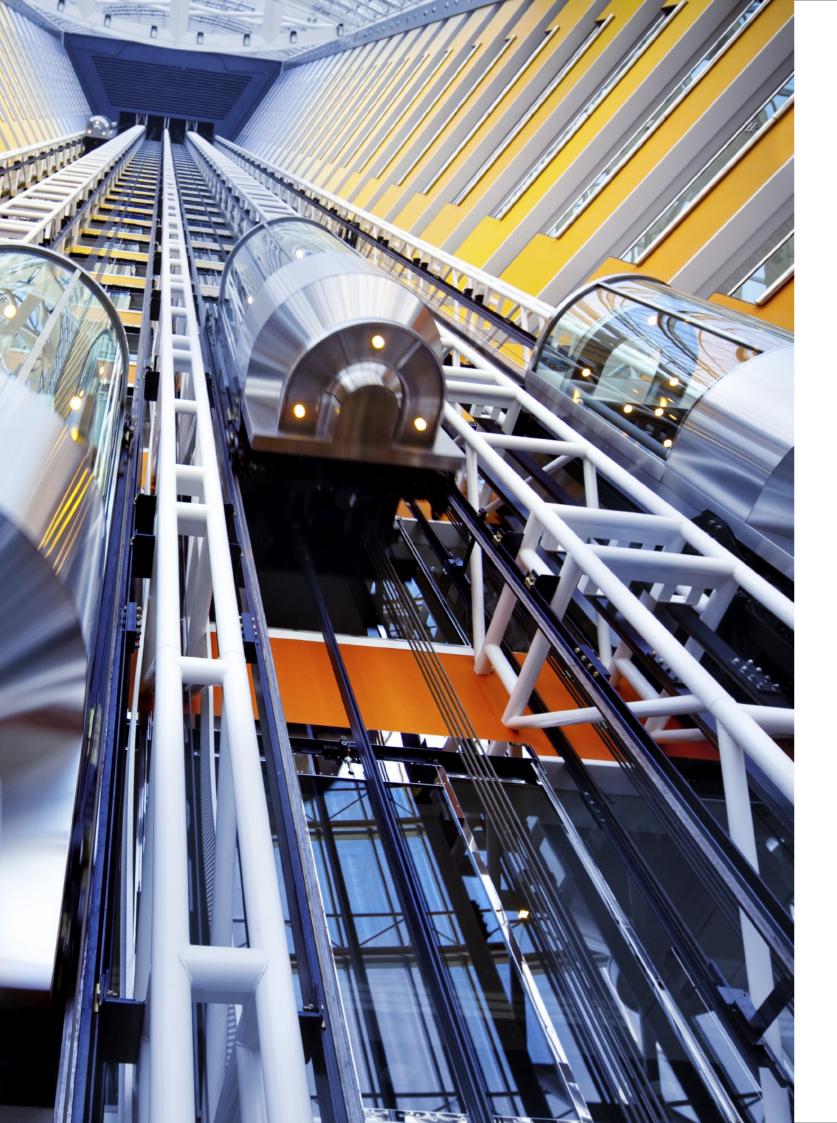




PRODUCT SELECTION GUIDE

Elevator Control System Expert

Intellectual Product Impressed Customers



A. Elevator Integrated drives



MONT70 Elevator Integrated Controller MONT71 Elevator Integrated Controller

B. Elevator drives & Controller



HD5L Elevator Controller HD3N-L Open-loop Elevator Controller

C. Elevator Drives





MONT20 Door Controller Elevator Interet of Things-APP Elevator Interet of Things-Website

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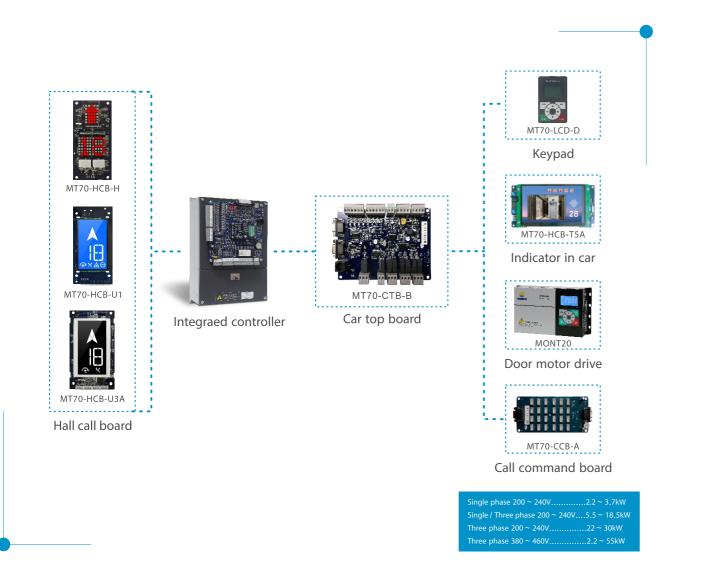
MTCC-V2 Classic Home Lift Control Panel COOL100 Home Lift Control Panel

MT70-BLE-A Bluetooth Module System Components





MONT70 series products are the intelligent control system with automatic control technology, power electronic technology, motor drive technology and network communication technology. On the international advanced level, MONT70 can be perfectly qualified for various elevator system applications.



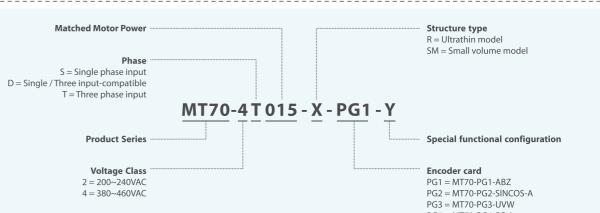
Product Features

Safer	Comply with the new elevator inspection regulation and national standard, well meet the standards of European Union, the Middle East, South Korea, Russia and other regions
More convenient	Debugging interface with both Chinese and pictures; Parameter setting, one key for all design
More reliable	Select new generation of IGBT modules and redundancy design to improve load capacity and product service life

Technical Data

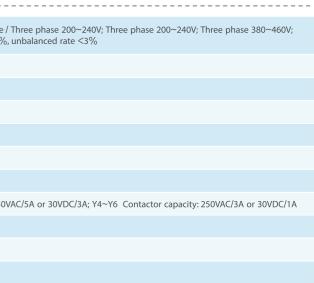
	Input voltage	Single phase 200~240V; Single Fluctuations not exceed ±10%
Electrical data	Input frequency	50/60Hz ± 5%
	Output voltage	0~ Input voltage
	Output frequency	0~100.0Hz
	Analog input	Al: Voltage -10-+10V
Input / Output	Digital input	X1~X24
	High voltage input	X25~X28
	Relay output	Y1~Y3 Contactor capacity: 250
	Floor	48F Max.
Elevator basic	Running speed	Max. 4m/s
characteristics	Group number	Max. 8 sets
	Communication mode	CAN, Modbus

Configuration Parameter



MON	MONT70 Elevator Integrated Controller		Power Selection			Braking Resistor (recommended)			
Size	Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A		Suggested Resistor Ω		Asyn. Power kW
FA	MT70-2S2P2	2.2	3.8	24.1	10.3	26~130	50	1.0	1.0
FAR	MT70-252P2-R	2.2	3.8	24.1	10.3	26~130	50	1.0	1.0
FA	MT70-2S3P7	3.7	5.9	40	17	26~90	30	1.6	1.2
FAR	MT70-2S3P7-R	3.7	5.9	40	17	26~90	30	1.6	1.2
FASM	MT70-2D2P2-SM	2.2	3.8	24.1/12 ⁽¹⁾	10.3	26~130	50	1	1
FASM	MT70-2D3P7-SM	3.7	5.9	40/ 19(1)	17	26~90	30	1.6	1.2





PG4 = MT70-PG4-SC-A





MONT71 adapts complete parallel signal processing to meet the application needs of various villa ladders, passengers and cargo elevators.



Product Features

Supporting high buildings	Max.8 floors without expansion card; Max.16 floors with expansion card
Economic	Complete parallel communication without additional acceesories; 4 build-in high voltage input and switch can be compounded by software
Flexible display board application method	Supports display board in 7 segment, BCD code and Gray code; Serial communication display board is selectable

Configuration Parameter





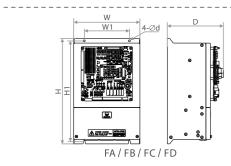
MONT71 Elevator Integrated Controller				Braking Resistor (recommended)					
Size	Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A	Resistor Range Ω	Suggested Resistor Ω	Syn. Power kW	Asyn. Power kW
FA	MT71-2S2P2	2.2	3.8	24.1	10	26~130	50	1.0	1.0
FA	MT71-2S3P7	3.7	5.9	40	17	26~90	30	1.6	1.2
FB	MT71-2D5P5	5.5	8.5	60/29 ⁽¹⁾	27	17~27	20	2.0	1.6
FB	MT71-2D7P5	7.5	11	75/35 ⁽¹⁾	33	11~20	15	3.2	2.0
FC	MT71-2D011	11	16	100/47(1)	45	11~20	15	4.0	3.2
FC	MT71-2D015	15	21	130/62(1)	55	10~16	12	5.0	4.0
FC	MT71-2D018	18.5	24	160/77(1)	70	10~16	12	6.4	5.0
FD	MT71-2T022	22	30	92	80	7~10	9	8.0	6.4
FD	MT71-2T030	30	39	113	110	7~10	9	10.0	8.0
FA	MT71-4T2P2	2.2	3.4	7.3	5.1	56~210	100	1.0	1.0
FA	MT71-4T3P7	3.7	5.9	11.9	9	56~144	80	1.6	1.2
FA	MT71-4T5P5	5.5	8.5	15	13	56~100	70	2.0	1.6
FB	MT71-4T7P5	7.5	11	20	18	56~72	64	3.2	2.0
FB	MT71-4T011	11	16	29	27	34~48	40	4.0	3.2
FB	MT71-4T015	15	21	35	33	34~41	36	5.0	4.0
FC	MT71-4T018	18.5	24	41	39	17~31	24	6.4	5.0
FC	MT71-4T022	22	30	50	48	17~27	20	8.0	6.4
FC	MT71-4T030	30	39	62	60	11~20	15	10.0	8.0
FC	MT71-4T037	37	49	77	75	10~16	12	12.0	10.0
FD	MT71-4T045	45	59	93	91	7~10	9	18.0	15.0
FD	MT71-4T055	55	72	113	112	7~10	9	18.0	15.0

(1): Value before "/" represents rated input current in single phase power supply, and the value after "/" represents rated input current in three phase power supply.

Technical Data _____

	Input voltage	Single phase 200~240V; Single / Three phase 200~240V; Three phase 200~240V; Three phase 380~460V; Fluctuations not exceed \pm 10%, unbalanced rate <3%
Electrical data	Input frequency	50/60Hz±5%
	Output voltage	0~Input voltage
	Output frequency	0~100.0Hz
	Analog input	Al: Voltage -10-+10V
	Digital input	X1~X24、X29
Input / Output	High voltage input	X25~X28
	Relay output	Y0~Y24 Contactor capacity: 250VAC/3A or 30VDC/1A
	Button terminals	L1~L24
	Floor	10 floors in standard (can be extended to 16 floors)
Elevator basic	Running speed	Max. 1.75m/s
characteristics	Communication mode	Complete parallel communication and series communication is selectable
	Expansion board	MT70-IOB-A; MT70-IOB-B; MT70-IOB-C

Production and Installation Size



Size	Produc	tion Siz	ze (mm)	Installa	GW		
	w	н	D	W1	H1	d	kg
FA	200	350	159	150	334.5	6.5	6.3
FB	220	350	186	150	334.5	6.5	7.2
FC	290	555	216	235	541.5	6.5	15.4
FD	380	598	282	260	576	10	37



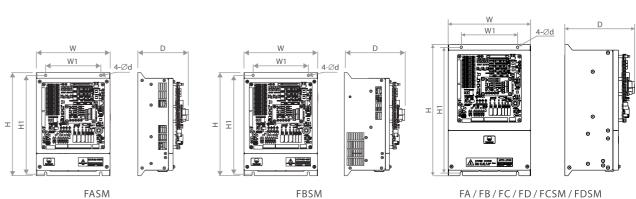


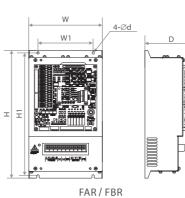
MONT70 Elevator Integrated Controller			Braking Resistor (recommended)						
Size	Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A	Resistor Range Ω	Suggested Resistor Ω		Asyn. Power kW
FB	MT70-2D5P5	5.5	8.5	60/29 ⁽¹⁾	27	17~27	20	2.0	1.6
FBSM	MT70-2D5P5-SM	5.5	8.5	60/29(1)	27	17~27	20	2.0	1.6
FB	MT70-2D7P5	7.5	11	75/35(1)	33	11~20	15	3.2	2.0
FBSM	MT70-2D7P5-SM	7.5	11	75/35(1)	33	11~20	15	3.2	2.0
FC	MT70-2D011	11	16	100/47 ⁽¹⁾	45	11~20	15	4.0	3.2
FC	MT70-2D015	15	21	130/62(1)	55	10~16	12	5.0	4.0
FC	MT70-2D018	18.5	24	160/77 ⁽¹⁾	70	10~16	12	6.4	5.0
FA	MT70-2T3P7	3.7	5.9	19	17	26~50	30	1.6	1.2
FB	MT70-2T5P5	5.5	8.5	29	27	17~27	20	2	1.6
FB	MT70-2T7P5	7.5	11	35	33	11~20	15	3.2	2
FC	MT70-2T011	11	16	47	45	11~20	15	4	3.2
FC	MT70-2T015	15	21	62	55	10~16	12	5	4
FC	MT70-2T018	18.5	24	77	70	10~16	12	6.4	5
FD	MT70-2T022	22	30	92	80	7~10	9	8.0	6.4
FD	MT70-2T030	30	39	113	110	7~10	9	10.0	8.0
FA	MT70-4T2P2	2.2	3.4	7.3	5.1	56~210	100	1.0	1.0
FAR	MT70-4T2P2-R	2.2	3.4	7.3	5.1	56~210	100	1.0	1.0
FASM	MT70-4T2P2-SM	2.2	3.4	7.3	5.1	56~210	100	1.0	1.0
FA	MT70-4T3P7	3.7	5.9	11.9	9	56~144	80	1.6	1.2
FAR	MT70-4T3P7-R	3.7	5.9	11.9	9	56~144	80	1.6	1.2
FASM	MT70-4T3P7-SM	3.7	5.9	11.9	9	56~144	80	1.6	1.2
FA	MT70-4T5P5	5.5	8.5	15	13	56~100	70	2.0	1.6
FAR	MT70-4T5P5-R	5.5	8.5	15	13	56~100	70	2.0	1.6
FASM	MT70-4T5P5-SM	5.5	8.5	15	13	56~100	70	2.0	1.6
FB	MT70-4T7P5	7.5	11	20	18	56~72	64	3.2	2.0
FBR	MT70-4T7P5-R	7.5	11	20	18	56~72	64	3.2	2.0
FBSM	MT70-4T7P5-SM	7.5	11	20	18	56~72	64	3.2	2.0
FB	MT70-4T011	11	16	29	27	34~48	40	4.0	3.2
FBR	MT70-4T011-R	11	16	29	27	34~48	40	4.0	3.2
FBSM	MT70-4T011-SM	11	16	29	27	34~48	40	4.0	3.2
FB	MT70-4T015	15	21	35	33	34~41	36	5.0	4.0
FBR	MT70-4T015-R	15	21	35	33	34~41	36	5.0	4.0
FBSM	MT70-4T015-SM	15	21	35	33	34~41	36	5.0	4.0
FC	MT70-4T018	18.5	24	41	39	17~31	24	6.4	5.0
FCSM	MT70-4T018-SM	18.5	24	41	39	17~31	24	6.4	5.0

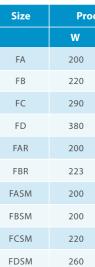
MON	MONT70 Elevator Integrated Controller		Power Selection			Braking Resistor (recommended)			
Size	Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A		Suggested Resistor Ω		Asyn. Power kW
FC	MT70-4T022	22	30	50	48	17~27	20	8.0	6.4
FCSM	MT70-4T022-SM	22	30	50	48	17~27	20	8.0	6.4
FC	MT70-4T030	30	39	62	60	11~20	15	10.0	8.0
FDSM	MT70-4T030-SM	30	39	62	60	11~20	15	10.0	8.0
FC	MT70-4T037	37	49	77	75	10~16	12	12.0	10.0
FDSM	MT70-4T037-SM	37	49	77	75	10~16	12	12.0	10.0
FD	MT70-4T045	45	59	93	91	7~10	9	18.0	15.0
FD	MT70-4T055	55	72	113	112	7~10	9	18.0	15.0

(1): Value before "/" represents rated input current in single phase power supply, and the value after "/" represents rated input current in three phase power supply.

Production and Installation Size









FA/FB/FC/FD/FCSM/FDSM

uction Size	e (mm)	Instal	GW		
н	D	W1	H1	d	kg
350	159	140	344.5	6.5	8.7
350	186	150	334.5	6.5	9.1
555	218	235	541.5	6.5	17.7
598.5	282	260	576	10.0	46.6
348	143	150	334.5	6.5	7.3
348	164.5	150	334.5	6.5	8.6
280	137	150	265	6.5	5.5
280	164	150	265	6.5	7.5
375	199	195	360	7.0	13.0
440	230	230	420	8	20.8
	H 350 350 555 598.5 348 348 280 280 280 375	350 159 350 186 555 218 598.5 282 348 143 348 164.5 280 137 280 164 375 199	H D W1 350 159 140 350 186 150 350 218 235 555 218 235 598.5 282 260 348 143 150 348 164.5 150 280 137 150 280 164 150 375 199 195	H D W1 H1 350 159 140 344.5 350 186 150 334.5 350 186 150 334.5 555 218 235 541.5 598.5 282 260 576 348 143 150 334.5 348 164.5 150 334.5 280 137 150 265 280 164 150 265 375 199 195 360	H D W1 H1 d 350 159 140 344.5 6.5 350 186 150 334.5 6.5 555 218 235 541.5 6.5 598.5 282 260 576 10.0 348 143 150 334.5 6.5 348 164.5 150 334.5 6.5 280 137 150 265 6.5 280 164 150 265 6.5 375 199 195 360 7.0





HD5L is the drive controller dedicated for the elevator. It is convenient to be applied in the new elevator electric drive and replace inverter for old elevator.



Single / Three phase 200 ~ 240V......2.2 ~ 11kW Three phase 200 ~ 240V......15 ~ 30kW Three phase 380 ~ 460V......2.2 ~ 45kW

Technical Data

	Input voltage	Single/three phase 200~240V; Three phase 200~240V; Three phase 380~460V; Fluctuations not exceed \pm 10%, unbalanced rate <3%
Electrical data	Input frequency	50/60Hz ± 5%
	Output voltage	0~Input voltage
	Output frequency	0~100.0Hz
	Control mode	V/f control, SVC control, VC control
	Overload capability	2 minutes for 150% rated output current; 10 seconds for 180% rated output current
Performance	Velocity resolution	Digital setting: 0.01Hz; Analogue setting: 0.1% × Max. frequency
	SVC Control	Speed control accuracy: ±0.5%; Speed control range: 1:100; Torque control response: <200ms; Starting torque: 180% rated torque / 0.5Hz
	VC Control	Speed control accuracy: ±0.05%; Speed control range: 1:1000; Torque control response: <50ms; Starting torque: 200% rated torque / 0Hz
	Analog power supply	+10V, load capacity 100mA; -10V, load capacity 5mA
	Digital power supply	+24V, load capacity 200mA
	Analog input	Al1: Voltage 0~10V; Al2~Al4: (Selectable voltage/current) -10V-+10V/0~20mA; Al4 supports differential input
Input / Output	Analog output	AO1~AO2: (Selectable voltage/current) 0~10V/0~20mA
	Digital input	DI1~DI12
	Digital output	D01~D02
	Relay output	R1A/R1B/R1C R2A/R2B/R2C R3A/R3B/R3C R4A/R4B/R4C Contactor capacity: 250VAC/3A or 30VDC/1A

Product Features

Multiple programmable I/O terminal, flexible timing	Can compatiable with various elevator control systems
Starting torque automatic compensation function	Support starting torque automatic compensation of all types of encoder cards to reduce the debugging workload during retrofit
Smooth S-curve acceleration and deceleration	Optimized S-curve leads to perfect elevator riding performance
Frequency division output	Built-in even frequency division from 2, 4, 6 to 128
Built-in brake	Built-in brake unit to reduce costs and labor work

Configuration Parameter



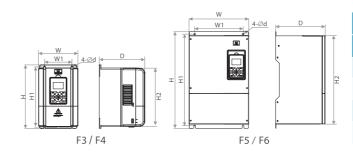


Voltage Class 2 = 200~240VAC 4 = 380~460VAC

HD5L Elevator Controller		Power Selection			Braking Resistor (recommended)				
Size	Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A	Resistor Range Ω	Suggested Resistor Ω		Asyn. Power kW
F3	HD5L-2D2P2	2.2	3.8	24.1/12(1)	10	26~130	50	1.0	1.0
F3	HD5L-2D3P7	3.7	5.9	40/19 ⁽¹⁾	17	26~90	30	1.6	1.2
F3	HD5L-2D5P5	5.5	8.5	60/28 ⁽¹⁾	25	17~27	20	2.0	1.6
F4	HD5L-2D7P5	7.5	11	75/35(1)	32	11~20	15	3.2	2.0
F5	HD5L-2D011	11	16	100/47 ⁽¹⁾	45	11~20	15	4.0	3.2
F5	HD5L-2T015	15	21	62	55	10~16	12	5.0	4.0
F5	HD5L-2T018	18.5	24	77	70	10~16	12	6.4	5.0
F6	HD5L-2T022	22	30	92	80	7~10	9	8.0	6.4
F6	HD5L-2T030	30	39	113	110	7~10	9	10.0	8.0
F3	HD5L-4T2P2	2.2	3.4	7.3	5.1	56~210	100	1.0	1.0
F3	HD5L-4T3P7	3.7	5.9	11.9	9.0	56~144	80	1.6	1.2
F3	HD5L-4T5P5	5.5	8.5	15	13	56~100	70	2.0	1.6
F3	HD5L-4T7P5	7.5	11	19	17	56~72	64	3.2	2.0
F3	HD5L-4T011	11	16	28	25	34~48	40	4.0	3.2
F4	HD5L-4T015	15	21	35	32	34~41	36	5.0	4.0
F4	HD5L-4T018	18.5	24	39	37	17~31	24	6.4	5.0
F5	HD5L-4T022	22	30	47	45	17~27	20	8.0	6.4
F5	HD5L-4T030	30	39	62	60	11~20	15	10.0	8.0
F6	HD5L-4T037	37	49	77	75	10~16	12	12.0	10.0
F6	HD5L-4T045	45	59	92	90	7~10	9	18.0	15.0

(1): Value before "/" represents rated input current in single phase power supply, and the value after "/" represents rated input current in three phase power supply.

Production and Installation Size





Matched Motor Power

HD5L - 4T 5P5 - PG2

Encoder card

PG1 = HD5L-PG1-SC PG2 = HD-PG2-OC-FD PG5 = HD-PG5-SINCOS-FD PG6 = HD-PG6-UVW-FD

Size	Production Size (mm)			duction Size (mm) Installation Size (mm)				GW
	w	н	D	W1	H1	H2	d	kg
F3	200	299	210	146	286	280	5	5.8
F4	235	353	222	167	337	330	7	8.2
F5	290	469	240	235	445	430	8	20.4
F6	380	598	290	260	576	550	10	48



HD3N-L Open-loop Elevator Controlle

HD3N-L is the drive controller dedicated for elevator. It is convenient to be applied in new elevator electric drive.



Product Features

Multiple programmable I/O terminal, flexible timing	Can compatiable with various elevator control systems
Smooth S-curve acceleration and deceleration	Optimized S-curve leads to perfect elevator riding performance
Built-in brake	Built-in brake unit to reduce costs and labor work
High-performance SVC control	Starting torque: 180% rated torque / 0.5Hz; No encoder open loop vector control

Configuration Parameter

HD3N-L

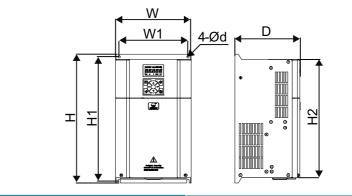
HD3N-L	Open-loop	Elevator	Controller

Model	Motor (kW)	Rated Capacity (kVA)	RatedInput Current (A)	RatedOutput Current (A)	Size
HD3N-4T7P5-L	7.5	11	19	17	Frame3
HD3N-4T011-L	11	16	28	25	Frame3
HD3N-4T015-L	15	21	35	32	Frame4
HD3N-4T018-L	18.5	24	39	37	Frame4
HD3N-4T022-L	22	30	47	45	Frame5

Technical Data

	Input voltage	Single phase 200~240V; Three phase 380~460V; Fluctuations not exceed \pm 10%, unbalanced rate <3%				
Electrical data	Input frequency	50/60Hz±5%				
Electrical data	Output voltage	0~Input voltage				
	Output frequency	0~400.0Hz				
	Control mode	V/f control, SVC control, VC control				
	Overload capability	2 minutes for 150% rated output current; 10 seconds for 180% rated output current				
Performance Velocity resolution		Digital setting: 0.01Hz; Analogue setting: 0.1% × Max. frequency				
	SVC Control	Speed control accuracy: ±0.5%; Speed control range: 1:100; Torque control response: <200ms; Starting torque: 180% rated torque / 0.5Hz				
	Analog power supply	+10V, load capacity 100mA; -10V, load capacity 5mA				
	Digital power supply	+24V, load capacity 200mA				
	Analog input	Al1: Voltage 0~10V; Al2~Al4: (Selectable voltage/current) -10V-+10V/0~20mA; Al4 supports differential input				
Input / Output Analog output		AO1~AO2: (Selectable voltage/current) 0~10V/0~20mA				
	Digital input	Di1~DI8				
	Digital output	D01~D02				
	Relay output	R1A/R1B/R1C R2A/R2B/R2C Contactor capacity: 250VAC/3A or 30VDC/1A				

Dimensions and Weight



Sizo	Dimension (mm)			Mounting Size (mm)				GW
Size	W	Н	D	W1	H1	H2	d	(kg)
Frame3	140	260	155	122	248	235	6	5.4
Frame4	180	298	175	160	284	270	6	8.3
Frame5	220	375	190	200	360	345	7	13







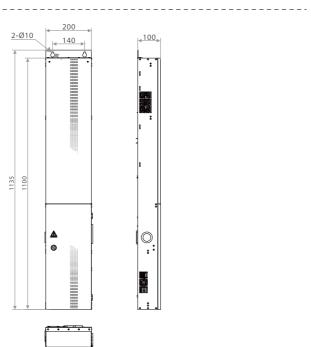
Product Features

Narrowest size	The thinnest villa control panel, 200mm maximize the space of elevator
Classical style	Classical size design of MRL control panel to meet the existing elevator system
All in one	Integrated elevator control, drive module, ARD module, IoT module

Configuration Parameter

Model	Rated Voltage	Rated current A	Rated power kW	Adaptive Motor
MTCC-V2-4T3P7	AC 380V	9	3.7	Traction motor
MTCC-V2-4T5P5	AC 380V	13	5.5	Winching motor
MTCC-V2-2D2P2	AC 220V	10.3	2.2	Traction motor
MTCC-V2-2D3P7	AC 220V	17	3.7	Winching motor

Production and Installation Size



Technical Data

MTCC Elevator Control Panel	МТСС-V2			
Max. Running Speed	1.5m/s			
Max.floor	8 floors			
Output frequency	0-100.00Hz			
Brake voltage	110VDC / 300W	24VDC / 150W		
Governor voltage	220VAC 24VDC			
Adaptive Motor	Traction motor, Winching motor			
Brake resistor	Build-out			
Installation mode	Wall-mounting type			
Selectable function	WIFI loT module; Filter			



Inspection Box on top of Car





COOL100 Home Lift Control Panel



Product Features

Thinnest size	The thinnest villa control panel, 56mm maximize the space of elevator				
"Cool" style	New generation of villa elevator control panel, Cool style leads the trend of elevator design revolution				
Safer	"Ultimate brake", ensure elevator safety; Built-in ARD module, realize auto rescue; "One-touch calling" (COOL100-CTB-B function)				
Built-in WIFI module	Incredible Wifi function, System ON / OFF button for better operation				

Technical Data

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

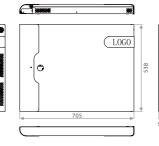
MTCC Elevator Control Panel	COOL100		
Max, Running Speed	1.5m/s		
Max.floor	8 floors		
Output frequency	0-100.00Hz		
Brake voltage	110VDC / 300W	24VDC / 150W	
Governor voltage	220VAC	24VDC	
Adaptive Motor	Traction motor, Winching motor		
Brake resistor	Built-in		
Installation mode	Wall-mounting type		
Selectable function	WIFI IoT module; Filter		

Configuration Parameter

Model	Rated Voltage	Rated current A	Rated power kW	Adaptive Motor
COOL100-4T3P7	AC 380V	9	3.7	Traction motor
COOL100-4T5P5	AC 380V	13	5.5	Winching motor
COOL100-2D2P2	AC 220V	10.3	2.2	Traction motor
COOL100-2D3P7	AC 220V	17	3.7	Winching motor

Production and Installation Size

Production Size (mm)



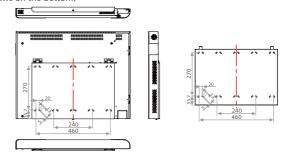
Installation Size (mm)

A. Bracket Installation:

Step 1: First fix the blue backboard to the wall;

Step 2: Install the two metal fixing brackets of the COOL100 control panel according

to the actual space; Step 3: Hang the COOL100 control panel on the fixed backboard and lock the fixing screws on the bottom.



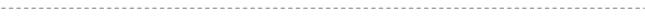


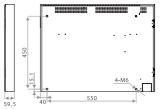
Installation diagram 1

Inspection Box on top of Car



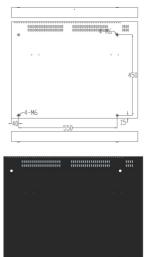






B. Control panel installation:

Use the M6 screws and nuts to directly fix the COOL100 control panel to the horizontal wall or hoistway wall according to the Installation diagram 2.



Installation diagram 2



HD2L OPEN LOOP DRIVE

IGH PERFORMANCE ELEVATOR CONTROLLER



Structure Algorithm EMI Filter	Ultra Thin Structure		New SVC Algorithm			
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Product Features

Ultra thin structure	Max. thickness only 145mm, can be installed side by side and save installation space
Large size LCD display	Blue background display, 5 segment, 5 status indicators, 5 units indication
Personalized button remark	Designed with IEC60417 and GB/T15192 standards
Built-in EMI Filter	Meet the EMI requirements of the standard IEC61800-3; Easy to disconnect, can be used for low current leakage
Intuitive product power label	Can recognize product in convenience and fast speed
Installation-wiring- operation	3 simple steps, can be used as soon as being wired
Sheet metal shell, plastic case	Reliable installation Sealed top, good protection

Technical Data

	input voltage	Three phase 380-460v; Flotation does not exceed \pm 10%, unbalanced rate <3%
Electrical	input frequency	50/60Hz±5%
data	output voltage	0~Input frequency
	output frequency	0~Output frequency
Performance	Control mode	V/F Control, SVC control
	digital input	Digital input signal, DI1-DI7 UP DN, BB, HS, SS, MS, UPS
input/output	2 Digital input	2 Digital output DO fo FLT, RR Signal
	Relay output	Relay for brake output, BRK, RC; Contactor capacity:250VCA/3A or 30VDC/1A
	Running temperature	-10~+40 C no deduction; Outout current should be 2% derated for each 1℃ over 40-50 ℃
	Storage temperature	-40~+70℃
Environmental	Application environment	Indoor, not at the direct sunlight, dust, corrosive and flammable gases, Oil, Steamer, Drops, Salt, etc.
characteristic	Altitude	No derating under 1000 meters; Derating is required for above 1000 meters
	Humidity	Less than 90% RH, no water drops
	Vibration	3.5m/s ² at 2-9Hz and 10 m/s ² at 9~200Hz(IEC60721-3-3)

Configuration Paramet

н	HD2L Elevator Controller Power Se			Power Selectio	n	Braking R	esistor (Reco	mmendation)
Size	Model	Motor Power kW	Rated Capacity kVA		Rated Output Current A	Resistor Range Ω	Resisitor Power kW	Brake Unit
F1	HD2L-4T3P7	3.7	5.9	11.9	9.0	80	1.2	Bulit-in
F1	HD2L-4T5P5	5.5	8.5	15.0	13.0	70	1.6	Bulit-in

MT73 ELEVATOR OPEN-LOOP INTEGRATED CONTROLLER



Technical Data _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

Electrical	input voltage	Single phase 200 240V;
data	input frequency	50/60Hz+5%
	Analog input	AI:Voltage -10-+10v
input/output	Digital input	X1 X24, X29
	High Voltage input	X25 X28
	Relay output	Y0 Y24 Contract capacit
	Button terminal	L1 L24
	Floor	12 FLOORS IN STANDA
Environmental characteristic	Running Spped	Max. 1m/s
	Communication Mode	Complete paraller comm
	Expansion board	MT70-IOB-A; MT70-IOB

Production and Installation Size

N	MT73 Elevator Open-loop Power Selection			Braking Resistor (Recommendation)					
Size	Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A	Resistor Range Ω	Recommended Resistor Ω	Syn. Power kW	Asyn. Power kW
FASM	MT73-2S2P2	2.2	3.8	24.1	10	26~130	50	1.0	1.0
FASM	MT73-2S3P7	3.7	5.9	40	17	26~90	30	1.6	1.2
FASM	MT73-4T3P7	3.7	5.9	11.9	9	56~144	80	1.6	1.2
FASM	MT73-4T5P5	5.5	8.5	15	13	56~100	70	2.0	1.6
FBSM	MT73-4T7P5	7.5	11	20	18	56~72	64	3.2	2.0
FBSM	MT73-4T011	11	16	29	27	34~48	40	4.0	3.2
FBSM	MT73-4T015	15	21	35	32	34~41	35	6.0	4.0





Product Features

Max.8 Floors without expansion card; Max.16 floors with expansion card
Complete paraller communication without additional accessories; 4 Build-in high voltage input and switch can be compounded by softwere
Support display board in 7 segment, BCD code and grey code; Serial communication display board is selectable







MONT20 door machine controller is integrated the door switch logic and the motor drive control. Just sending the exterbal door switch command to MONT20, it can control the door system. Apply to: Elevator door, metro door and other door system.



Product Features

MONT20 Controller

Integrated parameter, no need to adjust on site; Support syn. And asyn. Motor; Support distance control with encoder and speed **Door Machine** control with Dec. switch; Self-cooling design without fans; Pluggable interface terminal design; Built-in keypad, external keypad is also allowed

Elevator Interet of Things-APP

Software Description

Log in	Log in to the APP with account and pas
Data monitoring	Display elevator system status, elevator
Video data monitoring	Can check video data collected by the i
File information inquiry	Elevator file (elevator number, registratio
Annual elevator inspection	Elevator annual inspection information
Maintenance and repair order	Elevator maintenance and repair order i

Steps _ _ _ _ _ _ _ _

Login: The user can use the Internet of Things system account and password to complete the APP software login. If the user logs in for the first time, it needs to verify by mobile phone verification code.



1. 用户:

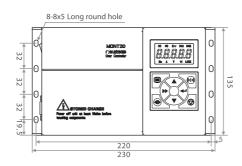
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Data monitoring: The user selects "data monitoring" on the homepage to enter the module, where the user can monitor the running status of multiple elevators in real time (running direction, current floor, etc.).



Production and Installation Size







assword

r running status, running direction, current floor, etc.

installed camera in real time

tion code, etc.), maintenance personnel (name, phone number. etc.)

display and annual inspection expiration reminder

information

After the user logs in successfully, the software enters the home page, and the user can select the desired function module to enter on the home page.



In the "Data Monitoring" module, select the elevator to enter the detailed data monitoring page of the elevator (elevator running status, total floor and historical faults, etc.).

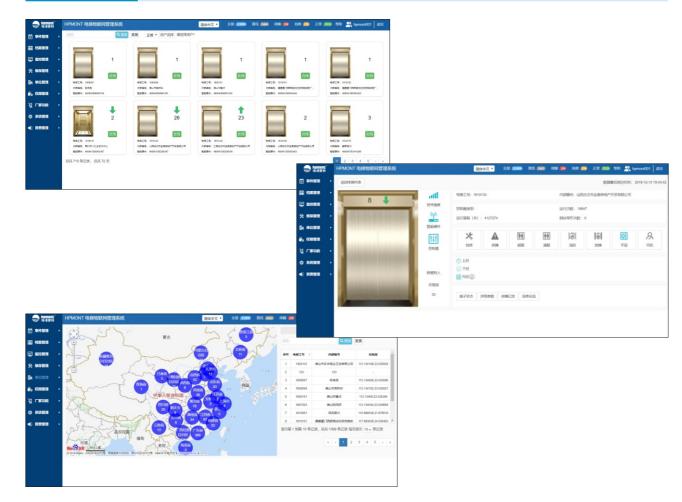
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Elevator Interet of Things-Website

Software Description

Basic data module	Including user management, role management, property information management, elevator information (maintenance information, fault information, etc.) management, camera management, etc.			
Real-time monitoring module	Collect the elevator control board data through the MT70-CIC-B communication board and return it to the server in real time to achieve real-time monitoring of elevator information on the Web side.			
Event module	After the elevator fails, it reports to the server through intelligent hardware. The server stores its current running status in the database and sends a fault message to the maintenance personnel bounded to the elevator.			
Log module	Elevator online / offline log, SMS log			
Expense management module	IoT card expiration inquiry, payment notice			





When configuring MT70-BLE-A, the product function can be realized by the mobile phone through Bluetooth, such as parameter setting, status monitoring, parameter uploading and downloading, etc.; Based on Android 4.0 or above mobile operating system.

功能参数

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Software Description

Fill in the relevant information and submit it, log
Search for Bluetooth device MT70-BLE-A, connect
APP usage permissions and password settings
Display elevator system present status, switch doc
Elevator running status, elevator car call registration
Application macro parameters of common function
Current fault, historical fault, specified fault, fault h



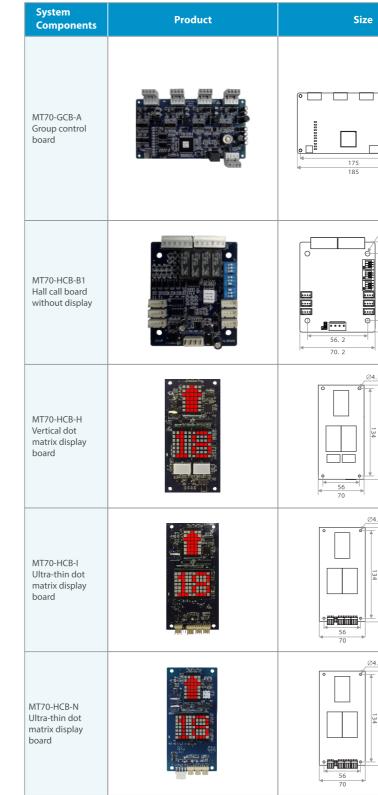
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in to the APP with account and password t mobile phone and integrated controller with Bluetooth function oor operation and fault reset operation ion and system status ion help, operation help



System Components

System Components	Product	Size	Specification
MT70-CTB-B Car top board		24.6 152 152 155 125	Using 32-bit processor; Serial communication and simple wiring make it reliable and stable; 14 digital inputs, 8 relay outputs; Support car digital / analog weighing signal input; Support LCD panel for convenient modification and viewing of system parameters; The input and output of car top board can be programmed to set the function
MT70-CCB-A Command board			Can take use of the main and vice manipulator inside the elevator's car; The input and output of 8 interfaces can be programmed to set the function; Support the driver, direct driving, fire fighting and independence waitch input; Support the full-load buzzer alarming output; Every 16 floors configuring one MT70-CCB-A can achieve the cascade, which may be extension up to 48 floors
MT70-CCB-B Command board			Can take use of the main and vice manipulator inside the elevator's car; The input and output of 8 interfaces can be programmed to set the function; Support the driver, direct driving, fire fighting and independence waitch input; Support the full-load buzzer alarming output; The MT70-CCB-B can satisfy the application of 36 floors even there is no cascade
MT70-CHM-B Voice announcement control board		134 124 124 124 124 124 124 124 12	Intelligent voice announcement, built-in two-channel speaker, high broadcast sound quality; The broadcast content is stored in the SD card, and can design and change by the user; Support the motherboard to control languages and supports user-defined voice packets; Support customization voice announcement
MT70-AOB-C UCMP (unintended car movement protection board)			Can realize car unintended movement detection; Can realize door lock short detection; Achieve re-leveling and door advanced opening function; Re-leveling sensor must be NO style; Compatible with 3 or 4 sensor signal inputs

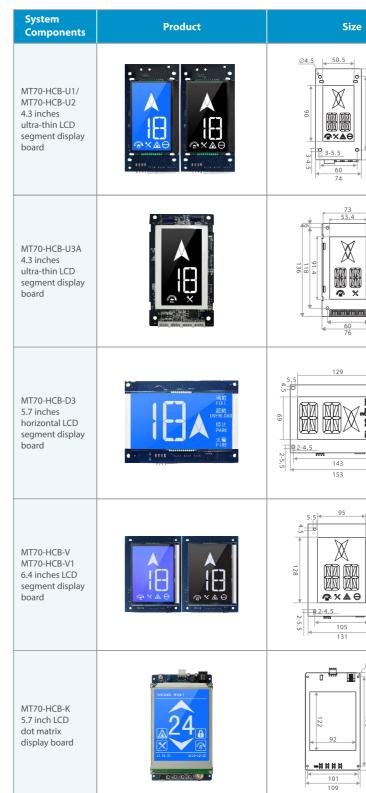




Specification
Can group control 3~8 elevators and meet various requirements; Distribute floor call signal in principle of min. time of customer waiting, increase elevator working effiency; High speed and reliable transmission is realized by CANBUS series communication; Abnormal running can be switched over automatically; Automatically recover group control functions; Equipped with LCD keypad, and host computer debugging software can be selected to achieve remote monitoring and debugging; IE card is needed to achieve Ethernet communication function. LCD display is also selectable
DC24V power supply input, Modbus communication protocol; No display type; 6 switch inputs, 4 relay outputs, 6 collector outputs; 5 functions are set by dip switch
DC24V power supply input, Modbus communication protocol; Vertical display; 3 red 5×7 dot matrixes display elevator running direction and current floor; Supports status display such as overload, full-load, stop, fault, and inspection; Support parameters modification and viewing in the car
DC24V power input, Modbus communication protocol; Vertical display; 3 red 5×7 dot matrixes display elevator running direction and present floor; Ultra-thin 10mm design for wall-mounted LOP
DC24V power input, Modbus communication protocol; Vertical display 3 red 5×7 dot matrixes display elevator running direction and present floor; Ultra-thin 10mm design for wall-mounted LOP



System Components	Product	Size	Specification
MT70-HCB-GT1 Vertical dot matrix display board for disabled persons			DC24V power supply input, MODBUS communication protocol; Vertical dot matrix display; 1 orange 5×7 dot matrixes display the elevator running direction, 1 orange 7×11 dot matrixes display the elevator present floor; Support one group of normal hall call and one group of hall call for disabled persons
MT70-HCB-F1 Horizontal dot matrix display board for disabled persons		Ø4.5 0 0 0 0 0 0 0 0 0 0 0 0 0	DC24V power supply input, MODBUS communication protocol; Horizontal dot matrix display; 1 orange 5×7 dot matrixes display the elevator running direction, 1 orange 7×11 dot matrixes display the elevator present floor; Support one group of normal hall call and one group of hall call for disabled persons; Support parameters modification and viewing in the car
MT70-HCB-F5 Dot matrix display board		25.84 29 12.64 29 29 29 20 20.08	The horizontal and vertical display can be switched by the dial switch; 1 orange 7×11 dot matrixes display the elevator running direction, 2 orange 7×11 dot matrixes display the elevator present floor; Support parameters modification and viewing in the car
MT70-HCB-KV1 Vertical dot matrix display panel	자 동 정건중 비상운전 이사중		DC24V power supply input, 1 RS485 communication; White vertical dot matrix display; Can display auto-running, inspection, rescue, moving; One 5x7 dot matrixes display direction, one 7x11 dot matrixes display floor
MT70-HCB-KH1 Horizontal dot matrix display panel	자 동 비상운전 점검중 이사중		DC24V power supply input, 1 RS485 communication; White horizontal dot matrix display; Can display auto-running, overhaul, rescue, moving; One 5x7 dot matrix display direction, two 5x7 dot matrix display floor

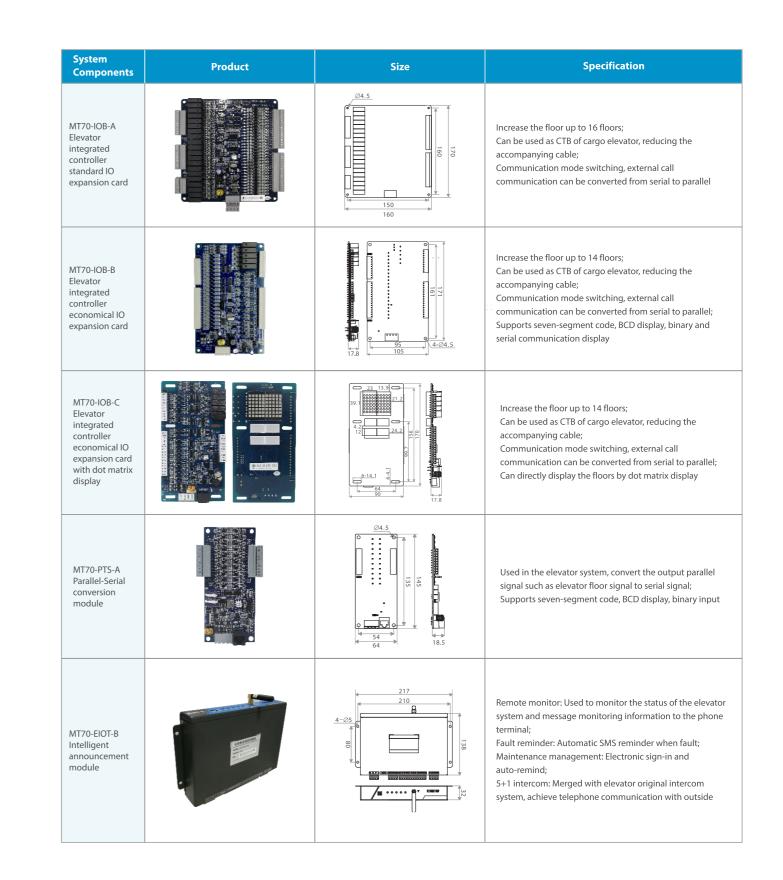




	Specification
	4.3 inches vertical LCD segment display; Ultra-thin design, vertical display; HCB-U1: white on blue, HCB-U2: white on black; Support displays such as: Full-load, inspection, fire, parking
4-004.5 16.5 86 5 6.5	4.3 inches vertical LCD segment display; Ultra-thin design, vertical display; White on black; Support displays such as: Full-load, inspection, fire, parking
	DC24V power supply input, Modbus communication protocol; 5.7 inches horizontal LCD segment display, white on blue; Can display full-load, inspection, fire, parking; Automatically enter energy saving mode during idle time
	DC24V power supply input, Modbus communication protocol; 6.4 inch vertical LCD segment display board; HCB-V: White on blue, HCB-V1: White on black; Can display full-load, inspection, fire, parking; Automatically enter energy saving mode during idle time
23.5 194 17.5	DC24V power supply input, Modbus communication protocol; 5.7 inches LCD dot matrix display, white on blue, 320×240 resolutions; Can switch the display modes by DIP switch (verticaldisplay by factory setting); Can display fire, inspection, parking, over-load, full-load etc.; Automatically enter energy saving mode during idle time; Does not support calls



System Components	Product	Size	Specification
MT70-HCB-T1A 4.3 inches TFT LCD display board			4.3 inches TFT LCD display, 480 × 272 resolutions; Horizontal and vertical display can be set; Automatically reduce the display brightness during idle time and enter the energy saving mode; Pictures can be set by users
MT70-HCB-T5A 7 inch TFT LCD image display board			7-inches TFT LCD display, 800 × 480 resolutions, call-in use; Horizontal and vertical display can be set, support a variety of display styles; Automatically reduce the display brightness during idle time and enter the energy saving mode; Can realize voice announcement, play background music, ault, fire, inspection, over-load voice prompts etc; Pictures can be set by users; Does not support calls
MT70-HCB-T5B 7 inches TFT LCD touch screen image display board			7-inches TFT LCD touch screen display, 800 × 480 resolution, call-in, support calls; Horizontal and vertical display can be set, support a variety of display styles; Automatically reduce the display brightness during idle time and enter the energy saving mode; Can realize voice announcement, play background music, fault, fire, inspection, over-load voice prompts etc; Pictures can be set by users
MT70-HCB-M5 10.1 inches TFT LCD video display board		Vertical installation 192 44.7 36 36 45.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 44.7 250 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45.7 45	10.1 inches TFT LCD display, 1280×800 resolutions; Horizontal and vertical display can be set; Can display full-load, inspection, fire, etc; Support users to design own text, LOGO, etc.; Can realize voice announcement, play background music, fault prompts etc.; Pictures and videos can be set by users; Does not support calls
MT70-HCB-M6 10.4 inches TFT LCD video display board		Vertical installation Horizental installation 192 10 + 10 10 + 10	10.4 inches TFT LCD display, 800×600 resolutions; Horizontal and vertical display can be set; Can display full-load, inspection, fire, etc.; Support users to design own text, LOGO, etc.; Can realize voice announcement, play background music, fault prompts etc.; Pictures and videos can be set by users; Does not support calls





System Components	Product	Size	Specification
MT70-CIC-B 2G loT Module			Remote monitor: The administrator can operate elevator in remote way through the platform (computer or WeChat); Elevator status monitor: When fault, information will be sent to PC, Wechat; If use M2M IoT card, the SIM count can be saved
MT70-CIC-B1-LY GPRS communication interface board module with voice function and protective shell			Remote monitor: The administrator can operate elevator in remote way through the platform (computer or WeChat); Elevator status monitor: When fault, information will be sent to PC, Wechat; Support voice call function; If use M2M IoT card, the SIM count can be saved
MT70-CIC-E WiFi communication interface module			Remote monitor: The administrator can operate elevator in remote way through the platform (computer or WeChat); Elevator status monitor: When fault, information will be sent to PC, Wechat
MT70-EIO-A Elevator integrated controller IO expansion board			Realize the trap detection and automatical rescue function of the elevator controller; When the elevator causes an elevator failure due to a peripheral circuit failure, the elevator controller determines the current fault state, confirms the fault circuit segment, and determines whether the rescue condition is met. If it is satisfied and is in a non-leveling, initiate the orresponding rescue; The rescue process is much more safer. During the rescue process, trapped people can stop the rescue at any time. Rescue can be requested with existing switch door buttons without additional addition
MT70-KCB-B2 Interface board			Realize the new national standard of door lock bypass function



	Specification
	When using the Bluetooth APP debugging software, it can should be used in corresponding, and connected to the controller through the USB interface; Cannot be used as a USB flash disk and cannot be plugged into PC; RJ45 (CN3) on MCB cannot be used with the USB interface (CN11)
22.4	Higher resolution and more comprehensive display content; The system menu can be classified according to the application; More convenient and faster debugging; Add different application macros
4 ^{16.4}	Compatible with all elevator series products