MONARCH BY INOVANCE · NICE3000^{new} INTEGRATED ELEVATOR CONTROLLER

MONARCH
Errors and Codes

NICE 3000 · LATEST



Every function code and every fault code from the NICE3000^{new} manual — in one quick-reference volume. Find the code on the display, look it up here, and follow the book's own steps.

394 function codes · 18 groups (F0–Fr)

47 fault entries · causes & solutions (Err02–Err58)

Keypad keys · fault levels · display-code appendix

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Extracted from the Monarch Complete Book with Keys & Functions & Errors

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How to use this book

The controller uses a three-level menu: function code group (Level I), function code (Level II) and setting value (Level III). On the LED operation panel, press PRG to enter or exit the Level-I menu, use the increment / decrement keys to move, and press ENTER to go deeper and confirm. ENTER saves the setting and moves to the next function code; PRG returns without saving and stays on the current function code. On the MCB 3-button keypad the same job is done with PRG / UP / SET.

Keys on the operation panel (Manual Table 4-2)

Key	Name	Function
PRG	Programming	Enter or exit Level-I menu.
ENTER	Confirm	Enter menu levels and confirm the parameter setting.
▲ / ▼	Increment / Decrement	Increase or decrease data or function code.
Shift	Shift	Select displayed parameters in turn; select the digit to modify.
RUN	Run	Start the controller in operation-panel control mode.
STOP / RES	Stop / Reset	Stop the controller when running; reset when in fault state.
MF.K	Fault hiding	Show or hide fault information in the fault state, to view parameters.
QUICK	Quick	Enter or exit the Level-I quick menu.

Reading the function code tables

Each table has six columns: Function Code, Parameter Name, Setting Range, Default (factory setting), Unit and Property. The property symbols mean:

★ Cannot be modified while the controller is running. ☆ Can be modified in stop or running state. ● Measured value, cannot be modified. “Model dependent” means the default differs by controller model — read it from the live display.

Fault levels (Manual Table 9-1)

Every fault entry carries a level. The level decides what the elevator does when the fault appears:

Category	Action	Remarks
Level 1	Display the fault code; output the fault relay action.	Elevator running is not affected on any condition.
Level 2	Display; fault relay action; continue normal running.	Parallel function, and door pre-open / re-leveling, are disabled.
Level 3	Display; fault relay action; stop output, apply brake after stop.	Low-speed running: stops at a special deceleration rate and cannot restart; or does not stop at low speed, but stops at normal speed and can restart at low speed after 3 s.
Level 4	Display; fault relay action; in distance control, decelerate to stop, cannot run again.	Same low-speed / normal-speed behaviour as Level 3.
Level 5	Display; fault relay action; the elevator stops immediately.	Low-speed running: stops immediately and cannot restart; or does not stop at low speed, but stops at normal speed and can restart at low speed after 3 s.

Notes on this edition. The fault solutions for Err02–Err04 (over-current) and Err05–Err07 (over-voltage) are printed in the manual as one continuously numbered list each; the numbering is kept exactly as printed, with a note where a list continues under the next code. Codes that do not appear in a group’s number sequence are reserved in the manual and are left out here. Two display codes that are not fault-table entries — Err31 and Err88 — are explained in the appendix.

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Err44 — Down limit signal abnormal	Level 4C
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Part 1 — Function code tables

Chapter 6 of the NICE3000^{new} User Manual. Setting ranges and defaults are reproduced exactly as printed; where the manual prints an enumerated list, the options are kept in order. Detailed explanations of each parameter are in Chapter 7 of the manual.

Group F0 — Basic parameters (8 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
F0-00	Control mode	0: Sensorless flux vector control (SFVC) 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	0.100 to F0-04	1.600	m/s	★
F0-04	Rated elevator speed	0.250–4.000	1.600	m/s	★
F0-05	Rated elevator load	300–9999	1000	kg	★
F0-06	Maximum frequency	20.00–99.00	50.00	Hz	★
F0-07	Carrier frequency	0.5–16.0	6.0	kHz	★

Group F1 — Motor parameters (23 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
F1-00	Encoder type	0: SIN/COS encoder 1: UVW encoder 2: ABZ incremental encoder	0	-	★
F1-01	Rated motor power	0.7–75.0	Model dependent	kW	★
F1-02	Rated motor voltage	0–600	Model dependent	V	★
F1-03	Rated motor current	0.00–655.00	Model dependent	A	★
F1-04	Rated motor frequency	0.00–99.00	50.00	Hz	★
F1-05	Rated motor rotational speed	0–3000	1460	RPM	★
F1-06	Encoder initial angle (synchronous motor)	0.0–359.9	0	Degree (°)	★
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)	0–40	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	0	-	★
F1-12	Encoder pulses per revolution	0–10000	2048	PPR	★
F1-13	Encoder wire-breaking detection time	0–10.0	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	★

Code	Parameter name	Setting range	Default	Unit	Prop.
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	-	★

Group F2 — Vector control parameters (16 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
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 F0-06	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: Running direction and position pulse direction unchanged 1: Running direction reversed, position pulse direction reversed 2: Running direction unchanged, position pulse direction reversed 3: Running direction reversed, position pulse direction unchanged	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 parameters (22 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
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	0.200–2.000	0.600	m/s2	★
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	★
F3-05	Deceleration rate	0.200–2.000	0.600	m/s2	★
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	0.500–2.000	0.900	m/s2	★
F3-09	Pre-deceleration distance	0–90.0	0.0	mm	★
F3-10	Re-leveling speed	0.000–0.080	0.040	m/s	★

Code	Parameter name	Setting range	Default	Unit	Prop.
F3-11	Inspection speed	0.100–0.630	0.250	m/s	★
F3-12	Position of up slow- down 1	0.000–300.00	0.00	m	★
F3-13	Position of down slow- down 1	0.000–300.00	0.00	m	★
F3-14	Position of up slow- down 2	0.000–300.00	0.00	m	★
F3-15	Position of down slow- down 2	0.000–300.00	0.00	m	★
F3-16	Position of up slow- down 3	0.000–300.00	0.00	m	★
F3-17	Position of down slow- down 3	0.000–300.00	0.00	m	★
F3-18	Zero-speed control time at startup	0.000–1.000	0.200	s	★
F3-19	Brake release delay	0.000–1.000	0.600	s	★
F3-20	Zero-speed control time at end	0.200–1.500	0.200	s	★
F3-21	Low-speed re-leveling speed	0.080 to F3-11	0.100	m/s	★

Group F4 — Floor parameters (30 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
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	★
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 Floor	0–65535 height 11 to floor height 37	0 37	Pulses	★
F4-80	High byte of floor height 38	0–65535	0	Pulses	★
F4-81	Low byte of floor height 38	0–65535	0	Pulses	★
F4-82	High byte of floor height 39	0–65535	0	Pulses	★
F4-83	Low byte of floor height 39	0–65535	0	Pulses	★

Group F5 — Terminal function parameters (40 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
F5-00	Attendant/Automatic switchover time	3–200	3	s	★
F5-01	X1 function selection	08/40: Inspection signal 09/41: Inspection up	33	-	★
F5-02	X2 function selection	signal 10/42: Inspection down signal	35	-	★
F5-03	X3 function selection	signal 11/43: Fire emergency signal	34	-	★
F5-04	X4 function selection	12/44: Up limit signal 13/45: Down limit signal 14/46: Overload signal	4	-	★
F5-05	X5 function selection	14/46: Overload signal 15/47: Full-load signal 16/48: Up slow-down 1	5	-	★
F5-06	X6 function selection	signal 17/49: Down slow-down 1 signal	38	-	★
F5-07	X7 function selection	18/50: Up slow-down 2 signal	39	-	★
F5-08	X8 function selection	(To be continued)	22	-	★
F5-09	X9 function selection	19/51: Down slow-down 2 signal 20/52: Up slow-down 3	40	-	★
F5-10	X10 function selection	20/52: Up slow-down 3 signal 21/53: Down slow-down 3 signal	09	-	★
F5-11	X11 function selection	3 signal 22/54: Shorting door lock circuit contactor	10	-	★
F5-12	X12 function selection	feedback 23/55: Firefighter switch signal	44	-	★
F5-13	X13 function selection	24/56: Door machine 1 light curtain signal 25/57: Door machine 2	45	-	★
F5-14	X14 function selection	light curtain signal 26/58: Brake contactor feedback 2 signal	48	-	★
F5-15	X15 function selection	feedback 2 signal 27/59: UPS valid signal 28/60: Elevator lock	49	-	★
F5-16	X16 function selection	signal 29/61: Safety circuit 2 feedback signal	50	-	★
F5-17	X17 function selection	30/62: Shorting PMSM stator feedback signal	51	-	★
F5-18	X18 function selection	31/63: Door lock circuit 2 feedback signal 32/64: Reserved	00	-	★
F5-19	X19 function selection	65/97: Door machine 1 safety edge signal 66/98: Door machine 2	00	-	★
F5-20	X20 function selection	safety edge signal 67/99: Motor overheat signal	00	-	★
F5-21	X21 function selection	signal 68/100: Earthquake signal	00	-	★
F5-22	X22 function selection	69/101: Back door forbidden signal 70/102: Light-load signal	00	-	★
F5-23	X23 function selection	71/103: Half-load signal 72/104: Fire emergency	00	-	★
F5-24	X24 function selection	floor switchover signal (End)	00	-	★
F5-25	CTB input type	0–511	320	-	★
F5-26	Y1 function selection	0: Invalid 1: RUN contactor control 2: Brake contactor control 3: Shorting door lock circuit contactor control	1	-	★
F5-27	Y2 function selection	circuit contactor control 4: Fire emergency floor arrival signal feedback 5: Door machine 1 open 6: Door machine 1 close 7: Door machine 2 open	2	-	★

Code	Parameter name	Setting range	Default	Unit	Prop.
F5-28	Y3 function selection	8: Door machine 2 close 9: Brake and RUN contactors healthy 10: Fault state 11: Running monitor	3	-	★
F5-29	Y4 function selection	12: Shorting PMSM stator contactor 13: Emergency evacuation automatic switchover 14: System healthy	4	-	★
F5-30	Y5 function selection	15: Emergency buzzer control 16: High-voltage startup of brake 17: Elevator running in up direction	0	-	★
F5-31	Y6 function selection	up direction 18: Lamp/Fan running 19: Medical sterilization 20: Non-door zone stop 21: Electric lock 22: Non-service state	0	-	★
F5-32	Communication state display	Monitoring of CANbus and Modbus communication states	-	-	●
F5-33	Terminal program control	Bit3: Elevator fire emergency requirement for Hong Kong Bit4: Arrival gong disabled at night Bit6: Door lock disconnected at inspection switched over to normal running Bit7: Fault code not displayed on the keypad Bit8: Door open command cancelled immediately at door open limit Bit9: Car stop and zero- speed torque holding at abnormal brake feedback	0	-	★
F5-34	Terminal state display	Monitoring of I/O terminals on MCB	-	-	●
F5-35	Terminal state display	Monitoring of I/O terminals on CTB, CCB and HOP	-	-	●
F5-36	Load cell input selection	0: Invalid 1: CTB digital input 2: CTB analog input 3: MCB analog input	1	-	★
F5-37	X25 function selection	0: No function	0	-	★
F5-38	X26 function selection	4: Safety circuit signal	0	-	★
F5-39	X27 function selection	5: Door lock circuit signal	0	-	★

Group F6 — Basic elevator parameters (47 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
F6-00	Top floor of the elevator	F6-01 to 40	9	-	★
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	F6-01 to F6-00	1	-	★
F6-04	Elevator lock floor	F6-01 to F6-00	1	-	★
F6-05	Service floors 1	0–65535	65535	-	★
F6-06	Service floors 2	0–65535	65535	-	★
F6-07	Number of elevators in group mode	1–8	1	-	★
F6-08	Elevator No.	1–8	1	-	★
F6-09	Elevator program control	Bit0: Dispersed waiting Bit2: Parallel implemented at monitoring port Bit3: Parallel implemented at CAN2 Bit4: Parallel control in compatibility with NICE3000 Bit6: Clear floor number and display direction in advance Bit8: Single hall call button Bit10: Err30 judgment at re-leveling cancellation Bit14: Time interval detection of safety circuit 2 and door lock circuit 2	0	-	★
F6-10	Leveling sensor filter time	10–50	14	ms	★

Code	Parameter name	Setting range	Default	Unit	Prop.
F6-11	Elevator function selection	Bit1: Disabling returning to base floor for verification Bit2: Cancelling auto sequential arrange of hall call floor addresses to be displayed Bit5: Current detection valid at startup for synchronous motor Bit6: Reversing MCB lamp output Bit7: Door open valid at non-door zone in the inspection state Bit8: Door open and close once after inspection turned to normal Bit10: Buzzer not tweet upon re-leveling Bit11: Super short floor function Bit13: Err53 fault auto reset Bit14: Up slow-down not reset for super short floor Bit15: Down slow-down not reset for super short floor	8448	-	★
F6-12	VIP floor	0 to F6-00	0	-	★
F6-13	VIP floor	0 to F6-00	0	-	★
F6-14	Start time of down collective selective 1	00.00–23.59	00.00	HH.MM	☆
F6-15	End time of down collective selective 1	00.00–23.59	00.00	HH.MM	☆
F6-16	Start time of down collective selective 2	00.00–23.59	00.00	HH.MM	☆
F6-17	End time of down collective selective 2	00.00–23.59	00.00	HH.MM	☆
F6-18	Start time of time- based floor service 1	00.00–23.59	00.00	HH.MM	☆
F6-19	End time of time-based floor service 1	00.00–23.59	0	HH.MM	☆
F6-20	Service floor 1 of time- based floor service 1	0–65535	65535	-	☆
F6-21	Service floor 2 of time- based floor service 1	0–65535	65535	-	☆
F6-22	Start time of time- based floor service 2	00.00–23.59	00.00	HH.MM	☆
F6-23	End time of time-based floor service 2	00.00–23.59	00.00	HH.MM	☆
F6-24	Service floor 1 of time- based floor service 2	0–65535	65535	-	☆
F6-25	Service floor 2 of time- based floor service 2	0–65535	65535	-	☆
F6-26	Peak 1 start time	00.00–23.59	0	HH.MM	☆
F6-27	Peak 1 end time	00.00–23.59	0	HH.MM	☆
F6-28	Peak 1 floor	F6-01 to F6-00	1	-	★
F6-29	Peak 2 start time	00.00–23.59	00.00	HH.MM	☆
F6-30	Peak 2 end time	00.00–23.59	00.00	HH.MM	☆
F6-31	Peak 2 floor	F6-01 to F6-00	1	-	★
F6-35	Service floor 3	0–65535	65535	-	☆
F6-36	Service floor 3 of time- based floor service 1	0–65535	65535	-	☆
F6-37	Service floor 3 of time- based floor service 2	0–65535	65535	-	☆
F6-38	Elevator lock start time	00.00–23.59	00.00	HH.MM	☆
F6-39	Elevator lock end time	00.00–23.59	00.00	HH.MM	☆

Code	Parameter name	Setting range	Default	Unit	Prop.
F6-40	Program control selection 1	Bit0: Disability function Bit1: Soft limit function Bit2: JP16 input used as back door selection Bit3: JP16 input used as the back door open signal Bit4: Opening only one door of opposite doors under manual control Bit5: Timed elevator lock Bit6: Manual door Bit7: Elevator lock/Fire emergency under hall call at any floor Bit9: Disabling reverse floor number clear Bit10: Displaying next arriving floor number Bit11: Responding to car calls first Bit12: Car call assisted command in single door used as disability function Bit13: Folding command used as disability function and back door function Bit14: Car call command folding Bit15: JP20 used for switchover to back door	0	-	★
F6-41	Program control selection 2	Bit2: Inspection to stop due to slow-down 1 Bit4: Buzzer tweet during door open delay Bit6: Cancelling door open delay Bit8: Elevator lock at door open Bit9: Display available at elevator lock Bit10: Elevator lock in the attendant state Bit11: Blinking at arrival (within the time set in F6-47) Bit12: Door re-open during door open delay Bit13: Door re-open after car call of the present floor	0	-	★
F6-42	Program control selection 3	Bit1: Cancelling door open/close command at delay after door open/ close limit Bit2: Not judging door lock state at door close output Bit3: Door close command output during running	0	-	★
F6-43	Attendant function selection	bit0: Calls cancelled after entering attendant state bit1: Not responding to hall calls bit2: Attendant/Automatic state switchover bit3: Door close at jogging bit4: Automatic door close bit5: Buzzer tweet at intervals in attendant state bit6: Buzzer tweet at intervals in attendant state	0	-	★
F6-44	Fire emergency function selection	Bit3: Arrival gong output in inspection or fire emergency state Bit4: Multiple car calls registered in fire emergency state Bit5: Retentive at power failure in fire emergency state Bit6: Closing door by holding down the door close button Bit7: Door close at low speed Bit8: Door close at car call registering Bit9: Displaying hall calls in fire emergency state Bit11: Exiting fire emergency state for firefighter Bit14: Opening door by holding down the door open button Bit15: Automatic door open in fire emergency floor	16456	-	★

Code	Parameter name	Setting range	Default	Unit	Prop.
F6-45	Emergency evacuation function selection	Bit0-Bit1: Direction determine mode (00: Automatically calculating direction; 01: Load direction determining; 10: Direction of nearest landing floor) Bit2: Stopping at evacuation parking floor Bit3: Door open at single leveling signal Bit4: Compensation at startup Bit8: Emergency running time protection Bit10: Emergency buzzer output Bit12: Shorting stator braking mode switched over to controller drive Bit13: Mode of shorting stator braking mode switched over to controller drive Bit14: Emergency evacuation exit mode Bit15: Function selection of shorting stator braking mode	0	-	★
F6-46	VIP function selection	Bit0: VIP enabled by hall call (at VIP floor) Bit1: VIP enabled by terminal Bit8: Number of VIP car calls limited	0	s	★
F6-47	Blinking advance time	0.0–15.0	0	s	☆
F6-48	Emergency evacuation switching speed	0.010–0.630	0.010	m/s	★
F6-49	Evacuation parking floor	0 to F6-01	0	-	★

Group F7 — Test function parameters (9 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
F7-00	Car call floor registered	0 to F6-00	0	-	☆
F7-01	Up call floor registered	0 to F6-00	0	-	☆
F7-02	Down call floor registered	0 to F6-00	0	-	☆
F7-03	Random running times	0–60000	0	-	☆
F7-04	Hall call enabled	0: Yes 1: No	0	-	☆
F7-05	Door open enabled	0: Yes 1: No	0	-	☆
F7-06	Overload function	0: Disabled 1: Enabled	0	-	☆
F7-07	Limit switch	0: Enabled 1: Disabled	0	-	☆
F7-08	Time interval of random running	0–1000	0	s	☆

Group F8 — Enhanced function parameters (16 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
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	0–1023	0	-	●
F8-06	Car no-load load	0–1023	0	-	★
F8-07	Car full-load load	0–1023	100	-	★
F8-08	Anti-nuisance function	0: Anti-nuisance function disabled 1: Nuisance judged by load cell 2: Nuisance judged by light curtain 4: Nuisance judged by light-load signal	0	-	☆

Code	Parameter name	Setting range	Default	Unit	Prop.
F8-09	Emergency evacuation operation speed at power failure	0.000–0.100	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	0.000–1.000	0.600	s	☆
F8-12	Fire emergency floor 2	Fire emergency floor 2	0	-	☆
F8-14	HCB communication setting	Bit4: Energy saving of HCB communication	0	-	☆
F8-16	Start address of hall call auxiliary command	0–40	0	-	☆
F8-17	Hall call address check	0–1	0	-	☆

Group F9 — Time parameters (11 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
F9-00	Idle time before returning to base floor	0–240	10	min	☆
F9-01	Time for fan and lamp to be turned off	0–240	2	min	☆
F9-02	Motor running time limit	0–45	45	s	★
F9-03	Clock: year	2000–2100	Current year	YYYY	☆
F9-04	Clock: month	1–12	Current month	MM	☆
F9-05	Clock: day	1–31	Current day	DD	☆
F9-06	Clock: hour	0–23	Current hour	HH	☆
F9-07	Clock: minute	0–59	Current minute	MM	☆
F9-09	Accumulative running time	0–65535	0	h	●
F9-11	High byte of running times	0–9999	0	-	●
F9-12	Low byte or running times	0–9999	0	-	●

Group FA — Keypad setting parameters (35 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
FA-00	Keypad display selection	0: Reversed display of physical floor 1: Positive display of physical floor 2: Reversed display of hall call floor 3: Positive display of hall call floor	3	-	☆
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-05	Control board software (ZK)	0–65535	0	-	●
FA-06	Drive board software (DSP)	0–65535	0	-	●
FA-07	Heatsink temperature	0–100	0	°C	●
FA-11	Pre-torque current	0.0–200.0	0	%	●
FA-12	Pre-torque current	0.0–200.0	0	-	●
FA-13	Curve information	0–65535	0	-	●
FA-14	Set speed	0.000–4.000	0	m/s	●
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	●

Code	Parameter name	Setting range	Default	Unit	Prop.
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	0–100	0	%	●
FA-23	Output power	0.00–99.99	0	kW	●
FA-24	Communication 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-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	Car input state	0–65535	0	-	●
FA-34	Car output state	0–65535	0	-	●
FA-35	Hall sate	0–65535	0	-	●
FA-36	System state 1	0–65535	0	-	●
FA-37	System state 2	0–65535	0	-	●
FA-46	Hall call communication state 1	0–65535 (floors 1–16)	0	-	●
FA-47	Hall call communication state 2	0–65535 (floors 17–32)	0	-	●
FA-48	Hall call communication state 3	0–65535 (floors 33–40)	0	-	●

Group FB — Door function parameters (20 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
Fb-00	Number of door machine(s)	1–2	1	-	☆
Fb-01	CTB software	00–999	0	-	●
Fb-02	Service floors 1 of door machine 1	0–65535	65535	-	☆
Fb-03	Service floors 2 of door machine 1	0–65535	65535	-	☆
Fb-04	Service floors 1 of door machine 2	0–65535	65535	-	☆
Fb-05	Service floors 2 of door machine 2	0–65535	65535	-	☆
Fb-06	Door open protection time	5–99	10	s	☆
Fb-07	Arrival gong output delay	0–1000	0	ms	☆
Fb-08	Door close protection time	5–99	15	s	☆
Fb-09	Door re-open times	0–20	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 at base floor	1–1000	10	s	☆
Fb-14	Door open delay	10–1000	30	s	☆
Fb-15	Special door open holding time	10–1000	30	s	☆
Fb-16	Manual door open holding time	1–60	5	s	☆
Fb-17	Holding time for forced door close	5–180	120	s	☆
Fb-18	Service floors 3 of door machine 1	0–65535	65535	-	☆
Fb-19	Service floors 3 of door machine 2	0–65535	65535	-	☆

Group FC — Protection function parameters (52 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
FC-00	Program control for protection function	Bit0: Short-circuit to ground detection at power-on Bit2: Decelerating to stop at valid light curtain Bit9: Mode without door open/close limit	0	-	★
FC-01	Program control 2 for protection function	Bit0: Overload protection Bit1: Canceling protection at output phase loss Bit2: Canceling over- modulation function Bit4: Light curtain judgment at door close limit Bit5: Canceling SPI communication judgment Bit14: Canceling protection at input phase loss	65	-	★
FC-02	Overload protection coefficient	0.50–10.00	1.00	-	★
FC-03	Overload pre-warning coefficient	50–100	80	%	★
FC-04	Opposite door selection	0–3	0	-	★
FC-06	Designated fault	0–99	0	-	☆
FC-07	Designated fault code	0–9999	0	-	●
FC-08	Designated fault subcode	0–65535	0	-	●
FC-09	Designated fault month and day	0–1231	0	MM.DD	●
FC-10	Designated fault hour and minute	0–23.59	0	HH.MM	●
FC-11	Logic information of designated fault	0–65535	0	-	●
FC-12	Curve information of designated fault	0–65535	0	-	●
FC-13	Set speed upon designated fault	0.000–4.000	0	m/s	●
FC-14	Feedback speed upon designated fault	0.000–4.000	0	m/s	●
FC-15	Bus voltage upon designated fault	0.0–999.9	0	v	●
FC-16	Current position upon designated fault	0.0–300.0	0	m	●
FC-17	Output current upon designated fault	0.0–999.9	0	A	●
FC-18	Output frequency upon designated fault	0.00–99.99	0	Hz	●
FC-19	Torque current upon designated fault	0.0–999.9	0	A	●
FC-20	1st fault code	0–9999	0	-	●
FC-21	1st fault subcode	0–65535	0	-	●
FC-22	1st fault month and day	0–1231	0	MM.DD	●
FC-23	1st fault hour and minute	0–23.59	0	HH.MM	●
FC-24	2nd fault code	0–9999	0	-	●
FC-25	2nd fault subcode	0–65535	0	-	●
FC-26	2nd fault month and day	0–1231	0	MM.DD	●
FC-27	2nd fault hour and minute	0–23.59	0	HH.MM	●
FC-28	3rd fault code	0–9999	0	-	●
FC-29	3rd fault subcode	0–65535	0	-	●
FC-30	3rd fault month and day	0–1231	0	MM.DD	●
FC-31	3rd fault hour and minute	0–23.59	0	HH.MM	●
FC-32	4th fault code	0–9999	0	-	●
FC-33	4th fault subcode	0–65535	0	-	●
FC-34	4th fault month and day	0–1231	0	MM.DD	●

Code	Parameter name	Setting range	Default	Unit	Prop.
FC-35	4th fault hour and minute ···	0–23.59	0	HH.MM	● ●
FC-56	10th fault code	0–9999	0	-	●
FC-57	10th fault subcode	0–65535	0	-	●
FC-58	10th fault month and day	0–1231	0	MM.DD	●
FC-59	10th fault hour and minute	0–23.59	0	HH.MM	●
FC-60	Latest fault code	0–9999	0	-	●
FC-61	Latest fault subcode	0–65535	0	-	●
FC-62	Latest fault month and day	0–1231	0	MM.DD	●
FC-63	Latest fault hour and minute	0–23.59	0	HH.MM	●
FC-64	Logic information of latest fault	0–65535	0	-	●
FC-65	Curve information of latest fault	0–65535	0	-	●
FC-66	Set speed upon latest fault	0.000–4.000	0	m/s	●
FC-67	Feedback speed upon latest fault	0.000–4.000	0	m/s	●
FC-68	Bus voltage upon latest fault	0.0–999.9	0	v	●
FC-69	Current position upon latest fault	0.0–300.0	0	m	●
FC-70	Output current upon latest fault	0–999.9	0	A	●
FC-71	Output frequency upon latest fault	0.00–99.99	0	Hz	●
FC-72	Torque current upon latest fault	0.0–999.9	0	A	●

Group FD — Communication parameters (25 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
FD-00	Baud rate	0: 9600 1: 38400	0	bit/s	★
FD-02	Local address	0–127 0: Broadcast address	1	-	★
FD-03	Communication response delay	0–20	10	ms	★
FD-04	Communication timeout	0.0–60.0	0.0	s	★
FD-05	Re-leveling stop delay	0.00–2.00	0.00	s	★
FD-07	HCB:JP1 input	0: Reserved NO/NC input: 1/33: Elevator lock signal 2/34: Fire emergency signal	1	-	★
FD-08	HCB:JP2 input	3/35: Current floor forbidden 4/36: VIP floor signal 5/37: Security floor signal 6/38: Door close button input	2	-	★
FD-09	HCB:JP1 output	0: Invalid 1: Up arrival indicator 2: Down arrival indicator	1	-	★
FD-10	HCB:JP2 output	3: Fault output 4: Non-door zone stop output 5: Non-service state output 6: Door close button indicator output	2	-	★
FD-11	HCB-B:JP1 input	0: Reserved	0	-	★
FD-12	HCB-B:JP2 input	NO/NC input: 1/33: Light-load signal	0	-	★
FD-13	HCB-B:JP3 input	2/34: Half-load signal 3/35: Door 2 selection	0	-	★
FD-14	HCB-B:JP4 input	4/36: Door 2 restricted (back door forbidden) 5/37: Door 1 safety edge	0	-	★
FD-15	HCB-B:JP5 input	5/37: Door 1 safety edge 6/38: Door 2 safety edge 7/39: Single/double door	0	-	★
FD-16	HCB-B:JP6 input	selection	0	-	★
FD-17	HCB-B:A1 output	0: Reserved	0	-	★
FD-18	HCB-B:A2 output	1: Fault output	0	-	★
FD-19	HCB-B:B1 output	2: Non-door zone stop	0	-	★

Code	Parameter name	Setting range	Default	Unit	Prop.
FD-20	HCB-B:B2 output	output	0	-	★
FD-21	HCB-B:C1 output	3: Non-service state output	0	-	★
FD-22	HCB-B:C2 output	4: Fire emergency output	0	-	★
FD-23	HCB-B:C3 output	5: Power failure	0	-	★
FD-24	HCB-B:C4 output	emergency output	0	-	★
FD-25	HCB-B:C5 output	6: Door lock valid	0	-	★
FD-26	HCB-B:C6 output	7: Night output signal	0	-	★

Group FE — Elevator function parameters (33 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
FE-00	Collective selective mode	0: Full collective selective 1: Down collective selective 2: Up collective selective	0	-	★
FE-01	Floor 1 display	The two high digits indicate the display code of the ten's digit, and the two low digits indicate the display code of the	1901	-	☆
FE-02	Floor 2 display	unit's digit. 00: Display "0" 01: Display "1" 02: Display "2"	1902	-	☆
FE-03	Floor 3 display	03: Display "3" 04: Display "4" 05: Display "5" 06: Display "6"	1903	-	☆
FE-04	Floor 4 display	07: Display "7" 08: Display "8" 09: Display "9" 10: Display "A"	1904	-	☆
FE-05	Floor 5 display	10: Display "A" 11: Display "B" 12: Display "G" 13: Display "H"	1905	-	☆
FE-06	Floor 6 display	14: Display "L" 15: Display "M" 16: Display "P" (To be continued)	1906	-	☆
FE-07	Floor 7 display	17: Display "R"	1907	-	☆
FE-08	Floor 8 display	18: Display "-"	1908	-	☆
FE-09	Floor 9 display	19: No display	1909	-	☆
FE-10	Floor 10 display	20: Display "12" 21: Display "13"	0100	-	☆
FE-11	Floor 11 display	21: Display "13" 22: Display "23"	0101	-	☆
FE-12	Floor 12 display	23: Display "C"	0102	-	☆
FE-13	Floor 13 display	24: Display "D"	0103	-	☆
FE-14	Floor 14 display	25: Display "E"	0104	-	☆
FE-15	Floor 15 display	26: Display "F"	0105	-	☆
FE-31	Floor 31 display	28: Display "J" 29: Display "K"	0301	-	☆
FE-35	Floor 32 display	29: Display "K" 30: Display "N"	0	-	☆
FE-36	Floor 33 display	31: Display "O"	0	-	☆
FE-37	Floor 34 display	32: Display "Q"	0	-	☆
FE-38	Floor 35 display	33: Display "S"	0	-	☆
FE-39	Floor 36 display	34: Display "T"	0	-	☆
FE-40	Floor 37 display	35: Display "U" 36: Display "V"	0	-	☆
FE-41	Floor 38 display	36: Display "V" 37: Display "W"	0	-	☆
FE-42	Floor 39 display	38: Display "X"	0	-	☆
FE-43	Floor 40 display	39: Display "Y"	0	-	☆
FE-52	Highest digit selection 1	40: Display "Z"	0	-	☆
FE-53	Highest digit selection 2	41: Display "15"	0	-	☆
FE-54	Highest digit selection 3	42: Display "17"	0	-	☆
FE-55	Highest digit selection 4	43: Display "19"	0	-	☆

Code	Parameter name	Setting range	Default	Unit	Prop.
FE-56	Highest digit selection 5	(End)	0	-	☆
FE-32	Elevator function selection 1	Bit2: Re-leveling function Bit3: Door pre-open function Bit4: Stuck hall call cancellation Bit5: Night security floor function Bit6: Down collective selective peak service Bit7: Parallel peak service Bit8: Time-based service floor function Bit9: VIP function Bit11: Car call deletion Bit12: Hall call deletion Bit15: Door lock short- circuit detection	34816	-	☆
FE-33	Elevator function selection 2	Bit1: Door open holding at open limit Bit2: Door close command not output upon door close limit Bit4: Auto reset for RUN and brake contactor stuck Bit5: Slow-down switch stuck detection Bit7: Forced door close Bit8: NO shorting motor stator contactor Bit9: Immediate stop upon re-leveling Bit13: High-speed elevator protection function Bit15: Opposite door independent control	36	-	☆

Group FR — Leveling adjustment parameters (4 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
Fr-00	Leveling adjustment function	0: Disabled 1: Enabled	0	-	★
Fr-01	Leveling adjustment record 1		30030	mm	★
Fr-02	Leveling adjustment record 2 ...	00000–60060	30030	mm ...	★
Fr-03–Fr-19	Leveling adjustment records 3 to 19	As Fr-01 (shown as “...” in the manual)	30030	mm	★
Fr-20	Leveling adjustment record 20		30030	mm	★

Group FF — Factory parameters (0 codes)

No parameters are listed for this group in the manual.

Group FP — User parameters (3 codes)

Code	Parameter name	Setting range	Default	Unit	Prop.
FP-00	User password	0–65535	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	-	★

Part 2 — Fault codes & troubleshooting

Chapter 9 of the NICE3000^{new} User Manual. Each entry gives the fault name, the level (see page 2), the possible causes, and the solution steps exactly as printed. Work through the solution steps in order, and always make the elevator safe before touching wiring or power parts.

Err02 — Over-current during acceleration — Level 5A

Possible causes

1. The main circuit output is grounded or short circuited.
2. Motor auto-tuning is performed improperly.
3. The load is too heavy.
4. The encoder signal is incorrect.

Solution

1. Check whether the RUN contactor at the controller output side is normal.
2. Check.

- Whether the power cable jacket is damaged
- Whether the power cable is possibly short circuited to ground
- Whether the cable is connected reliably

3. Check the insulation of motor power terminals, and check whether the motor winding is short-circuited or grounded.
4. Check whether the shorting PMSM stator contactor causes controller output short circuit.
5. Check whether motor parameters comply with the nameplate.
6. Perform motor auto-tuning again.
7. Check whether the brake keeps released before the fault occurs and whether the brake is stuck mechanically.

Solution list continues under Err03.

Err03 — Over-current during deceleration — Level 5A

Solution list continued from Err02 — numbering follows the manual.

Possible causes

1. The main circuit output is grounded or short circuited.
2. Motor auto-tuning is performed improperly.
3. The load is too heavy.
4. The deceleration rate is too short.
5. The encoder signal is incorrect.

Solution

8. Check whether the balance coefficient is correct.
9. Check whether the encoder wirings are correct. For asynchronous motor, perform SFVC and compare the current to judge whether the encoder works properly.
10. Check:

- Whether encoder pulses per revolution (PPR) is set correctly
- Whether the encoder signal is interfered with
- Whether the encoder cable runs through the duct independently

Err04 — Over-current at constant speed Level 5A

Possible causes

1. The main circuit output is grounded or short circuited.
2. Motor auto-tuning is performed properly.
3. The load is too heavy.
4. The encoder is seriously interfered with.

Solution

- Whether the cable is too long
- Whether the shield is grounded at one end

11. Check whether:

- Whether the encoder is installed reliably
- Whether the rotating shaft is connected to the motor shaft reliably
- Whether the encoder is stable during normal-speed running

12. Check whether UPS feedback is valid in the non-UPS running state (Err02).
13. Check whether the acceleration/ deceleration rate is too high (Err02, Err03).

Err05 — Over-voltage during acceleration Level 5A

Possible causes

1. The input voltage is too high.
2. The regeneration power of the motor is too high.
3. The braking resistance is too large, or the braking unit fails.
4. The acceleration rate is too short.

Solution

1. Adjust the input voltage. Observe whether the bus voltage is normal and whether it rises too quickly during running.
2. Check for the balance coefficient.
3. Select a proper braking resistor and check whether the resistance is too large based on the

Err06 — Over-voltage during deceleration Level 5A

Possible causes

1. The input voltage is too high.
2. The braking resistance is too large, or the braking unit fails.
3. The deceleration rate is too short.

Solution

resistance is too large based on the recommended braking resistance table in chapter 3.

4. Check:

- Whether the cable connecting the braking resistor is damaged
- Whether the cooper wire touches the ground

Err07 — Over-voltage at constant speed Level 5A

Possible causes

1. The input voltage is too high.
2. The braking resistance is too large, or the braking unit fails.

Solution

- Whether the connection is reliable

Err08 — Pre-charge relay not close at power-on Level 5A

Possible causes

1. The external power supply is instable.
2. The hardware is faulty.

Solution

1. Check whether the external power supply is stable and whether the wiring of all power input cables is secure.
2. Forbid frequently powering on the controller on the condition that the controller is not powered off completely.
3. For the hardware fault, contact the agent or Monarch.

Err09 — Under-voltage Level 5A

Possible causes

1. Instantaneous power failure occurs on the input power supply.
2. The input voltage is too low.
3. The drive control board fails.

Solution

1. Eliminate external power supply faults and check whether the power fails during running.
2. Check whether the wiring of all power input cables is secure.
3. Contact the agent or Monarch.

Err10 — Controller overload Level 4A

Possible causes

1. The brake circuit is abnormal.
2. The load is too heavy.
3. The encoder feedback signal is abnormal.
4. The motor parameters are incorrect.
5. A fault occurs on the motor power cables.

Solution

1. Check the brake circuit and power input.
2. Reduce the load.
3. Check whether the encoder feedback signal and setting are correct, and whether the initial angle of the encoder for the PMSM is correct.
4. Check the motor parameter setting and perform motor auto- tuning.
5. Check the power cables of the motor (refer to the solution of Err02).

Err11 — Motor overload Level 3A

Possible causes

1. FC-02 is set improperly.
2. The brake circuit is abnormal.
3. The load is too heavy.

Solution

1. Adjust the parameter (FC-02 can be set to the default value).
2. Refer to the solution of Err10.

Err12 — Power supply phase loss Level 4A

Possible causes

1. The power input phases are not symmetric.
2. The drive control board fails.

Solution

1. Check whether the three phases of power supply are balanced and whether the power voltage is normal. If not, adjust the power input.
2. Contact the agent or Monarch.

Err13 — Power output phase loss Level 4A

Possible causes

1. The output wiring of the main circuit is loose.
2. The motor is damaged.

Solution

1. Check the wiring.
2. Check whether the contactor on the output side is normal.
3. Eliminate the motor fault.

Err14 — Module overheat Level 5A

Possible causes

1. The ambient temperature is too high.
2. The fan is damaged.
3. The air filter is blocked.

Solution

1. Lower the ambient temperature.
2. Clear the air filter.
3. Replace the damaged fan.
4. Check whether the installation clearance of the controller satisfies the requirement.

Err16 — Current control fault Level 5A

Possible causes

1. The excitation current deviation is too large.
2. The torque current deviation is too large.
3. The torque limit is exceeded for a very long time.

Solution

1. Check the circuit of the encoder.
2. The output MCCB becomes OFF.
3. The values of the current loop parameters are too small.
4. Perform motor auto-tuning again if the zero-point position is incorrect.
5. Reduce the load if it too heavy.

Err17 — Reference signal of the encoder incorrect Level 5A

Possible causes

1. The deviation between the Z signal position and the absolute position is too large.
2. The deviation between the absolute position angle and the accumulative angle is too large.

Solution

1. Check whether the encoder runs properly.
2. Check whether the encoder wiring is correct and reliable.
3. Check whether the PG card wiring is correct.
4. Check whether the grounding of the control cabinet and the motor is normal.

Err18 — Current detection fault Level 5A

Possible causes

The drive control board fails.

Solution

Contact the agent or Monarch.

Err19 — Motor auto- tuning fault Level 5A

Possible causes

1. The motor cannot rotate properly.
2. The motor auto- tuning times out.
3. The encoder for the PMSM fails.

Solution

1. Enter the motor parameters correctly.
2. Check the motor wiring and whether phase loss occurs on the contactor at the output side.
3. Check the encoder wiring and ensure that the encoder PPR is set properly.
4. Check whether the brake keeps released during no-load auto- tuning.
5. Check whether the inspection button is released before the PMSM with-load auto-tuning is finished.

Err20 — Speed feedback incorrect Level 5A

Possible causes

1. The encoder model does not match the motor.
2. The encoder wiring is incorrect.
3. The current keeps large during low-speed running.

Solution

1. Check whether F1-00 is set correctly.
2. Check the encoder wiring.
3. If Err20 is reported in the stop state, check whether signal lines C, D of the SIN/COS encoder or signal lines U, V, W of the UVW encoder are broken.
4. Check whether the encoder is stuck mechanically during running.
5. Check whether the brake keeps released during running.

Err22 — Leveling signal abnormal Level 1A

Possible causes

The leveling position deviation is too large.

Solution

1. Check whether the leveling and door zone sensors work properly.
2. Check the installation verticality and depth of the leveling plates.
3. Check the leveling signal input points of the MCB.
4. Check whether the steel rope slips.

Err24 — RTC clock fault Level 3B

Possible causes

The RTC clock information of the MCB is abnormal.

Solution

1. Replace the clock battery.
2. Replace the MCB.

Err25 — Storage data abnormal Level 4A

Possible causes

The storage data of the MCB is abnormal.

Solution

Contact the agent or Monarch.

Err26 — Earthquake signal Level 3B

Possible causes

The earthquake signal is active and the duration exceeds 2s.

Solution

Check whether the earthquake signal is consistent with the parameter setting (NC, NO) of the MCB.

Err29 — Shorting PMSM stator feedback abnormal Level 3B

Possible causes

The shorting PMSM stator feedback is abnormal.

Solution

1. Check whether the state (NO, NC) of the feedback contact on the contactor is consistent with the parameter setting of the MCB.
2. Check whether the state of the MCB output indicator is consistent with the contactor action.
3. Check whether corresponding feedback contact acts after the contactor acts, and whether the corresponding feedback input point of the MCB acts correctly.
4. Check whether the shorting PMSM stator contactor is consistent with the MCB output feature.
5. Check the coil circuit of the shorting PMSM stator contactor.

Err30 — Elevator position abnormal Level 4A

Possible causes

1. The automatic running time of the elevator is too long.
2. The re-leveling running time of the elevator is too long.
3. The up/down limit switch acts during the re-leveling process.
4. The steel rope slips or locked-rotor occurs on the motor.

Solution

1. Check whether the up/down limit switch acts during re-leveling.
2. Check whether the leveling signal cables are connected reliably and whether the signal copper wires may touch the ground or be short circuited with other signal cables.
3. Check whether the distance between two floors is too large, causing too long re-leveling running time.
4. Check whether F9-02 is set properly (greater than the whole normal-speed running time).
5. Check whether signal loss exists in the encoder circuits.

Err33 — Elevator speed abnormal Level 5A

Possible causes

1. The detected running speed exceeds the upper protection limit.
2. The speed exceeds the limit during self- sliding.
3. The speed exceeds the limit or re-leveling is not performed within the required time during emergency running.

Solution

1. Check whether the encoder is used properly.
2. Check the setting of motor nameplate parameters. Perform motor auto-tuning again.
3. Check whether the inspection signal acts at normal speed running.
4. Check the inspection switch and signal cables.
5. Check whether the emergency power capacity meets the requirements.
6. Check whether the emergency running speed is set properly.

Err34 — Logic fault Level 4C

Possible causes

Logic of the MCB is abnormal

Solution

Contact the agent or Monarch.

Err35 — Shaft auto- tuning data abnormal Level 4C

Possible causes

1. The elevator is not at the bottom floor when shaft auto-tuning is started.
2. No leveling signal is received within 45s continuous running.
3. The distance between two floors is too small.
4. The maximum number of landing floors is inconsistent with the setting value.
5. The floor pulses change inversely.
6. The system is not in the inspection state when shaft auto-tuning is performed.
7. Shaft auto-tuning is not performed upon power-on.

Solution

1. If Err35 is reported when the RUN contactor is not closed, check:

- Whether the next slow-down switch is valid
- Whether F4-01 (Current floor) is set to 1
- Whether the inspection switch is in inspection state and supports inspection running
- Whether F0-00 is set to 1

2. If Err35 is reported at the first leveling position, check:

- Whether the value of F4-03 increases in UP direction and decreases in DOWN direction. If not, exchange the MCBs PGA and PGB.
- Whether the NO/NC setting of the leveling sensor is set correctly
- Whether the leveling plates are inserted properly if the leveling sensor signal blinks

3. If Err35 is reported during running, check:

- Whether the running times out: No leveling signal is received when the running time exceeds F9-02
- Whether the super short floor function is enabled when the floor distance is less than 50 cm
- Whether the setting of F6-00 (Top floor of the elevator) is smaller than the actual condition 4: If Err35 is reported when the elevator arrives at the top floor, check:
- Whether the obtained top floor of the elevator and bottom floor of the elevator are consistent with the setting of F6-00 and F6-01 when the up slow-down signal is valid and the elevator reaches the door zone
- Whether the obtained floor distance is less than 50 cm

5. If Err35 is reported at power-on, check whether the detected flag length is 0.

Solution list continues under Err36.

Err36 — RUN contactor feedback abnormal Level 5A

Possible causes

1. The feedback of the RUN contactor is effective at startup of the elevator, but the contactor has no output.
2. The controller outputs the RUN signal but receives no RUN feedback during the startup.
3. When both feedback signals of the RUN contactor are enabled, their states are inconsistent.

Solution

1. Check whether the feedback contact of the contactor acts properly.
2. Check the signal feature (NO, NC) of the feedback contact.
3. Check whether the output cables UVW of the controller are connected properly.
4. Check whether the control circuit of the RUN contactor coil is normal.

Err37 — Brake contactor feedback abnormal Level 5A

Possible causes

1. The output of the brake contactor is inconsistent with the feedback.
2. When both feedback signals of the brake contactor are enabled, their states are inconsistent.

Solution

1. Check whether the brake coil and feedback contact are correct.
2. Check the signal feature (NO, NC) of the feedback contact.
3. Check whether the control circuit of the brake contactor coil is normal.

Err38 — Encoder signal abnormal Level 5A

Possible causes

1. There is no input of the encoder pulses when the elevator runs automatically.
2. The direction of the input encoder signal is incorrect when the elevator runs automatically.
3. F0-00 is set to 0 (SFVC) in distance control.

Solution

1. Check whether the encoder is used correctly.
2. Exchange phases A and B of the encoder.
3. Check the setting of F0-00, and change it to CLVC.
4. Check whether the system and signal cables are grounded reliably.
5. Check whether cabling between the encoder and the PG card is correct.

Err39 — Motor overheat Level 3A

Possible causes

The motor overheat relay input remains valid for a certain time.

Solution

1. Check whether the thermal protection relay is normal.
2. Check whether the motor is used properly and whether it is damaged.
3. Improve cooling conditions of the motor.

Err40 — Elevator running timeout Level 4B

Possible causes

The set elevator running time is reached.

Solution

The elevator is used for a long time and needs maintenance.

Err41 — Safety circuit breaking off Level 5A

Possible causes

The safety circuit signal is cut off.

Solution

1. Check the safety circuit switches and their states.
2. Check whether the external power supply is normal.
3. Check whether the safety circuit contactor acts properly.
4. Confirm the signal feature (NO, NC) of the feedback contact of the safety circuit contactor.

Err42 — Door lock breaking off during running Level 5A

Possible causes

The door lock circuit feedback is invalid during the elevator running.

Solution

1. Check whether the hall door lock and the car door lock are in good contact.
2. Check whether the door lock contactor acts properly.
3. Check the signal feature (NO, NC) of the feedback contact on the door lock contactor.
4. Check whether the external power supply is normal.

Err43 — Up limit signal abnormal Level 4C

Possible causes

The up limit switch acts when the elevator is running upward.

Solution

1. Check the signal feature (NO, NC) of the up limit switch.
2. Check whether the up limit switch is in good contact.
3. Check whether the limit switch is installed at a relatively low position and acts even when the elevator arrives at the terminal floor normally.

Err44 — Down limit signal abnormal Level 4C

Possible causes

The down limit switch acts when the elevator is running downward.

Solution

1. Check the signal feature (NO, NC) of the down limit switch.
2. Check whether the down limit switch is in good contact.
3. Check whether the limit switch is installed at a relatively high position and thus acts even when the elevator arrives at the terminal floor normally.

Err45 — Slow-down switch position abnormal Level 4B

Possible causes

1. The slow-down signal is abnormal.
2. The obtained slow- down distance is incorrect during shaft auto-tuning.

Solution

1. Check whether the up slow-down 1 and the down slow-down 1 are in good contact.
2. Check the signal feature (NO, NC) of the up slow-down 1 and the down slow-down 1.
3. Ensure that the obtained slow- down distance satisfies the slow- down requirement at the elevator speed.

Err46 — Re-leveling abnormal Level 2B

Possible causes

1. The re-leveling running speed exceeds 0.1 m/s.
2. The elevator is out of the door zone when re- leveling.
3. The feedback of the shorting door lock circuit contactor is abnormal during running.

Solution

1. Check the original and secondary wiring of the shorting door lock circuit relay.
2. Check whether the shorting door lock circuit contactor feedback function is enabled and whether the feedback signal is normal.
3. Check whether the encoder is used properly.

Err47 — Shorting door lock circuit contactor abnormal Level 2B

Possible causes

1. The feedback of the shorting door lock circuit contactor is abnormal when the door pre-open and re-leveling function is enabled.
2. The output of the shorting door lock circuit contactor times out.
3. The elevator speed exceeds the limit during running in the condition that the shorting door lock circuit function is enabled.

Solution

1. Check the signal feature (NO, NC) of the feedback contact on the shorting door lock circuit contactor.
2. Check whether the shorting door lock circuit contactor acts properly.
3. Check whether the elevator running speed at door pre-open or re-leveling is set properly.

Err48 — Door open fault Level 5A

Possible causes

The consecutive times that the door does not open to the limit reaches the setting in Fb-13.

Solution

1. Check whether the door machine system works properly.
2. Check whether the CTB is normal.
3. Check whether the door open limit signal is normal.

Err49 — Door close fault Level 5A

Possible causes

The consecutive times that the door does not open to the limit reaches the setting in Fb-13.

Solution

1. Check whether the door machine system works properly.
2. Check whether the CTB is normal.
3. Check whether the door lock acts properly.

Err51 — CAN communication abnormal Level 1A

Possible causes

Feedback data of CANbus communication with the CTB remains incorrect.

Solution

1. Check the communication cable connection.
2. Check the power supply of the CTB.
3. Check whether the 24 V power supply of the controller is normal.
4. Check whether strong-power interference on communication exists.

Err52 — HCB communication abnormal Level 1A

Possible causes

Feedback data of Modbus communication with the HCB remains incorrect.

Solution

1. Check the communication cable connection.
2. Check whether the 24 V power supply of the controller is normal.
3. Check whether the HCB addresses are repeated.
4. Check whether strong-power interference on communication exists.

Err53 — Door lock fault Level 5A

Possible causes

In the automatic running state, the relevant door lock signal is abnormal.

Solution

1. Check whether the door lock circuit is normal.
2. Check whether the feedback contact of the door lock contactor acts properly.
3. Check whether the system receives the door open limit signal when the door lock signal is valid.
4. Check whether when the hall door lock signal and the car door lock signal are detected separately, the detected states of the hall door locks and car door lock are inconsistent.

Err55 — Stop at another landing floor Level 1A

Possible causes

During automatic running of the elevator, the door open limit is not achieved at the present floor.

Solution

Check the door open limit signal at the present floor.

Err57 — Serial peripheral interface (SPI) communication abnormal Level 5A

Possible causes

The SPI communication is abnormal.

Solution

1. Check the wiring between the control board and the drive board.
2. Contact the agent or Monarch.

Err58 — Shaft position switches abnormal Level 4B

Possible causes

1. The up limit and down limit switches are valid simultaneously.
2. The up slow-down and down slow-down switches are valid simultaneously.

Solution

1. Check whether the states (NO, NC) of the slow-down switches and limit switches are consistent with the parameter setting of the MCB
2. Check whether malfunction of the slow-down switches and limit switches exists.

Appendix — Display codes Err31 & Err88

These two codes appear in the manual but are not entries in the Chapter 9 fault table, so they have no causes / solution list. They are included here so they are not mistaken for faults.

Err31 — status-bar example

In Chapter 4, the manual shows the LCD operator display divided into three areas. The status bar shows the real-time elevator status, and the figure uses “Err31” as the example text in that bar. It is an illustration of the display layout, not a fault entry.

Err88 — test-mode display

In the F8 test-function menu (Chapter 4), after a test setting (hall call forbidden, door open forbidden, overload forbidden, or limit switches disabled) is confirmed with SET, the 7-segment LEDs display “Err88” and blink, to show the elevator is being tested. Pressing PRG to exit returns F8 to 0 automatically. This is a test indicator, not a fault.

End of reference. For full parameter descriptions see Chapter 7 of the NICE3000^{new} User Manual; for installation, wiring and commissioning see Chapters 2, 3 and 5. Source: Monarch by Inovance — NICE3000^{new} User Manual (Monarch Complete Book with Keys & Functions & Errors).

About this book

This volume is a quick reference, not the complete book. It re-presents only the code tables of the NICE3000^{new} User Manual — the function code table (Chapter 6) and the fault troubleshooting table (Chapter 9) — so any code can be found in seconds on site. Full parameter descriptions, installation, wiring and commissioning stay in the complete book.

- Function codes F0–Fr — setting range, default, unit, change property
- Fault codes Err02–Err58 — name, level, possible causes, solution steps
- Keypad keys, three-level menu, fault levels (Levels 1–5)
- Appendix: display codes Err31 & Err88

The complete book: Monarch Complete Book with Keys & Functions & Errors — NICE3000^{new} User Manual, 233 pages (Monarch by Inovance).