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Monarch



Advanced User Guide

NICE3000new Series

Integrated Elevator Controller

User Guide

INOVANCE

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Data code 19010735

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Appendix B Parameter Table

Function Code	Name	Setting Range	Default	Unit	Property	Page
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	-	★	P182
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	☆	P183 to P184
F0-03	Maximum running speed	0.250 to F0-04	1.600	m/s	★	
F0-04	Rated elevator speed	0.250 to 4.000	1.600	m/s	★	
F0-05	Rated elevator load	300 to 9999	1000	kg	★	
F0-06	Maximum frequency	F1-04 to 99.00	50.00	Hz	★	
F0-07	Carrier frequency	0.5 to 16.0	6.0	kHz	★	
Group F1: Motor parameters						
F1-00	Encoder type	0: SIN/COS encoder 1: UVW encoder 2: ABZ incremental encoder 3: Endat absolute encoder	0	-	★	P185
F1-01	Rated motor power	0.7 to 75.0	Model dependent	kW	★	
F1-02	Rated motor voltage	0 to 600	Model dependent	V	★	
F1-03	Rated motor current	0.00 to 655.00	Model dependent	A	★	
F1-04	Rated motor frequency	0.00 to F0-06	Model dependent	Hz	★	
F1-05	Rated motor speed	0 to 3000	Model dependent	RPM	★	
F1-06	Encoder initial angle (synchronous motor)	0.0 to 359.9	0	°	★	
F1-07	Encoder angle at power-off (synchronous motor)	0.0 to 359.9	0	°	★	
F1-08	Synchronous motor wiring mode	0 to 15	0	-	★	
F1-09	Current filter time (synchronous motor)	0.0 to 359.9	0	-	★	P186
F1-10	Encoder verification selection	0 to 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 5: Static auto-tuning	0	-	★	
F1-12	Encoder pulses per revolution	0 to 10000	2048	PPR	★	P187
F1-13	Encoder wire-breaking detection time	0 to 10.0	2.1	s	★	
F1-14	Stator resistance (asynchronous motor)	0.000 to 30.000	Model dependent	Ω	★	
F1-15	Rotor resistance (asynchronous motor)	0.000 to 30.000	Model dependent	Ω	★	
F1-16	Leakage inductance (asynchronous motor)	0.00 to 300.00	Model dependent	mH	★	
F1-17	Mutual inductance (asynchronous motor)	0.1 to 3000.0	Model dependent	mH	★	
F1-18	No-load current (asynchronous motor)	0.01 to 300.00	Model dependent	A	★	
F1-19	Shaft Q inductance (torque)	0.00 to 650.00	3.00	mH	★	
F1-20	Shaft D inductance (excitation)	0.00 to 650.00	3.00	mH	★	
F1-21	Back EMF coefficient	0 to 65535	0	-	★	

Function Code	Name	Setting Range	Default	Unit	Property	Page
F1-22	Auto-tuning function selection	Bit1 = 1, Bit2 = 0: Semi-automatic angle-free auto-tuning Bit1 = 1, Bit2 = 1: Full-automatic angle-free auto-tuning	0	-	★	P188
F1-25	Motor type	0: Asynchronous motor 1: Synchronous motor	1	-	★	
Group F2: Vector control parameters						
F2-00	Speed loop proportional gain 1	0 to 100	40	-	★	P188 to P189
F2-01	Speed loop integral time 1	0.01 to 10.00	0.60	s	★	
F2-02	Switchover frequency 1	0.00 to F2-05	2.00	Hz	★	
F2-03	Speed loop proportional gain 2	0 to 100	35	-	★	
F2-04	Speed loop integral time 2	0.01 to 10.00	0.80	s	★	
F2-05	Switchover frequency 2	F2-02 to F0-06	5.00	Hz	★	
F2-06	Current loop proportional gain	10 to 500	60	-	★	
F2-07	Current loop integral gain	10 to 500	30	-	★	
F2-08	Torque upper limit	0.0 to 200.0	200.0	%	★	P189 to P190
F2-10	Elevator running direction	0: Direction unchanged 1: Direction reversed	0	-	★	
F2-11	Zero servo current coefficient	2.0 to 50.0	15.0	%	★	
F2-12	Zero servo speed loop Kp	0.00 to 2.00	0.50	-	★	
F2-13	Zero servo speed loop Ti	0.00 to 2.00	0.60	-	★	
F2-16	Torque acceleration time	1 to 500	1	ms	★	
F2-17	Torque deceleration time	1 to 3000	350	ms	★	
Group F3: Running control parameters						
F3-00	Startup speed	0.000 to 0.050	0.000	m/s	★	P191 to P192
F3-01	Startup speed holding time	0.000 to 5.000	0.000	s	★	
F3-02	Acceleration rate	0.200 to 1.500	0.700	m/s2	★	
F3-03	Acceleration start jerk time	0.300 to 4.000	1.500	s	★	
F3-04	Acceleration end jerk time	0.300 to 4.000	1.500	s	★	
F3-05	Deceleration rate	0.200 to 1.500	0.700	m/s2	★	
F3-06	Deceleration end jerk time	0.300 to 4.000	1.500	s	★	
F3-07	Deceleration start jerk time	0.300 to 4.000	1.500	s	★	
F3-08	Special deceleration rate	0.200 to 1.500	0.900	m/s2	★	
F3-09	Pre-deceleration distance	0 to 90.0	0.0	mm	★	P193
F3-10	Re-leveling speed	0.020 to 0.080	0.040	m/s	★	
F3-11	Inspection speed	0.100 to 0.630	0.250	m/s	★	
F3-12	Position of up slow-down 1	0.00 to 300.00	0.00	m	★	
F3-13	Position of down slow-down 1	0.00 to 300.00	0.00	m	★	
F3-14	Position of up slow-down 2	0.00 to 300.00	0.00	m	★	
F3-15	Position of down slow-down 2	0.00 to 300.00	0.00	m	★	
F3-16	Position of up slow-down 3	0.00 to 300.00	0.00	m	★	
F3-17	Position of down slow-down 3	0.00 to 300.00	0.00	m	★	
F3-18	Zero-speed control time at startup	0.200 to 1.000	0.200	s	★	P194
F3-19	Brake release delay	0.000 to 2.000	0.600	s	★	
F3-20	Zero-speed control time at end	0.000 to 1.000	0.300	s	★	
F3-21	Low-speed re-leveling speed	0.080 to F3-11	0.100	m/s	★	P194 to P195
F3-22	Acceleration rate at emergency evacuation	0.100 to 1.300	0.300	m/s2	★	
F3-23	Slow-down delay deceleration time	0.00 to 10.00	0	s	★	
F3-24	Program function selection	0: Reserved 1: Slip experiment function enabled 2: UCMP test function enabled	0	-	★	
F3-25	Emergency electric RUN speed	0.100 to 0.300	0.250	m/s	★	
F3-26	Shaft auto-tuning speed	0.250 to 0.630	0.250	m/s	★	

Function Code	Name	Setting Range	Default	Unit	Property	Page
Group F4: Floor parameters						
F4-00	Leveling adjustment	0 to 60	30	mm	★	P196
F4-01	Current floor	F6-01 to F6-00	1	-	★	
F4-02	High byte of current floor position	0 to 65535	1	Pulses	●	
F4-03	Low byte of current floor position	0 to 65535	34464	Pulses	●	
F4-04	Length 1 of leveling plate	0 to 65535	0	Pulses	★	
F4-05	Length 2 of leveling plate	0 to 65535	0	Pulses	★	
F4-06	High byte of floor height 1	0 to 65535	0	Pulses	★	P197
F4-07	Low byte of floor height 1	0 to 65535	0	Pulses	★	
F4-08	High byte of floor height 2	0 to 65535	0	Pulses	★	
F4-09	Low byte of floor height 2	0 to 65535	0	Pulses	★	
F4-10	High byte of floor height 3	0 to 65535	0	Pulses	★	
F4-11	Low byte of floor height 3	0 to 65535	0	Pulses	★	
F4-12	High byte of floor height 4	0 to 65535	0	Pulses	★	
F4-13	Low byte of floor height 4	0 to 65535	0	Pulses	★	
F4-14	High byte of floor height 5	0 to 65535	0	Pulses	★	
F4-15	Low byte of floor height 5	0 to 65535	0	Pulses	★	
F4-16	High byte of floor height 6	0 to 65535	0	Pulses	★	
F4-17	Low byte of floor height 6	0 to 65535	0	Pulses	★	
F4-18	High byte of floor height 7	0 to 65535	0	Pulses	★	
F4-19	Low byte of floor height 7	0 to 65535	0	Pulses	★	
F4-20	High byte of floor height 8	0 to 65535	0	Pulses	★	
F4-21	Low byte of floor height 8	0 to 65535	0	Pulses	★	
F4-22	High byte of floor height 9	0 to 65535	0	Pulses	★	
F4-23	Low byte of floor height 9	0 to 65535	0	Pulses	★	
F4-24	High byte of floor height 10	0 to 65535	0	Pulses	★	
F4-25	Low byte of floor height 10	0 to 65535	0	Pulses	★	
High and low bytes of floor height 11 to floor height 37						
F4-80	High byte of floor height 38	0 to 65535	0	Pulses	★	P197
F4-81	Low byte of floor height 38	0 to 65535	0	Pulses	★	
F4-82	High byte of floor height 39	0 to 65535	0	Pulses	★	
F4-83	Low byte of floor height 39	0 to 65535	0	Pulses	★	

Function Code	Name	Setting Range	Default	Unit	Property	Page
Group F5: Terminal function parameters						
F5-00	Attendant/Automatic switchover time	3 to 200	3	s	★	P197 to P200
F5-01	X1 function selection	00: Invalid 01/33: Up leveling signal NO/NC 03/35: Door zone signal NO/NC 02/34: Down leveling signal NO/NC 04/36: Safety circuit feedback NO/NC 05/37: Door lock circuit feedback NO/NC 06/38: RUN contactor feedback NO/NC 07/39: Brake contactor feedback NO/NC 08/40: Inspection signal NO/NC 09/41: Inspection/emergency drive up signal NO/NC 10/42: Inspection/emergency drive down signal NO/NC 11/43: Fire emergency signal NO/NC 12/44: Up limit signal NO/NC 13/45: Down limit signal NO/NC 14/46: Overload signal NO/NC 15/47: Full-load signal NO/NC 16/48: Up slow-down 1 signal NO/NC 17/49: Down slow-down 1 signal NO/NC 18/50: Up slow-down 2 signal NO/NC 19/51: Down slow-down 2 signal NO/NC 20/52: Up slow-down 3 signal NO/NC 21/53: Down slow-down 3 signal NO/NC 22/54: Shorting door lock circuit contactor feedback NO/NC 23/55: Firefighter running signal NO/NC 24/56: Door machine 1 light curtain signal NO/NC 25/57: Door machine 2 light curtain signal NO/NC 26/58: Brake travel switch 1 NO/NC 27/59: Emergency evacuation signal NO/NC 28/60: Elevator lock signal NO/NC 29/61: Safety circuit 2 feedback NO/NC 30/62: Shorting PMSM stator feedback NO/NC 31/63: Door lock circuit 2 feedback NO/NC 65/97: Door machine 1 safety edge signal NO/NC 66/98: Door machine 2 safety edge signal NO/NC 67/99: Motor overheat signal NO/NC 68/100: Earthquake signal NO/NC 69/101: Back door forbidden signal NO/NC 70/102: Light-load signal NO/NC 71/103: Half-load signal NO/NC 72/104: Fire emergency floor switchover signal NO/NC 76/108: Door 1 open input NO/NC 77/109: Door 2 open input NO/NC 78/110: Brake travel switch 2 input NO/NC 79/111: External fault input NO/NC 80/112: End floor verification signal NO/NC 81/113: Door lock 1 shorting signal NO/NC 82/114: Door lock 2 shorting signal NO/NC 84/116: Emergency drive signal NO/NC 86/118: Door lock bypass input NO/NC Note: For the same signal, NC setting parameter = NO setting parameter + 32	33	-	★	
F5-02	X2 function selection		35	-	★	
F5-03	X3 function selection		34	-	★	
F5-04	X4 function selection		4	-	★	
F5-05	X5 function selection		5	-	★	
F5-06	X6 function selection		38	-	★	
F5-07	X7 function selection		39	-	★	
F5-08	X8 function selection		22	-	★	
F5-09	X9 function selection		40	-	★	
F5-10	X10 function selection		09	-	★	
F5-11	X11 function selection		10	-	★	
F5-12	X12 function selection		44	-	★	
F5-13	X13 function selection		45	-	★	
F5-14	X14 function selection		48	-	★	
F5-15	X15 function selection		49	-	★	
F5-16	X16 function selection		50	-	★	
F5-17	X17 function selection		51	-	★	
F5-18	X18 function selection		00	-	★	
F5-19	X19 function selection		00	-	★	
F5-20	X20 function selection		00	-	★	
F5-21	X21 function selection		00	-	★	
F5-22	X22 function selection		00	-	★	
F5-23	X23 function selection		00	-	★	
F5-24	X24 function selection		00	-	★	

Function Code	Name	Setting Range	Default	Unit	Property	Page
F5-25	CTB input type	0 to 511	320	-	★	P204 to 206
F5-26	Y1 function selection	0: Disabled 1: RUN contactor 2: Brake contactor 3: Shorting door lock circuit contactor 4: Fire emergency floor arrival signal feedback 5: Door machine 1 open 6: Door machine 1 close 7: Door machine 2 open 8: Door machine 2 close 9: Brake and RUN contactors healthy 10: Fault state 11: Running state 12: Shorting motor stator contactor 13: Emergency evacuation automatic switchover 14: System healthy 15: Emergency buzzer control 16: Higher-voltage startup of brake 17: Elevator running in up direction 18: Lamp/Fan running 19: Medical sterilization 20: Non-door zone stop 21: Electric lock 22: Non-service state 23: Emergency evacuation completed 25: Wire holder reset 26: Braking pipe short circuit output 27: Alarm filter output	1	-	★	
F5-27	Y2 function selection		2	-	★	
F5-28	Y3 function selection		3	-	★	
F5-29	Y4 function selection		4	-	★	
F5-30	Y5 function selection		0	-	★	
F5-31	Y6 function selection		0	-	★	
F5-32	Communication status	CANbus and Modbus communication state monitoring	-	-	●	P200 to P208
F5-33	F5-33 Program control selection	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 canceled 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 HCB	-	-	●	
F5-36	Load cell input selection	0: MCB digital input 1: CTB digital input 2: CTB analog input 3: MCB analog input	1	-	★	
F5-37	X25 function selection	0: Invalid 4: Safety circuit signal 5: Door lock circuit signal 1 (high-voltage input detection point, checkable) 6: Door lock circuit signal 2 (high-voltage input detection point, checkable) 7: Door lock 1 shorting 8: Door lock 2 shorting	0	-	★	
F5-38	X26 function selection		0	-	★	
F5-39	X27 function selection		0	-	★	
F5-40	X28 function selection		0	-	★	
Group F6: Basic elevator parameters						
F6-00	Top floor of the elevator	F6-01 to 40	9	-	★	P209 to P211
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 to 65535	65535	-	★	
F6-06	Service floors 2	0 to 65535	65535	-	★	

Function Code	Name	Setting Range	Default	Unit	Property	Page
F6-07	Number of elevators in parallel/ group mode	1 to 8	1	-	★	P212 to P213
F6-08	Elevator No.	1 to 8	1	-	★	
F6-09	Program control selection	Bit0: Dispersed waiting Bit2: Reserved Bit3: Parallel/Group control implemented at CAN2 Bit4: Group control in compatibility with NICE3000 Bit6: Clear floor number and display direction in advance Bit8: Unidirectional hall call (single hall call button) Bit9: Not detecting analog wire breaking Bit10: Err30 judgment at re-leveling cancellation Bit14: Time interval detection of safety circuit 2 and door lock circuit 2 (1.5s)	0	-	★	
F6-10	Leveling switch filter time	10 to 50	14	ms	★	
F6-11	Elevator function selection 2	Bit1: Disabling returning to base floor for verification Bit2: Canceling 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 once after the first power-on 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	-	★	P214
F6-13	Security floor	0 to F6-00	0	-	★	
F6-14	Start time of down collective selective 1	00.00 to 23.59	00.00	HH.MM	☆	
F6-15	End time of down collective selective 1	00.00 to 23.59	00.00	HH.MM	☆	
F6-16	Start time of down collective selective 2	00.00 to 23.59	00.00	HH.MM	☆	
F6-17	End time of down collective selective 2	00.00 to 23.59	00.00	HH.MM	☆	
F6-18	Start time of time-based floor service 1	00.00 to 23.59	00.00	HH.MM	☆	P215
F6-19	End time of time-based floor service 1	00.00 to 23.59	00.00	HH.MM	☆	
F6-20	Service floor 1 of time-based floor service 1	0 to 65535	65535	-	☆	
F6-21	Service floor 2 of time-based floor service 1	0 to 65535	65535	-	☆	
F6-22	Start time of time-based floor service 2	00.00 to 23.59	00.00	HH.MM	☆	
F6-23	End time of time-based floor service 2	00.00 to 23.59	00.00	HH.MM	☆	
F6-24	Service floor 1 of time-based floor service 2	0 to 65535	65535	-	☆	
F6-25	Service floor 2 of time-based floor service 2	0 to 65535	65535	-	☆	
F6-26	Peak 1 start time for parallel/ group control	00.00 to 23.59	00.00	HH.MM	☆	
F6-27	Peak 1 end time for parallel/ group control	00.00 to 23.59	00.00	HH.MM	☆	

Function Code	Name	Setting Range	Default	Unit	Property	Page
F6-28	Peak 1 floor	F6-01 to F6-00	1	-	★	P215
F6-29	Peak 2 start time for parallel/ group control	00.00 to 23.59	00.00	HH.MM	☆	
F6-30	Peak 2 end time for parallel/ group control	00.00 to 23.59	00.00	HH.MM	☆	
F6-31	Peak 2 floor	F6-01 to F6-00	1	-	★	
F6-35	Service floors 3	0 to 65535	65535	-	☆	P215
F6-36	Service floor 3 of time-based floor service 1	0 to 65535	65535	-	☆	P216
F6-37	Service floor 3 of time-based floor service 2	0 to 65535	65535	-	☆	
F6-38	Elevator lock start time	00.00 to 23.59	00.00	HH.MM	☆	
F6-39	Elevator lock end time	00.00 to 23.59	00.00	HH.MM	☆	
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: Reserved 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 (switch)	0	-	★	P216 to P219
F6-41	Program control selection 2	Bit2: Inspection to stop due to slow-down Bit4: Buzzer tweet during door open delay Bit6: Canceling 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: Canceling 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 Bit4: Returning to base floor for verification at first-time power-on Bit5: Clearing calls immediately at elevator lock Bit6: Electric lock NC Bit8: Canceling door open/close limit detection Bit9: Canceling scrolling display of faults Bit10: Door open energy-saving Bit11: Independent switch separated from parallel connection	0	-	★	

Function Code	Name	Setting Range	Default	Unit	Property	Page
F6-43	Attendant function selection	Bit0: Calls canceled 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 tweeting at intervals in attendant state Bit6: Buzzer tweeting at intervals in attendant state Bit7: Car call button blinking to prompt	128	-	★	P220 to P221
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: Reserved Bit8: Door close at car call registering Bit9: Displaying hall calls in fire emergency state Bit10: Firefighter forced running Bit11: Exiting firefighter state upon arrival at fire emergency floor Bit12: Not clearing car calls at reverse door open in firefighter running state Bit14: Opening door by holding down the door open button Bit15: Automatic door open at fire emergency floor	16456	-	★	
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 (Otherwise, stopping at the nearest service floor) Bit3: Reserved Bit4: Compensation at startup (Whether to be valid in emergency evacuation running) Bit8: Emergency running time protection Bit10: Emergency buzzer output Bit12: Shorting stator braking mode switched over to controller drive Bit14: Emergency evacuation exit mode (1: Exit at door close limit, 0: Exit at door open limit) Bit15: Shorting stator braking function	0	-	★	P222 to P223
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	-	★	P223
F6-47	Blinking advance time	0.0 to 15.0	1.0	s	☆	
F6-48	Emergency evacuation switching speed	0.010 to 0.630	0.010	m/s	★	
F6-49	Evacuation parking floor	0 to F6-00	0	-	★	P224
F6-50	Parallel floor offset	0 to 40	0	-	★	
F6-51	Static current	0.00 to 655.00	0	A	★	
F6-52	Program function selection	Bit2: CAN communication AFE support Bit6: CAN communication leveling signal Bit7: Door machine overheat detection	0	-	★	

Function Code	Name	Setting Range	Default	Unit	Property	Page
Group F7: Test function parameters						
F7-00	Car call floor registered	0 to F6-00	0	-	☆	P225
F7-01	Up hall call floor registered	0 to F6-00	0	-	☆	
F7-02	Down hall call floor registered	0 to F6-00	0	-	☆	
F7-03	Random running times	0 to 60000	0	-	☆	
F7-04	Hall call enabled	0: No 1: Yes	0	-	☆	
F7-05	Door open enabled	0: No 1: Yes	0	-	☆	
F7-06	Overload function	0: Disabled 1: Enabled	0	-	☆	P226
F7-07	Limit function	0: Enabled 1: Disabled	0	-	☆	
F7-08	Time interval of random running	0 to 1000	0	s	☆	
F7-09	Braking force test result	O: Insignificant 1: Pass 2: Fail	0	-	●	
F7-10	Countdown for braking force detection period	0 to 1440	1440	min	★	
Group F8: Enhanced function parameters						
F8-00	Load for load cell auto-tuning	0 to 100	0	%	★	P227
F8-01	Pre-torque selection	0: Invalid 1: Load cell pre-torque compensation 2: Automatic pre-torque compensation 3: Weighing pre-torque and automatic compensation both in effect	2	-	★	
F8-02	Pre-torque offset	0.0 to 100.0	50.0	%	★	
F8-03	Drive gain	0.00 to 2.00	0.60	-	★	P228
F8-04	Brake gain	0.00 to 2.00	0.60	-	★	
F8-05	Current car load	0 to 255	0	-	●	
F8-06	Car no-load load	0 to 255	0	-	★	
F8-07	Car full-load load	0 to 255	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	-	☆	
F8-09	Emergency evacuation operation speed at power failure	0.020 to F3-11	0.050	m/s	★	P229 to P230
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 release delay	0.200 to 1.500	0.600	s	★	
F8-12	Fire emergency floor 2	0 to F6-00	0	-	★	
F8-14	HCB communication setting	Bit0: HCB communication baud rate Bit4: Energy saving of HCB communication Bit9: Faint light control of HCB buttons	0	-	☆	
F8-15	CAN Communication setting	Bit10: Door open/close button not controlled by the IC card	0	-	☆	
F8-16	Start address of hall call auxiliary command	0 to 40	0	-	☆	
F8-17	Hall call address check	0 to 1	0	-	☆	
Group F9: Time parameters						
F9-00	Idle time before returning to base floor	0 to 240	10	min	☆	P230
F9-01	Car energy-saving time	0 to 240	2	min	☆	
F9-02	Motor running time limit	0 to 45	45	s	★	

Function Code	Name	Setting Range	Default	Unit	Property	Page
F9-03	Clock: year	2000 to 2100	Current time	YYYY	☆	P231
F9-04	Clock: month	1 to 12	Current time	MM	☆	
F9-05	Clock: day	1 to 31	Current time	DD	☆	
F9-06	Clock: hour	0 to 23	Current time	HH	☆	
F9-07	Clock: minute	0 to 59	Current time	MM	☆	
F9-09	Accumulative running time	0 to 65535	0	h	●	
F9-11	High byte of running times	0 to 9999	0	-	●	
F9-12	Low byte or running times	0 to 9999	0	-	●	
F9-13	Maintenance notification period	0 to 99	0	day	★	
Group FA: Keypad setting parameters						
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	-	☆	P232
FA-01	Display in running state	1 to 65535	65535	-	☆	
FA-02	Display in stop state	1 to 65535	65535	-	☆	P233
FA-03	Current encoder angle	0.0 to 359.9	0.0	Degree (°)	●	P234 to P236
FA-05	MCB board software	0 to 65535	0	-	●	
FA-06	Drive board software	0 to 65535	0	-	●	
FA-07	Heatsink temperature	0 to 100	0	°C	●	
FA-11	Pre-torque current	0.0 to 200.0	0	%	●	
FA-12	Logic information	0 to 65535	0	-	●	
FA-13	Curve information	0 to 65535	0	-	●	P236 to P237
FA-14	Set speed	0.000 to 4.000	0	m/s	●	
FA-15	Feedback speed	0.000 to 4.000	0	m/s	●	
FA-16	Bus voltage	0 to 999.9	0	V	●	
FA-17	Current position	0.0 to 300.0	0	m	●	
FA-18	Output current	0.0 to 999.9	0	A	●	
FA-19	Output frequency	0.00 to 99.99	0	Hz	●	
FA-20	Torque current	0.0 to 999.9	0	A	●	
FA-21	Output Voltage	0 to 999.9	0	V	●	
FA-22	Output torque	0 to 100	0	%	●	
FA-23	Output power	0.00 to 99.99	0	kW	●	
FA-24	Communication interference	0 to 65535	0	-	●	
FA-26	Input state 1	0 to 65535	0	-	●	P237 to P240
FA-27	Input state 2	0 to 65535	0	-	●	
FA-28	Input state 3	0 to 65535	0	-	●	
FA-30	Input state 5	0 to 65535	0	-	●	
FA-31	Output state 1	0 to 65535	0	-	●	
FA-32	Output state 2	0 to 65535	0	-	●	
FA-33	Car input state	0 to 65535	0	-	●	P240
FA-34	Car output state	0 to 65535	0	-	●	
FA-35	Hall sate	0 to 65535	0	-	●	P241
FA-36	System state 1	0 to 65535	0	-	●	
FA-37	System state 2	0 to 65535	0	-	●	
FA-38	Maximum floor running time interval	0 to 200	0	s	●	P242
FA-46	Hall call communication state 1	0–65535 (floors 1–16)	0	-	●	P242
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	-	●	
FA-50	Expansion board hall call communication state 1	0–65535 (floors 1–16)	0	-	●	
FA-51	Expansion board hall call communication state 2	0–65535 (floors 17–32)	0	-	●	
FA-52	Expansion board hall call communication state 3	0–65535 (floors 33–40)	0	-	●	

Function Code	Name	Setting Range	Default	Unit	Property	Page
FA-58	Version display selection	0: Machine-room-less monitoring board version 1: Equipment room expansion board version 2: Car expansion board version 3: ARD version 4: AFE master version 5: AFE slave version	0	-	☆	P243
FA-59	Expansion board software version	0 to 65535	0	-	●	
Group Fb: Door function parameters						
Fb-00	Number of door machine(s)	1 to 2	1	-	★	P243
Fb-01	CTB software	00 to 999	0	-	●	
Fb-02	Door machine 1 service floors 1	0 to 65535	65535	-	☆	P244
Fb-03	Door machine 1 service floors 2	0 to 65535	65535	-	☆	
Fb-04	Door machine 2 service floors 1	0 to 65535	65535	-	☆	
Fb-05	Door machine 2 service floors 2	0 to 65535	65535	-	☆	
Fb-06	Door open protection time	5 to 99	10	s	☆	
Fb-07	Arrival gong output delay	0 to 1000	0	ms	☆	
Fb-08	Door close protection time	5 to 99	15	s	☆	
Fb-09	Door open/close protection times	0 to 20	0	-	☆	P245
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 to 1000	5	s	☆	
Fb-12	Door open holding time for car call	1 to 1000	3	s	☆	
Fb-13	Door open holding time at base floor	1 to 1000	10	s	☆	
Fb-14	Door open delay	10 to 1000	30	s	☆	
Fb-15	Special door open holding time	10 to 1000	30	s	☆	P246
Fb-16	Manual door open holding time	1 to 60	5	s	☆	
Fb-17	Holding time for forced door close	5 to 180	120	s	☆	
Fb-18	Door machine 1 service floors 3	0 to 65535	65535	-	☆	
Fb-19	Door machine 2 service floors 3	0 to 65535	65535	-	☆	
Fb-20	Manual door lock waiting time	0 to 60	0	-	☆	
Fb-24	UCMP test program version	0 to 65535	1	-	●	
Group FC: Protection function parameters						
FC-00	F5-33 Program control selection	Bit0: Detection of short circuit to ground at power-on Bit2: Decelerating to stop at valid light curtain Bit9: Mode without door open/close limit	0	-	★	P246 to P247
FC-01	Function selection	Bit0: Overload protection Bit1: Canceling protection at output phase loss Bit4: Light curtain judgment at door close limit Canceling DSP communication test Bit14: Canceling protection at input phase loss	65	-	★	

Function Code	Name	Setting Range	Default	Unit	Property	Page
FC-02	Overload protection coefficient	0.50 to 10.00	1.00	-	★	P248
FC-03	Overload pre-warning coefficient	50 to 100	80	%	★	
FC-04	Opposite door selection	0 to 3	0	-	★	
FC-11	11th fault code	0 to 9999	0	-	●	
FC-12	11th fault subcode	0 to 65535	0	-	●	
FC-13	11th fault month and day	0 to 1231	0	MM.DD	●	
FC-14	11th fault hour and minute	0 to 23.59	0	HH.MM	●	
FC-15	12th fault code	0 to 9999	0	-	●	
FC-16	12th fault subcode	0 to 65535	0	-	●	
FC-17	12th fault month and day	0 to 1231	0	MM.DD	●	
FC-18	12th fault hour and minute	0 to 23.59	0	HH.MM	●	
FC-19	13th fault code	0 to 9999	0	-	●	
FC-20	13th fault subcode	0 to 65535	0	-	●	
FC-21	13th fault month and day	0 to 1231	0	MM.DD	●	
FC-22	13th fault hour and minute	0 to 23.59	0	HH.MM	●	
FC-23	14th fault code	0 to 9999	0	-	●	
FC-24	14th fault subcode	0 to 65535	0	-	●	
FC-25	14th fault month and day	0 to 1231	0	MM.DD	●	
FC-26	14th fault hour and minute	0 to 23.59	0	HH.MM	●	
FC-27	15th fault code	0 to 9999	0	-	●	P248 to P249
FC-28	15th fault subcode	0 to 65535	0	-	●	
FC-29	15th fault month and day	0 to 1231	0	MM.DD	●	
FC-30	15th fault hour and minute	0 to 23.59	0	HH.MM	●	
FC-31	16th fault code	0 to 9999	0	-	●	
FC-32	16th fault subcode	0 to 65535	0	-	●	
FC-33	16th fault month and day	0 to 1231	0	MM.DD	●	
FC-34	16th fault hour and minute	0 to 23.59	0	HH.MM	●	
FC-207	60th fault code	0 to 9999	0	-	●	
FC-208	60th fault subcode	0 to 65535	0	-	●	
FC-209	60th fault month and day	0 to 1231	0	MM.DD	●	
FC-210	60th fault hour and minute	0 to 23.59	0	HH.MM	●	
Group Fd: Communication parameters						
Fd-00	Baud rate	0: 9600 1: 38400	1	-	★	P249
Fd-02	Local address	0 to 127	1	-	★	
Fd-03	Communication response delay	0 to 20	0	ms	★	
Fd-04	Communication timeout	0 to 60.0	0.0	s	★	
Fd-05	Re-leveling stop delay	0.00 to 2.00	0.00	s	★	

Function Code	Name	Setting Range	Default	Unit	Property	Page
Fd-07	HCB: JP1 input	0: Invalid 1: Elevator lock signal 2: Fire emergency signal 3: Present floor forbidden 4: VIP floor signal 5: Security floor signal 6 Door close button signal 7: Second fire emergency floor signal	1	-	★	P250
Fd-08	HCB: JP2 input		2	-	★	
Fd-09	HCB: JP1 output	0: Invalid 1: Up arrival indicator 2: Down arrival indicator 3: Fault output 4: Non-door zone stop output 5: Non-service state output 6: Door close button indicator output	1	-	★	
Fd-10	HCB: JP2 output		2	-	★	
Fd-11	Expansion board 1: X1 input	0: Reserved 1: Fire emergency signal 2: Overload signal 3: Full-load signal 4: Firefighter operation 5: Door machine 1 light curtain signal 6: Door machine 2 light curtain signal 7: Brake travel switch feedback 8: UPS valid signal 9: Elevator lock signal 10: Safety circuit signal 2 11: Synchronous motor self-lock feedback 12: Door lock circuit 2 feedback 13: Door machine 1 safety edge signal 14: Door machine 2 safety edge signal 15: Motor overheat signal # 16: Earthquake signal 17: Back door forbidden # 18: Light-load signal # 19: Half-load signal # 20: Fire emergency floor switchover 21: False floor signal 22: Door 1 open 23: Door 2 open 24: Brake travel switch 2 feedback 25: External fault 26: End floor signal 27: Door 2 selection 28: Single/Double door selection NO input NC point + 32	0	-	★	P251
Fd-12	Expansion board 1: X2 input		0	-	★	
Fd-13	Expansion board 1: X3 input		0	-	★	
Fd-14	Expansion board 1: X4 input		0	-	★	
Fd-15	Expansion board 1: X5 input		0	-	★	
Fd-16	Expansion board 1: X6 input		0	-	★	
Fd-17	Expansion board 1: X7 input		0	-	★	
Fd-18	Expansion board 1: X8 input		0	-	★	
Fd-19	Expansion board 1: X9 input		0	-	★	
Fd-20	Expansion board 1: X10 input		0	-	★	
Fd-21	Expansion board 2: X1 input		0	-	★	
Fd-22	Expansion board 2: X2 input		0	-	★	
Fd-23	Expansion board 2: X3 input		0	-	★	
Fd-24	Expansion board 2: X4 input		0	-	★	
Fd-25	Expansion board 2: X5 input		0	-	★	
Fd-26	Expansion board 2: X6 input		0	-	★	
Fd-27	Expansion board 2: X7 input		0	-	★	
Fd-28	Expansion board 2: X8 input		0	-	★	
Fd-29	Expansion board 2: X9 input		0	-	★	
Fd-30	Expansion board 2: X10 input		0	-	★	

Function Code	Name	Setting Range	Default	Unit	Property	Page
Fd-31	Expansion board 1: Y1 output	0: Reserved 1: Door machine 1 open 2: Door machine 1 close 3: Door machine 2 open 4: Door machine 2 close 5: Brake and RUN contactors healthy (no faults E37 and E36) 6: Fault state 7: Running monitoring 8: Synchronous motor self-lock output 9: Controller healthy 10: Buzzer tweet 11: Higher-voltage startup of brake (continuous 4s) 12: Elevator running in up direction 13: Lamp/Fan running 14: Medical sterilization # 15: Non-door zone stop # 16: Electric lock # 17: Non-service state 18: Emergency evacuation completed 19: Fire emergency operation 20: Power failure emergency output 21: Door lock valid 22: Night output signal	0	-	★	P252
Fd-32	Expansion board 1: Y2 output		0	-	★	
Fd-33	Expansion board 1: Y3 output		0	-	★	
Fd-34	Expansion board 1: Y4 output		0	-	★	
Fd-35	Expansion board 1: Y5 output		0	-	★	
Fd-36	Expansion board 1: Y6 output		0	-	★	
Fd-37	Expansion board 1: Y7 output		0	-	★	
Fd-38	Expansion board 1: Y8 output		0	-	★	
Fd-39	Expansion board 1: Y9 output		0	-	★	
Fd-40	Expansion board 1: Y10 output		0	-	★	
Fd-41	Expansion board 2: Y1 output		0	-	★	
Fd-42	Expansion board 2: Y2 output		0	-	★	
Fd-43	Expansion board 2: Y3 output		0	-	★	
Fd-44	Expansion board 2: Y4 output		0	-	★	
Fd-45	Expansion board 2: Y5 output		0	-	★	
Fd-46	Expansion board 2: Y6 output		0	-	★	
Fd-47	Expansion board 2: Y7 output		0	-	★	
Fd-48	Expansion board 2: Y8 output		0	-	★	
Fd-49	Expansion board 2: Y9 output		0	-	★	
Fd-50	Expansion board 2: Y10 output		0	-	★	
Group FE: Elevator function parameters						
FE-00	Collective selective mode	0: Full collective selective 1: Down collective selective 2: Up collective selective	0	-	★	P253

Function Code	Name	Setting Range	Default	Unit	Property	Page
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 unit's digit. The relation between the code and the display is as follows: 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: Display "B" 12: Display "G" 13: Display "H" 14: Display "L" 15: Display "M" 16: Display "P" 17: Display "R" 18: Display "-" 19: No display 20: Display "12" 21: Display "13" 22: Display "23" 23: Display "C" 24: Display "D" 25: Display "E" 26: Display "F" 27: Display "I" 28: Display "J" 29: Display "K" 30: Display "N" 31: Display "O" 32: Display "Q" 33: Display "S" 34: Display "T" 35: Display "U" 36: Display "V" 37: Display "W" 38: Display "X" 39: Display "Y" 40: Display "Z" 41: Display "15" 42: Display "17" 43: Display "19"	1901	-	☆	P253
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	-	☆	
FE-07	Floor 7 display		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	Floor 12 display		0102	-	☆	
FE-13	Floor 13 display		0103	-	☆	
FE-14	Floor 14 display		0104	-	☆	
FE-15	Floor 15 display		0105	-	☆	
Floor 16 to 30 display			...			
FE-31	Floor 31 display		0301	-	☆	
FE-35	Floor 32 display		0302	-	☆	
FE-36	Floor 33 display		0303	-	☆	
FE-37	Floor 34 display		0304	-	☆	
FE-38	Floor 35 display		0305	-	☆	
FE-39	Floor 36 display		0306	-	☆	
FE-40	Floor 37 display		0307	-	☆	
FE-41	Floor 38 display		0308	-	☆	
FE-42	Floor 39 display		0309	-	☆	
FE-43	Floor 40 display		0400	-	☆	
FE-52	Highest digit selection 1		0	-	☆	P254
FE-53	Highest digit selection 2		0	-	☆	
FE-54	Highest digit selection 3		0	-	☆	
FE-55	Highest digit selection 4		0	-	☆	
FE-56	Highest digit selection 5		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/Group control peak service Bit8: Time-based service floor function Bit9: VIP function Bit11: Car call deletion Bit12: Reserved	34816	-	☆	P254 to P255

Function Code	Name	Setting Range	Default	Unit	Property	Page
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 Bit15: Opposite door independent control	36	-	☆	P255 to P256
FF: Factory Parameters						
FJ: Factory Parameters						
Group FP: User parameters						
FP-00	User password	0: No password 01 to 65535	0	-		P257
FP-01	Parameter update	0: No operation 1: Restore default setting (except group F1) 2: Clear fault records 3: Clear shaft data	0	-		
FP-02	User-defined parameter display	0: Invalid 1: Valid	0	-		
FP-05	Contract No. 2	0 to 65535	0	-		P258
FP-06	Contract No. 1	0 to 65535	5555	-		
Group Fr: Leveling adjustment parameters						
Fr-00	Leveling adjustment function	0: Invalid 1: Enabled	0	-		P258 to P259
Fr-01	Leveling adjustment record 1	0 to 60060	30030	mm		
to	to	0 to 60060	30030	mm		
Fr-20	Leveling adjustment record 20	0 to 60060	30030	mm		
Group E0: Details of last group of faults						
E0-00	Last fault code	0 to 9999	0			P259 to P260
E0-01	Last fault subcode	0 to 65535	0			
E0-02	Last fault month and day	0 to 1231	0	MM.DD		
E0-03	Last fault hour and minute	0 to 23.59	0	HH.MM		
E0-04	Last fault logic information	0 to 65535	0			
E0-05	Last fault curve information	0 to 65535	0			
E0-06	Speed reference upon last fault	0.000 to 4.000	0	m/s		
E0-07	Feedback speed upon last fault	0.000 to 4.000	0	m/s		
E0-08	Bus voltage upon last fault	0 to 999.9	0	V		
E0-09	Present position upon last fault	0.0 to 300.0	0	m		
E0-10	Output current upon last fault	0.0 to 999.9	0	A		
E0-11	Output frequency upon last fault	0.00 to 99.99	0	Hz		
E0-12	Torque current upon last fault	0.0 to 999.9	0	A		
E0-13	Output voltage upon last fault	0 to 999.9	0	V		
E0-14	Output torque upon last fault	0 to 200.0	0	%		
E0-15	Output power upon last fault	0.00 to 99.99	0	kW		P261
E0-16	Communication interference upon last fault	0 to 65535	0			
E0-17	Encoder interference upon last fault	0 to 65535	0			
E0-18	Input state 1 upon last fault	0 to 65535	0			
E0-19	Input state 2 upon last fault	0 to 65535	0			
E0-20	Input state 3 upon last fault	0 to 65535	0			
E0-21	Input state 4 upon last fault	0 to 65535	0			
E0-22	Input state 5 upon last fault	0 to 65535	0			
E0-23	Output state 1 upon last fault	0 to 65535	0			
E0-24	Output state 2 upon last fault	0 to 65535	0			
E0-25	Car input state upon last fault	0 to 65535	0			
E0-26	Car output state upon last fault	0 to 65535	0			
E0-27	Hall call state upon last fault	0 to 65535	0			
E0-28	System state 1 upon last fault	0 to 65535	0			P260
E0-29	System state 2 upon last fault	0 to 65535	0			

Function Code	Name	Setting Range	Default	Unit	Property	Page
E9-00	10th fault code	0 to 9999	0			P260 to P261
E9-01	10th fault subcode	0 to 65535	0			
E9-02	10th fault month and day	0 to 1231	0	MM.DD		
E9-03	10th fault hour and minute	0 to 23.59	0	HH.MM		
E9-04	10th fault logic information	0 to 65535	0			
E9-05	10th fault curve information	0 to 65535	0			
E9-06	Speed reference upon 10th fault	0.000 to 4.000	0	m/s		
E9-07	Feedback speed upon 10th fault	0.000 to 4.000	0	m/s		
E9-08	Bus voltage upon 10th fault	0 to 999.9	0	V		
E9-09	Present position upon 10th fault	0.0 to 300.0	0	m		
E9-10	Output current upon 10th fault	0.0 to 999.9	0	A		
E9-11	Output frequency upon 10th fault	0.00 to 99.99	0	Hz		
E9-12	Torque current upon 10th fault	0.0 to 999.9	0	A		
E9-13	Output voltage upon 10th fault	0 to 999.9	0	V		
E9-14	Output torque upon 10th fault	0 to 200.0	0	%		
E9-15	Output power upon 10th fault	0.00 to 99.99	0	kW		
E9-16	Communication interference upon 10th fault	0 to 65535	0			P261
E9-17	Encoder interference upon 10th fault	0 to 65535	0			
E9-18	Input state 1 upon 10th fault	0 to 65535	0			
E9-19	Input state 2 upon 10th fault	0 to 65535	0			
E9-20	Input state 3 upon 10th fault	0 to 65535	0			
E9-21	Input state 4 upon 10th fault	0 to 65535	0			
E9-22	Input state 5 upon 10th fault	0 to 65535	0			
E9-23	Output state 1 upon 10th fault	0 to 65535	0			
E9-24	Output state 2 upon 10th fault	0 to 65535	0			
E9-25	Car input state upon 10th fault	0 to 65535	0			
E9-26	Car output state upon 10th fault	0 to 65535	0			
E9-27	Hall call state upon 10th fault	0 to 65535	0			
E9-28	System state 1 upon 10th fault	0 to 65535	0			
E9-29	System state 2 upon 10th fault	0 to 65535	0			