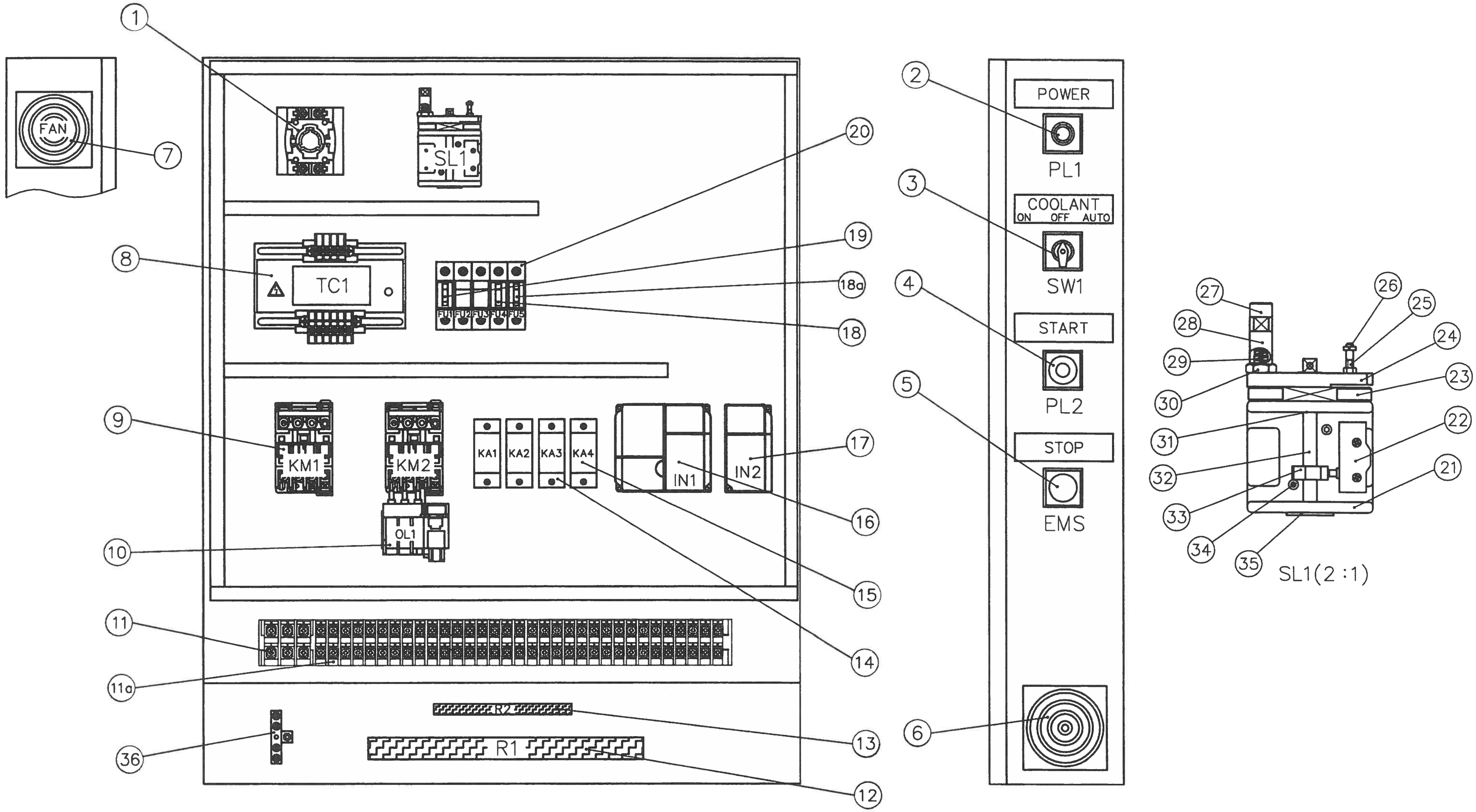
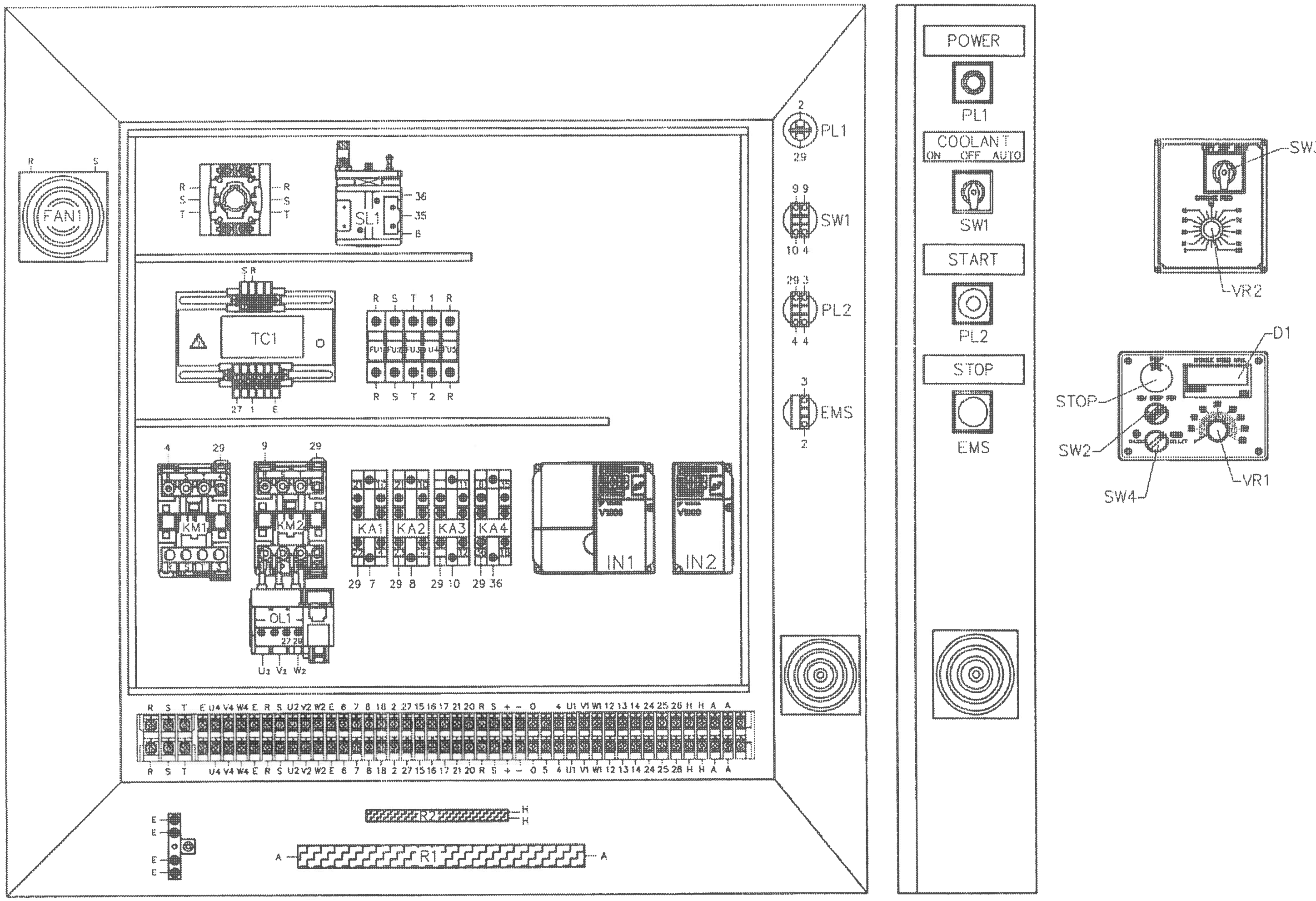
ELECTRIC CONTROL PANEL

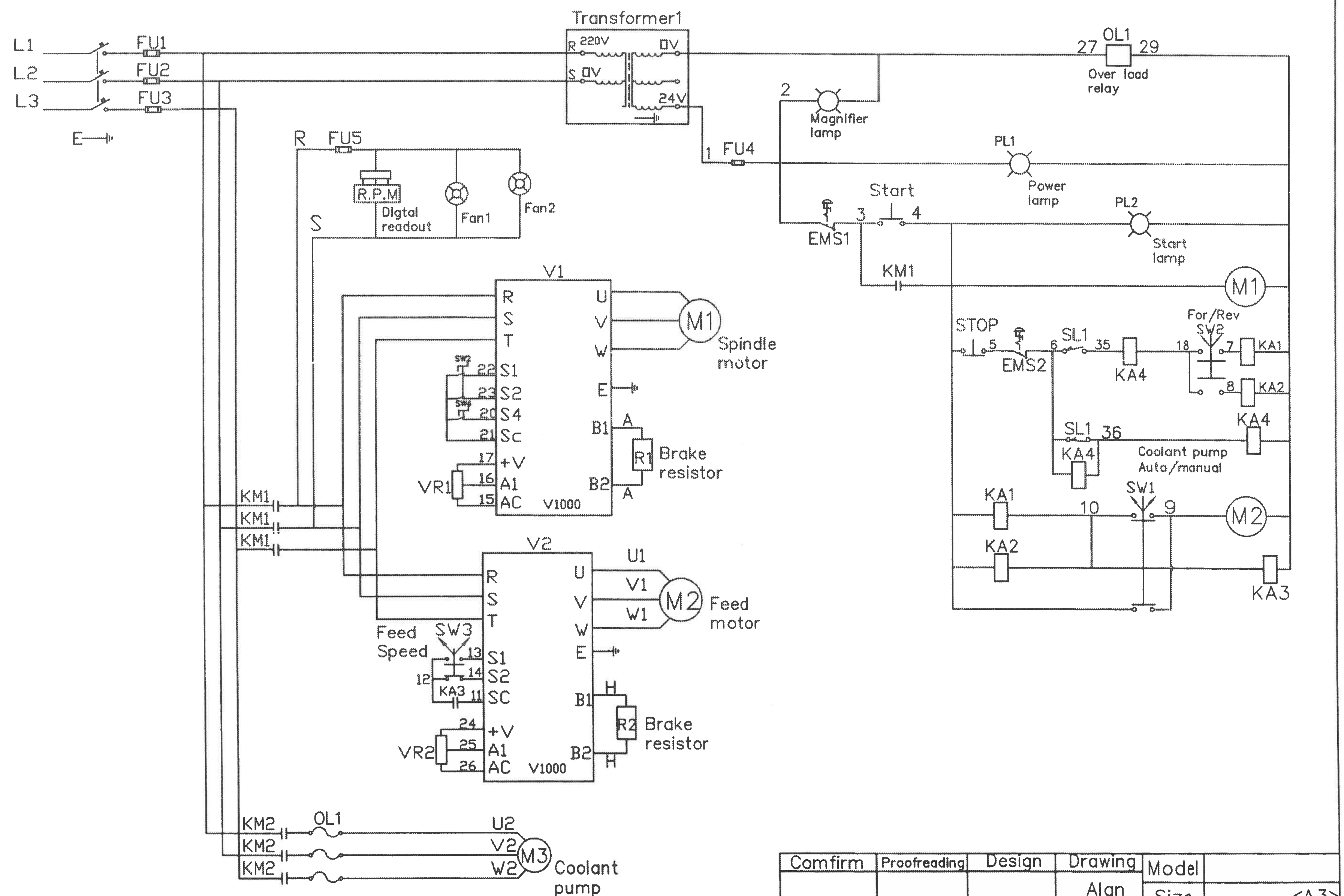
KEY	PARTS NUMBER	PCS	PARTS NAME
1	TO-2-1/V/SVB	1	DISCONNECT SWITCH
2	30mm 24V W	1	INDICATE LIGHT
3	30mm 2a 3 B	1	SELECT SWITCH
4	30mm 1a 24V G	1	PUSH BOTTON
5	30mm 1b R	1	PUSH BOTTON
6	4"	1	PLASTIC COVER FILTER
7	4" 220V	1	FAN
8	260VA 220V	1	TRANSFOMER
9	CU-11 3A1a 24V	2	CONTACTOR
10	RHU-10K1 0.75-1A	1	OVERLOAD RELAY
11	NHT-3.5 30A	1	TERMINAL STRIP
11a	NHT-2 20A	14	TERMINAL STRIP
12	600W40Ω	1	BRAKE
13	70W200Ω	1	BRAKE
14	PYF08A-E	4	RELAY BASE
15	MY2N-GS AC24V	4	POWER RELAY
16	V1000 3HP 220V	1	INVERTER
17	V1000 0.5HP 220V	1	INVERTER
18	10*38 4A	1	FUSE
18a	10*38 6A	1	FUSE
19	10*38 20A	3	FUSE
20	10*38 1P	5	FUSE BASE
21	L-6701	1	SWITCH BASE
22	Z-15GD-B	1	LIMITE SWITCH
23	L-6706	1	SLEEVE
24	L-6702N	1	SWIVEL ARM
25	L-6703	1	RETAINING BOLT
26	BB/PHS5	1	BEARING
27	SA10008	2	SCREW
28	L-6707	1	SPRING SEAT
29	L-6708	1	SPRING
30	LT-01-247	1	NUT
31	BD10	1	BALL
32	L-6704	4	GEAR SHAFT
33	L-6705	1	ECCENTRIC RING
34	SA04012	2	SCREW
35	L-6710	2	BUSHING
36	4P	1	GROUND TERMINAL


FAN
SL1
TC1
FU1 FU2 FU3 FU4 FU5
KM1
KM2
OL1
KA1
KA2
KA3
KA4
IN1
IN2
R2
R1
POWER
PL1
COOLANT
ON OFF AUTO
SW1
START
PL2
STOP
EMS
SL1(2 :1)



M1	Spindle motor
M2	Feed motor
M3	Coolant pump
V1	Yaskawa V1000 2.2kw
V2	Yaskawa V1000 0.4kw
SW1	Coolant pump switch
SW2	Motor forward and Reverse switch
SW3	Feed motor switch
EMS1	Emergency stop switch
STOP	stop switch
VR1	Spindle speed select knob
VR2	Feed speed select knob
PL1	Power light
PL2	Start light
S1	Start botton
FU1	Fuse
FU2	Fuse
FU3	Fuse
FU4	Fuse
FU5	Fuse
KM1	Spindle motor contactor
KM2	Coolant pump contactor
KA1	Forward/Reverse power relay
KA2	Forward/Reverse power relay
KA3	Feed motor power relay
KA4	Power relay
R1	Spindle motor brake resistor
R2	Feed motor brake resistor
SL1	limit switch
SL2	limit switch
Fan1	Fan
D1	Digital readout
IN1	Yaskwa 2.2kw inventer
IN2	Yaskwa 0.4kw inventer
OL1	Coolant pump over relay

CTL-618EVS



Comfirm	Proofreading	Design	Drawing	Model	
			Alan 110.8.2	Size	<A3>
				Name	CTL-618EVS electric diagarm
				NO.	

YASKAWA V1000 3HP

Modified Parameter Settings Report (Program)

Parameters		Value Unit	Information	Default Setting	Unit
A1 Initialization					
A1-02	Control method	2	Open-loop vector control 1	0	
C1 Acceleration and Deceleration Times					
C1-01	Acceleration time 1	3.0 sec		10.0	sec
C1-02	Deceleration time 1	3.0 sec		10.0	sec
C1-05	Acceleration time 3 for motor 2	3.0 sec		10.0	sec
C1-06	Deceleration time 3 for motor 2	3.0 sec		10.0	sec
C6 Carrier Frequency					
C6-01	Duty Cycle	0	HD(CT)	1	
C6-02	Carrier frequency selection	06	Fc = 15.0KHz	03	
d1 Frequency Reference					
d1-17	Jog frequency reference	6.04 Hz		6.00	Hz
E1 Motor 1 V/F Pattern Characteristics					
E1-01	Input voltage setting	220 VAC		200	VAC
E1-04	Max. output frequency	148.4 Hz		60.0	Hz
E1-05	Max. voltage	221.0 VAC		200.0	VAC
E1-06	Base frequency	50.0 Hz		60.0	Hz
E1-08	Mid output frequency voltage	10.1 VAC		12.0	VAC
E1-10	Min. output frequency voltage	2.1 VAC		2.5	VAC
E1-13	Base voltage	140.0 VAC		0.0	VAC
E2 Motor 1 Setup					
E2-01	Motor rated current	12.00 A		8.50	A
E2-02	Motor rated slip	2.78 Hz		2.90	Hz
E2-03	Motor no-load current	5.45 A		3.00	A
E2-05	Motor line-to-line resistance	0.730 Ohm		1.601	Ohm
E2-07	Saturation Comp 1	0.40		0.50	
E2-08	Saturation Comp 2	0.69		0.75	
E3 Motor 2 V/F Pattern Characteristics					
E3-01	Motor 2 control method selection	2	Open-loop vector control 1	0	
E3-04	Motor 2 Max frequency	199.5 Hz		60.0	Hz
E3-05	Motor 2 Max voltage	217.0 VAC		200.0	VAC
E3-06	Motor 2 base frequency	50.0 Hz		60.0	Hz
E3-08	Motor 2 Mid voltage	10.1 VAC		12.0	VAC
E3-10	Motor 3 Min voltage	2.1 VAC		2.5	VAC
E3-13	Motor 2 base voltage(VBASE)	140.0 VAC		0.0	VAC
E4 Motor 2 Setup					
E4-01	Motor rated current	12.00 A		8.50	A
E4-02	Motor 2 rated slip	2.51 Hz		2.90	Hz
E4-03	Motor 2 no-load current	5.46 A		3.00	A
E4-05	Motor 2 term resistance	0.716 Ohm		1.601	Ohm
E4-07	Motor 2 Saturation Comp 1	0.40		0.50	
E4-08	Motor 2 Saturation Comp 2	0.69		0.75	
H1 Multi-Function Digital Inputs					
H1-04	Terminal S4 function selection	16	Motor switch command (Motor 2 select)	14	
H5 MEMOBUS/Modbus Communications					
H5-01	Station address	0B		1F	
H5-02	Communication speed selection	4	19200 bps	3	
L3 Stall Prevention Function					
L3-01	StallP acceleration selection	2	Intelligent acceleration mode	1	
L3-03	StallP CHP level	70 %		50	%
L3-04	StallP deceleration selection	0	Disabled - The drive decelerates at the selected Dec time.If	1	

YASKAWA V1000 0.5HP

Modified Parameter Settings Report (Program)

Parameters		Value	Unit	Information	Default Setting	Unit
A1 Initialization						
A1-02	Control method	2		Open-loop vector control 1	0	
C1 Acceleration and Deceleration Times						
C1-01	Acceleration time 1	4.0	sec		10.0	sec
C1-02	Deceleration time 1	3.0	sec		10.0	sec
C6 Carrier Frequency						
C6-01	Duty Cycle	0		HD(CT)	1	
E1 Motor 1 V/F Pattern Characteristics						
E1-01	Input voltage setting	220	VAC		200	VAC
E1-04	Max. output frequency	120.0	Hz		60.0	Hz
E1-05	Max. voltage	220.0	VAC		200.0	VAC
H4 Multi-Function Analog Outputs						
H4-01	Multi-Function Analog 1	103		Output current	102	
H4-02	Multi-Function Analog 1	50.0	%		100.0	%
H5 MEMOBUS/Modbus Communications						
H5-01	Station address	0C			1F	
H5-02	Communication speed selection	4		19200 bps	3	
L1 Protection						
L1-01	Motor protection selection	2		Inverter motor protection	1	
L3 Stall Prevention Function						
L3-04	StallP deceleration selection	0		Disabled - The drive decelerates at the selected Dec time.If	1	