

FORWParam	Designation	Range	Factory default	Attr
Group A: System Parameter				
Group A0: System Parameter				
A0-00	Setting of user password	0~FFFF	0000	△
A0-02	Parameter protection	0: All parameter programming allowed 1: Only A0-00 and this parameter programming allowed	0	×
A0-03	Parameter initialization	0: No operation 1: Clear fault history 2: Restore all parameters to factory default (motor parameters exclusive) 3: Restore all parameters to factory default (motor parameters inclusive)	0	×
A0-09	Motor control technique	0: V/f control 1: Sensor-less vector control	0	×
Group b Run Parameter Setting				
Group b0 Frequency Setting				
b0-00	FREQ set mode	0: Master frequency setting 1: Master & auxiliary computation result 2: Switch between master and auxiliary set 3: Switch between master frequency setting, and master & auxiliary computation result 4: Switch between auxiliary frequency setting, and master & auxiliary computation result	0	×
b0-01	Master FREQ set	0: Digital setting (b0-02) + \wedge/\vee adjustment on control panel 1: Digital setting (b0-02) + terminal UP/DOWN adjustment 2: Analog input AI 3: Potentiometer 6: Process PID output 8: Multi-step speed 9: Communication	0	×
b0-02	Master Freq digital setting	Lower limit Freq ~ upper limit Freq	50.00Hz	△
b0-03	Auxiliary frequency set	0: No setting 1: Digital setting (b0-04) + \wedge/\vee adjustment on control panel 2: Digital setting (b0-04) + terminal UP/DOWN adjustment 3: AI 4: Potentiometer (at control panel) 7: Process PID output 9: Multi-step speed 10: Communication	0	×
b0-04	Auxiliary frequency digital setting	Lower limit frequency ~ upper limit frequency	0.00Hz	△
b0-05	Auxiliary frequency range	0: Relative to maximum frequency 1: Relative to master frequency	0	×
b0-06	Auxiliary frequency coeff	0.0%~100.0%	100.0%	×
b0-07	Computation of master and auxiliary frequency	0: Master + auxiliary 1: Master - auxiliary 2: Max {master, auxiliary} 3: Min {master, auxiliary}	0	×
b0-08	Maximum frequency	Upper limit frequency ~600.00Hz	50.00Hz	×
b0-09	Upper limit frequency	Lower limit freq ~ maximum freq	50.00Hz	×
b0-10	Lower limit frequency	0.00Hz~upper limit frequency	0.00Hz	×
b0-11	Operation when set frequency lower than lower limit frequency	0: Run at lower limit frequency 1: Run at 0 Hz 2: Stop	0	×

FORWParam	Designation	Range	Factory default	Attr
b0-12	Time-delay of stop when set frequency lower than lower limit frequency	0.0s ~ 6553.5s	0.0s	×
b0-13	Lower limit of skip frequency band 1	0.00Hz~upper limit frequency	0.00Hz	×
b0-14	Upper limit of skip frequency band 1	0.00Hz~upper limit frequency	0.00Hz	×
b0-15	Lower limit of skip frequency band 2	0.00Hz~upper limit frequency	0.00Hz	×
b0-16	Upper limit of skip frequency band 2	0.00Hz~upper limit frequency	0.00Hz	×
b0-17	Lower limit of skip frequency band 3	0.00Hz~upper limit frequency	0.00Hz	×
b0-18	Upper limit of skip frequency band 3	0.00Hz~upper limit frequency	0.00Hz	×
b0-19	Jog frequency	0.00Hz~upper limit frequency	5.00Hz	△
Group b1 Start/Stop Control				
b1-00	Run command	0: Control panel control 1: Terminal control 2: Communication control	0	×
b1-01	Binding of run command and frequency setting	Ones place: frequency setting source bundled under control panel control: 0: No binding 1: Digital setting (b0-02) + ^/√ adjustment on control panel 2: Digital setting (b0-02) + terminal UP/DOWN adjustment 3: AI 4: Control panel potentiometer 7: Process PID output 9: Multi-step speed A: Communication input Tens place: frequency setting source bundled under terminal control (same as Ones place) Hundreds place: frequency setting source bundled under communication control (same as Ones place)	000	×
b1-02	Run direction	0: Forward 1: Reverse	0	△
b1-03	Reverse disabled	0: Reverse enabled 1: Reverse disabled	0	×
b1-04	Dead time between forward and reverse	0.0s~3600.0s	0.0s	△
b1-05	Start method	0: From start frequency 1: DC brake start	0	×
b1-06	Start frequency	0.00Hz~upper limit frequency	0.00Hz	×
b1-07	Holding time of start frequency	0.0s~3599.9s	0.0s	△
b1-08	DC brake current at start	0.0%~100.0%	0.0%	△
b1-09	DC brake time at start	0.00s~30.00s	0.00s	△
b1-10	Flying start current	0.0~200.0%	100.0%	×
b1-11	Flying start decel time	0.1s~20.0s	2.0s	×
b1-13	Stop method	0: Ramp to stop 1: Coast to stop 2: Ramp to stop + DC brake	0	×
b1-14	Start frequency of DC brake stop	0.00Hz~upper limit frequency	0.00Hz	×
b1-15	Brake current	0.0%~100.0%	0.0%	△

FORWParam	Designation	Range	Factory default	Attr
b1-16	Brake time	0.00s~30.00s	0.00s	△
b1-17	Overexcitation brake	0: Disabled 1: Enabled	1	×
b1-18	Dynamic brake	0: Disabled 1: Enabled	0	×
b1-19	Dynamic brake threshold voltage	230V: 325V~375V, default: 375V 400V: 650V~750V, default: 720V	Model dependent	×
b1-20	Auto restart when power up again after power loss	0: Disabled 1: Enabled	0	×
b1-21	Time delay of auto restart when power up again	0.0s~10.0s	0.0s	△
Group b2 Accel/Decel Parameters				
b2-00	Accel/Decel time resolution	0:0.01s 1:0.1s 2:1s	1	×
b2-01	Accel time 1	0s~600.00s/6000.0s/60000s	6.0s	△
b2-02	Decel time 1	0s~600.00s/6000.0s/60000s	6.0s	△
b2-03	Accel time 2	0s~600.00s/6000.0s/60000s	6.0s	△
b2-04	Decel time 2	0s~600.00s/6000.0s/60000s	6.0s	△
b2-05	Accel time 3	0s~600.00s/6000.0s/60000s	6.0s	△
b2-06	Decel time 3	0s~600.00s/6000.0s/60000s	6.0s	△
b2-07	Accel time 4	0s~600.00s/6000.0s/60000s	6.0s	△
b2-08	Decel time 4	0s~600.00s/6000.0s/60000s	6.0s	△
b2-09	Decel time for emergency stop	0s~600.00s/6000.0s/60000s	6.0s	△
b2-10	Jog Accel time	0s~600.00s/6000.0s/60000s	6.0s	△
b2-11	Jog Decel time	0s~600.00s/6000.0s/60000s	6.0s	△
b2-12	Accel/Decel curve selection	0: Linear Accel/Decel 1: Broken-line Accel/Decel 2: S-curve Accel/Decel	0	×
b2-13	Accel time switching frequency of broken-line Accel/Decel	0.00Hz~upper limit frequency	0.00Hz	△
b2-14	Decel time switching frequency of broken-line Accel/Decel	0.00Hz~upper limit frequency	0.00Hz	△
b2-15	Time of Accel S-curve first segment	0.00s~60.00s	0.20s	△
b2-16	Time of Accel S-curve last segment	0.00s~60.00s	0.20s	△
b2-17	Time of Decel S-curve first segment	0.00s~60.00s	0.20s	△
b2-18	Time of Decel S-curve last segment	0.00s~60.00s	0.20s	△
Group C Input and Output Terminals				
Group C0 Digital Input				
C0-00	Enabled condition of run command terminals when power up	0: Trigger edge detected + ON detected 1: ON detected	0	×
C0-01	Function of terminal X1	0: No function 1: JOG forward	0	×
C0-02	Function of terminal X2	2: JOG reverse 3: Run forward (FWD)	0	×
C0-03	Function of terminal X3	4: Run reverse (REV) 5: Three-wire control	0	×

FORWParam	Designation	Range	Factory default	Attr
C0-04	Function of terminal X4	6: Run suspended 7: External stop	0	×
C0-08	Function of terminal AI (Digital enabled)	8: Emergency stop 9: Stop command + DC brake 10: DC brake stop 11: Coast to stop 12: Terminal UP 13: Terminal DOWN 14: Clear UP/DOWN (including \wedge/\vee key) adjustment 15: Multi-step freq terminal 1 16: Multi-step freq terminal 2 17: Multi-step freq terminal 3 19: Accel/Decel time determinant 1 20: Accel/Decel time determinant 2 21: Accel/Decel disabled(ramp stop not inclusive) 22: External fault input 23: Fault reset (RESET) 27: Run command switched to control panel control 28: Run command switched to terminal control 29: Run command switched to communication control 30: Frequency set mode shift 31: Master frequency set switched to digital setting b0-02 32: Auxiliary frequency set switched to digital setting b0-04 33: PID adjustment direction 34: PID paused 35: PID integration paused 36: PID parameter switch 68: Run prohibited 69: DC brake in run	0	×
C0-09	Run command enabled condition when drive run condition restored	0: Trigger edge detected + ON detected 1: ON detected	0	×
C0-11	Filtering time of digital input terminal	0.000s~1.000s	0.010s	△
C0-12	Delay time of terminal X1	0.0s~3600.0s	0.0s	△
C0-13	Delay time of terminal X2	0.0s~3600.0s	0.0s	△
C0-14	Digital input terminal enabled status setting 1	Ones place: X1 0: Positive logic 1: Negative logic Tens place: X2 (same as Ones place) Hundreds place: X3 (same as Ones place) Thousands place: X4 (same as Ones place)	0000	×
C0-16	Digital input terminal enabled status setting 2	AI: 0: Positive logic 1: Negative logic	0	×
C0-17	Terminal UP/DOWN FREQ adjustment action	Ones place: at stop 0: Cleared 1: Maintained Tens place: on power loss 0: Cleared 1: Maintained Hundreds place: integral function 0: No integral function 1: Integral function enabled	0100	△

FORWParam	Designation	Range	Factory default	Attr
		Thousands place: run direction 0: Changing run direction prohibited 1: Changing run direction allowed		
C0-18	Terminal UP/DOWN frequency change step size	0.00Hz/s~100.00Hz/s	0.10 Hz/s	△
C0-19	FWD/REV terminal control mode	0: Two-wire mode 1 1: Two-wire mode 2 2: Three-wire mode 1 3: Three-wire mode 2	0	×
C0-20	Option of virtual input terminal	000~10F 0: Actual terminal in effect 1: Virtual terminal in effect Ones place: BIT0~BIT3: X1~X4 Tens place: Reserved Hundreds place: AI	000	×
Group C1 Digital Output				
C1-00	Y output function	0: No output	0	△
C1-02	Control board relay output function	1: Drive undervoltage 2: Drive run preparation completed 3: Drive is running 4: Drive running at 0Hz (there is no output at stop) 5: Drive running at 0Hz (there is output at stop) 6: Run direction 7: Frequency attained 8: Upper limit frequency attained 9: Lower limit frequency attained 10: Frequency detection FDT1 11: Frequency detection FDT2 13: Torque limited 14: Fault output 15: Alarm output 16: Drive (motor) overloaded alarm 17: Drive overheat alarm 18: Zero current detection 19: X1 20: X2 25: Consecutive run time attained 26: Accumulative run time attained	14	△
C1-04	Y output time delay	0.0s~3600.0s	0.0s	△
C1-06	Relay output time delay	0.0s~3600.0s	0.0s	△
C1-08	Enabled state of digital output	Ones place: Y 0: Positive logic 1: Negative logic Tens place: Reserved Hundreds place: control board relay output (same as ones place)	000	×
C1-09	Detected object of frequency detection (FDT)	Ones place: FDT1 detected object 0: Speed set value (frequency after Accel/Decel) 1: Detected speed value Tens place: FDT2 detected object 0: Speed set value (frequency after Accel/Decel) 1: Detected speed value	00	△
C1-10	FDT1 upper value	0.00Hz~maximum FREQ	50.00Hz	△
C1-11	FDT1 lower value	0.00Hz~maximum FREQ	49.00Hz	△
C1-12	FDT2 upper value	0.00Hz~maximum FREQ	25.00Hz	△
C1-13	FDT2 lower value	0.00Hz~maximum FREQ	24.00Hz	△

FORWParam	Designation	Range	Factory default	Attr
C1-14	Detection width of frequency attained	0.00Hz~maximum FREQ	2.50Hz	△
C1-15	Zero current detection level	0.0%~50.0%	5.0%	△
C1-16	Zero current detection time	0.01s~50.00s	0.50s	△
Group C2 Analog Input				
C2-00	Analog input curve	Ones place: AI input curve 0: Curve 1 (2 points) 1: Curve 2 (4 points) Tens place: Control panel potentiometer input curve (same as Ones place)	10	×
C2-01	Curve 1 maximum input	Curve 1 minimum input ~ 110.0%	100.0%	△
C2-02	Corresponding set value of curve 1 maximum input	-100.0%~100.0%	100.0%	△
C2-03	Curve 1 minimum input	-110.0% ~ curve 1 maximum input	0.0%	△
C2-04	Corresponding set value of curve 1 minimum input	-100.0%~100.0%	0.0%	△
C2-05	Curve 2 maximum input	Range: input of curve 2 inflection point A~110.0%	100.0%	△
C2-06	Corresponding set value of curve 2 maximum input	Range: -100.0%~100.0%	100.0%	△
C2-07	Input of curve 2 inflection point A	Input of curve 2 inflection point B ~ curve 2 maximum input	0.0%	△
C2-08	Set value corresponding to input of curve 2 inflection point A	Range: -100.0%~100.0%	0.0%	△
C2-09	Input of curve 2 inflection point B	Range: Curve 2 minimum input ~ Input of curve 2 inflection point A	0.0%	△
C2-10	Set value corresponding to input of curve 2 inflection point B	Range: -100.0%~100.0%	0.0%	△
C2-11	Curve 2 minimum input	Range: -110.0%~ input of curve 2 inflection point B	0.0%	△
C2-12	Set value corresponding to curve 2 minimum input	Range: -100.0%~100.0%	0.0%	△
C2-21	AI terminal filtering time	0.000s~10.000s	0.01s	△
C2-22	Control panel potentiometer input filtering time	0.000s~10.000s	0.01s	△
Group C3 Analog Output				
C3-00	AO output function	0: No output 1: Set frequency 2: Output frequency 3: Output current (related to drive rated current) 4: Output torque 5: Output voltage 6: Output power 7: Bus voltage 9: Torque current 10: Magnetic flux current 11: AI 16: Communication input percentage 17: Output frequency before compensation	2	△
C3-03	AO offset	-100.0%~100.0%	0.0%	×

FORWParam	Designation	Range	Factory default	Attr
C3-04	AO gain	-2.000~2.000	1.000	×
C3-05	AO filtering time	0.0s~10.0s	0.0s	△
Group C4 Automatic Correction of Analog Input				
C4-00	Analog correction	0: No correction 1: Correct AI 2: Correct control panel potentiometer	0	×
C4-01	Sampling value of AI calibration point 1	Range: 0.00V~10.00V	1.00V	◎
C4-02	Input value of AI calibration point 1	Range: 0.00V~10.00V	1.00V	×
C4-03	Sampling value of AI calibration point 2	Range: 0.00V~10.00V	9.00V	◎
C4-04	Input value of AI calibration point 2	Range: 0.00V~10.00V	9.00V	×
C4-05	Sampling value of calibration point 1 of control panel potentiometer	Range: 0.00V~10.00V	1.00V	◎
C4-06	Input value of calibration point 1 of control panel potentiometer	Range: 0.00V~10.00V	1.00V	×
C4-07	Sampling value of calibration point 2 of control panel potentiometer	Range: 0.00V~10.00V	9.00V	◎
C4-08	Input value of calibration point 2 of potentiometer	Range: 0.00V~10.00V	9.00V	×
Group d Motor and Control Parameters				
Group d0 Motor Parameters				
d0-00	Motor type	0: Ordinary motor 1: Variable frequency motor	0	×
d0-01	Motor power rating	0.4kW~6553.5kW	Model dependent	×
d0-02	Motor rated voltage	220V: 0V~260V default: 220V 400V: 0V~480V default: 380V	Model dependent	×
d0-03	Motor rated current	0.0A~6553.5A	Model dependent	×
d0-04	Motor rated frequency	0.00Hz~upper limit frequency	50.00Hz	×
d0-05	Motor pole number	1~80	4	×
d0-06	Motor rated speed	0~65535r/min	Model dependent	×
d0-07	Motor stator resistance R1	0.001Ω~65.535Ω	Model dependent	×
d0-08	Motor leakage inductance L1	0.1mH~6553.5mH	Model dependent	×
d0-09	Motor rotor resistance R2	0.001Ω~65.535Ω	Model dependent	×
d0-10	Motor mutual inductance L2	0.1mH~6553.5mH	Model dependent	×
d0-11	Motor no-load current	0.0A~6553.5A	Model dependent	×
d0-12	Motor flux weakening coeff 1	0.0000~1.0000	Model dependent	×
d0-13	Motor flux weakening coeff 2	0.0000~1.0000	Model dependent	×

FORWParam	Designation	Range	Factory default	Attr
d0-14	Motor flux weakening coeff 3	0.0000~1.0000	Model dependent	×
d0-22	Motor parameter autotuning	0: No autotuning 1: Static autotuning 2: Rotary autotuning	0	×
d0-23	Motor overload protection mode	0: No protection 1: Judged from motor current	1	×
d0-24	Motor overload protection detection time	0.1min~15.0min	5.0min	×
d0-27	Flying start Kp	0.00~100.00	0.00	×
d0-28	Flying start Ki	0.00~100.00	2.00	×
Group d1 Motor V/f Control Parameters				
d1-00	V/f curve setting	0: Linear V/f 1: Multi-stage V/f (d1-01~d1-08)	0	×
d1-01	V/f frequency value f3	0.00Hz~motor rated frequency	50.00Hz	×
d1-02	V/f voltage value V3	0.0%~100.0%	100.0%	×
d1-03	V/f frequency value f2	d1-05~d1-01	0.00Hz	×
d1-04	V/f voltage value V2	0.0%~100.0%	0.0%	×
d1-05	V/f frequency value f1	d1-07~d1-03	0.00Hz	×
d1-06	V/f voltage value V1	0.0%~100.0%	0.0%	×
d1-07	V/f frequency value f0	0.00Hz~d1-05	0.00Hz	×
d1-08	V/f voltage value V0	0.0%~100.0%	0.0%	×
d1-09	Torque boost	0.0%~30.0%	0.0%	△
d1-10	Slip compensation gain	0.0%~400.0%	100.0%	△
d1-12	Current limitation mode	0: Disabled 1: Set by d1-13 2: Set by AI	1	×
d1-13	Digital setting of current limited value	20.0%~200.0%	160.0%	×
d1-14	Current limit coeff on flux weakening	0.001~1.000	0.500	△
d1-15	Energy saving percentage	0%~40.0%	0.0%	△
d1-16	V/f oscillation suppression gain 1	0~3000	0	△
d1-17	V/f oscillation suppression gain 2	0~3000	0	△
Group d2 Motor Vector Control Parameters				
d2-01	ASR high-speed proportional gain Kp1	0.0~20.0	2.0	△
d2-02	ASR high-speed integration time Ti1	0.000s~8.000s	0.500	△
d2-03	ASR low-speed proportional gain Kp2	0.0~20.0	2.0	△
d2-04	ASR low-speed integration time Ti2	0.000s~8.000s	0.500	△
d2-05	ASR switch frequency 1	0.00Hz~d2-06	5.00Hz	△
d2-06	ASR switch frequency 2	d2-05~upper limit frequency	10.00Hz	△
d2-07	ASR input filtering time	0.0ms~500.0ms	0.3ms	△
d2-08	ASR output filtering time	0.0ms~500.0ms	0.3ms	△
d2-09	ACR proportion coeff Kp	0.000~4.000	1.000	△
d2-10	ACR integration coeff Ki	0.000~4.000	1.000	△
d2-11	Pre-excitation time	0.000s~5.000s	0.200s	△
d2-12	Driven torque restriction	0: d2-14 digital setting	0	×

FORWParam	Designation	Range	Factory default	Attr
	source	1: AI 5: Communication		
d2-13	Braking torque restriction source	0: d2-15 digital setting 1: AI 5: Communication	0	×
d2-14	Digital setting of driven torque	0.0%~200.0%	180.0%	△
d2-15	Digital setting of braking torque	0.0%~200.0%	180.0%	△
d2-16	Torque limit coefficient in flux weakening	0.0%~100.0%	50.0%	△
d2-17	Driven slip compensation gain	10.0%~300.0%	100.0%	△
d2-18	Brake slip compensation gain	10.0%~300.0%	100.0%	△
Group E Enhanced Function and Protection Parameters				
Group E0 Enhanced Function				
E0-00	Switching frequency	0.7kHz~12.0kHz	8.0kHz	△
E0-01	PWM optimization	Ones place: switching frequency relation with temperature 0: Self-adaption 1: No adaption Tens place: PWM modulation mode 0: Five-segment and seven-segment self-switchover 1: Five-segment mode 2: Seven-segment mode Hundreds place: over-modulation adaption 0: Disabled 1: Enabled	020	×
E0-02	Action when run time attained	Ones place: action when consecutive run time attained: 0: Run continued 1: Stop and fault reported Tens place: action when accumulative run time attained: 0: Run continued 1: Stop and fault reported Hundreds place: unit of run time 0: Second 1: Hour	000	×
E0-03	Consecutive run time setting	0.0s(h)~6000.0s(h)	0.0	×
E0-04	Accumulative run time setting	0.0s(h)~6000.0s(h)	0.0	×
Group E1 Protection Parameters				
E1-00	Overvoltage stall	0: Prohibited 1: Allowed	1	×
E1-01	Overvoltage stall protection voltage	220V: 100%~120% default: 116% 400V: 120%~150% default: 135%	Model dependent	×
E1-02	Undervoltage stall	0: Disabled 1: Enabled	0	×
E1-03	Overload alarm	Ones place: detection option: 0: Always detect 1: Detect at constant speed only Tens place: compared with: 0: Motor rated current	000	×

FORWParam	Designation	Range	Factory default	Attr
		1: Drive rated current Hundreds place: drive action 0: Alarm but run continued 1: Alarm and coast to stop		
E1-04	Overload alarm threshold	20.0%~200.0%	180.0%	△
E1-05	Overload alarm activation time	0.1s~60.0s	5.0s	△
E1-06	Protected action 1	Ones place: reserved Tens place: action at IGBT temperature measurement circuit fault: 0: Fault reported and coast to stop 1: Alarm but run continued Hundreds place: reserved Thousands place: abnormal terminal communication (TrC): 0: Fault reported and coast to stop 1: Alarm but run continued	0000	×
E1-07	Protected action 2	Ones place: reserved Tens place: current detection circuit failed 0: Fault reported and coast to stop 1: Alarm but run continued Hundreds place: reserved Thousands place: output phase loss: 0: Fault reported and coast to stop 1: Alarm but run continued	0000	×
E1-08	Fault memory after power loss	0: Not memorized after power loss 1: Memorized after power loss	0	×
E1-09	Fault auto-reset times	0~20	0	×
E1-10	Auto-reset interval	2.0s~20.0s	2.0s	×
E1-11	Relay action on drive fault	Ones place: when undervoltage fault occurs 0: No action 1: Action enabled Tens place: when fault locked 0: No action 1: Action enabled Hundreds place: at interval of auto- reset 0: No action 1: Action enabled	010	×
E1-13	Drive overheat alarm threshold	0.0°C~100.0°C	80.0°C	△
Group F Application				
Group F0 Process PID				
F0-00	PID setting	0: F0-01 digital setting 1: AI 2: Control panel potentiometer 5: Communication	0	×
F0-01	PID digital setting	0.0%~100.0%	50.0%	△
F0-02	PID feedback	0: AI 8: Communication	0	×

FORWParam	Designation	Range	Factory default	Attr
F0-03	PID adjustment	Ones place: output frequency 0: Must be the same direction as setting run direction 1: Opposite direction allowed Tens place: integration selection 0: Integral continued when frequency attains upper/lower frequency 1: Integral stopped when frequency attains upper/lower limit	11	×
F0-04	PID positive and negative adjustment	0: Positive adjustment 1: Negative adjustment	0	×
F0-05	Filtering time of PID setting	0.00s~60.00s	0.00s	△
F0-06	Filtering time of PID feedback	0.00s~60.00s	0.00s	△
F0-07	Filtering time of PID output	0.00s~60.00s	0.00s	△
F0-08	Proportional gain Kp1	0.0~100.0	50.0	△
F0-09	Integration time Ti1	0.001s~ 50.000s	0.500s	△
F0-10	Differential time Td1	0.0s~100.0s	0.0s	△
F0-11	Proportional gain Kp2	0.0~100.0	50.0	△
F0-12	Integration time Ti2	0.001s~ 50.000s	0.500s	△
F0-13	Differential time Td2	0.0s~100.0s	0.0s	△
F0-14	PID parameter switch selection	0: No switch, determined by parameters Kp1, Ti1 and Td1 1: Auto-switched on the basis of input offset 2: Switched by terminal	0	×
F0-15	Input offset under PID auto-switch	0.0%~100.0%	20.0%	△
F0-16	Sampling period T	0.006s~ 50.000s	0.008s	△
F0-17	PID offset limit	0.0%~100.0%	0.0%	△
F0-18	PID derivative limit	0.0%~100.0%	0.5%	△
F0-19	PID initial value	0.0%~100.0%	0.0%	×
F0-20	Holding time of PID initial value	0.0s~3600.0s	0.0s	△
F0-21	PID feedback loss detection value	0.0%~100.0%	0.0%	△
F0-22	PID feedback loss detection time	0.0s~30.0s	1.0s	△
F0-23	Cutoff FREQ when opposite to rotary set direction	0.00Hz~mxiimum frequency	50.00Hz	△
F0-24	PID computation option	0: No computation in stop status 1: Computation continued in stop status	0	△
Group F1 Multi-step Frequency				
F1-00	Frequency set source of multi-step 0	0: Digital setting F1-02 1: Digital setting b0-02 + control panel ^/∇ adjustment 2: Digital setting b0-02 + terminal UP/DOWN adjustment 3: AI 4: Control panel potentiometer 7: Process PID output 8: Communication	0	×
F1-01	Frequency set source of multi-step 1	0: Digital setting F1-03 1: Digital setting b0-04 + control panel ^/∇ adjustment 2: Digital setting b0-04 + terminal UP/DOWN 3: AI 4: Control panel potentiometer	0	×

FORWParam	Designation	Range	Factory default	Attr
		7: Process PID output 8: Communication		
F1-02	Multi-step frequency 0	Lower limit frequency ~ upper limit frequency	0.00Hz	△
F1-03	Multi-step frequency 1	Lower limit frequency ~ upper limit frequency	0.00 Hz	△
F1-04	Multi-step frequency 2	Lower limit frequency ~ upper limit frequency	0.00 Hz	△
F1-05	Multi-step frequency 3	Lower limit frequency ~ upper limit frequency	0.00 Hz	△
F1-06	Multi-step frequency 4	Lower limit frequency ~ upper limit frequency	0.00 Hz	△
F1-07	Multi-step frequency 5	Lower limit frequency ~ upper limit frequency	0.00 Hz	△
F1-08	Multi-step frequency 6	Lower limit frequency ~ upper limit frequency	0.00 Hz	△
F1-09	Multi-step frequency 7	Lower limit frequency ~ upper limit frequency	0.00 Hz	△
Group F2 Mechanical Brake Control				
F2-00	Mechanical control selection	0: disabled 1: enabled	0	×
F2-01	Mechanical brake open frequency	0.00Hz~10.00Hz	2.50Hz	△
F2-02	Mechanical brake open current	0.0%~200.0%	120.0%	△
F2-03	Mechanical brake open action time	0.0s~10.0s	1.0s	△
F2-04	Mechanical brake close frequency	0.00Hz~10.00Hz	2.00Hz	△
F2-05	Mechanical brake close waiting time	0.0s~10.0s	0.0s	△
F2-06	Mechanical brake close action time	0.0s~10.0s	1.0s	△
Group H Communication Parameters				
Group H0 MODBUS Communication Parameters				
H0-01	RS-485 port communication configuration	Ones place: baud rate 0: 4800bps 1: 9600bps 2: 19200bps 3: 38400bps 4: 57600bps Tens place: data format 0: 1-8-2-N format, RTU 1: 1-8-1-E format, RTU 2: 1-8-1-O Format, RTU 3: 1-7-2-N format, ASCII 4: 1-7-1-E format, ASCII 5: 1-7-1-O format, ASCII Hundreds place: connection type 0: Direct cable connection (232/485) 1: MODEM (232) Thousands place: communication data handling at power loss 0: Not stored at power loss 1: Stored at power loss	0002	×
H0-02	485 terminal communication address	0~247, 0 is broadcast address	1	×
H0-03	Time out detection of 485 terminal communication	0.0s~1000.0s	0.0s	×
H0-04	Time delay of 485 terminal communication	0ms~1000ms	0ms	×
H0-05	Master/Slave option	0: Independently used	0	×

FORWParam	Designation	Range	Factory default	Attr
		1: As master 2: As slave		
H0-06	Parameter store address when this drive working as master	0:b0-02 1:F0-01	0	×
H0-07	Proportional factor of received frequency	0.0%~1000.0%	100.0%	△
Group L Keys and Display of Control Panel				
Group L0 Keys of Control Panel				
L0-01	Keys locked selection	0: Not locked 1: All locked 2: Keys locked except RUN, STOP/RESET 3: Keys locked except STOP/RESET 4: Keys locked except >>	0	△
L0-02	Function of STOP key	0: STOP key active only at control panel control 1: STOP key deactivate under any run command source	0	△
L0-03	FREQ adjustment through keys \wedge / \vee	Ones place: option at stop 0: Clear at stop 1: Holding on stop Tens place: option at power loss 0: Clear at power loss 1: Holding at power loss Hundreds place: integral option 0: Integral disabled 1: Integral enabled Thousands place: run direction 0: Direction changing prohibited 1: Direction changing permitted	0100	△
L0-04	Step size of FREQ adjustment through keys \wedge / \vee	0.00Hz/s~10.00Hz/s	0.10Hz/s	△
Group L1 LED Display Setting				
L1-00	LED displayed parameter settings on running status	Setting of binary system: 0: Display disabled 1: Display enabled Ones place: BIT0: Running frequency (Hz) BIT1: Set frequency (Hz) BIT2: Bus voltage (V) BIT3: Output current (A) Tens place: BIT0: Output torque (%) BIT1: Output power (kW) BIT2: Output voltage (V) BIT3: Motor speed (r/min) Hundreds place: BIT0: AI (V) BIT1: Control panel potentiometer (V) BIT2: Input terminal status BIT3: Output terminal status Thousands place: BIT0: PID setting (%) BIT1: PID feedback (%) BIT2: Reserved BIT3: Reserved Note: when this parameter is set to 0000, run frequency (Hz) would be displayed as default	000F	△

FORWParam	Designation	Range	Factory default	Attr
L1-02	LED displayed parameter settings on stop status	Setting of binary system: 0: Display disabled 1: Display enabled Ones place: BIT0: Set frequency (Hz) BIT1: Bus voltage (V) BIT2: Input terminal status BIT3: Output terminal status Tens place: BIT0: AI (V) BIT1: Control panel potentiometer (V) BIT2: Reserved BIT3: Reserved Hundreds place: BIT0: PID setting (%) BIT1: PID feedback (%) BIT2: Reserved BIT3: Reserved Thousands place: Reserved Note: when this parameter is set to 0000, the set frequency would be displayed as default (Hz)	0003	△
Group U Monitoring				
Group U0 Status Monitoring				
U0-00	Run frequency	0.00Hz~600.00Hz	0.00Hz	⊙
U0-01	Set frequency	0.00Hz~600.00Hz	0.00Hz	⊙
U0-02	Bus voltage	0V~65535V	0V	⊙
U0-03	Output voltage	0V~65535V	0V	⊙
U0-04	Output current	0.0A~6553.5A	0.0A	⊙
U0-05	Output torque	0.0%~300.0%	0.0%	⊙
U0-06	Output power	0.0%~300.0%	0.0%	⊙
U0-09	Master frequency setting	0.00Hz~600.00Hz	0.00Hz	⊙
U0-10	Auxiliary frequency setting	0.00Hz~600.00Hz	0.00Hz	⊙
U0-11	Drive status	Ones place: run status 0: Accelerating 1: Decelerating 2: Constant speed run Tens place: drive status 0: Stop 1: Running 2: Autotuning	00	⊙
U0-12	AI input voltage	0.00V~10.00V	0.00V	⊙
U0-13	Control panel Potentiometer input voltage	0.00V~10.00V	0.00V	⊙
U0-15	AO output	0.0%~100.0%	0.0%	⊙
U0-18	Digital input terminal status	0~F	0	⊙
U0-19	Digital output terminal status	0~7	0	⊙
U0-20	PID set	0.0%~100.0%	0.0%	⊙
U0-21	PID feedback	0.0%~100.0%	0.0%	⊙
U0-22	PID input offset	-100.0%~100.0%	0.0%	⊙
U0-30	Cumulative power-up time	0h~65535h	0h	⊙
U0-31	Cumulative run time	0h~65535h	0h	⊙
U0-33	IGBT temperature	-40.0°C~100.0°C	0.0°C	⊙
U0-36	Run command log at LoU	0~1	0	⊙
U0-37	Fault code log at LoU	0~100	0	⊙

FORWParam	Designation	Range	Factory default	Attr
U0-39	Current detection fault source	0: No fault source 1: IU 2: IV 3: IW	0	⊙
U0-42	Higher-bit digital of control panel \wedge / \vee stored value	0,-	0	⊙
U0-43	Lower-bit digitals of control panel \wedge / \vee stored value	-999.9Hz~600.0Hz	0.00Hz	⊙
U0-44	Higher-bit digital of terminal UP/DOWN stored value	0,-	0	⊙
U0-45	Lower-bit digitals of terminal UP/DOWN stored value	-999.9Hz~600.0Hz	0.00Hz	⊙
Group U1 Fault History				
U1-00	Fault 1 code(latest)	0: No fault 1: Accel overcurrent 2: Constant-speed overcurrent 3: Decel overcurrent 4: Accel overvoltage 5: Constant-speed overvoltage 6: Decel overvoltage 7: Module protection 8: Autotuning failed 9: Drive overloaded 10: Motor overloaded 11: Current detection abnormal 12: Ground short-circuit protection at output side 14: Phase loss at output side 16: Heat sink overheated protection 18: Module temperature detection disconnection 24: External equipment malfunction 26: Consecutive run time attained 27: Accumulative run time attained 31: Port communication abnormal 37: Reference protection 38: 5V power supply out-of-limit 40: AI input out-of-limit 41: Undervoltage protection 45: PID feedback loss 46: Interior communication abnormal	0	⊙
U1-01	Fault 1 run frequency	0.00Hz~600.00Hz	0.00Hz	⊙
U1-02	Fault 1 output current	0.0A~6553.5A	0.0A	⊙
U1-03	Fault 1 bus voltage	0V~10000V	0V	⊙
U1-05	Fault 1 IGBT temperature	-40.0°C~100.0°C	0.0°C	⊙
U1-06	Fault 1 input terminal status	0~FFFF	0000	⊙
U1-07	Fault 1 output terminal status	0~FFFF	0000	⊙
U1-08	Fault 1 cumulative run time	0h~65535h	0h	⊙
U1-09	Fault 2 code	Same as U1-00	0	⊙
U1-10	Fault 2 run frequency	0.00Hz~600.00Hz	0.00Hz	⊙
U1-11	Fault 2 output current	0.0A~6553.5A	0.0A	⊙
U1-12	Fault 2 bus voltage	0V~10000V	0V	⊙
U1-14	Fault 2 IGBT temperature	-40.0°C~100.0°C	0.0°C	⊙

FORWParam	Designation	Range	Factory default	Attr
U1-15	Fault 2 input terminal status	0~FFFF	0000	⊙
U1-16	Fault 2 output terminal status	0~FFFF	0000	⊙
U1-17	Fault 2 cumulative run time	0h~65535h	0h	⊙
U1-18	Fault 3 code	Same as U1-00	0	⊙
U1-19	Fault 3 run frequency	0.00Hz~600.00Hz	0.00Hz	⊙
U1-20	Fault 3 output current	0.0A~6553.5A	0.0A	⊙
U1-21	Fault 3 bus voltage	0V~1000V	0V	⊙
U1-23	Fault 3 IGBT temperature	-40.0°C~100.0°C	0.0°C	⊙
U1-24	Fault 3 input terminal status	0~FFFF	0000	⊙
U1-25	Fault 3 output terminal status	0~FFFF	0000	⊙
U1-26	Fault 3 cumulative run time	0h~65535h	0h	⊙