



Focus on elevator control over 30 years, the project covers over 30 countries around the world.

Fusion G5 Nidec KINETEK&Control Techniques

The Fusion G5 carries the core control technology of KINETEK & Control Techniques and is one of the most advanced elevator integrated controllers on the market today.

Nidec Kinetek provides customers with one-stop solutions based on the industry's most advanced elevator control technology design and manufacturing, whether it is a modernization or a new construction. With advanced elevator control technology, NKET has the safest, most reliable and high-performance elevator products in the industry. The product line covers machine room-less elevators, machine room elevators, hydraulic elevators and special elevators such as firefighters elevators, seismic elevators, car elevators, medical elevators, water-proof elevators, etc.

Control Techniques provides its customers with high performance, high reliability and energy efficient products. Committed to the development of industrial automation, from product development in the UK headquarters to 45 automation centers around the world, we are able to provide you with a full range of industry solutions. Control Techniques is the global leader in motion control technology.

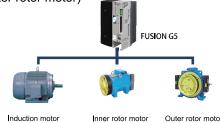
Elevator integrated control function

Maximum speed	4m/s
Maximum floor	128 Floors
Single elevator	Selective collection
Group control	6 car group control
DBD	8 car destination floor control
EN81-20	Supported
Encoder supported	SIN/COS & EnData & ABZUVW & ABZ



Work with all types of motors

- Work with both induction motor and synchronous motor (inner rotor motor/outer rotor motor) with high-performance current vector control.
- Large capacity range from 2.2 to 160 kW can be used for various elevator applications.



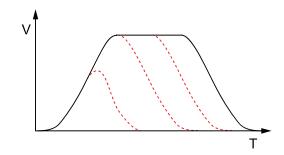
Safe and reliable

- Meet the EN81-20 standard:
 UCMP, door lock short detection, door bypass function, pit inspection function
- Car position deviation monitoring During the operation of the elevator, the controller records the encoder pulse count value while passing the door zone and compares it with the learned values to monitor the wire rope slip in real time.
- SIL2 (output current detection)Reduce input contactor

Products you can rely on

Comfortable ride

- Generate elevator S curve in real time based on learned shaft data and the S curve parameters
- Based on the distance of travel, ensure the comfort of the elevator and the precise leveling, Fusion G5offer both performance and ride comfort at the same time.
- Safe, fast and smooth
- No torque ripple output
- ARB anti-rollback function
- Feedforward control



Simple setting

- Commissioning Wizard: fast, easy to use, effective The commissioning wizard mode is rich in experience of elevator commissioning engineers. On-site installers or commissioning engineers only need to follow the instructions of the commissioning wizard to gradually complete the elevator commissioning work, and get the desired results.
- Online motor auto-tune
- Factory default parameters can cover more than 90% of elevator configuration applications



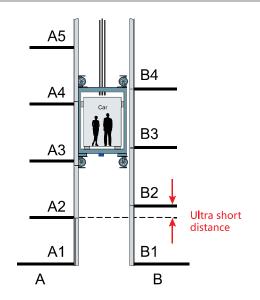
Designation Based Dispatching(DBD)

- High efficiency and less impact on passengers
- Group the passenger's based on their destination floor to reduce the number of floor stops for optimal efficiency.



Ultra short distance operation

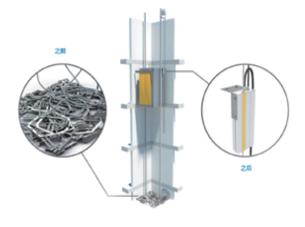
- It can realize ultra-short floor operation, especially for front and rear door elevators, 2 buildings sharing 1 elevator, occasions with different floor heights, or partial use of special inter-floor.
- Based on the principle of distance, ensure the comfort of the elevator and the precise leveling.
- Accurate stopping is possible even when there are many different floor heights.
- The S curve is automatically generated by the FUSION G5 control system, eliminating the need for cumbersome commissioning settings.



Shaft absolute position positioning system (optional)

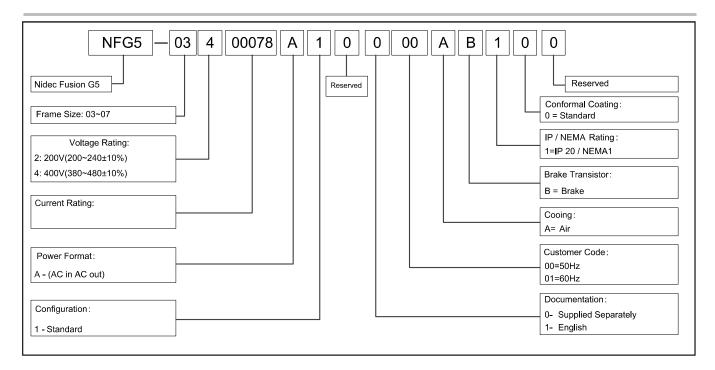
- Integrated with control system for error-proof floor position protection
- Eliminate the need for leveling boards, leveling switches, terminal slowdown limit switches, normal limit switches, etc. from the original hoistway system
- Absolute position and speed detection for real-time information
- Combined with control system to detect door lock shorted

Integrated function	Security Level	
Pre-opening function	SIL3	
Re-leveling with door open function	SIL3	
Unintended Car Movement Protection (UCMP)	SIL3	
Overspeed protection	SIL3	
ETSL reduction stroke function	SIL3	

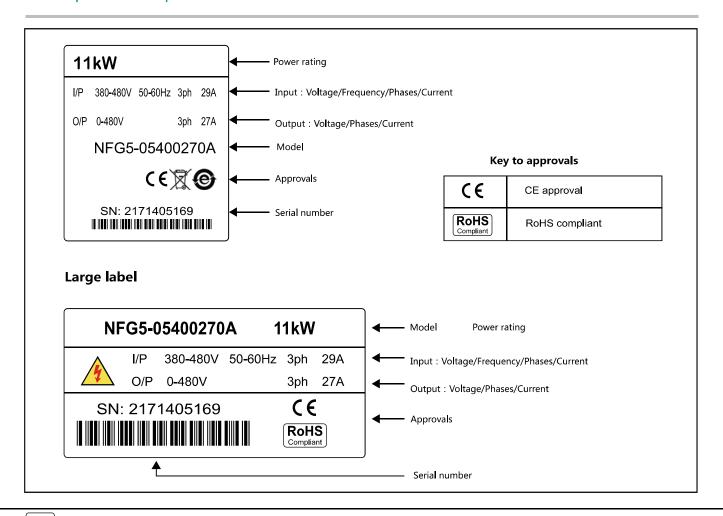


Specification

Model Descriptionh



Nameplate description

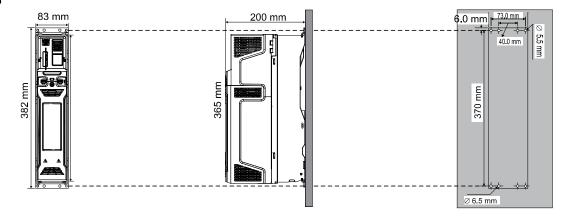


Specifications of each model

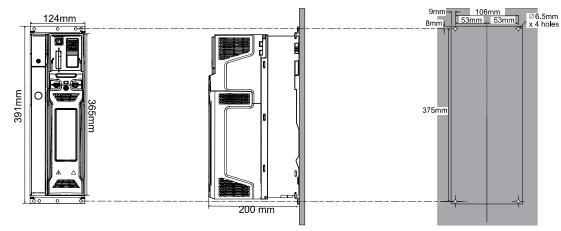
Voltage level	product code	Maximum input current	(A) Output current	(kW) Adapter motor power	Brake unit	Appearance size Size	
	NFG5-03200106A10200AB110	20	10.6	2.2		3	
	NFG5-04200137A10200AB110	20	13.7	3	,	4	
	NFG5-04200185A10200AB110	28	18.5	4		4	
	NFG5-05200250A10200AB110	31	25	5.5		5	
	NFG5-06200330A10200AB110	48	33	7.5		6	
200V	NFG5-06200440A10200AB110	56	44	11	Bui l t in		
drive ratings	NFG5-07200610A10200AB110	67	61	15			
200 V to 240 V ± 10 %	NFG5-07200750A10200AB110	84	75	18.5		7	
	NFG5-07200830A10200AB110	105	83	22			
	NFG5-08201160A10200AB110	137	116	30		0	
	NFG5-08201320A10200AB110	166	132	37		8	
	NFG5-09201760A10200AB110	205	176	45		0	
	NFG5-09202190A10200AB110	260	219	55		9	
	NFG5-10202830A10200AB110	305	283	75		10	
	NFG5-10203000A10200AB110	361	300	90		10	
	NFG5-03400062A10200AB110	13	6.2	2.2			
	NFG5-03400078A10200AB110	13	7.8	3	Bui l t in	3	
	NFG5-03400100A10200AB110	16	10	4			
	NFG5-04400150A10200AB110	19	15	5.5			
	NFG5-04400172A10200AB110	24	17.2	7.5		4	
	NFG5-05400270A10200AB110	29	27	11		5	
	NFG5-05400300A10200AB110	30	30	13			
400 V	NFG5-06400350A10200AB110	36	35	15			
drive ratings 380 V to 480 V	NFG5-06400420A10200AB110	46	42	18.5		6	
±10 %	NFG5-06400470A10200AB110	60	47	22			
	NFG5-07400660A10200AB110	74	66	30			
	NFG5-07400770A10200AB110	88	77	37		7	
	NFG5-07401000A10200AB110	105	100	45			
	NFG5-08401340A10200AB110	155	134	55			
	NFG5-08401570A10200AB110	177	157	75		8	
	NFG5-09402000A10200AB110	232	200	90			
	NFG5-09402240A10200AB110	267	220	110	9		
	NFG5-10402700A10200AB110	332	270	132		40	
	NFG5-10403200A10200AB110	397	310	160		10	

Physical Dimensions

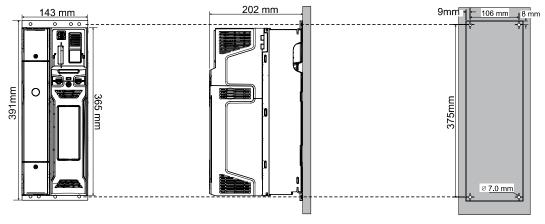
Size 3



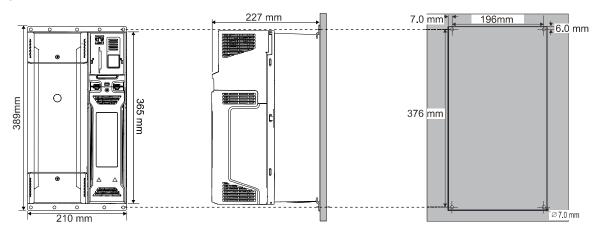
Size 4

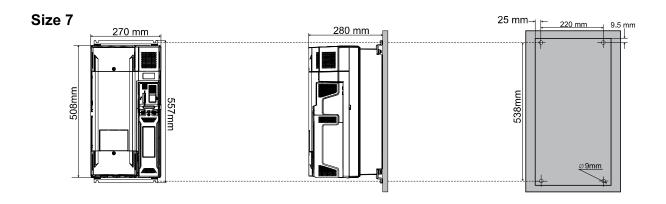


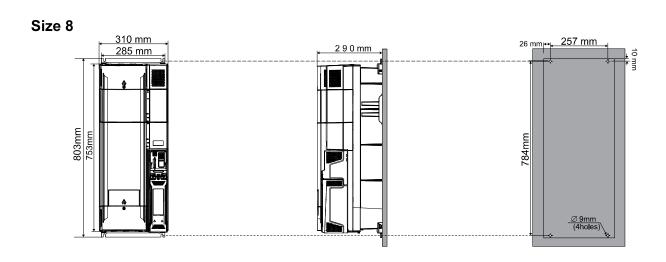
Size 5



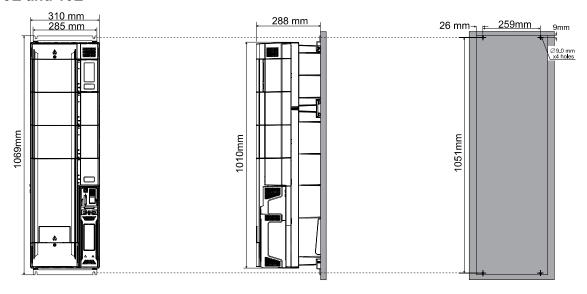
Size 6







Size 9E and 10E



Other Components. Options

Specifications / Model		Description
Integrated control cabinet terminal board K-MC5000B		 Control cabinet internal wirings Elevator shaft cable connections Machine room wirings
Cartop control board K-CT1000		 Control and monitor elevator front and rear door control systems Real-time monitoring of the car's weighing switch signal Intelligent control car lighting & fan system Intercom, emergency power interface
COP control board K-CC1000		 Collecting the car call Collect car operating panel control signals Intercom, emergency power interface
Car call expansion board K-CI1000		 Extended car call command. Can expand 8 car call signals Use with the instruction expansion board connection cable
Multimedia display board K-06T	Nidel viscos 1420	 7-inch multimedia color display Horizontal or vertical display mode SD card online update picture
COP&LOP board K-03T	PB	 Ultra-thin outbound controller 4.3 inch true color display Horizontal or vertical display mode

Other Components. Options

Specifications / Model	Description		
COP&LOP Board K-PI1000	 ◆ Ultra-thin hall call board ◆ Dot matrix display ◆ Hall call & display control function 		
COP&LOP Board K-03D	 ✦ Horizontal hall call board ✦ Hall call & display control function 		
Voice annunciation Board MC-VAB	 ◆ Compatible with MP3, WAV multi-format audio ◆ Background music playback 		
Elevator Releveling Board K-SF1000	 ◆ Elevator re-leveling & pre-opening function. ◆ UCMP function. 		
Handheld operator K-OP1002	 ◆ Control system adjustments ◆ Elevator parameter monitoring ◆ Digital display operation interface 		
Operator connection cable USB2.0-USB2.0 1.5m	◆ Connect the handheld operator to the controller communication cable ◆ Standard configuration length 1.5m		
Car top and car connection cable DB25M-DB25F 3m	 ◆ Car top controller and car controller connection cable ◆ Select the connection cable as required 		