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Monarch



User Guide

NICE1000^{new} Series

Integrated Elevator Controller

User Guide

INOVANCE

B02
Data code 19010227

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Chapter 6 Function Code Table

6.1 Function Code Description

1. There are a total of 17 function code groups, each of which includes several function codes. The function codes adopt the three-level menu. The function code group number is Level-I menu; the function code number is Level-II menu; the function code setting is Level-III menu.
2. The meaning of each column in the function code table is as follows:

Function Code	Indicates the function code number.
Parameter Name	Indicates the parameter name of the function code.
Setting Range	Indicates the setting range of the parameter.
Default	Indicates the default setting of the parameter at factory.
Unit	Indicates the measurement unit of the parameter.
Property	Indicates whether the parameter can be modified (including the modification conditions)

The modification property of the parameters includes three types, described as follows:

" ☆ ": The parameter can be modified when the controller is in either stop or running state.

" ★ ": The parameter cannot be modified when the controller is in the running state.

" ● ": The parameter is the actually measured value and cannot be modified.

The system automatically restricts the modification property of all parameters to prevent mal-function.

6.2 Function Code Groups

On the operation panel, press PRG and then △ or ▽, and you can view the function code groups. The function code groups are classified as follows:

F0	Basic parameters	F9	Time parameters
F1	Motor parameters	FA	Keypad setting parameters
F2	Vector control parameters	Fb	Door function parameters
F3	Running control parameters	FC	Protection function parameters
F4	Floor parameters	Fd	Communication parameters
F5	Input terminal parameters	FE	Elevator function parameters

F6	Basic elevator parameters	FF	Factory parameters
F7	Output terminal parameters	FP	User parameters
F8	Enhanced function parameters	Fr	Leveling adjustment parameters

6.3 Function Code Table

Function Code	Parameter Name	Setting Range	Default	Unit	Property
Group F0: Basic Parameters					
F0-00	Control mode	0: Sensorless vector control (SVC) 1: Closed-loop vector control (CLVC) 2: Voltage/Frequency (V/F) control	1	-	★
F0-01	Command source selection	0: Operation panel control 1: Distance control	1	-	★
F0-02	Running speed under operation panel control	0.050 to F0-04	0.050	m/s	☆
F0-03	Maximum running speed	0.250 to F0-04	0.480	m/s	★
F0-04	Rated elevator speed	0.200–1.750	0.500	m/s	★
F0-05	Maximum frequency	F1-04 to 99.00	50.00	Hz	★
F0-06	Carrier frequency	0.5–16.0	6.0	kHz	★
Group F1: Motor Parameters					
F1-00	Encoder type	0: SIN/COS encoder, absolute encoder 1: UVW encoder 2: AB incremental encoder (for asynchronous motor)	0	-	★
F1-01	Rated motor power	0.7–75.0	Model dependent	kW	★
F1-02	Rated motor voltage	0–440	Model dependent	V	★
F1-03	Rated motor current	0.00–655.00	Model dependent	A	★
F1-04	Rated motor frequency	0.00–99.00	Model dependent	Hz	★
F1-05	Rated motor rotational speed	0–3000	Model dependent	RPM	★
F1-06	Encoder initial angle (synchronous motor)	0.0–359.9	0	Degree (°)	★

Function Code	Parameter Name	Setting Range	Default	Unit	Property
F1-07	Encoder angle at power-off (synchronous motor)	0.0–359.9	0	Degree (°)	★
F1-08	Synchronous motor wiring mode	0–15	0	-	★
F1-09	Current filter time (synchronous motor)	0–3	0	-	★
F1-10	Encoder verification selection	0–65535	0	-	★
F1-11	Auto-tuning mode	0: No operation 1: With-load auto-tuning 2: No-load auto-tuning 3: Shaft auto-tuning 1 4: Shaft auto-tuning 2	0	-	★
F1-12	Encoder pulses per revolution	0–10000	1024	PPR	★
F1-13	Encoder wire-breaking detection time	0–10.0 (Detection disabled when value smaller than 0.5s)	1.0	s	★
F1-14	Stator resistance (asynchronous motor)	0.000–30.000	Model dependent	Ω	★
F1-15	Rotor resistance (asynchronous motor)	0.000–30.000	Model dependent	Ω	★
F1-16	Leakage inductance (asynchronous motor)	0.00–300.00	Model dependent	mH	★
F1-17	Mutual inductance (asynchronous motor)	0.1–3000.0	Model dependent	mH	★
F1-18	Magnetizing current (asynchronous motor)	0.01–300.00	Model dependent	A	★
F1-19	Shaft Q inductance (torque)	0.00–650.00	3.00	mH	★
F1-20	Shaft D inductance (excitation)	0.00–650.00	3.00	mH	★
F1-21	Back EMF	0–65535	0	-	★
F1-25	Motor type	0: Asynchronous motor 1: Synchronous motor	1	-	★

Function Code	Parameter Name	Setting Range	Default	Unit	Property
Group F2: Vector Control Parameters					
F2-00	Speed loop proportional gain KP1	0–100	40	-	★
F2-01	Speed loop integral time TI1	0.01–10.00	0.60	s	★
F2-02	Switchover frequency 1	0.00 to F2-05	2.00	Hz	★
F2-03	Speed loop proportional gain KP2	0–100	35	-	★
F2-04	Speed loop integral time TI2	0.01–10.00	0.80	s	★
F2-05	Switchover frequency 2	F2-02 to F0-05	5.00	Hz	★
F2-06	Current loop KP1 (torque)	10–500	60	%	★
F2-07	Current loop KI1 (torque)	10–500	30	%	★
F2-08	Torque upper limit	0.0–200.0	150.0	%	★
F2-10	Elevator running direction	0: Direction unchanged 1: Direction reversed	0	-	★
F2-11	Zero servo current coefficient	0.20–50.0	15	%	★
F2-12	Zero servo speed loop KP	0.00–2.00	0.5	-	★
F2-13	Zero servo speed loop KI	0.00–2.00	0.6	-	★
F2-16	Torque acceleration time	1–500	1	ms	★
F2-17	Torque deceleration time	1–500	350	ms	★
F2-18	Startup acceleration time	0.000–1.500	0.000	s	★
Group F3: Running Control Parameter					
F3-00	Startup speed	0.000–0.030	0.000	m/s	★
F3-01	Startup holding time	0.000–0.500	0.000	s	★
F3-02	Acceleration rate	0.200–0.800	0.300	m/s^2	★
F3-03	Acceleration start jerk time	0.300–4.000	2.500	s	★
F3-04	Acceleration end jerk time	0.300–4.000	2.500	s	★

Function Code	Parameter Name	Setting Range	Default	Unit	Property
F3-05	Deceleration rate	0.200–0.800	0.300	m/s^2	★
F3-06	Deceleration end jerk time	0.300–4.000	2.500	s	★
F3-07	Deceleration start jerk time	0.300–4.000	2.500	s	★
F3-08	Special deceleration rate	0.200–2.000	0.500	m/s^2	★
F3-09	Pre-deceleration distance	0–90.0	0.0	mm	★
F3-10	Re-leveling speed	0.000–0.080	0.040	m/s	★
F3-11	Inspection speed	0.100–0.500	0.250	m/s	★
F3-12	Position of up slow-down	0.000–300.00	0.00	m	★
F3-13	Position of down slow-down	0.000–300.00	0.00	m	★
F3-14	Zero-speed control time at startup	0.000–1.000	0.200	s	★
F3-15	Brake release delay	0.000–2.000	0.600	s	★
F3-16	Zero-speed control time at end	0.000–1.000	0.300	s	★
F3-17	Low-speed re-leveling speed	0.080 to F3-11	0.100	m/s	★
F3-18	Acceleration rate at emergency evacuation	0.100–1.300	0.300	m/s^2	★
Group F4: Floor Parameters					
F4-00	Leveling adjustment	0–60	30	mm	★
F4-01	Current floor	F6-01 to F6-00	1	-	★
F4-02	High byte of current floor position	0–65535	1	Pulses	●
F4-03	Low byte of current floor position	0–65535	34464	Pulses	●
F4-04	Length 1 of leveling plate	0–65535	0	Pulses	★
F4-05	Length 2 of leveling plate	0–65535	0	Pulses	★
F4-06	High byte of floor height 1	0–65535	0	Pulses	★
F4-07	Low byte of floor height 1	0–65535	0	Pulses	★
F4-08	High byte of floor height 2	0–65535	0	Pulses	★

Function Code	Parameter Name	Setting Range	Default	Unit	Property
F4-09	Low byte of floor height 2	0–65535	0	Pulses	★
F4-10	High byte of floor height 3	0–65535	0	Pulses	★
F4-11	Low byte of floor height 3	0–65535	0	Pulses	★
F4-12	High byte of floor height 4	0–65535	0	Pulses	★
F4-13	Low byte of floor height 4	0–65535	0	Pulses	★
F4-14	High byte of floor height 5	0–65535	0	Pulses	★
F4-15	Low byte of floor height 5	0–65535	0	Pulses	★
F4-16	High byte of floor height 6	0–65535	0	Pulses	★
F4-17	Low byte of floor height 6	0–65535	0	Pulses	★
F4-18	High byte of floor height 7	0–65535	0	Pulses	★
F4-19	Low byte of floor height 7	0–65535	0	Pulses	★
F4-20	High byte of floor height 8	0–65535	0	Pulses	★
F4-21	Low byte of floor height 8	0–65535	0	Pulses	★
F4-22	High byte of floor height 9	0–65535	0	Pulses	★
F4-23	Low byte of floor height 9	0–65535	0	Pulses	★
F4-24	High byte of floor height 10	0–65535	0	Pulses	★
F4-25	Low byte of floor height 10	0–65535	0	Pulses	★
F4-26	High byte of floor height 11	0–65535	0	Pulses	★
F4-27	Low byte of floor height 11	0–65535	0	Pulses	★
F4-28	High byte of floor height 12	0–65535	0	Pulses	★
F4-29	Low byte of floor height 12	0–65535	0	Pulses	★

Function Code	Parameter Name	Setting Range	Default	Unit	Property
F4-30	High byte of floor height 13	0–65535	0	Pulses	★
F4-31	Low byte of floor height 13	0–65535	0	Pulses	★
F4-32	High byte of floor height 14	0–65535	0	Pulses	★
F4-33	Low byte of floor height 14	0–65535	0	Pulses	★
F4-34	High byte of floor height 15	0–65535	0	Pulses	★
F4-35	Low byte of floor height 15	0–65535	0	Pulses	★
Group F5: Input Terminal Parameters					
F5-00	Attendant/Automatic switchover time	3–200	3	s	★
F5-01	X1 function selection	1–99: NO input, 101–199: NC input 00: Invalid 01: Leveling 1 signal 02: Leveling 2 signal 03: Door zone signal 04: RUN contactor feedback signal 05: Brake travel switch feedback signal 1 06: Brake travel switch feedback signal 1 07: Shorting PMSM stator contactor feedback signal 08: Shorting door lock circuit contactor feedback 09: Inspection signal 10: Inspection up signal 11: Inspection down signal 12: First fire emergency signal (To be continued)	03	-	★
F5-02	X2 function selection		104	-	★
F5-03	X3 function selection		105	-	★
F5-04	X4 function selection		109	-	★
F5-05	X5 function selection		10	-	★
F5-06	X6 function selection		11	-	★

Function Code	Parameter Name	Setting Range	Default	Unit	Property
F5-07	X7 function selection	13: Reserved 14: Elevator lock signal 15: Up limit signal 16: Down limit signal 17: Up slow-down signal 18: Down slow-down signal 19: Overload signal 20: Full-load signal 21: Emergency stop (safety feedback) signal 22: Door 1 open limit signal 23: Door 2 open limit signal 24: Door 1 close limit signal 25: Door 2 close limit signal 26: Door machine 1 light curtain signal 27: Door machine 2 light curtain signal 28: Attendant signal 29: Direct travel ride signal 30: Direction change signal 31: Independent running signal 31: Door 2 selection signal 33: UPS valid signal 34: Door open button 35: Door close button 36: Safety circuit 37: Door lock circuit 1 38: Door lock circuit 2 39: Half-load signal 40: Motor overheat signal 41: Door machine 1 safety edge signal 42: Door machine 2 safety edge signal 43: Earthquake signal 44: Back door forbidden signal (To be continued)	12	-	★
F5-08	X8 function selection		14	-	★
F5-09	X9 function selection		115	-	★
F5-10	X10 function selection		116	-	★
F5-11	X11 function selection		117	-	★
F5-12	X12 function selection		118	-	★
F5-13	X13 function selection		119	-	★
F5-14	X14 function selection		22	-	★
F5-15	X15 function selection		126	-	★
F5-16	X16 function selection		28	-	★
F5-17	X17 function selection		30	-	★
F5-18	X18 function selection		124	-	★
F5-19	X19 function selection		00	-	★
F5-20	X20 function selection		00	-	★

Function Code	Parameter Name	Setting Range	Default	Unit	Property
F5-21	X21 function selection	45: Light-load signal 46: Single/Double door selection 47: Fire emergency floor switchover signal 48: Virtual floor input 49: Firefighter switch signal 50: Brake travel switch feedback signal 1 51–99: Reserved (End)	00	-	★
F5-22	X22 function selection		00	-	★
F5-23	X23 function selection		00	-	★
F5-24	X24 function selection		00	-	★
F5-25	X25 higher-voltage input function selection	00–99	01	-	★
F5-26	X26 higher-voltage input function selection		02	-	★
F5-27	X27 higher-voltage input function selection		03	-	★
F5-28	Terminal state display 1	-	-	-	●
F5-29	Terminal state display 2	-	-	-	●
F5-30	Floor I/O terminal state display 1	-	-	-	●
F5-31	Floor I/O button state display 2	-	-	-	●
Group F6: Basic Elevator Parameters					
F6-00	Top floor of the elevator	F6-01 to 16	5	-	★
F6-01	Bottom floor of the elevator	1 to F6-00	1	-	★
F6-02	Parking floor	F6-01 to F6-00	1	-	★
F6-03	Fire emergency floor 1	F6-01 to F6-00	1	-	★
F6-04	Elevator lock floor	F6-01 to F6-00	1	-	★
F6-05	Service floors	0–65535 0: Not respond 1: Respond	65535	-	★
F6-06	Elevator function control 1	0–65535	0	-	★
F6-07	Elevator function control 2	0–65535	0	-	★
F6-08	Arrow blinking interval	0–5.0	1	-	★

Function Code	Parameter Name	Setting Range	Default	Unit	Property
F6-09	Random test times	0–60000	0	-	★
F6-10	Test function selection	Bit0: Hall call forbidden Bit1: Door open forbidden Bit2: Overload forbidden Bit3: Limit forbidden	0	-	★
F6-11	L1 function selection	00: Invalid 200–399	201	-	★
F6-12	L2 function selection		202	-	★
F6-13	L3 function selection		203	-	★
F6-14	L4 function selection		00	-	★
F6-15	L5 function selection		211	-	★
F6-16	L6 function selection		212	-	★
F6-17	L7 function selection		213	-	★
F6-18	L8 function selection		214	-	★
F6-19	L9 function selection		215	-	★
F6-20	L10 function selection		00	-	★
F6-21	L11 function selection		00	-	★
F6-22	L12 function selection		00	-	★
F6-23	L13 function selection		231	-	★
F6-24	L14 function selection		232	-	★
F6-25	L15 function selection		233	-	★
F6-26	L16 function selection		234	-	★
F6-27	L17 function selection		252	-	★
F6-28	L18 function selection		253	-	★
F6-29	L19 function selection		254	-	★
F6-30	L20 function selection		255	-	★
F6-31	L21 function selection		00	-	★
F6-32	L22 function selection		00	-	★
F6-33	L23 function selection		00	-	★
F6-34	L24 function selection		00	-	★
F6-35	L25 function selection		00	-	★
F6-36	L26 function selection		00	-	★
F6-37	L27 function selection		00	-	★
F6-38	L28 function selection		00	-	★
F6-39	L29 function selection		00	-	★
F6-40	L30 function selection		00	-	★
F6-41	L31 function selection		00	-	★

Function Code	Parameter Name	Setting Range	Default	Unit	Property
F6-42	L32 function selection	00: Invalid 200–399	00	-	★
F6-43	L33 function selection		00	-	★
F6-44	L34 function selection		00	-	★
F6-45	L35 function selection		00	-	★
F6-46	L36 function selection		00	-	★
F6-47	L37 function selection		00	-	★
F6-48	L38 function selection		00	-	★
F6-49	L39 function selection		00	-	★
F6-50	L40 function selection		00	-	★
F6-51	L41 function selection		00	-	★
F6-52	L42 function selection		00	-	★
F6-53	L43 function selection		00	-	★
F6-54	L44 function selection		00	-	★
F6-55	L45 function selection		00	-	★
F6-56	L46 function selection		00	-	★
F6-57	L47 function selection		00	-	★
F6-58	L48 function selection		00	-	★
F6-59	L49 function selection		00	-	★
F6-60	L50 function selection		00	-	★
F6-61	Leveling sensor delay	10–50	14	ms	★
F6-62	Time interval of random running	0–1000	3	s	☆
F6-63	Reserved	-	-	-	-
F6-64	Program control selection 1	0–65535	0	-	★
F6-65	Program control selection 2	0–65535	0	-	★
F6-66	Program control selection 3	0–65535	0	-	★
F6-67	Attendant function selection	0–65535	128	-	★
F6-68	Fire emergency function selection	0–65535	16456	-	★
F6-69	Emergency evacuation function selection	0–65535	0	-	★
F6-71	Reserved	-	-	-	-

Function Code	Parameter Name	Setting Range	Default	Unit	Property
F6-72	Emergency evacuation switching speed	0.010–0.630	0.010	m/s	★
F6-73	Evacuation parking floor	0 to F6-00	0	-	★
F6-74	Blinking advance time	0.0–15.0	1	s	☆
F6-75	Waiting time for switchover from shorting stator braking mode to controller drive	0.0–45.0	20.0	s	☆
Group F7: Output Terminal Parameters					
F7-00	Y0 function selection	Y0 designated for function 32 "emergency evacuation at power failure"	00	-	★
F7-01	Y1 function selection	Range: 00–05 or 32 00: Invalid 01: RUN contactor output	01	-	★
F7-02	Y2 function selection	02: Brake contactor control 03: Higher-voltage startup of brake	02	-	★
F7-03	Y3 function selection	04: Lamp/Fan running 05: Shorting PMSM stator contactor	04	-	★
F7-04	Y4 function selection	06–99 00: Invalid	00	-	★
F7-05	Y5 function selection	06: Door 1 open output 07: Door 1 close output 08: Door 2 open output	00	-	★
F7-06	Y6 function selection	09: Door 2 close output 10: Low 7-segment a display output	06	-	★
F7-07	Y7 function selection	11: Low 7-segment b display output 12: Low 7-segment c display output	07	-	★
F7-08	Y8 function selection	13: Low 7-segment d display output (To be continued)	08	-	★

Function Code	Parameter Name	Setting Range	Default	Unit	Property
F7-09	Y9 function selection	14: Low 7-segment e display output 15: Low 7-segment f display output 16: Low 7-segment g display output 17: Up arrow display output 18: Down arrow output 19: Minus sign display output 20: Returning to base floor at fire emergency 21: Buzzer output 22: Overload output 23: Arrival gong output 24: Full-load output 25: Inspection output 26: Fan/Lamp output 2 27: Shorting door lock circuit contactor output 28: BCD/Gray code/7-segment high-bit output 29: Controller normal running output 30: Electric lock output 31: Reserved 32: Emergency evacuation at power failure 33: Forced door close 1 34: Forced door close 2 35: Faulty state 36: Up signal 37: Medical sterilization output 38: Non-door zone stop output 39: Non-service state output 40: Reserved 41: High 7-segment a display output 42: High 7-segment b display output	09	-	★
F7-10	Y10 function selection		10	-	★
F7-11	Y11 function selection		11	-	★
F7-12	Y12 function selection		12	-	★
F7-13	Y13 function selection		13	-	★
F7-14	Y14 function selection		00	-	★
F7-15	Y15 function selection		00	-	★
F7-16	Y16 function selection		25	-	★
F7-17	Y17 function selection		17	-	★
F7-18	Y18 function selection		18	-	★
F7-19	Y19 function selection		19	-	★
F7-20	Y20 function selection		20	-	★
F7-21	Y21 function selection		21	-	★
F7-22	Y22 function selection		22	-	★
F7-23	Y23 function selection		00	-	★

(To be continued)

Function Code	Parameter Name	Setting Range	Default	Unit	Property
F7-24	Y24 function selection	43: High 7-segment c display output 44: High 7-segment d display output 45: High 7-segment e display output 46: High 7-segment f display output 47: High 7-segment g display output 48–99: Reserved (End)	00	-	★
F7-25	Y25 function selection		00	-	★
F7-26	Y26 function selection		00	-	★
F7-27	Y27 function selection		00	-	★
Group F8: Enhanced Function Parameters					
F8-00	Load for load cell auto-tuning	0–100	0	%	★
F8-01	Pre-torque selection	0: Pre-torque invalid 1: Load cell pre-torque compensation 2: Automatic pre-torque compensation	0	-	★
F8-02	Pre-torque offset	0.0–100.0	50.0	%	★
F8-03	Drive gain	0.00–2.00	0.60	-	★
F8-04	Brake gain	0.00–2.00	0.60	-	★
F8-05	Current car load	0–255	0	-	●
F8-06	Car no-load load	0–255	0	-	★
F8-07	Car full-load load	0–255	100	-	★
F8-08	Load cell input selection	0: MCB digital sampling 1: MCB analog sampling	0	-	☆
F8-09	Emergency evacuation operation speed at power failure	0.000 to F3-11	0.050	m/s	★
F8-10	Emergency evacuation operation mode at power failure	0: Motor not running 1: UPS 2: 48 V battery power supply	0	-	★
F8-11	Brake apply delay	0.200–1.500	0.200	s	★
F8-12	Fire emergency floor 2	0 to F6-00	0	-	★

Function Code	Parameter Name	Setting Range	Default	Unit	Property
F8-13	Anti-nuisance function	Bit0: Disabled Bit1: Judged by light curtain Bit 2: Judged by light-load signal	0	-	☆
Group F9: Time Parameters					
F9-00	Idle time before returning to base floor	1–240 0: Invalid	10	min	☆
F9-01	Time for fan and lamp to be turned off	1–240 0: Fan and lamp always ON	2	min	☆
F9-02	Motor running time limit	0–45 Invalid if smaller than 3s	45	s	★
F9-03	Accumulative running time	0–65535	0	h	●
F9-04	Reserved	-	-	-	
F9-05	High byte of running times	0–9999 1 indicating actual running times 10000	0	-	●
F9-06	Low byte or running times	0–9999	0	-	●
Group FA: Keypad Setting Parameters					
FA-00	Reserved	-	-	-	
FA-01	Display in running state	1–65535	65535	-	☆
FA-02	Display in stop state	1–65535	65535	-	☆
FA-03	Current encoder angle	0.0–359.9	0.0	Degree (°)	●
FA-04	Reserved	-	-	-	-
FA-05	Control board software (ZK)	0–65535	0	-	●
FA-06	Drive board software (DSP)	0–65535	0	-	●
FA-06	Heatsink temperature	0–100	0	°C	●
FA-08	Controller model	-	1000	-	●
FA-09	Reserved	-	-	-	-
FA-10	Reserved	-	-	-	-
FA-11	Pre-torque current	0.0–200.0	0	%	●
FA-12	Logic information	0–65535	0	-	●
FA-13	Curve information	0–65535	0	-	●
FA-14	Set speed	0.000–4.000	0	m/s	●

Function Code	Parameter Name	Setting Range	Default	Unit	Property
FA-15	Feedback speed	0.000–4.000	0	m/s	●
FA-16	Bus voltage	0–999.9	0	V	●
FA-17	Present position	0.00–300.0	0	m	●
FA-18	Output current	0.0–999.9	0	A	●
FA-19	Output frequency	0.00–99.99	0	Hz	●
FA-20	Torque current	0.0–999.9	0	A	●
FA-21	Output voltage	0–999.9	0	V	●
FA-22	Output torque	0–200.0	0	%	●
FA-23	Output power	0.00–99.99	0	kW	●
FA-24	Communication interference	0–65535	0	-	●
FA-25	Encoder interference	0–65535	0	-	
FA-26	Input state 1	0–65535	0	-	●
FA-27	Input state 2	0–65535	0	-	●
FA-28	Input state 3	0–65535	0	-	●
FA-29	Input state 4	0–65535	0	-	●
FA-30	Input state 5	0–65535	0	-	●
FA-31	Output state 1	0–65535	0	-	●
FA-32	Output state 2	0–65535	0	-	●
FA-33	Output state 3	0–65535	0	-	●
FA-34	Floor I/O state 1	0–65535	0	-	●
FA-35	Floor I/O state 2	0–65535	0	-	●
FA-36	Floor I/O state 3	0–65535	0	-	●
FA-37	Floor I/O state 4	0–65535	0	-	●
FA-38	Floor I/O state 5	0–65535	0	-	●
FA-39	Floor I/O state 6	0–65535	0	-	●
FA-40	Floor I/O state 7	0–65535	0	-	●
FA-41	System state	0–65535	0	-	★
Group Fb: Door Function Parameters					
Fb-00	Number of door machine(s)	1–2	1	-	★
Fb-01	Opposite door control mode	0–3	0	-	●

Function Code	Parameter Name	Setting Range	Default	Unit	Property
Fb-02	Service floors of door machine 1	0–65535 0: Forbid door open 1: Allow door open	65535	-	☆
Fb-03	Holding time of manual door open	1–60	10	s	☆
Fb-04	Service floors of door machine 2	0–65535 0: Forbid door open 1: Allow door open Valid only when there are two door machines	65535	-	☆
Fb-05	Delay at stop after re-leveling	0.00–2.00	0	s	★
Fb-06	Door open protection time	5–99	10	s	☆
Fb-07	Program control selection	0–65535 Bit0–Bit4: Reserved Bit5: Synchronous motor current detection Bit6–Bit12: Reserved Bit13: Higher voltage/Lower voltage 1.5s detection	0	-	☆
Fb-08	Door close protection time	5–99	15	s	☆
Fb-09	Door open/close protection times	0–20 0: Invalid	0	-	☆
Fb-10	Door state of standby elevator	0: Closing the door as normal at base floor 1: Waiting with door open at base floor 2: Waiting with door open at each floor	0	-	☆
Fb-11	Door open holding time for hall call	1–1000	5	s	☆
Fb-12	Door open holding time for car call	1–1000	3	s	☆
Fb-13	Door open holding time upon open delay valid	10–1000	30	s	☆
Fb-14	Door open holding time at base floor	1–1000	10	s	☆
Fb-15	Arrival gong output delay	0–1000	0	ms	☆

Function Code	Parameter Name	Setting Range	Default	Unit	Property
Fb-16	Door lock waiting time at manual door	0–50	0	s	☆
Fb-17	Holding time for forced door close	5–180	120	s	☆
Group FC: Protection Function Parameters					
FC-00	Program control for protection function	0–65535 Bit0: Short-circuit to ground detection at power-on Bit1: Canceling current detection at inspection startup Bit2: Decelerating to stop at valid light curtain Bit3: Password ineffective if no operation within 30 minutes Bit4–Bit9: Reserved	0	-	★
FC-01	Program control 2 for protection function	0–65535 Bit0: Overload protection Bit1: Canceling protection at output phase loss Bit2: Canceling over-modulation Bit3: Reserved Bit4: Light curtain judgment at door close limit Bit5: Canceling SPI communication judgment Bit7:Reserved Bit8:Reserved Bit9: Canceling Err55 alarm Bit10–Bit13: Reserved Bit14: Canceling protection at input phase loss	1	-	★
FC-02	Overload protection coefficient	0.50–10.00	1.00	-	★
FC-03	Overload pre-warning coefficient	50–100	80	%	★

Function Code	Parameter Name	Setting Range	Default	Unit	Property
FC-04	Designated fault	0–9999 High two digits indicate the floor number and low two digits indicate the fault code. For example, if Err30 occurs at floor 1, "0130" is displayed. 0: No fault 1: Reserved 2: Err02 (Over-current during acceleration) 3: Err03 (Over-current during deceleration) 4: Err04 (Over-current at constant speed) 5: Err05 (Over-voltage during acceleration) 6: Err06 (Over-voltage during deceleration) 7: Err07 (Overvoltage at constant speed) 8: Reserved 9: Err09 (Undervoltage) 10: Err10 (Controller overload) 11: Err11 (Motor overload) 12: Err12 (Power supply phase loss) 13: Err13 (Power output phase loss) 14: Err14 (Module overheat) 15: Err15 (Output abnormal) 16: Err16 (Current control fault) 17: Err17 (Reference signal of the encoder incorrect) 18: Err18 (Current detection fault) 19: Err19 (Motor auto-tuning fault) (To be continued)	0	-	●

Function Code	Parameter Name	Setting Range	Default	Unit	Property
FC-04	Designated fault	20: Err20 (Speed feedback incorrect) 21: Reserved 22: Err22 (Leveling signal abnormal) 23: Reserved 24: Err24 (RTC clock fault) 25: Err25 (Storage data abnormal) 26: Err26 (Earthquake signal) 27, 28: Reserved 29: Err29 (Shorting PMSM stator feedback abnormal) 30: Err30 (Elevator position abnormal) 33: Err33 (Elevator speed abnormal) 34: Err34 (Logic fault) 35: Err35 (Shaft auto-tuning data abnormal) 36: Err36 (RUN contactor feedback abnormal) 37: Err37 (Brake contactor feedback abnormal) 38: Err38 (Encoder signal abnormal) 39: Err39 (Motor overheat) 40: Err40 (Elevator running reached) 41: Err41 (Safety circuit disconnected) 42: Err42 (Door lock disconnected during running) 43: Err43 (Up limit signal abnormal) 44: Err44 (Down limit signal abnormal) 45: Err45 (Slow-down switch position abnormal) (To be continued)	0	-	●

Function Code	Parameter Name	Setting Range	Default	Unit	Property
FC-04	Designated fault	46: Err46 (Re-leveling abnormal) 47: Err47 (Shorting door lock circuit contactor abnormal) 48: Err48 (Door open fault) 49: Err49 (Door close fault) 50: Consecutive loss of leveling signal 53: Err53 (Door lock fault) 54: Err54 (Overcurrent at inspection startup) 55: Err55 (Stop at another landing floor) 57: Err57 (SPI communication abnormal) 58: Err58 (Shaft position switches abnormal) 62: Err62 (Analog input cable broken) (End)	0	-	●
FC-05	Designated fault code (display)	0–9999	0	-	●
FC-06	Designated fault subcode	0–65535	0	-	●
FC-07	Logic information of designated fault	0–65535	0	-	●
FC-08	Curve information of designated fault	0–65535	0	-	●
FC-09	Set speed upon designated fault	0.000–1.750	0	m/s	●
FC-10	Feedback speed upon designated fault	0.000–1.750	0	m/s	●
FC-11	Bus voltage upon designated fault	0.0–999.9	0	V	●
FC-12	Current position upon designated fault	0.0–300.0	0	m	●
FC-13	Output current upon designated fault	0.0–999.9	0	A	●
FC-14	Output frequency upon designated fault	0.00–99.99	0	Hz	●
FC-15	Torque current upon designated fault	0.0–999.9	0	A	●

Function Code	Parameter Name	Setting Range	Default	Unit	Property
FC-16	1st fault code	0–9999	0	-	●
FC-17	1st fault subcode	0–65535	0	-	●
FC-18	2nd fault code	0–9999	0	-	●
FC-19	2nd fault subcode	0–65535	0	-	●
FC-20	3rd fault code	0–9999	0	-	●
FC-21	3rd fault subcode	0–65535	0	-	●
FC-22	4th fault code	0–9999	0	-	●
FC-23	4th fault subcode	0–65535	0	-	●
FC-24	5th fault code	0–9999	0	-	●
FC-25	5th fault subcode	0–65535	0	-	●
FC-26	6th fault code	0–9999	0	-	●
FC-27	6th fault subcode	0–65535	0	-	●
FC-28	7th fault code	0–9999	0	-	●
FC-29	7th fault subcode	0–65535	0	-	●
FC-30	8th fault code	0–9999	0	-	●
FC-31	8th fault subcode	0–65535	0	-	●
FC-32	9th fault code	0–9999	0	-	●
FC-33	9th fault subcode	0–65535	0	-	●
FC-34	10th fault code	0–9999	0	-	●
FC-35	10th fault subcode	0–65535	0	-	●
FC-36	Latest fault code	0–9999	0	-	●
FC-37	Latest fault subcode	0–65535	0	-	●
FC-38	Logic information of latest fault	0–65535	0	-	●
FC-39	Curve information of latest fault	0–65535	0	-	●
FC-40	Set speed upon latest fault	0.000–1.750	0	m/s	●
FC-41	Feedback speed upon latest fault	0.000–1.750	0	m/s	●
FC-42	Bus voltage upon latest fault	0.0–999.9	0	V	●
FC-43	Current position upon latest fault	0.0–300.0	0	m	●
FC-44	Output current upon latest fault	0–999.9	0	A	●
FC-45	Output frequency upon latest fault	0.00–99.99	0	Hz	●

Function Code	Parameter Name	Setting Range	Default	Unit	Property
FC-46	Torque current upon latest fault	0.0–999.9	0	A	●
Group Fd: Communication Parameters					
Fd-00	Local address	0–127 0: Broadcast address	1	-	★
Fd-01	Communication response delay	0–20	10	ms	★
Fd-02	Communication timeout	0.0–60.0 0: Invalid	0.0	s	★
Fd-03	Number of elevators in parallel control mode	1–2	1	-	★
Fd-04	Elevator No.	1–2	1	-	★
Fd-05	Parallel control function selection	Bit0: Dispersed waiting	1	-	★
Group FE: Elevator Function Parameters					
FE-00	Collective selective mode	0: Full collective selective 1: Down collective selective 2: Up collective selective	0	-	☆
FE-01	Floor 1 display	0000–1999 The two high digits indicate the display code of the ten's digit, and the two low digits indicate the display code of the unit's digit. 00: Display "0" 01: Display "1" 02: Display "2" 03: Display "3" 04: Display "4" 05: Display "5" 06: Display "6" 07: Display "7" 08: Display "8" 09: Display "9" 10: Display "A" 11: Reserved 12: Reserved (To be continued)	1901	-	☆
FE-02	Floor 2 display		1902	-	☆
FE-03	Floor 3 display		1903	-	☆
FE-04	Floor 4 display		1904	-	☆
FE-05	Floor 5 display		1905	-	☆
FE-06	Floor 6 display		1906	-	☆

Function Code	Parameter Name	Setting Range	Default	Unit	Property
FE-07	Floor 7 display	13: Display "H" 14: Display "L" 15: Reserved 16: Display "P" 17: Reserved 18: Display "-" 19: No display 23: Display "C" 24: Display "d" 25: Display "E" 26: Display "F" 28: Display "J" 31: Display "o" 35: Display "U" Larger than 35: No display (End)	1907	-	☆
FE-08	Floor 8 display		1908	-	☆
FE-09	Floor 9 display		1909	-	☆
FE-10	Floor 10 display		0100	-	☆
FE-11	Floor 11 display		0101	-	☆
FE-12	Hall call output selection	0: 7-segment code 1: BCD code 2: Gray code 3: Binary code 4: One-to-one output	1	-	☆

Function Code	Parameter Name	Setting Range	Default	Unit	Property
FE-13	Elevator function selection 1	0–65535 If the bit is set to 1, the function expressed is enabled. Bit0: Reserved Bit1: Reserved Bit2: Re-leveling function Bit3: Door pre-open function Bit4: Reserved Bit5: Forced door close Bit6: Door open valid at non-door zone in the inspection state Bit7: Door open and close once after inspection turned to normal Bit8: Reserved Bit9: Independent running Bit10: Reserved Bit11: Door re-open after car call of the present floor Bit12–Bit15: Reserved	0	-	☆
FE-14	Elevator function selection 2	0–65535 If the bit is set to 1, the function expressed is enabled. Bit0: Reserved Bit1: Door open holding at open limit Bit2: Door close command not output upon door close limit Bit3: Manual door Bit4: Auto reset for RUN and brake contactor stuck Bit5: Slow-down switch stuck detection Bit6–Bit9: Reserved Bit10: NO/NC output selection of shorting PMSM stator contactor Bit11: Reserved Bit12: Fan/Lamp output Bit13–Bit15: Reserved	0	-	☆

Function Code	Parameter Name	Setting Range	Default	Unit	Property
FE-15	Floor 12 display	Same as FE-01 to FE-11	0102	-	☆
FE-16	Floor 13 display		0103	-	☆
FE-17	Floor 14 display		0104	-	☆
FE-18	Floor 15 display		0105	-	☆
FE-19	Floor 16 display		0106	-	☆
Fr: Leveling Adjustment Parameters					
Fr-00	Leveling adjustment function	0: Disabled 1: Enabled	0	mm	★
Fr-01	Leveling adjustment record 1	00000–60060	30030	mm	★
Fr-02	Leveling adjustment record 2	00000–60060	30030	mm	★
Fr-03	Leveling adjustment record 3	00000–60060	30030	mm	★
Fr-04	Leveling adjustment record 4	00000–60060	30030	mm	★
Fr-05	Leveling adjustment record 5	00000–60060	30030	mm	★
Fr-06	Leveling adjustment record 6	00000–60060	30030	mm	★
Fr-07	Leveling adjustment record 7	00000–60060	30030	mm	★
Fr-08	Leveling adjustment record 8	00000–60060	30030	mm	★
Group FP: User Parameters					
FP-00	User password	0–65535 00000: no password	0	-	☆
FP-01	Parameter update	0: No operation 1: Restore default settings 2: Clear fault records	0	-	★
FP-02	User-defined parameter display	0: Invalid 1: Valid	0	-	★

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