

1____2 B20

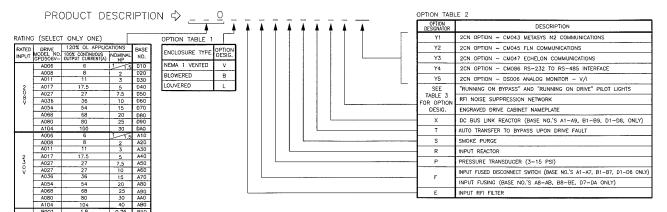
B40

R80

25 B90 30 BA0

40 BBI 50 BC0 60 BD0 75 BE0 Job Name: Contractor:

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OPTION COMBINATION TABLE 3

OPTION		OPTION DESIGNATION					
		4	6	G	J	L	U
PILOT LIGHTS	0	0	0	1	1	1	1
RFI NOISE SUPPRESSION NETWORK	0	1	1	0	0	1	1
ENGRAVED DRIVE CABINET NAMEPLATE	1	0	1	0	1	0	1

1 = OPTION IS PRESENT

CONTACT SEQUENCE CHART FOR S1 X - INDICATES CONTACT CLOSED

B003

B008

B014 B021

B027

B041

B065

ROSE

CONTACT	PO	MANUF.		
	BYPASS	OFF	DRIVE	LOCATION /TYPE
1	×			1R0
2			х	1L0
3			Х	2L0
4			Х	3LO

· SCHEMATIC SHOWS THIS POSITION

CONTACT SEQUENCE CHART FOR S2 X - INDICATES CONTACT CLOSED

CONTACT	F	MANUF. LOCATION				
	HAND	STOP	AUTO	/TYPE		
1	x			1R0		
2			Х	1L0		
3	×			2R0		

SCHEMATIC SHOWS THIS POSITION

CONTACT SEQUENCE CHART FOR \$3

X – INDICATES CONTACT CLOSED					
CONTACT	P0	MANUF.			
CONTACT	TEST	NORMAL	TYPE		
1		х	1R0		
2	Х		1LC		
3	Х		2RC		
4	Х		2LC		

SCHEMATIC SHOWS THIS POSITION

SPECIAL PARAMETER SETTINGS TABLE 4 (SEE NOTE 8)

PARAMETER	DATA	UNIT	DESCRIPTION/REMARKS		
n001	3	N/A	READ/WRITE TO ALL PARAMETERS		
n002	SEE TABLE 5	N/A	DRIVE OPERATION MODE SELECTION		
n003	460(230)	٧	STANDARD MAX VOLTAGE SETTING		
11003	208	٧	MAX VOLTAGE SETTING FOR BASE NO. "D_"		
n006	1	N/A	REVERSE RUN DISABLED		
n007	0	N/A	LOCAL/REMOTE KEY DISABLED		
n018	60.0	S	ACCELERATION TIME		
n019	60.0	S	DECELERATION TIME		
n024	10.0	HZ	KEYPAD SPEED REFERENCE		
n025	6.0	HZ	HAND MODE SPEED REFERENCE		
n033		AMPS	MOTOR FULL LOAD AMPS- (MUST BE SET BY CUSTOMER)		
n038	5	N/A	REMOTE/LOCAL (USED FOR NORMAL/TEST)		
n040	21	N/A	PID CONTROL DISABLE		
n043	0	N/A	0-10VDC AUTO MODE SIGNAL (FACTORY SETTING)		
11043	1	N/A	4-20MADC AUTO MODE SIGNAL		
n055	1	N/A	MOMENTARY POWER LOSS RIDE THROUGH ENABLED		
n056	20	%	SPEED SEARCH OPERATION LEVEL		
n057	1.0	s	MINIMUM BASE BLOCK TIME		
n058	25	%	V/F DURING SPEED SEARCH		
n061	1	N/A	DRIVE FAULT RELAY DE-ENERGIZED DURING AUTO RESTART ATTEMPTS		
n068	50	%	DC INJECTION BRAKING CURRENT LEVEL		
n070	5.0	S	DC INJECTION BRAKING TIME AT START		

DRIVE OPERATION MODE SELECTION TABLE 5

	n002 SETTINGS	RUN/STOP COMMAND	FREQUENCY REFERENCE	SEE NOTE
	0	KEYPAD	KEYPAD	9
	1	EXT. TERMINALS	KEYPAD	
	2	KEYPAD	EXT. TERMINALS	9
	3 FACTORY SETTING	EXT. TERMINALS	EXT. TERMINALS	
Ī	4	KEYPAD	SERIAL COMM.	9
	5	EXT. TERMINALS	SERIAL COMM.	
	6	SERIAL COMM.	SERIAL COMM.	10
	7	SERIAL COMM.	KEYPAD	10
	8	SERIAL COMM.	EXT. TERMINALS	10

NOTES:

- * COMPONENTS NOT SUPPLIED BY YASKAWA.
- CUSTOMER WIRING. FOR 0 TO 100 AMPS, USE 60°-75°C COPPER WIRE.
 ABOVE 100 AMPS, USE 75°C COPPER WIRE.
- O CUSTOMER CONNECTION POINT ON PANEL MOUNTED TERMINAL BLOCK TB1. TORQUE WIRE CONNECTIONS TO 10 LB. IN.
- FACTORY CONNECTION POINT ON DRIVE A1.

REFER TO THE PRODUCT DESCRIPTION AND ASSOCIATED OPTION TABLES TO DETERMINE WHICH OPTIONS ARE PRESENT.

- 1. CONNECTED TO PANEL. CUSTOMER TO CONNECT PANEL GROUND LUG TO EARTH GROUND.
- MOTOR OVERLOAD RELAY, S12, IS FACTORY SET FOR MANUAL RESET. CUSTOMER TO ADJUST S12 TRIP SETTING FOR THE AC MOTOR'S FULL LOAD AMPS.
- TERMINALS SUPPLIED FOR INSERTION OF NORMALLY CLOSED CUSTOMER SAFETY CONTACTS LE. FIRESTAT, FREEZESTAT, WINDING OR BEARING TEMPERATURE ACTIVATED SWITCHES. IF APPLICABLE, REMOVE THE FACTORY INSTALLED JUMPER J1.
- TERMINALS SUPPLIED FOR INSERTION OF CUSTOMER SUPPLIED DAMPER ELECTRIC PNEUMATIC VALVE, (SQLENDID), WITH A MAXIMUM POWER RATING OF 370/A SEALED AND 97VA INSUR, USED TO CONTROL THE OPENING AND COSING OF A SYSTEM DAMPER. IF APPLICABLE, CHANGE DRIVE PARAMETER nO04 TO 1.
- B. TERMINALS SUPPLIED FOR INSERTION OF CUSTOMER SUPPLIED. NORMALLY OPEN DAMPER END SWITCH (OPEN=DAMPER CLOSED, CLOSED=DAMPER FULLY OPEN). IF APPLICABLE, REMOVE THE FACTORY INSTALLED JUMPER JZ.
- INSULATED TWISTED SHIELDED WIRE IS REQUIRED. 2 CONDUCTOR \$18GA. (BELDON \$6760, OR GOLIVALENT). SHIELD TO CONNECT TO PROPER TERMINAL AS SHOWN. CONNECT THE SHIELD ONLY AT THIS END. STUB AND ISOLATE THE OTHER END. DO NOT RUN THESE WIRES IN THE SAME CONDUIT AS THE AC POWER AND AC CONTROL WIRES.
- 6. DRIVE PARAMETER HOTO IS PROVIDED TO PREVENT THE DRIVE FROM STARTING INTO A SPINNING MOTOR FOLLOWING A TRANSITION FROM THE BYPASS MOST OT THE DRIVE MODE OF DEPARTION. CUSTOMER TO FELLO AUDITS ADVO FOR THE DECELERATION TO STOP TIME (IN SECONDS) OF THE AC MOTOR FROM THE MOST STEPPING WHEN SWITCHING FROM THE BYPASS TO THE MOVE MODE OF DEPARTON.
- 7. WHEN PRESSURE TRANSDUCER (OPTION P) IS PRESENT (SEE OPTION TABLE 2), CONNECT THE PNEUMATIC SIGNAL AS SHOWN ON PAGE 1
- IF A "2 WIRE" OR "3 WIRE" INITIALIZATION IS PERFORMED ON THE DRIVE, THEN THE DRIVE PARAMETERS NEED TO BE RE-ENTERED, AS SHOWN IN THE SPECIAL PARAMETER SETTINGS TABLES 4 AND 5.
- IF RUN/STOP IS TO BE PERFORMED VIA THE DRIVE KEYPAD, THEN THE CUSTOMER SAFETY INTERLOCK, THE DAMPER CONTROL AND THE DAMPER END SWITCH WILL NO LONGER FUNCTION. CONTACT THE FACTOR', IF THESE FUNCTIONS ARE REQUIRED.
- 10. SERIAL COMMUNICATIONS RUN/STOP CONTROL:

THE CUSTOMER MUST ADD A JUMPER US BETWEEN POINTS 3 AND 4 ON THE PANEL MOUNTED TERMINAL BLOCK TIB, AND THE HAND/STOP/AUTO SMITCH, 52 MUST BE IN THE "AUTO" POSTRON, IF SERIAL COMMUNICATIONS IS TO BE USED TO CONTROL THE RUN-STOP OF THE DRIVE.

11. HAND/STOP/AUTO. SWITCH OPERATION:
THE FUNCTION OF THE HAND/STOP/AUTO SWITCH IS TO SELECT SPEED AND RUN/STOP CONTROL.
THE AUTO POSITION SELECTS THE AUTO SIGNAL INPUT FOR SPEED AND A CUSTOMER SUPPLED
CONTACT FOR A RUN COMMAND. THE HAND POSITION SELECTS THE DRIVE KEPPAD FOR
SPEED AND A RUN COMMAND ACTIVATED BY THE SPYPASS/FOFDWES SWITCH.

12. IEST/MOSINAL SWITCH OFERS/TION.

THE STREAM OF THE TEST ANOMAN SWITCH IS TO TEST THE DRIVE WHILE IN EDHER THE OFF OF BYRASS MODE. IF THE TEST ANOMAN SWITCH IS IN THE TEST FOSTION WHILE OFFERTING IN THE DRIVE MODE. THEN THE DRIVE MILE FAULT ON AN TEST. THIS FAULT MAY BE RESET BY FIRST SWITCHING TO ETHER "BYPASS" OR "OFF", AND THEN PRESSING RESET ON THE DRIVE KLYPAD.

FOR GPD506 BYPASSES WITH A CONTROL TRANSFORMER, T1, POWER RATING OF 350VA OR GREATER, A SECONDARY FUSE, F6, IS ADDED.