

Code	Name	Reason	Solution
Err51	Switch motor in operation	In the process of inverter operation, change the current motor selection through the terminal	Switch the motor after the frequency converter stops
Err52	Speed offset too large	1. Encoder parameter setting incorrect 2. Motor blocked 3. Incorrect UVW wiring	1. Setting encoder parameters correctly 2. Check whether the machine is abnormal 3. Check whether the wiring between frequency converter and motor is abnormal
Err53	Motor overspeed fault	1. Incorrect setting of encoding parameters 2. The motor is not tuned 3. Unreasonable setting of motor over speed detection parameters P7-63 and P7-64	1. Setting encoder parameters correctly 2. Tuning correctly 3. Set reasonable parameters according to the actual situation
Err54	Motor overheating fault	1. Loose wiring of temperature sensor 2. Motor temperature too high	1. Check the wiring of temperature sensor 2. Reduce the carrier wave or take other measures to dissipate the motor heat.
Err56	Power on lock time reached	Power on time arrival	When the usage time arrives, please enter the password in A4-00.

Note:
Specific alarm information, please refer to 'VH1 Series Frequency User Manual'.

Common parameter

Group P0: Basic functional parameters			
Parameter	Name	Setting range	Default value
P0-01	First motor control mode	0: VF control mode 1: No speed sensor vector control (SVC)	0
P0-02	Operation command channel selection	0: Operate panel 1: Terminal 2: Communication port	0
P0-03	Main frequency source A selection	0: Digital set (Power-off no memory) 1: Digital set (Power-off memory) 2: AI1 3: AI2 4: Body panel knob set 5: Terminal pulse X4 set 6: Communication set 7: Multi-segment instruction set 8: PID set 9: Simple PLC operation 10: Special mode for drawing and winding 11: External pilot panel knob set	0
P0-04	Auxiliary frequency source B selection	0: Digital set (Power-off no memory) 1: Digital set (Power-off memory) 2: AI1 3: AI2 4: Body panel knob set 5: Terminal pulse X4 set 6: Communication set 7: Multi-segment instruction set 8: PID set 9: Simple PLC operation 10: Special mode for drawing and winding 11: External pilot panel knob set	0
P0-05	Frequency superposition source selection	0: Bit: frequency source selection 0: Main frequency source A 1: Calculation results of main and auxiliary frequency sources 2: Switching between main frequency source A and auxiliary frequency source B Tens bit: the operation relationship of main and auxiliary frequency sources 0: A+B 1: A-B 2: max (A, B) 3: min (A, B)	00
P0-06	Auxiliary frequency source B range selection	0: Relative to the maximum frequency 1: Relative to the main frequency source A	0
P0-07	Auxiliary frequency source	0%~150%	100%

Group P0: Basic functional parameters			
Parameter	Name	Setting range	Default value
P0-09	B range		
P0-10	Digital set of auxiliary frequency source offset	0.00Hz~max frequency P0-13	0.00Hz
P0-12	Preset frequency	0.00Hz~max frequency P0-13	50.00Hz
P0-13	Frequency shutdown memory selection for digital set	0: No memory 1: Memory	1
P0-14	Max output frequency	50.00Hz~600.00Hz	50.00Hz
P0-15	Upper limit frequency source	0: Set by P0-15 1: AI1 set 2: AI2 set 3: Body panel knob set 4: Pulse set 5: Communication set	0
P0-16	Upper limit frequency offset	0.00Hz~ Max output frequency (P0-13)	0.00Hz
P0-17	Lower frequency	0.00Hz~ Upper limit frequency (P0-15)	0.00Hz
P0-18	Acceleration time 1	0~65000s (PC-09=0) 0~6500.0s (PC-09=1) 0.00~650.0s (PC-09=2)	Model setting
P0-19	Deceleration time 1	0~65000s (PC-09=0) 0~6500.0s (PC-09=1) 0.00~650.0s (PC-09=2)	Model setting
P0-20	Operation direction	Ones bit: running direction 0: Run in the default direction 1: Run in the opposite direction to the default direction Tens bit: Disable Inversion	00
P0-21	Reverse frequency disable	0: Valid 1: Invalid	0
P0-22	Dead time of forward and reverse rotation	0.0s~3600.0s	0.0s
P0-23	Run-time frequency instruction UP/DOWN benchmark	0: Operating frequency 1: Set frequency	0
P0-25	Motor parameter group selection	0: Motor parameter group 1 1: Motor parameter group 2	0

Group P1: First motor parameters			
Parameter	Name	Setting range	Default value
P1-00	Motor type selection	0: Common asynchronous motor	0
P1-01	Motor rated power	0.1KW~650.0KW	Model setting
P1-02	Motor rated voltage	1V~1200V	Model setting
P1-03	Motor rated current	0.01A~655.35A (VFD power ≤55kW) 0.1A~6553.5A (VFD power >55kW)	Model setting
P1-04	Motor rated frequency	0.01Hz~ max output frequency	Model setting
P1-05	Motor rated speed	1rpm~65535rpm	Model setting
P1-06	Asynchronous motor stator resistance	0.001Ω ~ 65.535Ω (VFD power ≤55kW) 0.0001Ω ~ 6.5535Ω (VFD power >55kW)	Tuning parameter
P1-07	Asynchronous motor rotor resistance	0.001Ω ~ 65.535Ω (VFD power ≤55kW) 0.0001Ω ~ 6.5535Ω (VFD power >55kW)	Tuning parameter
P1-08	Leakage inductance of induction motor	0.01mH ~ 655.35mH(VFD power ≤55kW) 0.001mH ~ 65.535mH (VFD power >55kW)	Tuning parameter
P1-09	Mutual inductance of induction motor	0.01mH ~ 655.35mH (VFD power ≤55kW) 0.001mH ~ 65.535mH (VFD power >55kW)	Tuning parameter
P1-10	No load current of asynchronous motor	0.01A ~ P1-03 (VFD power ≤55kW) 0.1A ~ P1-03 (VFD power >55kW)	Tuning parameter
P1-35	Self learning of motor parameters	0: No operation 1: Static self learning 1 2: Motor rotation self-learning 3: Static self learning 2	0

Group P2: Input terminal function parameters			
Parameter	Name	Setting range	Default value
P2-00	Input terminal X1 function selection	0: No function 1: FWD or run command	01

Group P2: Input terminal function parameters			
Parameter	Name	Setting range	Default value
P2-01	Input terminal X2 function selection	2: REV or Fwd/Rev direction (Note: when it is set to 1 or 2, it should be used with P2-10. See the parameter for details)	02
P2-02	Input terminal X3 function selection	0.00V~P2-24	10
P2-03	Input terminal X4 function selection	-100.0%~+100.0%	00

Group P2: Input terminal function parameters			
Parameter	Name	Setting range	Default value
P2-22	AI curve 2 min setting corresponding frequency percentage	24: Under voltage state output 25: Cumulative power on time reached 26: Timing arrival output 27: Length arrived 28: Simple PLC cycle completed 29: Cumulative running time arrived 32: Lower limit frequency reached (output when shutdown)	
P2-23	AI curve 2 min setting corresponding frequency percentage	33: Fault output (free stop fault and no output under voltage)	
P2-24	AI curve 2 max setting corresponding frequency percentage	34: Module temperature reached 35: Warning output (all faults)	
P2-25	AI curve 2 max setting corresponding frequency percentage	37: In reverse operation 39: Output current overrange 40: Zero current state 41: This time of running time arrived	
P2-26	AI curve 3 min setting corresponding frequency percentage	42: Bus voltage reaches	
P2-27	AI curve 3 min setting corresponding frequency percentage	Ones bit: AI1 curve selection 1: Curve 1 (2 points, see P2-18 ~ P2-21)	
P2-28	AI curve 3 max setting corresponding frequency percentage	2: Curve 2 (2 points, see P2-22 ~ P2-25)	
P2-29	AI curve 3 max setting corresponding frequency percentage	18: Acc/Dec prohibited 19: Pulse input 20: Counter input 21: Counter reset 22: Length counter input 23: Length counter reset 24: Swing frequency pause 25: Operation pause 26: PLC status reset 27: Run command switch to keyboard 28: Run command switch to communication 29: Torque control prohibited 30: Switch between speed control and torque control 32: PID pause 33: PID reverse direction of action 34: PID integral pause 35: PID parameter switching 36: External fault normally open input 37: External fault normally close input 38: User-defined fault 1 39: User-defined fault 2 40: Motor parameter selection 41: Switch between main frequency X and preset frequency 42: Switch between auxiliary frequency Y and preset frequency 43: Frequency setting effective terminal 44: DC braking 45: Deceleration DC braking 46: Emergency stop 47: External stop terminal (only valid for panel control) 48: External terminal stop (according to deceleration time 4) 49: Reverse run prohibited 50: The running time is cleared 51: Two wire / three wire switching	
P2-30	AI below minimum input setting selection	Ones bit: AI1 below minimum input setting selection 0: Corresponding minimum input setting 1: 0.0%	00
P2-31	Y terminal effective state selection	0: Positive logic 1: Negative logic Ones bit: Y1 Thousands bit: relay 1	00000
P2-32	AI curve selection	0: Operating frequency 1: Set frequency 2: Output current 3: Motor output torque (absolute value, percentage relative to motor) 4: Output power 5: Output voltage 6: AI1 7: AI2 9: PULSE input (100.0% corresponding to 100.0 KHz) 10: Output speed 11: Communication control output 12: Counting value 13: Length	321
P2-33	AO1 output selection	Ones bit: AI1 below minimum input setting selection 0: Corresponding minimum input setting 1: 0.0%	00
P2-34	AI below minimum input setting selection	Ones bit: AI2 below minimum input setting selection	000
P2-35	AO1 zero bias coefficient	-100.0%~+100.0%	0.0%
P2-36	AO1 gain	-10.0~+10.0	1.00

Group P4: Start stop mode			
Parameter	Name	Setting range	Default value
P4-00	Starting mode	0: Direct start 1: Speed tracking restart 2: Pre-excitation starting (AC asynchronous motor)	0
P4-01	Starting frequency	0.00Hz~10.00Hz	0.00Hz
P4-02	Start frequency duration	0.0s~100.0s	0.0s
P4-03	Percentage of starting DC braking current / pre-excitation current	20%~100%	20%
P4-04	DC braking time / pre-excitation time at start-up	0.0s~100.0s	0.0s
P4-05	Start protection selection	0: No protection 1: Protection	0
P4-06	Speed tracking mode	0: Start from shutdown frequency 1: Starting from power frequency 2: Fault output (free stop fault)	0
P4-07	Speed tracking speed	1~100	20
P4-08	Speed tracking closed loop current	30%~200%	Model confirmed
P4-09	Acceleration and deceleration mode	0: Linear acceleration and deceleration 1: Continuous S-curve acceleration and deceleration	0
P4-10	Time proportion at the beginning of the S curve	0.0%~(100.0% - P4-21)	30.0%
P4-11	Time proportion at the end of the S curve	0.0%~(100.0% - P4-20)	30.0%
P4-12	Stop mode	0: Deceleration stop 1: Free stop	0
P4-13	Starting frequency of DC braking during shutdown	0.00Hz~P0-13	0.00Hz
P4-14	DC braking time during shutdown	0.0s~100.0s	0.0s
P4-15	Over voltage stall action frequency gain	0~100	30
P4-16	Over voltage stall suppression gain	0~100	30
P4-17	Over voltage stall compensation coefficient	50%~200%	50
P4-18	Over voltage stall action voltage	200.0V~2000.0V	Model setting
P4-19	Over voltage stall enable	0: invalid 1: valid	1
P4-20	Over voltage stall suppression gain	0~100	30
P4-21	Over voltage stall suppression voltage gain	0~100	30
P4-22			

Group P6: Vector control parameters			
Parameter	Name	Setting range	Default value
P6-03	Speed loop integration time 2	0.01s~10.00s	1.00s
P6-04	Switching frequency 1	0.00~P6-05	5.00Hz
P6-05	Switching frequency 2	P6-04 ~ P0-13	10.00Hz
P6-06	Speed loop integration attribute	Ones bit: integral separation 0: invalid 1: valid	0
P6-07	Vector slip compensation coefficient	50%~200%	Model setting
P6-08	SVC speed feedback filter time	0~50s	50s
P6-10	Speed control (drive) torque upper limit source	0: Set by P6-11 1: AII 2: AI2 4: PULSE setting 5:Communication setting 6: min(AII,AI2) 7: max(AII,AI2)	0
P6-11	Speed control (drive) torque upper limit digital setting	0.0%~200.0%	150.0%
P6-14	Excitation regulation proportional gain	0 ~ 60000	2000
P6-15	Excitation regulation integral gain	0 ~ 60000	1300
P6-16	Torque regulated proportional gain	0 ~ 60000	2000
P6-17	Torque regulated integral gain	0 ~ 60000	1300

Group P7: Fault parameters			
Parameter	Name	Setting range	Default value
P7-00	Third time (last) fault type	0: No fault 1: Accelerated overcurrent 2: Deceleration overcurrent 3: Constant speed overcurrent 4: Acceleration overvoltage 5: Deceleration overvoltage 6: Constant speed overvoltage 7: Buffer resistance overload fault 8: Under voltage fault 9: Inverter overload 10: Motor overload 11: Input phase loss 12: Output phase loss 13: Radiator overheating 14: Contactor fault 15: Current detection fault 16: Motor tuning fault 17: Code disk fault 18: Motor short circuit fault to ground 19: Load drop 20: Wave by wave current limiting fault 21: Pole position detection failed 22: UVW signal feedback error 23: Brake resistance short circuit 24: Brake pipe overload 25: Brake pipe straight through 26: SVC stall fault 43: External fault 44: Communication fault 45: EEPROM read / write fault 46: Operation time arrival 47: Power on time arrival 48: User defined fault 1 49: User defined fault 2 50: PID feedback loss during operation 51: Running switch motor 52: Speed feedback deviation too large 53: Motor over speed 54: Motor over temperature fault 55: Point to point slave failure 56: Power on lock time arrival	-
P7-01	Second time fault type	1: Accelerated overcurrent 2: Deceleration overcurrent 3: Constant speed overcurrent 4: Acceleration overvoltage 5: Deceleration overvoltage 6: Constant speed overvoltage 7: Buffer resistance overload fault 8: Under voltage fault 9: Inverter overload 10: Motor overload 11: Input phase loss 12: Output phase loss 13: Radiator overheating 14: Contactor fault 15: Current detection fault 16: Motor tuning fault 17: Code disk fault 18: Motor short circuit fault to ground 19: Load drop 20: Wave by wave current limiting fault 21: Pole position detection failed 22: UVW signal feedback error 23: Brake resistance short circuit 24: Brake pipe overload 25: Brake pipe straight through 26: SVC stall fault 43: External fault 44: Communication fault 45: EEPROM read / write fault 46: Operation time arrival 47: Power on time arrival 48: User defined fault 1 49: User defined fault 2 50: PID feedback loss during operation 51: Running switch motor 52: Speed feedback deviation too large 53: Motor over speed 54: Motor over temperature fault 55: Point to point slave failure 56: Power on lock time arrival	-
P7-02	First time fault type	1: Accelerated overcurrent 2: Deceleration overcurrent 3: Constant speed overcurrent 4: Acceleration overvoltage 5: Deceleration overvoltage 6: Constant speed overvoltage 7: Buffer resistance overload fault 8: Under voltage fault 9: Inverter overload 10: Motor overload 11: Input phase loss 12: Output phase loss 13: Radiator overheating 14: Contactor fault 15: Current detection fault 16: Motor tuning fault 17: Code disk fault 18: Motor short circuit fault to ground 19: Load drop 20: Wave by wave current limiting fault 21: Pole position detection failed 22: UVW signal feedback error 23: Brake resistance short circuit 24: Brake pipe overload 25: Brake pipe straight through 26: SVC stall fault 43: External fault 44: Communication fault 45: EEPROM read / write fault 46: Operation time arrival 47: Power on time arrival 48: User defined fault 1 49: User defined fault 2 50: PID feedback loss during operation 51: Running switch motor 52: Speed feedback deviation too large 53: Motor over speed 54: Motor over temperature fault 55: Point to point slave failure 56: Power on lock time arrival	-
P7-03	Third time (last time) fault frequency	-	-
P7-04	Third time (last time) fault current	-	-
P7-05	Third time (last time) fault bus voltage	-	-
P7-06	Third time (last time) fault input terminal status	-	-
P7-07	Third time (last time) fault output terminal status	-	-
P7-08	Third time (last time) fault VFD status	-	-
P7-09	Third time (last time) fault power on time	Unit: minutes	-

Group P7: Fault parameters			
Parameter	Name	Setting range	Default value
P7-10	Third time (last time) fault operation time	Unit: minutes	-
P7-11	Third time (last time) fault location information	-	-
P7-13	Second time fault frequency	-	-
P7-14	Second time fault current	-	-
P7-15	Second time fault bus voltage	-	-
P7-16	Second time fault input terminal status	-	-
P7-17	Second time fault output terminal status	-	-
P7-18	Second time fault VFD status	-	-
P7-19	Second time fault power on time	Unit: minutes	-
P7-20	Second time fault operation time	Unit: minutes	-
P7-21	Second time fault location information	-	-
P7-23	First time fault frequency	-	-
P7-24	First time fault current	-	-
P7-25	First time fault bus voltage	-	-
P7-26	First time fault input terminal status	-	-
P7-27	First time fault output terminal status	-	-
P7-28	First time fault VFD status	-	-
P7-29	First time fault power on time	Unit: minutes	-
P7-30	First time fault operation time	Unit: minutes	-
P7-31	First time fault location information	-	-
P7-33	Motor overload protection mode selection	0: Forbidden 1: Allow	1
P7-34	Motor overload protection gain	0.20~10.00	1.00
P7-35	Motor overload warning coefficient	50%~100%	80%
P7-39	Input phase loss / contactor closing protection selection	Ones bit: Input phase loss protection Tens bit: Contactor closing protection selection 0: Forbidden 1: Allow	11
P7-40	Output phase loss protection selection	0: Forbidden 1: Allow	1
P7-41	Power on short circuit protection function to ground	0: Invalid 1: Valid	1
P7-42	Action selection of fault relay during automatic fault reset	0: No action 1: Action	0
P7-43	Fault automatic reset interval time	0.1s~60.0s	1.0s
P7-44	Number of automatic reset times of faults	0~20	0
P7-45	Protection action selection 1 when fault	Ones bit: motor overload (Err 10) 0: free stop 1: stop as stop mode Tens bit: input phase loss (Err11) 0: free stop 1: stop as stop mode Hundreds bit: output phase loss (Err12) 0: free stop 1: stop as stop mode Thousands bit: output load drop (Err19) 0: free stop 1: stop as stop mode Ten thousand bit: pole position detection failed (Err21) 0: free stop 1: stop as stop mode	00000
P7-46	Protection action selection 2 when fault	Ones bit: external fault 1 (Err43) 0: free stop 1: stop as stop mode Tens bit: communication error (Err44) 0: free stop 1: stop as stop mode	00000

Group P7: Fault parameters			
Parameter	Name	Setting range	Default value
P7-10	Third time (last time) fault operation time	Unit: minutes	-
P7-11	Third time (last time) fault location information	-	-
P7-13	Second time fault frequency	-	-
P7-14	Second time fault current	-	-
P7-15	Second time fault bus voltage	-	-
P7-16	Second time fault input terminal status	-	-
P7-17	Second time fault output terminal status	-	-
P7-18	Second time fault VFD status	-	-
P7-19	Second time fault power on time	Unit: minutes	-
P7-20	Second time fault operation time	Unit: minutes	-
P7-21	Second time fault location information	-	-
P7-23	First time fault frequency	-	-
P7-24	First time fault current	-	-
P7-25	First time fault bus voltage	-	-
P7-26	First time fault input terminal status	-	-
P7-27	First time fault output terminal status	-	-
P7-28	First time fault VFD status	-	-
P7-29	First time fault power on time	Unit: minutes	-
P7-30	First time fault operation time	Unit: minutes	-
P7-31	First time fault location information	-	-
P7-33	Motor overload protection mode selection	0: Forbidden 1: Allow	1
P7-34	Motor overload protection gain	0.20~10.00	1.00
P7-35	Motor overload warning coefficient	50%~100%	80%
P7-39	Input phase loss / contactor closing protection selection	Ones bit: Input phase loss protection Tens bit: Contactor closing protection selection 0: Forbidden 1: Allow	11
P7-40	Output phase loss protection selection	0: Forbidden 1: Allow	1
P7-41	Power on short circuit protection function to ground	0: Invalid 1: Valid	1
P7-42	Action selection of fault relay during automatic fault reset	0: No action 1: Action	0
P7-43	Fault automatic reset interval time	0.1s~60.0s	1.0s
P7-44	Number of automatic reset times of faults	0~20	0
P7-45	Protection action selection 1 when fault	Ones bit: motor overload (Err 10) 0: free stop 1: stop as stop mode Tens bit: input phase loss (Err11) 0: free stop 1: stop as stop mode Hundreds bit: output phase loss (Err12) 0: free stop 1: stop as stop mode Thousands bit: output load drop (Err19) 0: free stop 1: stop as stop mode Ten thousand bit: pole position detection failed (Err21) 0: free stop 1: stop as stop mode	00000
P7-46	Protection action selection 2 when fault	Ones bit: external fault 1 (Err43) 0: free stop 1: stop as stop mode Tens bit: communication error (Err44) 0: free stop 1: stop as stop mode	00000

Group P8: Keyboard and display			
Parameter	Name	Setting range	Default value
PA-01	Setting channel selection	arrival (Err46) 0: free stop 1: stop as stop mode Ten thousand bit: power on time arrival(Err47) 0: free stop 1: stop as stop mode	0
PA-02	Feedback channel selection	Ones bit: user defined fault 1 (Err48) 0: free stop 1: stop as stop mode Hundreds bit: PID feedback loss during operation (Err50) 0: free stop 1: stop as stop mode Thousands bit: speed feedback deviation too large (Err52) 0: free stop 1: stop as stop mode	0
PA-03	PID feedback filter time	0.00s~30.00s	0.00s
PA-04	PID output filter time	0.00s~30.00s	0.00s
PA-05	PID value setting	0.0%~100.0%	50.0%
PA-06	PID setting change time	0.00s~300.0s	0.00s
PA-07	PID reverse cut-off frequency	0.00Hz~P0-13	0.00Hz
PA-08	PID deviation limit	0.0%~100.0%	0.10%
PA-09	PID differential limit	0.00%~100.00%	0.10%
PA-10	Proportional gain P	0.0~100.0	20.0
PA-11	Integral time I	0.01s~10.0s	2.00s
PA-12	Differential time D	0.000s~10.000s	0.000s
PA-13	PID parameter switching condition	0: Not switch 1: Switch through X terminal 2: Automatically switch based on deviation 3: Automatically switch based on operating frequency	0
PA-14	PID parameter switching deviation 1	0.0%~PA-15	20.0%
PA-15	PID parameter switching deviation 2	PA-14~100.0%	80.0%
PA-16	PID proportional gain P2	0.0~100.0	20.0
PA-17	PID integral time I2	0.01s~10.00s	2.00s
PA-18	PID differential time D2	0.000s~10.000s	0.000s
PA-19	PID action direction	0: Positive action 1: Reverse action	0
PA-20	PID given feedback range	0~65535	1000
PA-21	PID maximum deviation between two outputs	0.00%~100.00%	1.00%
PA-22	PID minimum deviation between two outputs	0.00%~100.00%	1.00%
PA-23	PID initial value	0.0%~100.0%	0.0%
PA-24	PID initial value holding time	0.00s~600.0s	0.00s
PA-25	PID operation mode (whether to operate when stop)	0: Not operation when stop 1: Operation	

Group PC: Auxiliary operation parameters			
Parameter	Name	Setting range	Default value
PC-06	Deceleration time 3	0.1s~6500.0s	setting Model setting
PC-07	Acceleration time 4	0.1s~6500.0s	Model setting
PC-08	Deceleration time 4	0.1s~6500.0s	Model setting
PC-09	The unit of acc/dec time	0: 1s 1: 0.1s 2: 0.01s	1
PC-10	The base frequency of acc/dec time	0: Max output frequency 1: Setting frequency 2: 100Hz	0
PC-11	Switching frequency point between acceleration time 1 and acceleration time 2	0.00Hz~max output frequency	0.00Hz
PC-12	Switching frequency point between deceleration time 1 and deceleration time 2	0.00Hz~ max output frequency	0.00Hz
PC-13	Jump frequency 1	0.00Hz~ max output frequency	0.00Hz
PC-14	Jump frequency 2	0.00Hz~ max output frequency	0.00Hz
PC-15	Jump frequency range	0.00Hz~ max output frequency	0.00Hz
PC-16	Whether the jump frequency is effective during acceleration and deceleration	0: invalid 1: valid (in vector condition)	0
PC-17	Frequency reaching detection range	0.0%~100.0%	0.0%
PC-18	Frequency detection value (FDT1 voltage level)	0.00Hz~max output frequency	50.00Hz
PC-19	Frequency detection hysteresis value (FDT1 voltage level)	0.0%~100.0% (max output frequency)	5.0%
PC-20	Frequency detection value (FDT2 voltage level)	0.00Hz~ max output frequency	50.00Hz
PC-21	Frequency detection hysteresis value (FDT2 voltage level)	0.0%~100.0%	5.0%
PC-22	Any arrival frequency detection value 1	0.00Hz~ max output frequency	50.00Hz
PC-23	Any arrival frequency detection width 1	0.0%~100.0% (max output frequency)	0.0%
PC-24	Any arrival frequency detection value 2	0.00Hz~ max output frequency	50.00Hz
PC-25	Any arrival frequency detection width 2	0.0%~100.0% (max output frequency)	0.0%
PC-26	Timing function selection	0: invalid 1: valid	0
PC-28	Setting operation time	0.0~6500.0Min	0.0Min
PC-29	Present operation reached time	0.0~6500.0Min	0.0Min
PC-30	Setting power on reached time	0 ~ 65000h	0
PC-32	Setting operation reached time	0 ~ 65000h	0
PC-34	Any reaching current 1	0.0%~300.0% (motor rated current)	100.0%
PC-35	Any width of reaching current 1	0.0%~300.0% (motor rated current)	0.0%
PC-36	Any reaching current 2	0.0%~300.0% (motor rated current)	100.0%
PC-37	Any width of reaching current 2	0.0%~300.0% (motor rated current)	0.0%
PC-38	Zero current detection level	0.0%~300.0% (motor rated current)	5.0%
PC-39	Zero current detection delay time	0.01s~600.00s	0.10s
PC-40	Software overcurrent point	0: 0.0% (not detect) 1: 0.1%~300.0% (motor rated current)	200.0%
PC-41	Software overcurrent detection delay time	0.00s~600.00s	0.00s
PC-42	AI input voltage lower limit	0.00V~PC-43	3.10V
PC-43	AI input voltage upper limit	PC-42~10.50V	6.80V
PC-44	Overtoltage point setting	200V model: 200~400V 380V model: 540~810V	200V: 400V 380V: 810V
PC-45	Undervoltage point setting	200V model: 200~400V 380V model: 200~537V	200V: 200V 380V: 350V
PC-46	Operation action with frequency lower than the lower limit frequency	0: run at lower limit frequency 1: stop 2: run at zero speed	0
PC-47	Module temperature reached	0°C~100°C	75
PC-48	Cooling fan control	0: The fan runs during operation 1: The fan is running all the time	0
PC-49	Droop control	0.00Hz~10.00Hz	0.00Hz

Group PC: Auxiliary operation parameters			
Parameter	Name	Setting range	Default value
PC-50	Terminal jog run priority	0: invalid 1: valid	0
PC-51	SVC optimization selection	1: Optimization mode 1 2: Optimization mode 2	2
PC-52	Dead area compensation mode	0: No compensation 1: Compensation mode 1	1
PC-54	Modulation mode	0: Asynchronous Modulation 1: Synchronous modulation	0
PC-55	DPWM switching upper limit frequency	5.00Hz~max output frequency	12.00Hz
PC-56	Random PWM depth	0: Random PWM invalid 1~10: PWM carrier frequency random depth	0
PC-57	Wake up frequency	PC-59~P0-13	0.00Hz
PC-58	Wake up delay time	0.0s~6500.0s	0.0s
PC-59	Dormancy frequency	0.00Hz~PC-57	0.00Hz
PC-60	Dormancy delay time	0.0s~6500.0s	0.0s
PC-61	Wave by wave current limiting enable	0: Not enable 1: Enable	1
PC-62	Current detection compensation	98~200	98
PC-65	Bus voltage reached value	Unit: 0.1V	500.0
PC-66	The bus voltage reached hysteresis value	Unit: 0.1V	50.0
PC-67	Carrier frequency	0.5K~16.0K	Model setting
PC-68	The carrier frequency is adjusted with temperature	0: invalid 1: valid	1
PC-72	External linear speed given source	0:Not use external linear speed 1: A11 2: A12 4: Pulse X4 5: Communication	0
PC-73	Maximum allowable update deviation of main frequency	0.00%~10.00%	0.10%
PC-74	Allowed update interval of main frequency	0.00s~200.00s	3.00s
PC-75	Differential time of external linear speed change	0.00s~50.00s	1.00s
PC-76	External linear speed change	0.00Hz~50.00Hz	1.00Hz
Group PF: Torque control			
Parameter	Name	Setting range	Default value
PF-00	Torque control	0: Speed control 1: Torque control	0
PF-01	Drive torque upper limit source	0: Digital setting 1: A11 2: A12 4: PULSE 5: Communication setting 6: Min(A11, A12) 7: Max(A11, A12) (Full scale for options 1-7, corresponding to PF-02 digital setting)	0
PF-02	Drive torque upper limit	-200.0%~200.0%	150.0%
PF-03	Torque control forward direction max frequency source	0: Digital setting 1: A11 2: A12 4: PULSE 5: Communication setting 6: Min(A11, A12) 7: Max(A11, A12) (Full scale for options 1-7, corresponding to PF-02 digital setting)	0
PF-04	Torque control forward direction max frequency	0.00Hz~max output frequency	50.00Hz
PF-05	Torque control reverse direction max frequency source	0: Digital setting 1: A11 2: A12 4: PULSE 5: Communication setting 6: Min(A11, A12) 7: Max(A11, A12) (Full scale for options 1-7, corresponding to PF-02 digital setting)	0
PF-06	Torque control reverse direction max frequency	0.00Hz~max output frequency	50.00Hz
PF-07	Torque acceleration time	0.00s~650.00s	0.00s
PF-08	Torque deceleration time	0.00s~650.00s	0.00s

Group A0: textile			
Parameter	Name	Setting range	Default value
A0-00	Setting length	0m~65535m	1000m
A0-01	Actual length	0m~65535m	0m
A0-02	Pulse number per meter	0.1~6553.5	100.0
A0-03	Setting count value	1~65535	1000
A0-04	Specified count value	1~65535	1000
A0-05	Swing frequency setting mode	0: relative to center frequency 1: relative to the maximum frequency	0
A0-06	Swing frequency range	0.0%~100.0%	0.0%
A0-07	Jump frequency amplitude	0.0%~50.0%	0.0%
A0-08	Swing frequency period	0.1s~3600.0s	10.0s
A0-09	Triangular wave rise time of swing frequency	0.1%~100.0%	50.0%
Group A2: Second motor parameters			
Parameter	Name	Setting range	Default value

Group A2: Second motor parameters			
Parameter	Name	Setting range	Default value
A2-51	Torque upper limit source under speed control mode	0: Parameter setting (A2-52) 1: A11 2: A12 4: PULSE setting 5: Communication setting 6: Min(A11, A12) 7: Max(A11, A12)	0
A2-52	Torque upper limit digital setting under speed control mode	0.0%~200.0%	150.0%
A2-55	Excitation regulation proportional gain	0 ~ 60000	2000
A2-56	Excitation regulation integral gain	0 ~ 60000	1300
A2-57	Torque regulated proportional gain	0 ~ 60000	2000
A2-58	Torque regulated integral gain	0 ~ 60000	1300
Group AD: AI/AO correction			
Parameter	Name	Setting range	Default value

Group AD: AI/AO correction			
Parameter	Name	Setting range	Default value
AD-00	AII measured voltage 1	0.500V~4.000V	Factory calibration
AD-01	AII display voltage 1	0.500V~4.000V	Factory calibration
AD-02	AII measured voltage 2	6.000V~9.999V	Factory calibration
AD-03	AII display voltage 2	6.000V~9.999V	Factory calibration
AD-04	AI2 measured voltage 1	0.500V~4.000V	Factory calibration
AD-05	AI2 display voltage 1	0.500V~4.000V	Factory calibration
AD-06	AI2 measured voltage 2	6.000V~9.999V	Factory calibration
AD-07	AI2 display voltage 2	6.000V~9.999V	Factory calibration
AD-12	AO1 target voltage 1	0.500V~4.000V	Factory calibration
AD-13	AO1 measured voltage 1	0.500V~4.000V	Factory calibration
AD-14	AO1 target voltage 2	6.000V~9.999V	Factory calibration
AD-15	AO1 measured voltage 2	6.000V~9.999V	Factory calibration
Group U0: Monitor parameters			
Parameter	Name	Min unit	Display range

U0-29 Remaining running time 0.1 min 0.0~6500.0 min

U0-30 Present power on time 1 min 0~65000 min

U0-31 Present operation time 0.1min 0.0~6500.0 min

U0-33 Present fault 1 0~56

U0-34 Fault information 1 -

U0-35 Target torque (%) 0.1% -200.0%~200.0%

U0-36 Torque upper limit 0.01% %

U0-41 Power factor angle 0.1° -

U0-42 Setting frequency (%) 0.01% %

U0-43 Operation frequency (%) 0.01% -100.0%~100.0%

U0-44 VF separate target voltage 1V 0V~motor rated voltage

U0-45 VF separate output voltage 1V 0V~motor rated voltage

U0-47 Motor serial number 0: Motor 1
1: Motor 2 -

U0-48 Check any memory address value 1 -

U0-70 Communication feedback motor speed 1 0.1Hz -

U0-71 Communication feedback motor speed 2 1RPM 0~motor rated speed

U0-72 Communication card dedicated current display - -

U0-73 Communication card error status - -

U0-74 Output torque 0.01% -200.00%~200.00%

U0-75 Fault code 0~56



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