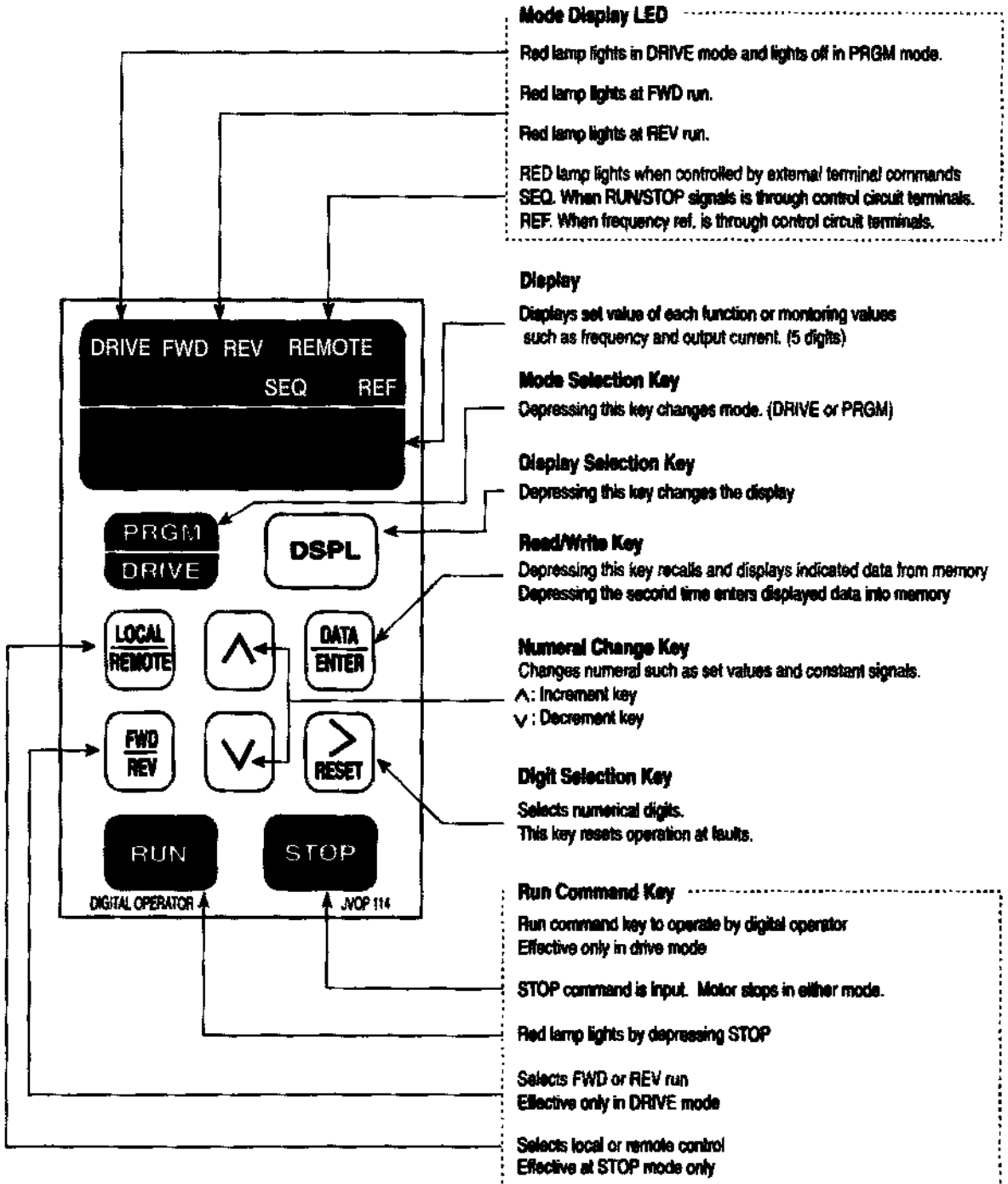
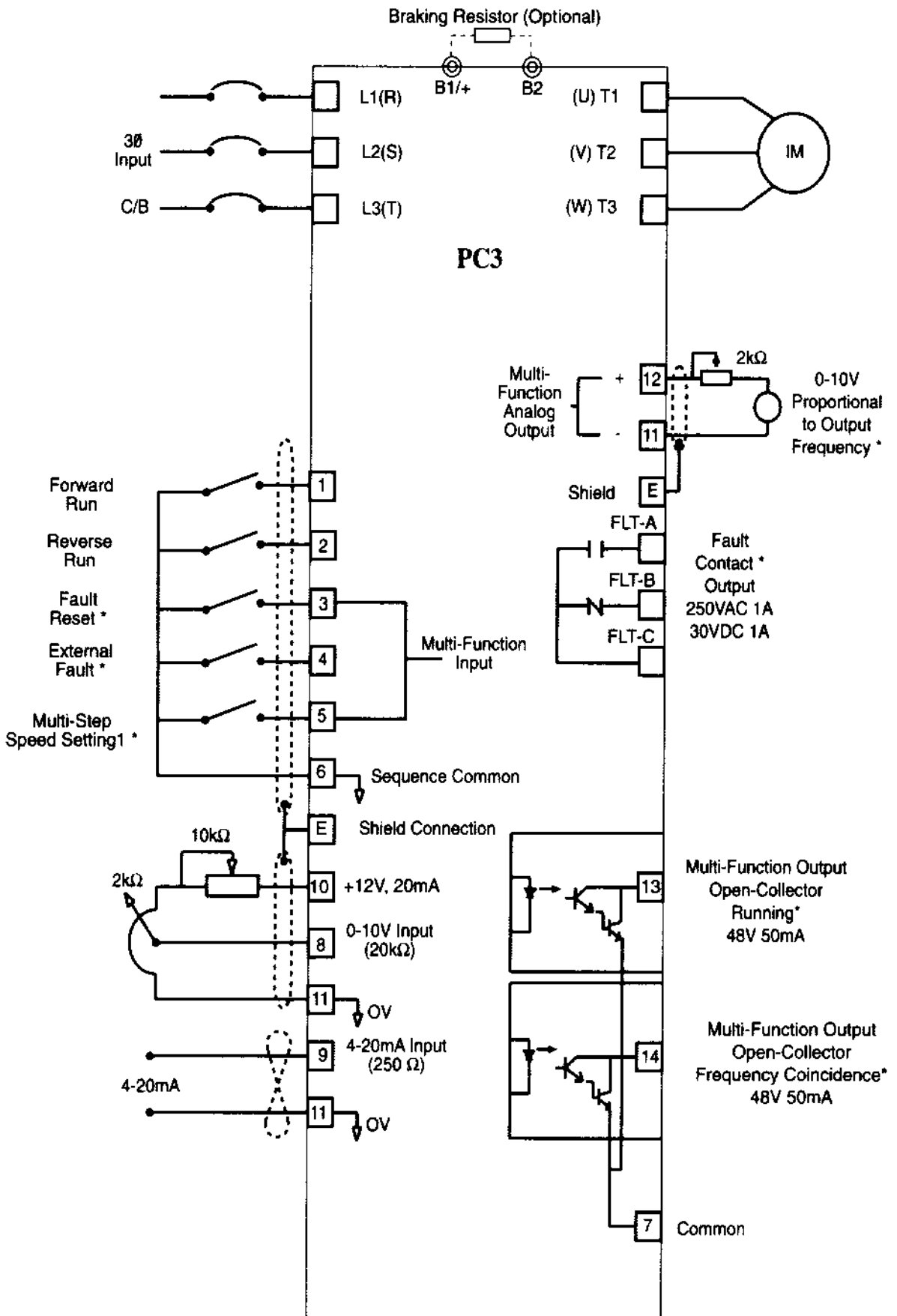


PC3 Pocket

PROGRAMMING GUIDE

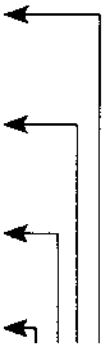


Terminals and Standard Connections

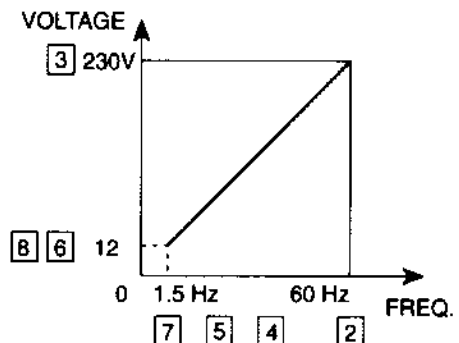
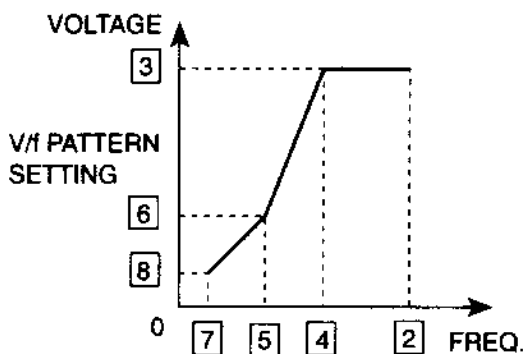


*Factory Setting

Programming Functions

FUNCTION	NO.	DIGIT	DESCRIPTION	FACTORY SETTING	
CONSTANT GROUP SELECT	00	0:	PASSWORD READ/SET 00 READ ONLY 01 TO 19	1	
		1:	READ/SET 00 TO 19		
		2:	READ/SET 00 TO 29		
		3:	READ/SET 00 TO 59		
		6:	FAULT RECORD CLEAR		
FAULT CONSTANTS					
CONSTANT INITIALIZATION			8: 2 WIRE INITIALIZATION 9: 3 WIRE INITIALIZATION		
OPERATION METHOD	01	1	0-EXTERNAL FREQ. REF.		
			1-KEYPAD FREQ. REF.		
STOPPING METHOD	3	0-DECEL TO A STOP	0-EXTERNAL RUN COMMAND		
			1-KEYPAD RUN COMMAND		
PATTERN SETTING	4	0-v/f w/VOLTAGE LIMITER	1-KEYPAD RUN COMMAND		
			1-v/f w/o VOLTAGE LIMITER		
			0000		
V/F PATTERN SETTING	02	MAXIMUM OUTPUT FREQUENCY	UNIT: 0.1 Hz RANGE: 50 TO 400 Hz		60 Hz
	03	MAXIMUM VOLTAGE	UNIT: 0.1V RANGE: 0.1 TO 255.0V*		230V*
	04	MAX. VOLTAGE OUTPUT FREQUENCY	UNIT: 0.1 Hz RANGE: 0.2 TO 400.0 Hz		60 Hz
	05	INTERMEDIATE OUTPUT FREQUENCY	UNIT: 0.1 Hz RANGE: 0.1 TO 399.9 Hz	1.5 Hz	
	06	INTER. OUT FREQUENCY VOLTAGE	UNIT: 0.1V RANGE: 0.1 TO 255.0V*	12.0*	
	07	MINIMUM OUTPUT FREQUENCY	UNIT: 0.1 Hz RANGE: 0.1 TO 10 Hz	1.5 Hz	
	08	MIN. OUT FREQUENCY VOLTAGE	UNIT: 0.1V RANGE: 0.1 TO 50V*	12.0 V*	

* X2 for 460V units.



Programming Functions

FUNCTION	NO.	DIGIT	DESCRIPTION	FACTORY SETTING
FIRST ACCEL/ DECEL TIME SETTING	09		ACCEL TIME 1 0.0 TO 600.0 S	10.0 S
	10		DECEL TIME 1 0.0 TO 600.0 S	10.0 S
SECOND ACCEL/ DECEL TIME SETTING	11		ACCEL TIME 2 0.0 TO 600.0 S	10.0 S
	12		DECEL TIME 2 0.0 TO 600.0 S	10.0 S
FREQUENCY REFERENCE	13		FREQUENCY REF. 1 0 TO 400 Hz	0.0 Hz
	14		FREQUENCY REF. 2 0 TO 400 Hz	0.0 Hz
	15		FREQUENCY REF. 3 0 TO 400 Hz	0.0 Hz
	16		FREQUENCY REF. 4 0 TO 400 Hz	0.0 Hz
	17		JOG FREQUENCY REF 0 TO 400 Hz	6.0 Hz
ELECTRONIC THERMAL OVERLOAD MOTOR PROTECTION	18	1	0: ELEC THERMAL O/L PROVIDED	0000
			1: ELEC THERMAL O/L NOT PROVIDED	
		2	0: STANDARD MOTOR O/L	
			1: SPECIALIZED MOTOR O/L	
3/4	NOT USED			
REFERENCE CURRENT	19		MOTOR RATED CURRENT 10 TO 120% OF RATED CURRENT	DEPENDENT ON INVERTER RATING
REV RUN PROHIBIT	20	1	0: REV RUN ENABLED	0000
			1: REV RUN DISABLED	
STALL PREVENTION DURING DECEL		4	0: STALL PREVENTION PROVIDED	
			1: STALL PREVENTION NOT PROVIDED	
ANALOG MONITOR SELECTION	21	2	0: MONITOR OUTPUT FREQUENCY	0000
			1: MONITOR OUTPUT CURRENT	
S-CURVE ACCEL/DECEL SELECTON			3	
		1: S-CURVE PROVIDED		
REFERENCE INPUT	22		FREQUENCY REFERENCE GAIN	1.0
	23		FREQUENCY REFERENCE BIAS	0.00
FREQUENCY LIMIT CONTROL	24		FREQUENCY UPPER LIMIT	100%
	25		FREQUENCY LOWER LIMIT	0%
DC INJECTION BRAKING	26		DC INJECTION BRAKE CURRENT	50%
	27		DC INJECTION TIME AT STOP	0.0S
	28		DC INJECTION TIME AT START	0.0S
TORQUE COMP	29		AUTOMATIC TORQUE BOOST GAIN	1.0
STALL PREVENTION	30		STALL PREVENTION WHILE RUNNING	170%
	31		STALL PREVENTION WHILE ACCEL	160%
CONTACT INPUT SIGNAL	32		MULTI-FUNCTION INPUT 1 TERM.,#3	13
	33		MULTI-FUNCTION INPUT 2 TERM.,#4	1
	34		MULTI-FUNCTION INPUT 3 TERM.,#5	3
AUX INPUT	35		MULTI-FUNCTION ANALOG INPUT	0
CONTACT OUTPUT SIGNAL	36		MULTI-FUNCTION OUTPUT SELEC- TION 1 TERMINALS FLT-A,-B, & -C	5
PHC OUTPUT SIGNAL	37		MULTI-FUNCTION OUTPUT 2 TERM.,#13	0
	38		MULTI-FUNCTION OUTPUT 3 TERM.,#14	1

Programming Functions

SET VALUE	PROGRAM FUNCTION 32-33-34 FUNCTION (INPUT)
0	FWD/REV 3 WIRE CONTROL *
1	EXTERNAL FAULT (NO)
2	EXTERNAL FAULT (NC)
3	MULTI-STEP SPEED REF 1
4	MULTI-STEP SPEED REF 2
5	JOG COMMAND
6	ACCEL/DECEL TIME SELECT
7	EXTERNAL BASE BLOCK (NO)
8	EXTERNAL BASE BLOCK (NC)
9	SEARCH COMMAND FROM MAX FREQ
10	SEARCH COMMAND FROM SET FREQ
11	ACCEL/DECEL HOLD COMMAND
12	LOCAL/REMOTE SELECT
13	ALARM RESET
14	UP/DOWN FUNCTION **
* AVAILABLE AT FNC 32 ONLY	
** AVAILABLE AT FNC 34 ONLY	

SET VALUE	PROGRAM FUNCTION 36-37-38 FUNCTION (OUTPUT)
0	IN OPERATION
1	FREQUENCY AGREED
2	ZERO SPEED
3	FREQUENCY DETECTION (OUTPUT FREQ ≥ FREQ DET LEVEL)
4	OVERTORQUE DETECTION
5	FAULT
6	FREQUENCY DETECTION (OUTPUT FREQ ≤ FREQ DET LEVEL)
7	DURING BASE BLOCK
8	DURING UNDER VOLTAGE
9	DURING SPEED SEARCH
10	OPERATION MODE LOCAL/REMOTE

FUNCTION	NO.	DIGIT	DESCRIPTION	FACTORY SETTING
DESIRED SPEED	39	FREQUENCY DETECTION LEVEL		0.0 Hz
OVER-TORQUE DETECTION	40	1	0: OT DETECTION NOT PROVIDED	0000
			1: OT DETECTION PROVIDED	
		2	0: DETECTED ONLY FREQ AGREE	
			1: DETECTED DURING RUNNING	
	3	0: OPERATION CONTINUES AFTER		
		1: OUTPUT SHUT OFF @ OT		
4	NOT USED			
	41	OVERTORQUE DETECTION LEVEL		160%
	42	OVERTORQUE DETECTION TIME		0.1 S
CARRIER FREQUENCY ADJUSTMENT	43	CARRIER FREQUENCY ADJUSTMENT 1 TO 6 (25 TO 15KHz)		4 (10KHz)
—	44	NOT USED		—
MONITOR CALIBRATION	45	ANALOG MONITOR GAIN		1.0
MOMENTARY POWER LOSS PROTECTION	46	1	0: NOT PROVIDED	0000
			1: PROVIDED	
FAULT RETRY	47	FAULT RETRY SELECTION 0-10		0
RECORD	48	LATEST FAULT IS DISPLAYED		—
SOFTWARE VERSION	49	PROM NUMBER IS DISPLAYED		—
PROHIBITED FREQUENCY	50	PROHIBITED FREQUENCY RANGE: 0.0 TO 400 Hz		0.0 Hz
	51	PROHIBITED FREQUENCY WIDTH RANGE: 0.0 TO 25.5 Hz		1.0 Hz
—	52 TO 59	NOT USED (SETTING DISABLED)		—

Faults

MONITOR DISPLAY	FUNCTION	FAULT
Uu1	UNDER VOLTAGE	DC BUS BELOW DETECTION LEVEL
OC	OVERCURRENT	OUTPUT CURRENT ABOVE 200%
GF	GROUND FAULT	GROUND FAULT AT INV. OUTPUT
OU	OVER VOLTAGE	DC BUS TOO HIGH
—	FUSE BLOWN	POSSIBLE TRANSISTOR FAILURE
OH	OVER HEAT	COOLING FIN TOO HOT
OL1	MOTOR OVERLOAD	ELECTRONIC THERMAL O/L
OL2	INVERTER O/L	INVERSE TIME LIMIT
OL3	OVER TORQUE	OPERATION SELECTION NO. 40
EF3	EXTERNAL FAULT INPUT	EXTERNAL FAULT INPUT-MULTIFUNCTION TERMINAL
EF4		
EF5		
CPF 00 TO 05	CONTROL CIRCUIT FAULT	TRANSMISSION ERRORS
		IN CONTROL CIRCUIT OR
		COMPONENT FAILURE
Uu (BLINK)	CONTROL VOLTAGE LOW	
OH (BLINK)	OVER HEAT	
OL3 (BLINK)	OVERTORQUE	
EF (BLINK)	OPERATION ERROR	FWD/REV CLOSED SIMULTANEOUS
bb (BLINK)	BASE BLOCK	MAIN CIRCUIT TRANSISTOR CUT-OFF

Notes

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