

FC155e Elevator Supplementary explanation[V0.0]

FC155e Inverter is based on the FC155 general inverter developed elevator dedicated inverter, can be used for construction lifts, simple passenger ladder, lifting equipment, machinery and other applications.

1.function list

Function Code	Name	Setting Range	Factory default	Attributes
F0 - Basic parameter group				
F0-10	Main frequency source X selection	0: Digital setting UP, DOWN adjustment (Power is not memory) 1: Digital setting UP, DOWN adjustment (Power-down memory) 2: AI1 3: AI2 4: AI3 6: multi-speed 7: PLC 8: PID 9: communication given 10: keyboard potentiometer	6	★
F0-18	Acceleration and deceleration mode	0 - linear acceleration and deceleration 1-S curve mode	1	☆
F0-20	Acceleration time 1	0.01s~65000s	4.0s	☆
F0-21	Deceleration time 1	0.01s~65000s	3.0s	☆
F0-22	Acceleration time 2	0.01s~65000s	4.0s	☆
F0-23	Deceleration time 2	0.01s~65000s	3.0s	☆
F0-24	Acceleration time 3	0.01s~65000s	4.0s	☆
F0-25	Deceleration time 3	0.01s~65000s	3.0s	☆
F0-26	Acceleration time 4	0.01s~65000s	4.0s	☆
F0-27	Deceleration time 4	0.01s~65000s	3.0s	☆
F1 - start and stop function				
F1-11	Shutdown DC braking time / enable	0.00s~100.00s	0.00s	☆

Function Code	Name	Setting Range	Factory default	Attributes
F1-19	Start pre-excitation current	0%~100%	50%	☆
F1-19	Start pre-excitation time	0.00s~100.00s	0.10s	☆
F2-DI parameters				
F2-00	DI1 function selection	0: no function 1: Forward run FWD or run command 2: Reverse run REV or forward and reverse run direction 3: three-wire operation control 4: forward jog (FJOG) 5: reverse jog (RJOG) 6: Multi-step command terminal 1 7: Multi-step command terminal 2 8: Multi-step command terminal 3 9: Multi-step command terminal 4 10: Terminal UP 11: Terminal DOWN 12: UP / DOWN setting is cleared	1	★
F2-01	DI2 function selection	13: Acceleration/deceleration time selection terminal 1 14: Acceleration/ deceleration time selection terminal 2	2	★
F2-02	DI3 function selection	15: Frequency source switching 16: Frequency source X and preset frequency switching 17: Frequency source Y and preset frequency switching	6	★
F2-03	DI4 function selection	18: Run command to switch the terminal 19: control command to	7	★

Function Code	Name	Setting Range	Factory default	Attributes
F2-04	DI5 function selection	switch terminal 2 20: speed / torque control switching 21: Torque control disabled 22: PID pause	51	★
F2-05	DI6 function selection	23:PID integral is suspended 24: PID direction is reversed 25: PID parameter switch 26: PLC status reset 27: Wobble suspended 28: Counter input	50	★
F2-06	DI7 function selection	29: Counter reset 30: Length count input 31: Length reset 32: pulse frequency input (HDI only) 33: Frequency modification enabled 34:Acceleration/ deceleration is prohibited 35,36 reserved 37: Fault reset (RESET) 38: External fault normally open input 39: External fault normally closed input 40: user defined fault 1 41: user defined fault 2 42: run pause 43: free parking 44: Emergency stop 45: External parking terminal 1 46: External parking terminal 2 47: Deceleration of DC braking 48: Immediate DC braking 49: This run time is cleared 50: Emergency signal input 51: Maintenance signal input 52: Base Block	44	★

Function Code	Name	Setting Range	Factory default	Attributes
F4-DO parameters				
F4-01	FMR function selection	0: No output 1: Drive READY signal 2: The inverter is running 3: fault output (free stop fault) 4: fault output (free stop fault)	3	☆
F4-02	Relay 1 function selection	4: fault output (free stop fault, but undervoltage is not output) 5: Wobble limit 6: torque limit 7: upper limit frequency arrival 8: Lower frequency arrival (operation related)	39	☆
F4-02	Relay 2 (extended) function selection	9: lower limit frequency arrival (shutdown also output) 17: Frequency level detection FDT1 output	40	☆
F4-03	DO1 function selection	18: Frequency level detection FDT2 output 19: Frequency arrives 20: Frequency 1 reaches the output 21: Frequency 2 reaches the output 11: Zero speed running (no output at shutdown) 12: Zero speed running 2 (also output when stopped) 10: reverse run 13: Set the count value to arrive 14: Specify the count value to arrive 15: length to reach 16: PLC cycle is complete 22: current 1 reaches the output 23: current 2 reaches	41	☆

Function Code	Name	Setting Range	Factory default	Attributes
		output 24: module temperature arrives 25: Timing arrival output 26: zero current state 27: Output current is exceeded 28: Undervoltage status output 29: Inverter overload pre-alarm 30: Motor overtemperature warning 31: Motor overload pre-alarm 32: out of stock 33: AI1> AI2 34: AI1 input is overrun 35: Alarm output (all faults) 36: This run time arrives 37: The total power-up time arrives 38: The cumulative run time arrives 39: brake output 40: Run contactor output 41: Emergency signal time arrives		
FC - multi-step speed parameters				
FC-36	Paragraph 0 refers to the acceleration time	0.01s~65000s	4.0s	☆
FC-37	Paragraph 0 deceleration time	0.01s~65000s	3.0s	☆
FC-38	Paragraph 1 refers to the acceleration time	0.01s~65000s	4.0s	☆
FC-39	Paragraph 1 deceleration time	0.01s~65000s	3.0s	☆
FC-40	Paragraph 2 refers	0.01s~65000s	4.0s	☆

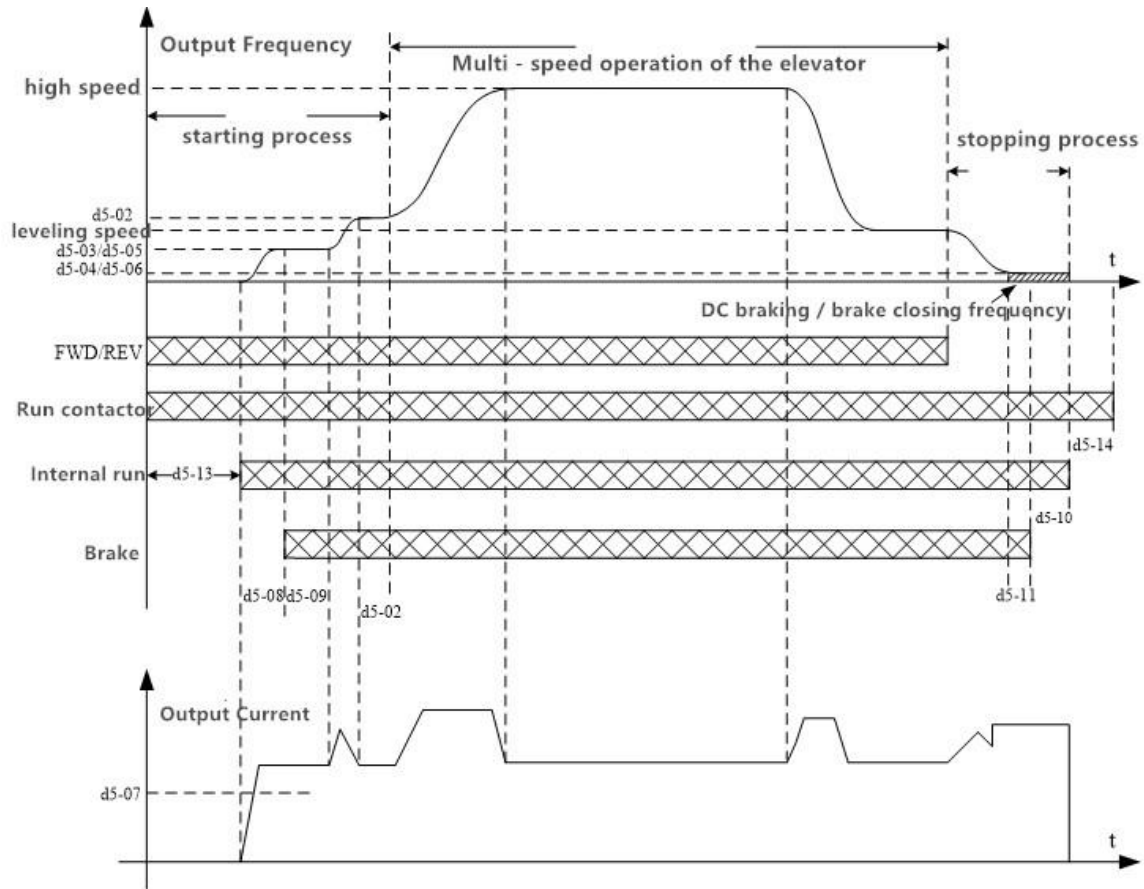
Function Code	Name	Setting Range	Factory default	Attributes
	to the acceleration time			
FC-41	Paragraph 2 deceleration time	0.01s~65000s	3.0s	☆
FC-42	Paragraph 3 refers to the acceleration time	0.01s~65000s	4.0s	☆
FC-43	Paragraph 3 deceleration time	0.01s~65000s	3.0s	☆
FC-44	Paragraph 4 refers to the acceleration time	0.01s~65000s	4.0s	☆
FC-45	Paragraph 4 deceleration time	0.01s~65000s	3.0s	☆
FC-46	Paragraph 5 refers to the acceleration time	0.01s~65000s	4.0s	☆

FC-47	Paragraph 5 deceleration time	0.01s~65000s	3.0s	☆
FC-48	Paragraph 6 refers to the acceleration time	0.01s~65000s	4.0s	☆
FC-49	Paragraph 6 deceleration time	0.01s~65000s	3.0s	☆
FC-50	Paragraph 7 refers to the acceleration time	0.01s~65000s	4.0s	☆
FC-51	Paragraph 7 deceleration time	0.01s~65000s	3.0s	☆
FC-52	Paragraph 8 refers to the acceleration time	0.01s~65000s	4.0s	☆
FC-53	Paragraph 8 deceleration time	0.01s~65000s	3.0s	☆
FC-54	Paragraph 9 refers to the acceleration time	0.01s~65000s	4.0s	☆
FC-55	Paragraph 9 deceleration time	0.01s~65000s	3.0s	☆

FC-56	Paragraph 10 refers to the acceleration time	0.01s~65000s	4.0s	☆
FC-57	Paragraph 10 deceleration time	0.01s~65000s	3.0s	☆
FC-58	Paragraph 11 refers to the acceleration time	0.01s~65000s	4.0s	☆
FC-59	Paragraph 11 deceleration time	0.01s~65000s	3.0s	☆
FC-60	Paragraph 12 refers to the acceleration time	0.01s~65000s	4.0s	☆
FC-61	Paragraph 12 deceleration time	0.01s~65000s	3.0s	☆
FC-62	Paragraph 13 refers to the acceleration time	0.01s~65000s	4.0s	☆
FC-63	Paragraph 13 deceleration time	0.01s~65000s	3.0s	☆
FC-64	Paragraph 14 refers to the acceleration time	0.01s~65000s	4.0s	☆
FC-65	Paragraph 14 deceleration time	0.01s~65000s	3.0s	☆
FC-66	Paragraph 15 refers to the acceleration time	0.01s~65000s	4.0s	☆
FC-67	Paragraph 15 deceleration time	0.01s~65000s	3.0s	☆
D5 - elevator dedicated parameters				
d5-00	Elevator special function selection	0: general machine; 1: elevator dedicated	1	★
d5-01	Start low speed crawling frequency	0.00~10.00Hz	5.00Hz	☆
d5-02	Start low-speed crawling time	0.00~10.00s	0.0s	☆
d5-03	Brake release frequency (rising)	0.00~10.00Hz	1.00Hz	☆
d5-04	Brake closing frequency (rising)	0.00~10.00Hz	0.20Hz	☆

d5-05	Brake release frequency (drop)	0.00~10.00Hz	1.00Hz	☆
d5-06	Brake closing frequency (drop)	0.00~10.00Hz	0.20Hz	☆
d5-07	Brake release current	0.0~100.0%	40.0%	☆
d5-08	Brake release delay	0.00~10.00s	0.0s	☆
d5-09	Hold the brake release frequency hold time	0.00~10.00s	0.30s	☆
d5-10	Hold the closing frequency of the holding time	0.00~10.00s	0.50s	☆
d5-11	Brake closing frequency delay time	0.00~10.00s	0.30s	☆
d5-12	Brake release type	0: open according to frequency; 1: Open according to frequency and current	0	★
d5-13	Run contactor closure delay	0.00~10.00s	0.20s	☆
d5-14	Run contactor disconnect delay	0.00~10.00s	0.10s	☆
d5-15	Emergency signal processing	0: elevator does not run; 1: UPS power supply operation	0	★
d5-16	Emergency signal valid time	0.0~500.0s	10.0s	☆
d5-17	Emergency signal invalid time	0.0~1000.0s	180.0s	☆
d5-18	Emergency operation frequency	0.00~50.00Hz	8.00Hz	☆
d5-19	Overhaul operating frequency	0.00~50.00Hz	8.00Hz	☆

2. Detailed description:



Elevator operation logic diagram