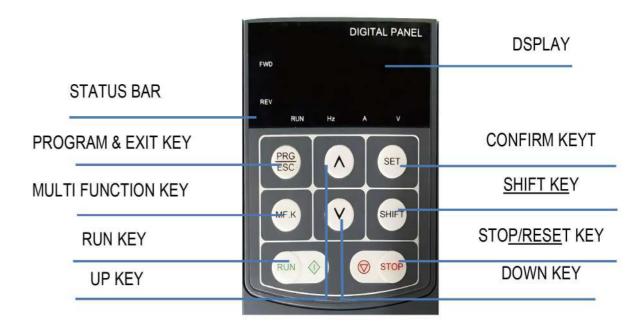


AC DRIVE MODEL NVERTER POWER RATED INPUT RATED OUTPUT SERIAL NUMBER *JU300017EG290134 MODEL: DV30L S075E43 POWER: 7.5 KW INPUT: 3PH 380V ±20% 50/60HZ 28.5A OUTPUT: 3PH0-380V 0-500HZ 17A S/N: *JU300017EG290134

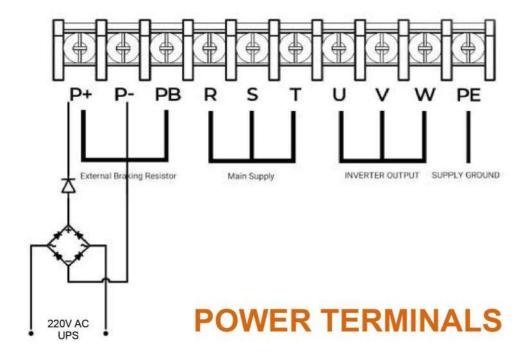
MODEL			SIZ	E (MM)		
	A	В	H	Н1	W	D
DV30L-4T-4.0	79	232	220	1	119	168
DV30L-4T-5.5	126	268	255	1	146	178
DV30L-4T-7.5	126	268	255	255 /		178
DV30L-4T-11	126	268	255	1	146	178
		м 4-D	0000	00		

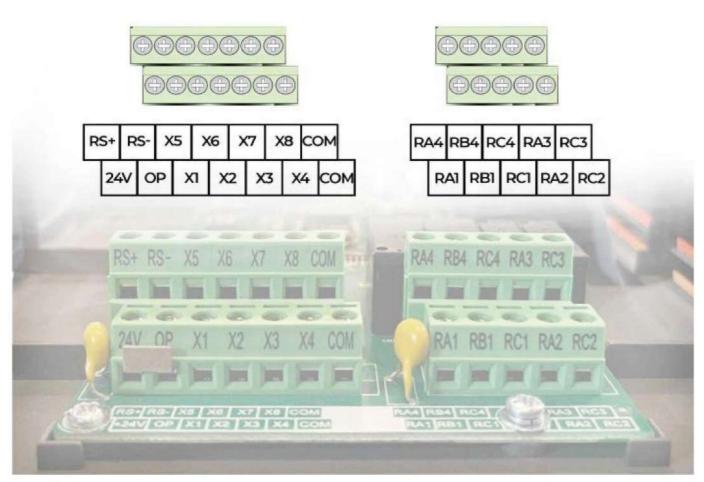
KEYPAD



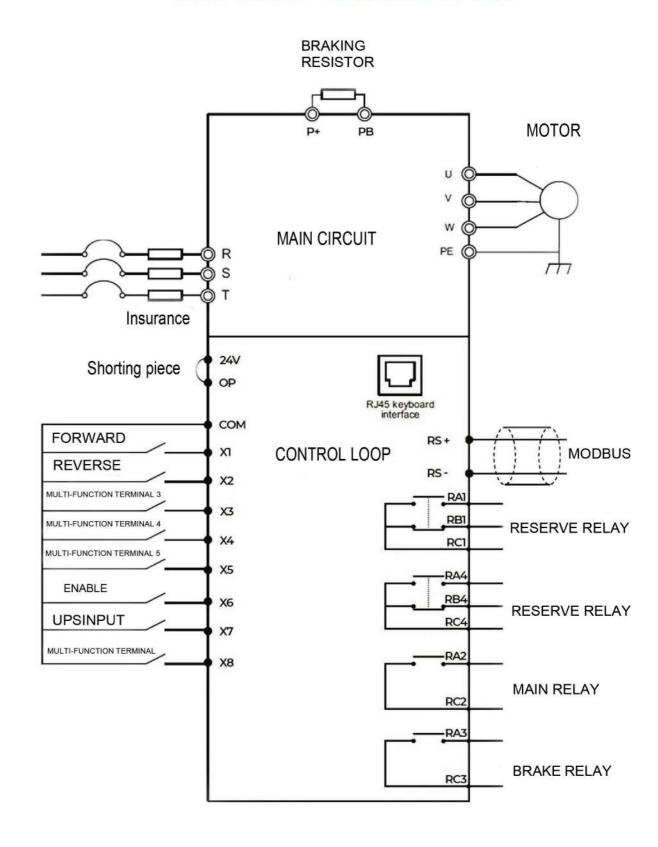
DISPLAY	CHARACTER	DISPLAY	CHARACTER	DISPLAY	CHARACTER
0	0	1	1	2	2
3	3	4	4	5	5,S
5	6	7	7	8	8
9	9	R	Α	Ь	В
E	С	C	С	Ь	D
Ε	E	F	F	L	L
Π	N	Р	р	r	R
Γ	Т	U	U	u	U

IN/OUT TERMINALS



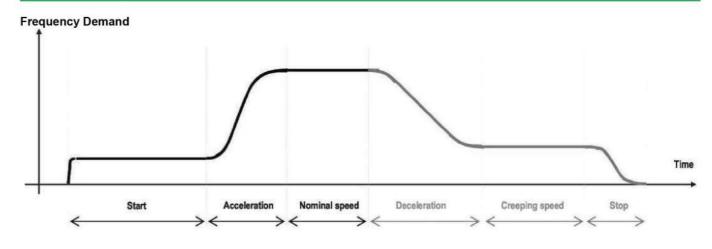


WIRING DIAGRAM



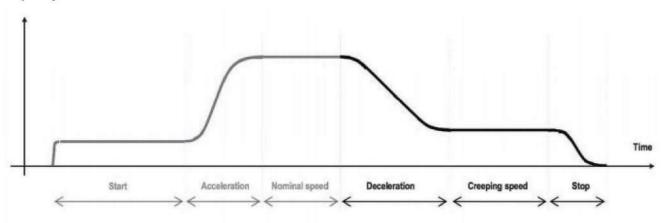
Event	Descriptions	Function	Drive Status
440	-Drive healthy		DUN
ta	-MC and brake Contactor are energised	_	RUN
	-Drive Trip		
tb	-IGBTs disable	-	Trip
	-Brake contactor de-energised		
tc	-MC contactor got de-energised provided drive IGBTs are disabled after 0.1 sec		Trip
t1	-Drive waits to enable by lift controller	2 1 - 10	Inhibit
	-Drive MC contactor output energized when direction demand command enable by the lift		
t2	controller.	P8-60	Ready
	-Desired preset speed reference command enable by lift controller		
t3	-Drive IGBTs immediately go into active mode after the desire drive run permit delay ON set	P8-60	STOP
	time has elapse.		
	-DC injection active		
t4	-Motor brake contactor energized when motor current demand excess the brake release	P6-05	RUN
	current level and brake release frequency		
	-Motor brake contactor is energized	P6-06	
	-Optimize profile generator active	P8-55	
		P8-56	
t5	-Motor start to run		RUN
		P8-57	
		P6-03	
		P6-04	
t6	-DC injection 1 disable after the desired set time has elapsed	P6-06	RUN
t7	-Start optimizer profile generator disable after the desired set time has elapse.	P6-04	RUN
		P6-08 P6-09	
t8	-Motor ramp up to the desire preset speed reference.	PO-17	RUN
	24-52 /A 48 48 49	PC-Ox	
t9	-Drive output at speed status	PC-Ox	RUN
		P6-08	
	-Change of preset speed reference demand	P6-09	BUN
t10	-Motor ramp down to the desire preset speed reference	PO-17	RUN
		PC-Ox	
t11	-Drive output at speed status	PC-Ox	RUN
t12	-Direction demand command disabled	P6-08	P6-3 P8-56 P8-59
	-Motor ramp down to zero speed	P6-09	
t13	-DC injection active when drive output falls below the DC injection 2 frequency threshold	PO-18	
t14	-Brake contactor got de-energise when the drive output frequency fall below the brake apply	P6-11	
.14	frequency	1 V-11	
t15	-DC injection still active when brake contactor got de-energise.	P6-13	RUN
t16	-DC injection disable after the desire set time has elapse	P6-14	STOP
t17	-Drive IGBTs got disable	••	Ready
	-MC contactor delay OFF time active		rteady
t18	-MC contactor de-energise after the desire set time has elapse	P8-61	Inhibit

4.2 Elevator performance fine tuning

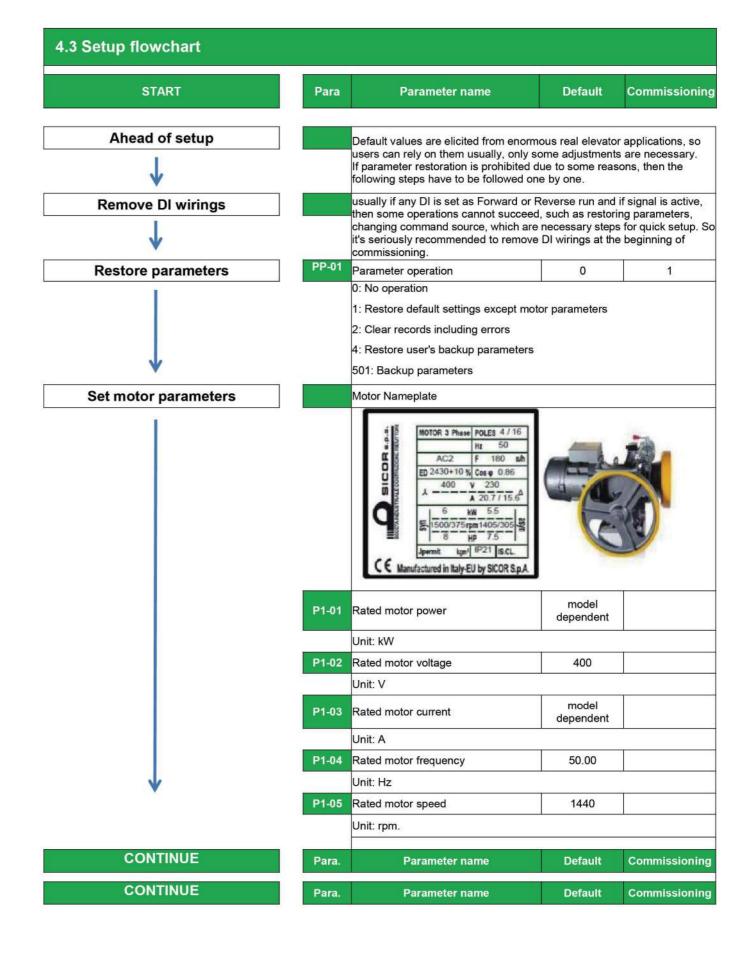


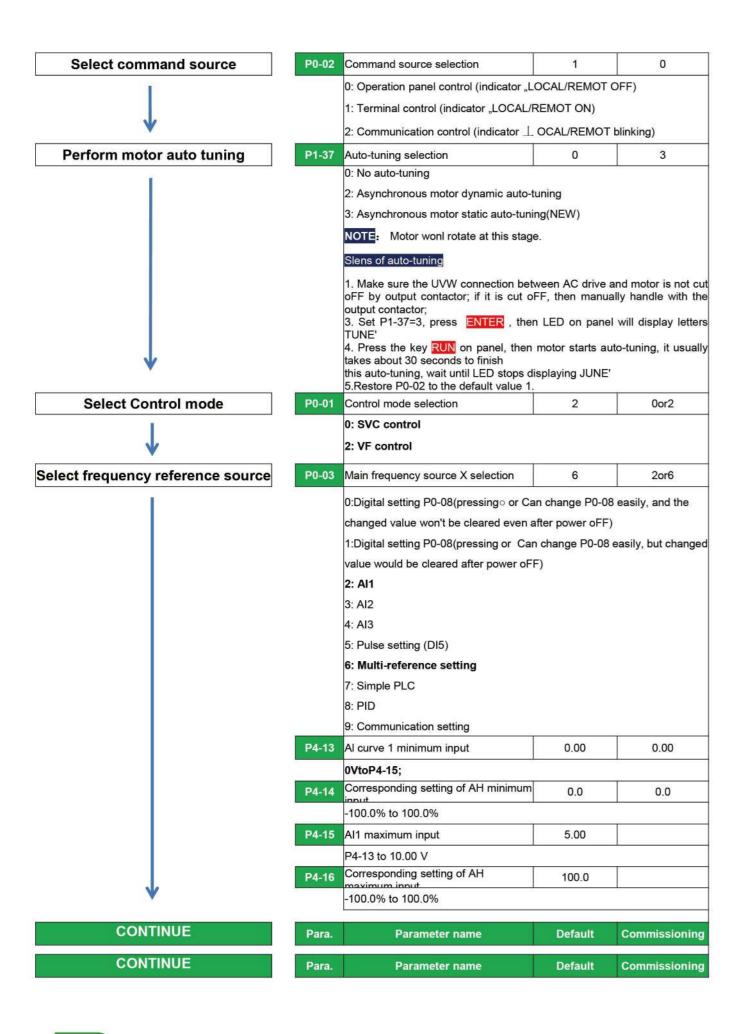
Stage	age Symptom Diagnostics		Remedies		
		Brake device releases too early	Increase P8-57,ranging 0 to 0.5s		
	Rollback	Start frequency is too low	Increase P6-03, ranging 0to1.5Hz		
Start		Torque output isinsuFFicient	Make sure P3-00=0, P3-01=0		
		Brake device releases too late	Decrease P8-57, ranging 0 to 0.5s		
	Starting jerk	Start frequency is too high	Decrease P6-03, ranging 0 to1.5Hz		
	Jerk when acceleration starts	Too fast acceleration at this section	Increase P6-08, ranging 0 to 80%; Or increase P0-17, ranging 0 to 20s		
3	Jerk when acceleration end	Too fast acceleration at this section	Increase P6-09, ranging 0 to (95-(P6- 08))% Or increase PO-17, ranging 0 to 20s		
Acceleration	Overshoot when acceleration ends	Too big speed loop PI gains	Decrease P2-03, ranging Oto 100 Or increase P2-04, ranging Oto 10		
	Vibration	Too small margin between P2-02 and P2-05	Make sure P2-05 - P2-02 > 3H ∠ usually increase P2-05, ranging from P2-02 to 7Hz		
		Overcurrent stall prevention occurs	Make sure P3-18=170%		
Nominal		Too big speed loop PI gains	Decrease P2-00 or P2-03, ranging 0 to 100; Or increase P2-01 or P2-04, ranging 0.01 to 10.00		
speed	Vibration	Too big current loop PI gains	Double check the motor parameters and then perform motor auto-tuning once more		

Frequency Demand

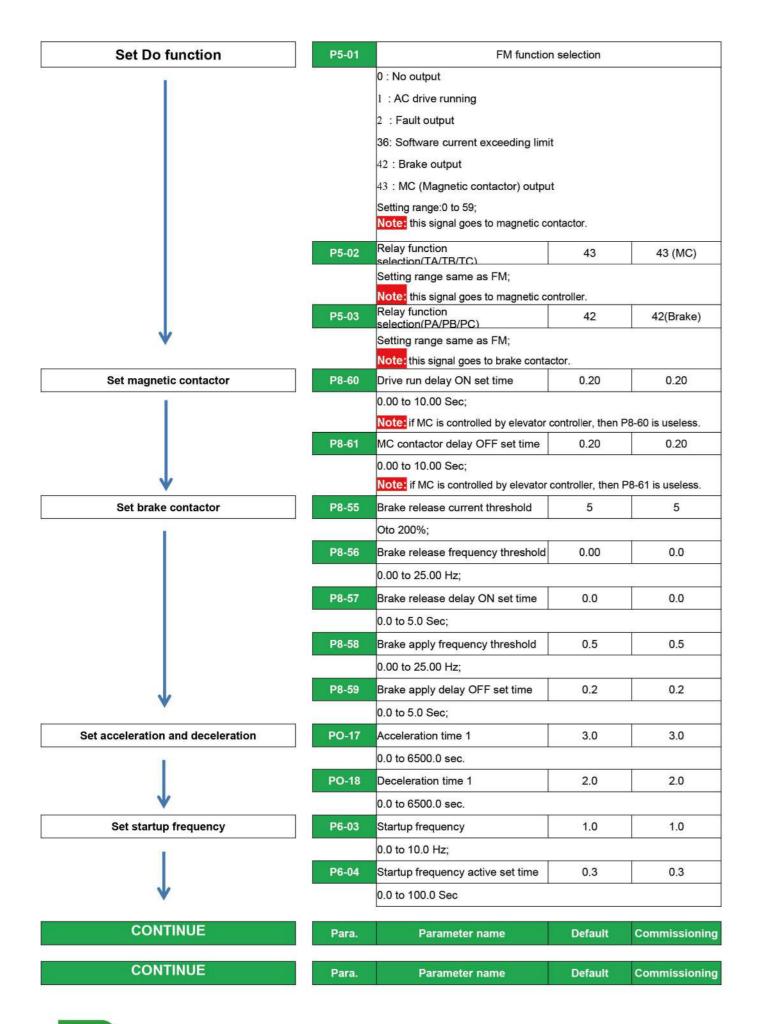


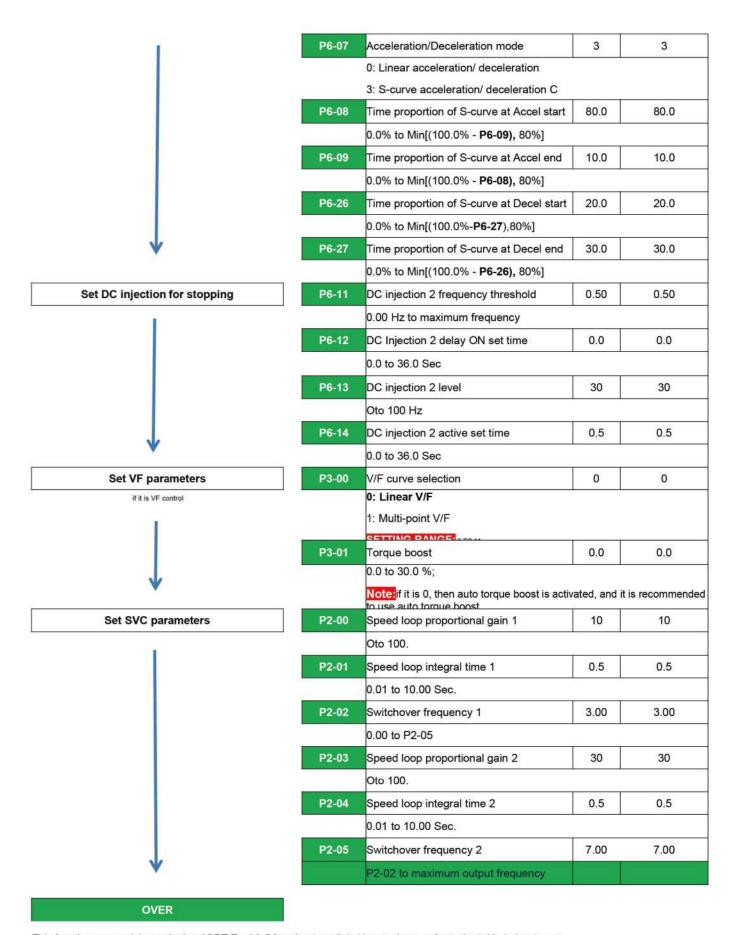
Stage Symptom Diagnostics		Diagnostics	Remedies		
	Jerk when deceleration starts	Too fast deceleration at this section	Increase P6-26, ranging 0 to 80%; Or increase PO-18, ranging 0 to 20s		
Deceleration	Vibration	Overcurrent stall prevention occurs	Make sure P3-18=170%		
	Jerk when deceleration ends	Too fast deceleration at this section	Increase P6-27, ranging 0 to 80%; Or increase PO-18, ranging 0 to 20s		
	Vibration	Torque output isinsuFFicient	Make sure P3-00=0, P3-01=0		
Creeping	Elevator gets stuck	Torque output isinsuFFicient	Make sure P3-00=0, P3-01=0		
speed	Move much slower	Torque output isinsuFFicient	Make sure P3-00=0, P3-01=0		
	than expected	Too small creeping speed setting	Increase P4-16, ranging 0 to 100%; Or decrease relevant multi-reference		
	Jerk	Too fast deceleration at this section	1. Increase P6-27, ranging 0 to 80%; Or increase PO-18, ranging 0 to 20s; 2. Use second deceleration time P8-04: First, set P8-04 bigger than P0-18, ranging P0-18to20s; then set P8-26= creeping speed		
		Braking device applies too early	Make sure P8-58=0.5Hz, then increase P8-59,ranging 0 to 0.5s		
		Too strong DC injection at stop	Decrease P6-13, ranging 0 to 100%		
		Too short DC injection active time at stop	Increase P6-14,ranging Oto 1s		
	Slip	Too weak DC injection at stop	Increase P6-13, ranging 0 to 100%		
Stop	Siip	Braking device applies too late	Make sure P8-58=0.5Hz, then decrease P8-59, ranging Oto0.5s		
 - 	Inaccurate levelling position	Too slow deceleration	1. If P8-04 is not applied, then decrease P0- 18, ranging 0 to 20s; 2. If P8-04 is applied, then firstly decrease P8-04 ranging P0-18to20s; secondly set P8-26 = creeping speed		
		Slip occurs	Refer to problem "Slip"		
	Levelling varies with diFFerent loads	Too weak slip compensation	For SVC, increase P2-06 or F 2-00; For VF, increase P3-09		





0.0 to 100.0%. Notice Poc 25 as set as recept speed of elevator. PC-04 Reference 4 40.0 40.00 0.0 to 100.0%. Notice Poc 04 is set as inspection speed of elevator. PC-08 Reference 8 20.0 20.0 0.0 to 100.0%. Notice Poc 04 is set as inspection speed of elevator. PC-09 Reference 8 20.0 20.0 0.0 to 100.0%. Notice Poc 05 is set as ARD speed of elevator. PC-09 Induction 1 1 (Forward RUN (FWD) 2: Reverse RUN (REV) 3: (GBT Enable 9: Fault reset (RESET) 12: Multi-reference terminal 3 Setting range (Terminal 2) 14: Multi-reference terminal 3 Setting range one as DIT; Notice this signal comes from elevator controller. PC-09 DIS function selection 2 (Reverse Setting range same as DIT) Notice this signal comes to netwards roundler. PC-09 DIS function selection 12 12 Setting range same as DIT 100.00 DIS subsless, just leave it a multi-reference is used as frequency reference, then bignal anominal speed comes from elevatorioriotic. PC-09 DIS function selection 13 13 Setting range same as DIT. Notice transpillation selection 13 13 Setting range same as DIT. Notice transpillation selection 13 13 Setting range same as DIT. Notice transpillation selection 13 13 Setting range same as DIT. Notice transpillation selection 14 14 Notice transpillation selection 15 is used as the sum of the signal creep speed comes from elevatorioriolist. PC-09 Titallife. PC-00 DIS function selection 0 0 setting range same as DIT; Notice transpillation selection 0 0 setting range same as DIT; Notice transpillation selection 0 0 setting range same as DIT;	Set multi-reference values	PC-01	Reference 1	100.0	100.00		
Note: PC-01 is set as nominal speed of elevator. Reference 1 11.0 11.0 11.0 11.0 11.0 11.0 11.0 1	if multi reference in fraguescus reference		0.0 to 100.0%.				
0.0 to 100.0%, Notice Pocos is set as orespaped of elevator. PC-04 Reference 4 4.0.0 40.00 0.0 to 100.0%, Notice PC-04 is set as inspection speed of elevator. PC-08 Reference 8 20.0 20.0 0.0 to 100.0%, Notice PC-04 is set as inspection speed of elevator. PL-00 DIf function selection 1 1 (Forward Or Notice) PC-05 is set as ARD speed of elevator. PL-00 DIf function selection 1 1 (Forward Or Notice) PC-05 is set as ARD speed of elevator. PL-00 DIf function selection 1 1 (Forward Or Notice) PC-05 is set as ARD speed of elevator. PL-00 DIF function selection 1 1 (Forward Or Notice) PC-05 is set as ARD speed of elevator. PL-01 DIF function selection 2 (Resett) PC-05 is set as Setting range of to 59; Notice this signal comes from elevator controller. PL-01 DIF function selection 2 (Resetting range same as DIT; Notice Parallegian search as DIT;	if multi-reference is frequency reference		Note: PC-01 is set as nominal speed	d of elevator.			
Note: PC-04 Reference 4		PC-02	Reference 1	11.0	11.0		
PC-04 Reference 4 40.0 40.00 0.0 to 100.0%. Notice PC-04 is set as inspection speed of elevator. PC-08 Reference 8 20.0 20.0 0.0 to 100.0%. Notice PC-08 are as ARD speed of elevator. P4-00 D11 function selection 1 1 (Forward On No function 1: Forward RUN (FWD) 2: Reverse RUN (REV) 8: IGBT Enable 9: Fault reset (RESET) 12: Multi-reference terminal 1 13: Multi-reference terminal 2 14: Multi-reference terminal 3 Setting range 30 to 59; Notice this signal comes from elevator controller. P4-01 D12 function selection 2 (Reverse Setting range same as D11; Notice if making inputs used as frequency reference, then signal anominal speed comes from elevator controller. P4-02 D15 function selection 12 12 Setting range same as D11 Notice if making inputs used as frequency reference, then signal anominal speed comes from elevator controller. P4-03 D14 function selection 13 13 Setting range same as D11. Notice if anable inputs used as frequency reference, then signal anominal speed comes from elevator controller. P4-03 D14 function selection 13 13 Setting range same as D11; Notice if anable inputs used as frequency reference, then signal area papeed comes from elevator controller. P4-04 D15 function selection 14 14 Setting range same as D11; Notice if anable inputs used as frequency reference, then signal area papeed comes from elevator controller. P4-04 D15 function selection 14 14 Setting range same as D11; Notice if anable inputs used as frequency reference, then signal anspection speed comes from controller. P4-05 D16 function selection 0 Setting range same as D11;	T.		0.0 to 100.0%.	•	*		
0.0 to 100.0%. Note: PC-04 is set as inspection speed of elevator. PC-08 Reference 8 20.0 20.0 0.0 to 100.0%. Note: PC-08 is set as ARD speed of elevator. P4-00 D11 function 1 1 (Forward RUN (FWD) 2: Reverse RUN (REV) 8: IGBT Enable 9: Fault reset (RESET) 12: Multi-reference terminal 1 13: Multi-reference terminal 3 Setting range 0 to 59; Note: this signal comes from elevator controller. P4-01 D12 function selection 2 (Reverse Setting range same as D11; Note: If a malog input is used as frequency reference, then DI3 is useless, just leave it a multireference is used as frequency reference, then DI3 is useless, just leave it a multireference is used as frequency reference, then DI3 is useless, just leave it a multireference is used as frequency reference, then DI3 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI			Note: PC-02 is set as creep speed of elevator.				
Note PC-04 is set as inspection speed of elevator.		PC-04	Reference 4	40.0	40.00		
PC-08 Reference 8 20.0 20.0 0.0 to 100.0%. Note: Pc-08 is set as ARD speed of elevator. P4-00 D11 function selection 1 1 (Forward RUN (FWD)) 2: Reverse RUN (REV) 8: IGBT Enable 9: Fault reset (RESET) 12: Multi-reference terminal 1 13: Multi-reference terminal 3 Setting range: 0 to 59; Note: this signal comes from elevator controller. P4-01 D12 function selection 2 2 (Reverse Setting range same as D11; Note: this signal comes from elevator controller. P4-02 D13 function selection 12 12 Setting range same as D11 Note: this signal comes from elevator controller. P4-03 D14 function selection 12 12 Setting range same as D11 Note: this signal comes from elevator controller. P4-03 D14 function selection 13 13 Setting range same as D11 Note: this signal proper is used as frequency reference, then D13 is useless, just leave it a nutriference is used as frequency reference, then D14 is useless, just leave it a nutriference is used as frequency reference, then D15 is useless, just leave it a nutriference is used as frequency reference, then D16 is useless, just leave it a nutriference is used as frequency reference, then D16 is useless, just leave it a nutriference is used as frequency reference, then D16 is useless, just leave it a nutriference is used as frequency reference, then D16 is useless, just leave it a nutriference is used as frequency reference, then D16 is useless, just leave it a nutriference is used as frequency reference, then D16 is useless, just leave it a nutriference is used as frequency reference, then D16 is useless, just leave it a nutriference is used as frequency reference, then D16 is useless, just leave it a nutriference is used as frequency reference, then D16 is useless, just leave it a nutriference is used as frequency reference, then D16 is useless, just leave it a nutriference is used as frequency reference, then D16 is useless, just leave it a nutriference is used as frequency reference, then D16 is useless, just leave it a nutriference is used as frequency reference, then D16 is use			0.0 to 100.0%.		1		
PC-08 Reference 8 20.0 20.0 0.0 to 100.0%. Note: Pc-08 set at ARD speed of elevator. P4-00 D11 function selection 1 1 (Forward RUN (FWD)) 2: Reverse RUN (REV) 8: IGBT Enable 9: Fault reset (RESET) 12: Multi-reference terminal 1 13: Multi-reference terminal 3 Setting range 0 to 59; Note: this signal comes from elevator controller. P4-01 D12 function selection 2 2 (Reverse Setting range same as D11; Note: this signal comes from elevator controller. P4-02 D13 function selection 12 12 Setting range same as D11 Note: this signal comes from elevator controller. P4-03 D14 function selection 12 12 Setting range same as D11 Note: this signal power for elevator controller. P4-03 D14 function selection 13 13 Setting range same as D11 Note: a randog input is used as frequency reference, then signal .normal speed comes from elevator controller. P4-03 D14 function selection 13 13 Setting range same as D11. Note: a randog input is used as frequency reference, then D14 is useless, just leave it a nutrilereference is used as frequency reference, then signal .oreep speed comes from elevator controller. P4-04 D15 function selection 14 14 setting range same as D11; Note: a randog input is used as frequency reference, then D15 is useless, just leave it a nutrilereference is used as frequency reference, then signal .respection speed comes from controller. P4-05 D16 function selection 0 setting range same as D11;			Note: PC-04 is set as inspection sp	eed of elevator.			
D.0 to 100.0%. Notice: PC-06 is set as ARD speed of elevator. P4-00 D11 function selection 1 1 (Forward RUN (FWD) 2: Reverse RUN (REV) 8: IGBT Enable 9: Fault reset (RESET) 12: Multi-reference terminal 1 13: Multi-reference terminal 2 14: Multi-reference terminal 3 Setting range: 0 to 59; Note: this signal comes from elevator controller. P4-01 D12 function selection 2 2 (Reverse Setting range same as D11; Note: this signal comes from elevator controller. P4-02 D13 function selection 1 1 2 12 Setting range same as D11 Note: anabag input is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, ju		PC-08		ľ	20.0		
Note: P4-00 D11 function selection 1 1 (Forward P4-00 D) function 1: Forward RUN (FWD) 2: Reverse RUN (REV) 3: IGBT Enable 9: Fault reset (RESET) 12: Multi-reference terminal 1 13: Multi-reference terminal 2 14: Multi-reference terminal 3 Setting range 0 to 59; Note: this signal comes from elevator controller. P4-01 D12 function selection 2 2 (Reverse Setting range same as D11; Note: this signal comes from elevator controller. P4-02 D13 function selection 12 12 Setting range same as D11 Note: a malog input is used as frequency reference, then D13 is useless, just leave it a multireference is used as frequency reference, then D14 is useless, just leave it a multireference is used as frequency reference, then D14 is useless, just leave it a multireference is used as frequency reference, then D15 is useless, just leave it a multireference is used as frequency reference, then D16 is useless, just leave it a multireference is used as frequency reference, then D16 is useless, just leave it a multireference is used as frequency reference, then D16 is useless, just leave it a multireference is used as frequency reference, then D16 is useless, just leave it a multireference is used as frequency reference, then D16 is useless, just leave it a multireference is used as frequency reference, then D16 is useless, just leave it a multireference is used as frequency reference, then D16 is useless, just leave it a multireference is used as frequency reference, then D16 is useless, just leave it a multireference is used as frequency reference, then D16 is useless, just leave it a multireference is used as frequency reference, then D16 is useless, just leave it a multireference is used as frequency reference, then D16 is useless, just leave it a multireference is used as frequency reference, then D16 is useless, just leave it a multireference is used as frequency reference, then D16 is useless, just leave it a multireference is used as frequency reference, then D16 is useless, just leave it a multireference is used as frequenc		1.0.00		20.0	20.0		
P4-00 DI1 function selection 1 1 (Forward RUN (FWD)) 2: Reverse RUN (REV) 8: IGBT Enable 9: Fault reset (RESET) 12: Multi-reference terminal 1 13: Multi-reference terminal 2 14: Multi-reference terminal 3 Setting range: 0 to 59; Note: this signal comes from elevator controller. P4-01 DI2 function selection 2 2 (Reverse Setting range same as DI1; Note: this signal comes from elevator controller. P4-02 DI3 function selection 12 12 Setting range same as DI1 Note: if analog input is used as frequency reference, then DI3 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then signal .inspection speed comes from controller. P4-05 DI6 function selection 0 setting range same as DI1;	•						
0: No function 1: Forward RUN (FWD) 2: Reverse RUN (REV) 8: IGBT Enable 9: Fault reset (RESET) 12: Multi-reference terminal 1 13: Multi-reference terminal 2 14: Multi-reference terminal 3 Setting range: 0 to 59; Note: this signal comes from elevator controller. P4-01 DI2 function selection 2 (Reverse Setting range same as DI1; Note: mis signal comes from elevator controller. P4-02 DI3 function selection 12 12 Setting range same as DI1 Note: if analog input is used as frequency reference, then DI3 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then signal inspection speed' comes from elevator controller. P4-04 DI5 function selection 14 14 setting range same as DI1; Note: if analog input is used as frequency reference, then signal inspection speed' comes from controller. P4-05 DI6 function selection 0 setting range same as DI1;	Cat Di faration	24.00	The state of the s		1.5		
1: Forward RUN (FWD) 2: Reverse RUN (REV) 8: IGBT Enable 9: Fault reset (RESET) 12: Multi-reference terminal 1 13: Multi-reference terminal 2 14: Multi-reference terminal 3 Setting range: 0 to 59; Note: this signal comes from elevator controller. P4-01 DI2 function selection 2 (Reverse Setting range same as DI1; Note: this signal comes from elevator controller. P4-02 DI3 function selection 12 12 Setting range same as DI1 Note: If analog input it used as frequency reference, then DI3 is useless, just leave it a multireference is used as frequency reference, then signal .nominal speed* comes from elevator controller. P4-03 DI4 function selection 13 13 Setting range same as DI1. Note: If analog input is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then signal .creep speed* comes from elevator controller. P4-04 DI5 function selection 14 14 setting range same as DI1; Note: If analog input is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then signal .inspection speed* comes from controller. P4-04 DI5 function selection 0 0 setting range same as DI1;	Set DI function	P4-00	The Company of the Co	1	1 (Forward run		
2: Reverse RUN (REV) 8: IGBT Enable 9: Fault reset (RESET) 12: Multi-reference terminal 1 13: Multi-reference terminal 2 14: Multi-reference terminal 3 Setting range: 0 to 59; Note: this signal comes from elevator controller. P4-01 DI2 function selection 2 2 (Reverse Setting range same as DI1; Note: this signal comes from elevator controller. P4-02 DI3 function selection 12 12 Setting range same as DI1 Note: finansing input is used as frequency reference, then DI3 is useless, just leave it a multireference is used as frequency reference, then DI3 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI4 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then DI5 is useless, just leave it a multireference is used as frequency reference, then signal inspection speed comes from controller. P4-05 DI6 function selection 0 setting range same as DI1;	1						
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multireference is used as frequency reference, then signal .inspection speed' comes from controller. P4-05 DI6 function selection 0 setting range same as DI1;			setting range same as DI1;				
P4-05 DI6 function selection 0 setting range same as DI1;			2 11 120 11		3 <u>7</u>		
P4-05 DI6 function selection 0 setting range same as DI1;			520 374	nen signal .inspection s	speed' comes from elevat		
setting range same as DI1;		The same of the sa		_	1		
CONTINUE	1	P4-05		0			
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This function can work by assigning **1GBT Enable"** function to a digital input, please refer to the table below to set.

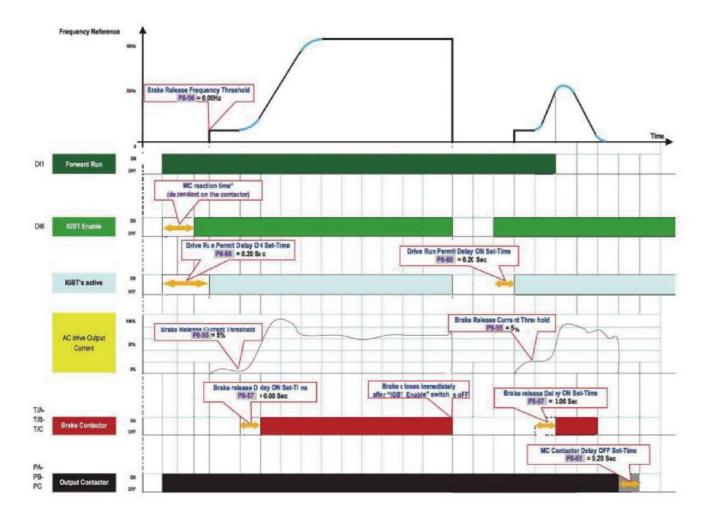
Take DI6 for example: assign "IGBT Enable" to DI6, then set P4-05=8. If it's necessary to change active mode of IGBT Enable, then use P4-38 or P4-39 to set (low level or high level active).

4.4 IGBT Enable

In all elevator applications, an Output Contactor is installed between the AC drive output U, V, W and the motor. In an emergency, the Safety Line is opened due to an unsafe condition and the Output Contactor disconnects the power from the inverter to the motor (the motor brake is also applied at the same time). When the Output Contactor opens with current flowing through to the motor (inverter IGBTs are active), there will be arcing in the Output Contactor depending on the motor inductive energy. Arcing of the Output Contactor can reduce the lifetime of the contactor and in some severe cases can damage the contacts poles. Therefore it is recommended to electronically switch oFF the AC drive IGBT firing circuits before opening the Output Contactor (milliseconds later). The AC drive IGBT firing can be electronically switched oFF with the

CAUTION "IGBT Enable" function as shown in the timing charts below.

An Output Contactor MUST always be installed as the final safety power cut oFF to the motor. The "IGBT Enable" function is NOT a substitute for an Output Contactor, it is designed to work together with the Output Contactor.



* MC reaction time: the reaction time of output relay of MC.

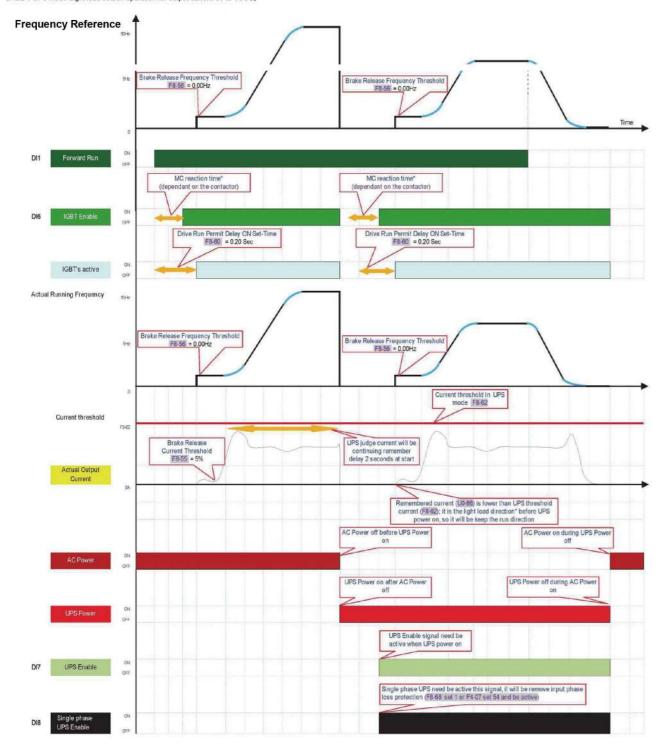
For some applications, the status of output contactor needs to be checked before AC drive starts up, hence one relay output of MC will feedback to IGBT Enable (above in the diagram it is DI6).

Function Code	Parameter Name	Setting Range	Unit	Default	Commission
P4-00	D11 function selection	0: No function	N.A	1	`
P4-01	DI 2 function selection	1: Forward RUN (FWD)	N.A	2	
P4-02	DI 3 function selection	2 : Reverse RUN (REV)	N.A	12	
P4-03	DI 4 function selection		N.A	13	
P4-04	DI 5 function selection	Q:IUDI tnaoie	N.A	14	
P4-05	DI 6 function selection	12: Multi-reference terminal 1	N.A	0	8
P4-06	DI 7 function selection		N.A	15	
		13: Multi-reference terminal 2	N.A	0	
P4-07 P4-08	DI 8 function selection DI 9 function selection	14: Multi-reference terminal 3 15: Multi-reference terminal 4	N.A	0	
P4-09	D110 function selection		N.A	0	
P4-38	DI active mode selection (Normal: low level active) DI4 active mode: 0: Normal 1: Opposite DI5 active mode: 0: Normal 1: Opposite DI3 active mode: 0: Normal P4-39 1: Opposite DI 2 active mode:0: Normal 1: Opposite		N.A	00000	
P4-39	DI active mode selection 2 (Normal: low level active) DI10 active mode:0: Normal 1: Opposite DI9 active mode: 0: Normal 1: Opposite DI8 active mode: 0: Normal 1: Opposite DI7 active mode: 0: Normal 1: Opposite DI6 active mode: 0: Normal	-segment	N.A	00000	

4.5 UPS Function

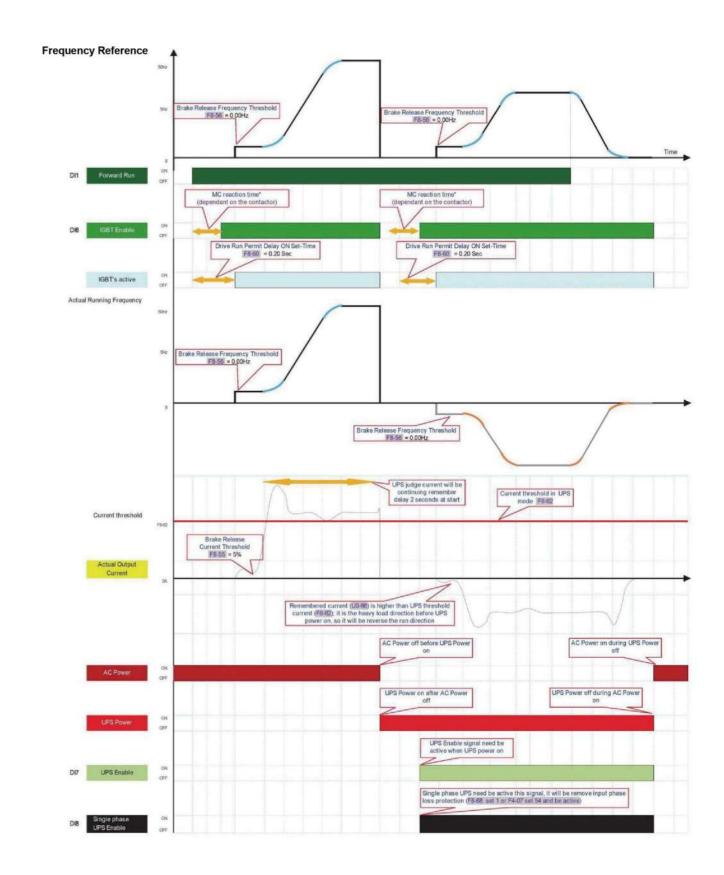
In all elevator applications, most time we will face the issue that passengers may be trapped in the car if power failure suddenly happens during use of the elevator. So the emergency evacuation mode is very important for safety. When the elevator is in UPS mode, the drive will be auto research light load direction to protect passengers can be reach levelling floor for safety.

CASE 1 UPS mode Light load search operation for output current of £ 100%



^{*} Light load direction: UPS mode will be auto research light load direction, and it will be running to nearest light load direction floor. Which is decided by F8-62 and UO-66, if UO-66 is lower than F8-62, it will be continue to keep the run direction before UPS; otherwise it will be reverse the direction. For some applications, the status of Single phase UPS Enable needs to be checked before inverter starts up according to DI8 or F8-68, because it will be removed input phase loss protection in UPS mode, otherwise it will be trip Err12.

cAsE 2 UPS mode Light load search operation for Output current of > 100%



5 Function code table

NOTE: not all parameters are listed, here below are relevant to open loop elevator applications.

5.1 Group P0: fundamental

unction Code	Parameter name	Set	tting Range	Unit	Default	Commission I
P0-01	Motor 1 control mode	0: Sensor-less flux vector control (SFVC) 2: V/F control		N.A	2	
P0-02	Command source selection	O : Operation panel control (LED oFF) Terminal control (LED on) Communication control (LED flashing)		N.A	1	
P0-03	Main frequency source X selection	2:Al-1 3:Al-2 4:Al-3 6: Multi-reference		N.A	6	
P0-07	Frequency source selection	0: Main frequency source X		N.A	0	
P0-09	Rotation direction	0: Same direction 1: Reverse direction		N.A	0	
P0-10	Maximum frequency	50.00 to 100.00		Hz	50.00	
PO-15	Carrier frequency	0.5 to 11.0 (SVC mode: 0.5 to	9)	kHz	Model dependant	
PO-17	Acceleration time 1	0.00 to 650.00 0.0 to 6500.0 0 to 65000	(PO-19 = 2) (PO-19 = 1) (PO-19 =0)	Sec	3.0	
PO-18	Deceleration time 1	0.00 to 650.00 0.0 to 6500.0 0 to 65000	(PO-19 = 2) (PO-19 = 1) (PO-19 =0)	Sec	2.0	
PO-19	Acceleration/Deceleration time unit	0:1 1:0.1 2:0.01		Sec	1	1

5.2 Group F1: motor 1 parameters

unction Code	Parameter name	Setting Range	Unit	Default	Commission
P1-00	Motor type selection	0 : Common asynchronous motor	NI A		
		1: Variable frequency asynchronous motor	N.A	n	
P1-01	Motor rated power	0.1 to 1000.0	kW	Model dependent	
P1-02	Motor rated voltage	1 to 2000	V	400	
P1-03	Motor rated current	0.01 to 655.35 (For AC drive power < 55 kW)	Α	Model	
11-00		0.1 to 6553.5 (For AC drive power > 55 kW)		dependent	
P1-04	Motor rated frequency	0.01 Hz to maximum frequency	Hz	50	
P1-05	Motor rated rotational speed	1 to 65535	RPM	1440	
P1-06	Stator resistance	0.001 to 65.535			
	(asynchronous motor)	(AC drive power < 55 kW)	n	n	
		0.0001 to 6.5535			
		(AC drive power > 55 kW)			
	Rotor resistance	0.001 to 65.535			
		(AC drive power < 55 kW)			
P1-07	(asynchronous motor)	0.0001 to 6.5535	_	0.000	
	,	(AC drive power > 55kW)	Q	0.000	
	Leakage inductive reactance	0.01 to 655.35mH			
D4 00		(AC drive power < 55 kW)			
P1-08	(asynchronous motor)	0.001 to 65.535	mH	0.00	
		(AC drive power > 55 kW)	11111	0.00	
	Mutual inductive reactance	0.01 to 655.35			
D4 00		(AC drive power < 55 kW)			
P1-09	(asynchronous motor)	0.001 to 65.535	mH	0.00	
		(AC drive power > 55 kW)		0.00	
	No-load current	0.01 to P1-03			
D4 40		(AC drive power < 55 kW)			
P1-10	(asynchronous motor)	0.1 to P1-03	Α	0.00	
		(AC drive power > 55 kW)	^	0.00	
P1-37	Auto tuning selection	0 : No auto-tuning 2: Asynchronous motor dynamic auto-tuning 3 : Asynchronous motor static auto-tuning(NEW)	N.A	0	

5.3 Group F2: vector control

Function Code	Parameter name	Setting Range	Unit	Default	Commission
P2-00	Speed loop proportional gain 1	Oto 100	N.A	10	
P2-01	Speed loop integral time 1	0.01 to 10.00	Sec	0.50	
P2-02	Switchover frequency 1	0.00 to P2-05	Hz	3.00	
P2-03	Speed loop proportional gain 2	Oto 100	N.A	30	
P2-04	Speed loop integral time 2	0.01 to 10.00	Sec	0.5	
P2-05	Switchover frequency 2	P2-02 to maximum output frequency	Hz	7.00	
P2-06	SVC slip gain	50 to 200	%	100	
P2-10	Torque upper limit (for SVC)	0.0 to 200.0 (% AC drive rated current)	%	150.0	
P2-13	Excitation adjustment proportional gain	Oto 20000	N.A	2000	
P2-14	Excitation adjustment integral gain	Oto 20000	N.A	1300	
P2-15	Torque adjustment proportional gain	Oto 20000	N.A	2000	
P2-16	Torque adjustment integral gain	Oto 20000	N.A	1300	

5.4 Group F3: VF control

Function code	Parameter Name	Setting Range	l Unit	Default	Commission
P3-00	V/F curve setting	0: Linear V/F 1: Multi-point V/F 2 to 11: not relevant settings	N.A.	0	
P3-01	Torque boost	0.0 to 30.0 (if itisO, then auto torque boost is activated)	%	0	
P3-02	Cut-oFF frequency of torque boost	0.00 to max output frequency	Hz	50.00	
P3-03	Multi-point V/F frequency 1 (P1)	0.00 to P3-05	Hz	1.50	
P3-04	Multi-point V/F voltage 1 (V1)	0.0 to 100.0	%	6.0	
P3-05	Multi-point V/F frequency 2 (P2)	P3-03 to P3-07	Hz	3.00	
P3-06	Multi-point V/F voltage 2 (V2)	0.0 to 100.0	%	8.0	
P3-07	Multi-point V/F frequency 3 (P3)	P3-05 to rated motor frequency (P1-04)	Hz	8.00	
P3-08	Multi-point V/F voltage 3 (V3)	0.0 to 100.0	%	20.0	
P3-09	V/F slip compensation gain	Oto 200.0	%	0.0	
P3-10	V/F over-excitation gain	Oto 200	%	0	
P3-11	V/F oscillation suppression gain	OtoWO	%	30	
P3-13	Voltage source for V/F separation	Oto 8	N.A.	0	
P3-14	Voltage digital setting for V/F separation	0 to rated motor voltage	V	0	
P3-15	Voltage rise time of V/F separation	0.0 to 1000.0		s 0.0	
P3-18	Overcurrent stall prevention current limit (for VF mode)	100 to 200 (% AC drive rated current)	%	170	
P3-19	Overcurrent stall prevention enable(for VF mode)	0: Disable; 1: Enable	NA	1	
P3-20	Overcurrent stall prevention gain(for VF mode)	OtoWO	NA	20	
P3-22	Overvoltage stall prevention voltage limit(for VF/SVC)	650 to 800	V	770	
P3-23	Overvoltage stall prevention enable(for VF/SVC)	0: Disable; 1: Enable	N.A	0	
P3-24	Overvoltage stall prevention frequency gain(for VF/SVC)	OtoWO	N.A	30	
P3-25	Overvoltage stall prevention voltage gainffor VF/SVC)	OtoWO	N.A	30	

5.5 Group F4: input terminals

ınction Code	Parameter name	Setting Range	Unit	Default	Commission
P4-00	D11 function selection	0: No function			
	(Standard on-board)	1: Forward RUN (FWD)	N.A	1	
		2 : Reverse RUN (REV)	N.A	3	
		3:Three-line Control			
P4-01	DI 2 function selection	_4: Jog Forward (FJOG)			
	(Standard on-board)	5: Jog Reverse (RJOG)			
	(6: Terminal UP	N.A	2	
		7: Terminal DOWN			
		8: IGBT Enable			
P4-02	DI 3 function selection	9: Fault reset (RESET)			
	(Standard on-board)	10: RUN Pause	NI A	42	
		11: Normally open (NO) input of external fault	N.A	12	
		12: Multi-reference terminal 1			
P4-03	DI 4 function selection	-13:Multi-reference terminal 2	-		
1 4-03	(Standard on-board)	14: Multi-reference terminal 3			
	(Standard on-board)	15: Multi-reference terminal 4	N.A	13	
		16:Terminal 1 for acceleration/deceleration time selection			
		17:Terminal 2 for acceleration/deceleration time selection	ion		
P4-04	DI 5 function selection	18: Frequency source switchover			
	(Standard on-board)	19: UP and DOWN setting clear			
		(terminal, operation panel)	N.A	14	8
		20: Command source switchover terminal 1			
D4 05	DI 6 formation and action	21: Acceleration/Deceleration prohibited			
P4-05	DI 6 function selection (On-board expansion card)	22: PID pause			
		23: PLC status reset	N.A	0	15
		24: Swing pause	N.A		
		25: Counter input			
P4-06	DI 7 function selection	26: Counter reset	S .		
	(On-board expansion card)	20. Counter reset			
	(21122212277777777777777777777777777777	28: Length reset	N.A	0	
		29: Torque control prohibited			
P4-07	DI 8 function selection	30: Pulse input (enabled only for DI5)			
	(On-board expansion card)	31: Reserved	N.A	0	
		32: Immediate DC braking	N.A	0	
		33: Normally closed (NC) input of external fault			
P4-08	DI 9 function selection	_34: Frequency modification forbidden	-		
	(On-board expansion card)	35: Reverse PID action direction			
	A TOO BY THE STATE OF THE STATE	36: External STOP terminal 1	N.A	0	
		37: Command source switchover terminal 2			
		38: PID integral pause			
P4-09	D110 function selection	_39: Switchover between main frequency source			
1 - 00	(On-board expansion card)	X and preset frequency			
	(On-board expansion card)	40: Switchover between auxiliary frequency source Y and			
		preset frequency		2	
		41: Motor selection terminal 1	N.A	0	
		42: Motor selection terminal 2			
		43: PID parameter switchover			

Function Code	Parameter name	Setting Range	Unit	Default	Commission
		44: User defined fault 1	- (A):) — T	
		45: User defined fault 2			
		46: Speed control/Torque control switchover			
		47: Emergency stop			
		48: External STOP terminal 2			
		49: Deceleration DC braking			
		50: Clear the current running time			
		51: Switchover between two-line mode and three line mode			
		52 to 59: Reserved			
P4-10	DI filter time	0.000 to 1.000	Sec	0.010	
P4-11	Terminal command mode	0 : Two-line mode 1 1: Two-line mode 2	2777677	72	
		2 : Three-line mode 1 3 : Three-line mode 2	N.A	0	
P4-12	Terminal UP/DOWN rate	0.01 to 65.535	Hz/s	1.00	
P4-13	Al curve 1 minimum input	0.00toP4-15	V	0.00	
P4-14	Corresponding setting of Al curve 1 minimum input	-100.00 to 100.00	%	0.0	
P4-15	Al curve 1 maximum input	P4-13 to 10.00V	Volt	5.00	
P4-16	Corresponding setting of Al curve 1 maximum input	-100.00 to 100.00	%	100.0	
P4-17	Al 1 filter time	0.00 to 10.00	Sec	0.10	
P4-38	DI valid mode selection (for D1	1			
	to DI5)	OOOOoto 11111 (binary)	N.A	00000	
P4-39	DI valid mode selection 2				
	(forDI6toDI10)	OOOOoto 11111 (binary)	N.A	00000	

5.6 Group F5: output terminals

Function Code	Parameter name	Setting Range	Unit	Default	Commission
P5-01	TA1-TB1-TC1 MC or Brake output.	No output AC Drive running : Fault output (stop) : Frequency-level detection FDT1 output : Frequency reached : Zero-speed running (no output at stop) : Motor overload pre-warning : AC Drive overload pre-warning : Set count value reached	N.A	2	
P5-02	TA2-TC2	_9: Designated count value reached 10: Length reached 11: PLC cycle complete '12: Accumulated running time reached 13: Frequency limited 14: Torque limited 15: Ready for RUN 16: Al-1 larger than Al-2 17: Frequency upper limit reached 18: Frequency lower limit reached (no output at stop) 19: Under-voltage state output 20: Communication setting 21-22: Reserved 23: Zero-speed running 2 (having output at stop) 24: Cumulative power-on time reached	N.A	43	
P5-03	TA3-TC3	25: Frequency-level detection FDT2 output 26: Frequency 1 reached 27: Frequency 2 reached 28: Current 1 reached 29: Current 2 reached 30: Timing reached 31: Al-1 input limit exceeded 32: Load becoming 0 33: Reverse running 34: Zero current state 35: Module temperature reached 36: Software current limit exceeded	N.A	42	
P5-03	7A4-TC4	_37: Frequency lower limit reached	N.A	0	
P5-07	AO1 function selection	0: Running frequency 1: Set frequency 2: Output current 3: Output torque (absolute value)	N.A	3	

5.7 Group F6: start and stop control

Function Code	Parameter name	Setting Range	Unit	Default	Commission
	Start mode	0 : Direct start			
P6-00		Rotational speed tracking restart Pre-excited start (asynchronous motor)	N.A	0	
P6-03	Startup frequency	0.0 to 10.0	Hz	1.0	
P6-04	Startup frequency active set time	0.0 to 100.0	Sec	0.3	
P6-05	DC injection 1 level	Oto 150	%	0	
P6-06	DC injection 1 active set time	0.0 to 5.0	Sec	0	
	Acceleration/Deceleration	0: Linear acceleration/ deceleration	55.00		
P6-07	mode	3: S-curve acceleration/ deceleration C	N.A	3	
P6-08	lime proportion ot S-curveat	0.0% to Min[(100.0% - P6•U9), 80%]	%	80.0	
P0-00	Accel start	0.0% to Willie (100.0% - P6-09), 80%]	70	00.0	
P6-09	Time proportion of S-curve at 0.0% to Min[(100.0% - P6-08) , 80%]		%	10.0	
10-03	Accel end	0.0 % to Willift 100.0 % - 1 0-00), 00 %]	70	10.0	
P6-10	Stop mode	0 : Decelerate to stop 1: Coast to stop	N.A	0	
P6-11	DC injection 2 frequency	0.00 Hz to maximum frequency	Hz	0.50	
F0-11	threshold	0.00 Fiz to maximum nequency	112	0.50	
P6-12	DC Injection 2 delay ON set	0.0 to 36.0	Sec	0.0	
10-12	time	0.0 to 30.0	000	0.0	
P6-13	DC injection 2 level	Oto 150	%	30	
P6-14	DC injection 2 active set time	0.0 to 5.0	Sec	0.5	
P6-26	Time proportion of S-curve at	0.00/ to MinI/100.00/ DC 27) 900/1	07	20.0	
P0-20	Decel start	0.0% to Min[(100.0% - P6-27) , 80%]	%	∠0.0	
P6-27	Time proportion of S-curve at	0.0% to Min[(100.0% - P6-26) , 80%]	%	30.0	
F0-21	Decel end	0.070 to Willi[[100.070 - F0-20], 0070]	70	30.0	

5.8 Group F8: auxiliary functions

Function Code	Parameter Name	Setting Range	Unit	Default	Commission
P8-04	Deceleration time 2	0.0 to 6500.0	SEC	2.0	
P8-26	Frequency switchover point between deceleration time 1 and deceleration time 2	0.00 to maximum frequency	HZ	0.00	
P8-55	Brake release current threshold	0 to 200	%	5	
P8-56	Brake release frequency threshold	0.00 to 25.00	HZ	0	
P8-57	Brake release delay ON set time	0.0 to 5.0	sec	0.0	
P8-58	Brake apply frequency threshold	0.00 to 25.00	Hz	0.50	
P8-59	Brake apply delay OFF set time		Sec	0.2	
P8-60	Drive run delay ON set time	0.20 to 10.00	Sec	0.20	
P8-61	MC contactor delay OFF set time	0.00 to 10.00	Sec	0.20	

5.9 Group F9: fault and protection

Function Code	Parameter Name	Setting Range		Default	Commission
P9-00	Motor thermal protection enable	0: disable motor thermal protection;	N.A		131
P9-00	selection	1: enable motor thermal protection	N.A	1	
P9-01	Motor thermal protection coeFFicient	0.1 to w.uo	N.A	1.00	
P9-02	Motor thermal protection prewarning coeFFicient	50 to 99	%	80	
P9-07	Ground fault detection Enable	0: Disable; 1: Enable detection 叩 on power on; 2: Enable detection upon power on and upon start;	N.A	2	
P9-08	Braking operation voltage level 70	0 to 800	٧	750	
P9-09	Fault auto reset times	Oto 20	N.A	0	
P9-11	Time interval of fault auto reset	0.1 toWO.O	Sec	1.0	
P9-13	Drive output phase loss detection Enable	0: Disable; 1: Enable detection during running; 2: Enable detection upon start and during running		2	
P9-14	1st fault type	Oto 51	N.A.	N.A.	
P9-15	2nd fault type	Oto 51	N.A.	N.A.	
P9-16	3rd (latest) fault type	Oto 51	N.A.	N.A.	
P9-17	Frequency upon 3rd fault	N.A.	Hz	N.A.	
P9-18	Current upon 3rd fault	N.A.	Α	N.A.	
P9-19	Bus voltage upon 3rd fault	N.A.	V	N.A.	
P9-20	Input terminal status upon 3rd fault	N.A.	N.A.	N.A.	
P9-21	Output terminal status upon 3rd fault	N.A.		N.A.	
P9-22	AC drive status upon 3rd fault	N.A.	N.A.	N.A.	
P9-23	Power-on time upon 3rd fault	N.A.	N.A.	N.A.	

5.10 Group FC: multi-reference

Function Code	Parameter name	Setting Range	Unit	Default	Commission
PC-00	Reference 0	0.0 to 100.0	%	10.0%	
PC-01	Reference 1	0.0 to 100.0	%	100.0%	
PC-02	Reference 2	0.0 to 100.0	%	11.0%	
PC-03	Reference 3	0.0 to 100.0	%	12.0%	
PC-04	Reference 4	0.0 to 100.0	%	40.0%	
PC-05	Reference 5	0.0 to 100.0	%	13.0%	
PC-06	Reference 6	0.0 to 100.0	%	14.0%	
PC-07	Reference 7	0.0 to 100.0	%	15.0%	
PC-08	Reference 8	0.0 to 100.0	%	20.0%	

Attention!	P4-02	to P4-04 an	d P4-06	Multi-Ref	ference
Preset Reference Selector		P4-02	P4-03	P4-04	P4-06
PC-00 : Reference 0	0	OFF	OFF	OFF	OFF
PC-01 : Reference 1	1	ON	OFF	OFF	OFF
PC-02 : Reference 2	2	OFF	ON	OFF	OFF
PC-03 : Reference 3	3	ON	ON	OFF	OFF
PC-04 : Reference 4	4	OFF	OFF	ON	OFF
PC-05: Reference 5	5	ON	OFF	ON	OFF
PC-06 : Reference 6	6	OFF	ON	ON	OFF
PC-07 : Reference 7	7	ON	ON	ON	OFF
PC-08 : Reference 8	8	OFF	OFF	OFF	ON

5.11 Group FF: drive parameters

Function Code	Parameter name	Setting Range	Unit	Default	Commission
PF-00	Factory password	0 to 65535	NA	0	
PF-01	Drive code	1to 537	N.A.	Model dependent	7
PF-02	G/P type selection	1: Gtype ; 2: P type	N.A.	1	
PF-03	Drive rated power	0 to 6553.5	NA	Model dependent	display

5.12 Group FP: function code management

Function Code	de Parameter name Setting Range		Unit	Default	Commission
PP-00	User password	Oto 65535	N.A.	0	
PP-01	Parameter initialization	0: No operation 01: Restore factory settings except motor parameters 02: Clear records 04: Restore user backup parameters 501: Back up current user parameters	N.A.	0	
PP-03	Parameter display selection	7-segment 0 0	N.A.	0	
	Modified parameters: 0: No display 1: Display Customized parameters:	<u> </u>			
	0: No display 1: Display				

5.14 Group A5: control optimization

Function Code	Parameter name	Setting Range	Unit	Default	Commission
B5-06	Under voltage threshold	60.0 to 140.0	%	60.0	100% is 350V
B5-09	Overvoltage tripping level	200.0 to 2500.0	V	810	

5.15 Group U0: monitoring

Function Code	Parameter name	Setting Range	Unit	Default	Commission
D0-00	Running frequency	N.A.	Hz	N.A.	
D0-01	Set frequency	N.A.	Hz	N.A.	
D0-02	Bus voltage	N.A.	V	N.A.	
D0-03	Output voltage	N.A.	V	N.A.	
D0-04	Output current	N.A.	Α	N.A.	
D0-05	Output power N.A.		kW	N.A.	
D0-06	Output torque	N.A.	%	N.A.	
D0-07	DI state	N.A.	N.A.	N.A.	
D0-08	DO state	N.A.	N.A.	N.A.	
D0-09	AH voltage	N.A.	V	N.A.	
D0-10	Al2 voltage	N.A.	V	N.A.	
D0-11	Al3 voltage	N.A.	V	N.A.	
D0-41	DI state visual display	N.A.	N.A.	N.A.	
DO-42	DO state visual display	N.A.	N.A.	N.A.	
DO-65	Torque upper limit	N.A.	%	N.A.	

6 Trouble shooting

6.1 Fault codes

Display	Fa	ult Name	Possil	ole Causes		Solutions	
			The output circuit is	short circuited.	1: Eliminate	e short circuit.	
			2. The acceleration time	ne is too short.	2: Increase	the acceleration time PO-17.	
			Manual torque boos appropriate.	30.74 Janon (2000) 200 January (2000)	100 mm	ne manual torque boost or V/F curve. nat the power supply is normal.	
Err02		rrent during	4. The power supply is			peed tracking restart or start the motor after	
	acceleration		The startup operation rotating motor.	on is performed on the	stops.	the added load.	
			6. A sudden load is ad	ded during acceleration.	7: Select a	drive of higher power class.	
			7. The AC drive model	is of too small power class.			
			The output circuit is	short circuited.	1: Eliminate	e short circuit.	
			2. The deceleration tin	ne is too short.	2: Increase	the deceleration timePO-18.	
Err03	deceler	rrent during ation	3. The power simply is	too low.	3: Check th	ne power supply, and ensure it is normal.	
			4. A sudden load is ad	ded during deceleration.	4: Remove	the added load.	
			5. The braking resistor	is not installed.	5: Install th	e braking resistor.	
			1. The output circuit is	short circuited.	1: Eliminate	e short circuit.	
	Overcurrent at		2. The power supply is	too low.	2: Adjust p	ower supply to normal range.	
Err04	P. S. C. S.	t speed	3. A sudden load is ad	ded during operation.	3: Remove	the added load.	
			4. The AC drive model	is of too small power class.	4: Select a	drive of higher power class.	
			1. The DC bus voltage	is too high^.			
	Overvol	tage during	2. An external force dr	A A CONTRACTOR DE LA CO	1: Replace with a proper braking resistor.		
Err05	acceler		acceleration.			he external force or install braking resistor	
			3. The acceleration tim			the acceleration time.	
	1		The braking resistor	ris not installed.	4: Install a	braking resistor.	
			1. The DC bus voltage	is too high^.			
F00	Overvol	tage during	An external force dri deceleration.			with a proper braking resistor.	
Err06	deceler	ation	3. The deceleration tim			he external force or install braking resistor. the deceleration time.	
			The deceleration till The braking resistor			e braking resistor	
			The DC bus voltage			with a proper braking resistor. 2: Cancel th	
Err07	Overvol	tage at it speed	An external force dri deceleration.		external for		
A . M . !!							
☆: Voltage t Voltage Clas		1	ervoltage threshold	DC Bus Undervoltage th	reshold	Braking operation level	
Three-phase			400VDC	200VDC		380VDC	
Three-phase 380 V		810VDC	350VDC		750VDC		

Err08	Control power fault	The mput voltage exceeds the allowed range.	Adjust the input voltage to within the allowed range.	
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2 to 4: Seek for maintenance. 4. The control board is faulty. . The cable between drive and motor is faulty. The drive's three-phase output is unbalanced 1: Check the cable. One drive output when the motor is running. 2: Check the motor windings. Err13 phase loss The drive board is faulty 3 to 4: Seek for maintenance. 4. The IGBT is faulty. I. The ambient temperature is too high. 2. The air filter is blocked. 1: Reduce the ambient temperature. 2: Clean the air The cooling fan is damaged. IGBT overheat Err14 4. The thermal sensor of IGBT is damaged. 3 to 5: Seek for maintenance. The IGBT is damaged. . External fault signal is input via DI. External equipment Err15 Reset the fault 2. External fault signal is input via VDI. . The host computer is abnormal. 2. The communication cable is faulty. 1: Check cabling of the host computer. The extension card type set in PO-28 is 2: Check the communication cabling. Communicatio n fault Err16 3: Set PO-28 correctly. The communication parameters in group FD are 4: Set the communication parameters properly. Current detection fault The drive board is faulty. Replace the drive board. . Motor parameters are wrong. Check motor parameters P1-00 to P1-05. Err19 Motor tuning fault Motor tuning overtime. 2. Check the wiring between drive and motor. EEPROM readwrite Err21 The EEPROM chip is damaged. Replace the main control board. Short circuit to ground The motor is short-circuited to ground. Err23 Replace the cables or motor. Accumulative running The accumulative running time reaches the setting Clear the record by performing parameter initialization Err26 time reached (set PP-01 to 2). . The user-defined fault 1 signal is input via DI. User-defined fault 1 Err27 Reset the fault. User-defined fault 1 signal is input via VDI.

Fault Name

Display

. Instantaneous power failure occurs. 2. The input voltage exceeds the allowed range . The DC bus voltage is too low# : Reset the fault. . The rectifier bridge and buFFer resistor are 2: Adjust the input voltage to within the allowed range. Undervoltage Err09 3 to 6: Seek for maintenance. The drive board is faulty. The control board is faulty. : Reduce the load, or check the motor, orcheck the . The load is too heavy or the rotor is locked. machine whether it is locking the rotor. Drive overload Err10 2. The drive is of too small power class. 2: Select a drive of higher power class. 1: Set P9-01 correctly. . P9-01 is too small. 2: Reduce load, or check motor, or check the machine . The load is too heavy or the rotor is locked. Err11 Motor overload whether it is locking the rotor. 3. The drive is of too small power class. 3: Select a drive of larger power class. . The three-phase power supply is abnormal. 2. The drive board is faulty. 1: Check the power supply. Power input phase loss 3. The lightening protection board is faulty. Err12

Possible Causes

Solutions

Display	Fault Name	Possible Causes	Solutions
Err28	User-defined fault 2	The user-defined fault 2 signal is input via DI The user-defined fault 2 signal is input via VDI.	Reset the fault.
Err29	Accumulative power-on time reached	The accumulative power-on time reaches the setting ofP8-16.	Clear the record by performing parameter initialization (set PP-01 to2).
Err30	OFF load fault	OFFload when ifs running.	Check the connection between motor and load.
Err31	PID feedback lost during running	The PID feedback is lower than FA-26.	Check the PID feedback signal or set FA-26 to a proper value.
Err40	Quick current limit	The load is too heavy or the rotor is locked. The drive is of too small power class.	1: Reduce the load, or check the motor, orcheck the machine whether it is locking the rotor. 2: Select a drive of higher power class.
Err41	Motor switchover fault during running	The current motor is switched over via a terminal during running of the AC drive.	Switch over the motor only after the AC drive stops.
Err61	Two or three drive output phases loss	The drive output connections get loose; The output contactor gets wrongly operated or malfu notions.	Check drive output connections; Check drive output contactor.

6.2 Common symptoms and diagnostics

Fault Name	Possible Causes	Solutions
There is no display at power-on.	A The huFFer resistor of the drive is damaged	1: Check the power supply. 2 to 5: Seek for maintenance. 6: Re-connect the 4-core and 28-core flat cables, or seek for maintenance.
"AAA ^H is displayed at power-on.	The motor winding or the motor cable is short- circuited to the ground.	1: Re-connect the 4-core and 28-core flat cables, or seek for maintenance. 2: Seek for maintenance. 3: Check the motor or replace it, and check the motor cable. 4. Check the power supply according to charpterl .3.
The display is normal upon power-on, but "AAA" is displayed after start and the motor stops immediately.	The cooling fan is damaged or the rotor is locked. A certain terminal is short-circuited.	1: Replace cooling fan, or check the machine whether i is locking the rotor. 2: Eliminate short circuit
Err14 is reported frequently.	 Components (thermal coupler or others) inside the drive 	1: Reduce PO-15. 2: Replace the fan and clean the air filter. 3: Seek for maintenance.
The motor does not rotate after the AC drive outputs a non-zero reference.	3. The cable between the drive board and the control board is in poor contact. 4. The drive board is faulty. 5. The property leaded.	1: Check the motor, or check the cable between the drive and the motor. 2: Check and re-set motor parameters. 3: Re-connect the 4-core and 28-core flat cables, or seek for maintenance. 4: Seek for maintenance. 5: Check the machine whether it is locking the rotor.
The DI terminals are disabled.	The wire jumper between OP and +24V is in poor contact.	1: Check and reset DI parameters in group P4. 2: Check the input signals, or check the input cable. 3: Check the jumper between OP and +24 V. 4: Seek for maintenance.
The drive reports overcurrent and overvoltage frequently.		1: Reset motor parameters. 2: Set proper acceleration/deceleration time. 3: Check the machine, or seek for maintenance.





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