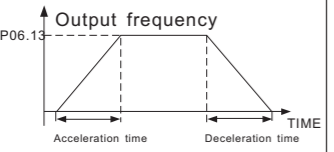


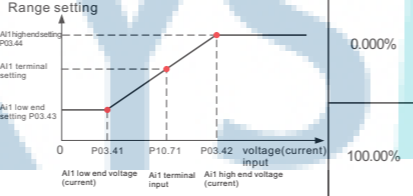
Multi stage speed comparison table

S4	S3	S2	Effective multi stage speed	Apply macro setting frequency
0	0	1	Multi-stage speed 1	100Hz
0	1	0	Multi-stage speed 2	150Hz
0	1	1	Multi-stage speed 3	200Hz
1	0	0	Multi-stage speed 4	250Hz
1	0	1	Multi-stage speed 5	300Hz
1	1	0	Multi-stage speed 6	350Hz
1	1	1	Multi-stage speed 7	400Hz

0: means S terminal no signal
1: means S terminal has signal

NO.6 Carving machine parameter table

Function code	Function	Description (setting range)	Factory default																																				
P01.11	Parameter operation	0: Normal operation 1: Parameter initialization, initialized parameters except P1.XX 2: Initialize all parameters	0																																				
P01.41	local address	0~247 ⊙Function: set local address of AC drive	1																																				
P01.42	Baud rate	0:2400bps 1:4800bps 2:9600bps 3:19200bps 4:38400bps 5~10:reserved ⊙Function: Communication port configuration	3																																				
P01.43	Parity check	0: No check 1: Even parity check 2: Odd check ⊙function: Communication port configuration	0																																				
P01.44	Data bit	7~8 ⊙function: Communication port configuration	8bits																																				
P01.45	Stop bit	0.0~2.0 ⊙function: Communication port configuration	1.0bit																																				
P02.00	Multi-stage speed source	0~11111111 units: S1 tens: S2 hundreds' digit: S3 thousands' digit: S4 ... * P02.00: multi-stage speed source, select corresponding external terminal, multi-stage speed 0~7 refer to P02.30~P02.37 * Example: select S2, S3 and S4 as effective external terminals to control multi-stage speed, P02.00 is set to 1110, and the specific 8-stage speed correspondence is shown in the table above: <table border="1" style="display: inline-table; vertical-align: middle;"> <thead> <tr> <th>S4</th> <th>S3</th> <th>S2</th> <th>Effective multi stage speed</th> </tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>0</td><td>Multi-stage speed 0</td></tr> <tr><td>0</td><td>0</td><td>1</td><td>Multi-stage speed 1</td></tr> <tr><td>0</td><td>1</td><td>0</td><td>Multi-stage speed 2</td></tr> <tr><td>0</td><td>1</td><td>1</td><td>Multi-stage speed 3</td></tr> <tr><td>1</td><td>0</td><td>0</td><td>Multi-stage speed 4</td></tr> <tr><td>1</td><td>0</td><td>1</td><td>Multi-stage speed 5</td></tr> <tr><td>1</td><td>1</td><td>0</td><td>Multi-stage speed 6</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>Multi-stage speed 7</td></tr> </tbody> </table>	S4	S3	S2	Effective multi stage speed	0	0	0	Multi-stage speed 0	0	0	1	Multi-stage speed 1	0	1	0	Multi-stage speed 2	0	1	1	Multi-stage speed 3	1	0	0	Multi-stage speed 4	1	0	1	Multi-stage speed 5	1	1	0	Multi-stage speed 6	1	1	1	Multi-stage speed 7	1110
S4	S3	S2	Effective multi stage speed																																				
0	0	0	Multi-stage speed 0																																				
0	0	1	Multi-stage speed 1																																				
0	1	0	Multi-stage speed 2																																				
0	1	1	Multi-stage speed 3																																				
1	0	0	Multi-stage speed 4																																				
1	0	1	Multi-stage speed 5																																				
1	1	0	Multi-stage speed 6																																				
1	1	1	Multi-stage speed 7																																				
P02.10	Setting (frequency) source F1	0: key board 1: multi-stage speed 2: AI1 3: AI2 5: communication key board setting source: P01.63 0: key board digital set 1: key board potentiometer set	1																																				
P02.18	Max. Setting value	0.000~99999.000 * Principle explanation: limit the range of setting value. When each setting source is in%, the maximum setting value (P02.18) represents 100%, means the maximum setting value is taken as the benchmark.	400.000Hz																																				
P02.24	Jog frequency	- 1000.000%~1000.000% Function: set jog frequency, jog command refers to P03.03	10.000%																																				
P02.30	Multi-stage speed 0	Function: multi0stage setting, relative P02.18 Maximum set percentage	0.000%																																				
P02.31	Multi-stage speed 1		25.000%																																				
P02.32	Multi-stage speed 2		37.500%																																				
P02.33	Multi-stage speed 3		50.000%																																				
P02.34	Multi-stage speed 4		62.500%																																				
P02.35	Multi-stage speed 5		75.000%																																				
P02.36	Multi-stage speed 6		87.500%																																				
P02.37	Multi-stage speed 7		100.00%																																				
P02.50	Acceleration time	0.050s~3600.000s * Principle explanation: As shown in the figure, the acceleration time refers to the acceleration from 0Hz to P06.13 time required for rated frequency of motor 	5.000s																																				
P02.70	Deceleration time																																						

Function code	Function	Description (setting range)	Factory default																																				
P03.00	Startup command source	0: no effect 1: key board 2: communication 3: S1 4: S2 5: S3 6: S4	3																																				
P03.01	Reverse startup command source		0																																				
P03.02	Reverse command source	Function: select the command source (when the corresponding command source is the key board, the reverse command, jog command and free parking command all come from the key board custom key M)	0																																				
P03.03	Jog command source		1																																				
P03.04	Stop command source	* Reverse startup command: the setting value is reversed and the start command is issued. * Reverse command: the setting value is reversed. * Jog command: jog function. The priority is higher than the start command and lower than the stop command.	0																																				
P03.05	Free parking command source		0																																				
P03.06	Free parking command source	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td> </tr> <tr> <td>S14</td><td>S13</td><td>S12</td><td>S11</td><td>S10</td><td>S9</td><td>S8</td><td>S7</td><td>S6</td> </tr> <tr> <td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td><td></td> </tr> <tr> <td>S5</td><td>S4</td><td>S3</td><td>S2</td><td>S1</td><td>Command</td><td>Key board</td><td>No effect</td><td></td> </tr> </table>	16	15	14	13	12	11	10	9	8	S14	S13	S12	S11	S10	S9	S8	S7	S6	7	6	5	4	3	2	1	0		S5	S4	S3	S2	S1	Command	Key board	No effect		1
16	15	14	13	12	11	10	9	8																															
S14	S13	S12	S11	S10	S9	S8	S7	S6																															
7	6	5	4	3	2	1	0																																
S5	S4	S3	S2	S1	Command	Key board	No effect																																
P03.30	Y1 terminal source (RA, RB or RA1, RB1)	0: always 0 1: always 1 2: stopped already 3: running 4: fault 5: alarm 6: reversing 7: ready 1350: running at 0 speed 1351: frequency arrived Note: Only when setting carving machine application macro, 1350 and 1351 are valid.	4																																				
P03.32	Y2 terminal source (RA2, RB2)		1351																																				
P03.34	Y3 terminal source (RA3, RB3, RC3)		1350																																				
P03.41	AI1 low end voltage (current)	- 999999.000~999999.000 ⊙function: analog input AI1 setting * AI1 low end voltage (current): set minimum voltage (current) of input signal.	0.200V(mA)																																				
P03.42	AI1 high end voltage (current)	* AI1 high end voltage (current): set Max. Voltage (current) of input signal. * AI1 low end setting: set the corresponding value of low-end voltage. * AI1 high end setting: set the corresponding value of high-end voltage.	9.800V(mA)																																				
P03.43	AI1 low end setting	Range setting 	0.000%																																				
P03.44	AI1 high end setting		100.00%																																				
P05.00	Control mode	0: VF 1: vector control function: Select motor control algorithm	1																																				
P05.20	Stop function	units: 0: free parking; 1: DC braking Tens: 1: Precise parking * Principle explanation: During the stop process, when the output frequency is less than the stop frequency, the stop function starts to work. Precise parking: when parking at any speed, the number of motor turns is the same, so as to realize the one-to-one repeatability of parking position. To achieve the best results, the deceleration time shall be extended as far as possible without triggering the over voltage and over current stall prevention function.	1																																				
P05.21	Stop frequency	0.000Hz~1000.000Hz The explanation refers to P05.20	10.000Hz																																				
P05.22	DC braking current	0.000%~300.000% Set the current of DC braking	100.000%																																				
P05.23	DC braking time	0.000s~1000.000s When it is set to 1000.000, keep braking until the free stop or startup signal is received.	1.000s																																				
P06.05	Carry frequency	2kHz~16kHz ⊙Function: Set carry frequency	*kHz																																				
P06.11	Motor rated power	0.000kW~100000.000kW ⊙Function: Set motor rated parameter	*kW																																				
P06.12	Motor rated voltage	0V~1000V ⊙Function: Set motor rated parameter	*V																																				
P06.13	Motor rated frequency	1Hz~3000Hz ⊙Function: Set motor rated parameter	400Hz																																				
P06.14	Motor rated current	0.00A~1000.00A ⊙Function: Set motor rated parameter	*A																																				
P10.61	Current fault	-	0																																				
P10.62	Previous fault	-	0																																				
P10.63	The first two faults	-	0																																				

Function code	Function	Description (setting range)	Factory default
P11.10	Output frequency of current fault	-	0.0Hz
P11.11	Output current of current fault	-	0.00A
P11.12	Bus voltage of current fault	-	0.0V
P11.13	AC drive temperature of current fault	-	0°C
P11.14	S terminal status of current fault	-	0
P11.15	Y terminal status of current fault	-	0
P11.16	Cumulative power on time of current fault	-	0.000h
P12.06	Motor rated speed	10rpm~65535rpm ⊙Function: Set motor parameter	24000rpm

NO.7 Fault code

Fault Code	Protection function	Description
E0001	system abnormality	AC drive hardware failure or software failure
E0004	ground fault	Abnormal resistance to ground, cause electric leakage
E0005	short circuit to ground	short circuit to ground
E0006	output short circuit	inverter cut off output when inverter output current is 250% larger than inverter rated current.
E0007	output over current	inverter cut off output when inverter output current is 200% larger than inverter rated current.
E0008	DC bus over voltage	inverter cut off output if main circuit DC voltage is higher than 400V(220V motor type) or 800V(380V motor type) when motor decelerates.
E0009	DC bus low voltage	input voltage decrease, inverter cut off output if main circuit DC voltage too low.
E0010	inverter over heat	inverter cut off output if cooling fan is over heat.
E0011	self-learning failure	self-learning parameter wrong or motor abnormal.
E0013	rectifier over heat	rectifier module over heat.
E0014	U phase loss	output U phase loss.
E0015	V phase loss	output V phase loss.
E0016	W phase loss	output W phase loss.
E0019	no motor connect	motor lost connection during operation.
E0020	input phase loss	power input phase loss.
E0021	inverter over load	inverter cut off output when inverter output current ex (120%) 60S
E0022	over torque	motor over torque
E0024	motor over heat	motor temperature is over heat.
E0025	motor over load	inverter cut off output when inverter output current ex (120%) 60S
E0026	current limit	output current exceed setting limit threshold.
E0027	Input power down	The input voltage is lower than the power down standard value (P05.86)
E0033	ST0	Safe torque output stop function operation
E0034	ST1	Alarm of ST1 internal circuit diagnosis
E0035	ST2	Alarm of ST2 internal circuit diagnosis
E0036	ST3	Alarm of internal circuit diagnosis
E0063	user fault	user defined fault(P03.08)

Note: The alarm code is compared to the above table, for example: the keyboard displays "A0025" which means the motor overload alarm.