

840

10 B60

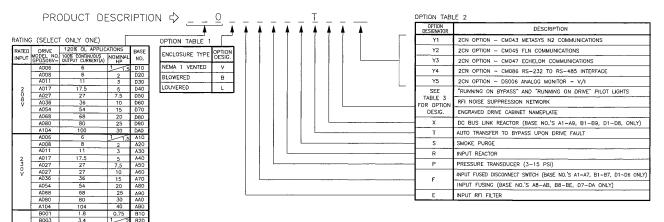
20 880 25 B90 30 BA0

40 BB0

50 BC0 60 B00

Job Name: Contractor:

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OPTION COMBINATION TABLE 3

ORTION	OPTION DESIGNATION						
OPTION		4	6	G	J	L	U
PILOT LIGHTS		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

BDOB

B011 B014

B027

B065

8080

B034

B041

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

· SCHEMATIC SHOWS THIS POSITION. CONTACT SEQUENCE CHART FOR S2 X - INDICATES CONTACT CLOSED

CONTACT	F	MANUF, LOCATION		
	HAND	STOP	AUTO	TYPE
1	×			1R0
2			Х	1LO
3	х			2R0

· SCHEMATIC SHOWS THIS POSITION. CONTACT SEQUENCE CHART FOR S3

	011160	00111110	. 05000	
CONTACT	PO	SITION	MANUF.	
	TEST	NORMAL	/TYPE	
1 ,		x	1R0	
2	Х		1LC	
3	х		2RC	
4	Х		2LC	
-				

SCHEMATIC SHOWS THIS POSITION.

SPECIAL PARAMETER SETTINGS TABLE 4 (SEE NOTE 8)

			NGS 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				
11000	208	V	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)				
11045	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 S.

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	
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 1B1. 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 I.E. FIRESTAT, FREEZESTAT, WINDING OR BEARING TEMPERATURE ACTIVATED SWITCHES. IF APPLICABLE, REMOVE THE FACTORY INSTALLED JUMPER J1.
- 4. A. TERMINALS SUPPLIED FOR INSERTION OF CUSTOMER SUPPLIED DAMPER ELECTRIC PNEUMATIC VALVE (SOLENDID), WITH A MAXIMUM POWER RATING OF JOVA SEALED AND 97VA NRIVSH, USED TO CONTROL THE OPENIOR AND CLOSING OF A SYSTEM DAMPER, IF APPLICABLE, CHANGE DRIVE PARAMETER nOO4 TO 1.
- B. TERMINALS SUPPLIED FOR INSERTION OF CUSTOMER SUPPLIED, NORMALLY OPEN-DAMPER END SWITCH (OPEN-DAMPER CLOSED DAMPER FULLY OPEN). IF APPLICABLE, REMOVE THE FACTORY INSTALLED JUMPER JZ.
- 5. INSULATED TWISTED SHIELDED WIRE IS REQUIRED. 2 CONDUCTOR \$18GA. (BELDON \$6750, OR EQUIVALENT). SHIELD TO CONNECT TO PROPER TERMINAL AS SHOWN, CONNECT THE SHELD GNLY AT THIS END. STUB AND ISOLATE THE OTHER END. DO NOT PLUN THESE WIRES IN THE SAME CONDUIT AS THE AP POWER AND AC CONTROL WIRES.
- 6. DRIVE PARAMETER 1070 IS PROVIDED TO PREVENT THE DRIVE FROM STARTING INTO A SPINNING MOTOR FOLLOWING A TRANSITION FROM THE BYPASS MODE TO THE DRIVE MODE OF DEPATION. CUSTOMER TO FIELD AUDITS 1070 FOR THE DECELERATION TO STOP THE (IN SECONDS) OF THE AC MOTOR FROM MAKINUM SPEED, WHEN SWITCHING FROM THE BYPASS TO THE DRIVE MODE OF DEPATION.
- 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 RND SWITCH WILL NO LONGER FUNCTION. CONTACT THE FACTOR'S, IT THESE FUNCTIONS ARE REQUIRED.

SERIAL COMMUNICATIONS, RUN/STOP CONTROL;
 THE CUSTOMER MUST ADD A JUMPER 18 ERIWEEN POINTS 3 AND 4 ON THE PANEL MOUNTED TERMINAL EDCK 151, AND THE HAND/STOP/AUTO SWITCH, 52 MUST BE: IN THE "AUTO" POSITION, 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 SUPPLIED
CONTACT FOR A RUN COMMAND. THE HAND POSITION SELECTS THE GOVER KEYPAD FOR
SPEED AND A RUN COMMAND ACTIVATED BY THE SPYNESS/OFF/DIENE SWITCH.

12. TEST/NORMAL_SWITCH_OPERATION:

IEST/KOMMAL_SWITCH OPERATION:
THE FUNCTION OF THE TEST/KOMMAL SWITCH IS TO TEST THE DRIVE WHILE IN EITHER THE OFF
OR BYPASS MODE. IF THE TEST/KORMAL SWITCH IS IN THE TEST POSITION WHILE OPERATING IN
THE DRIVE MODE, FIND THE DRIVE WILL FAULT ON AN "EST." THIS FAULT MAY BE RESSET BY
FIRST SWITCHING TO EITHER "BYPASS" OR "OFF", AND THEN PRESSING RESET ON THE DRIVE
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- FOR GPD506 BYPASSES WITH A CONTROL TRANSFORMER, T1, POWER RATING OF 350VA OR GREATER, A SECONDARY FUSE, F6, IS ADDED.
- 14. AUTO TRANSFER, OPTION T, OPERATION:
 THE AUTO TRANSFER OPTION IS DESIGNED TO AUTOMATICALLY TRANSFER FROM THE DRIVE MODE
 OF OPERATION TO THE BYEASS MODE OF OPERATION, UPON A DRIVE FAULT CONDITION, WHEN
 THE BYPASS/OFF/DRIVE SWITCH IS IN THE "DRIVE" POSTROM. THIS TRANSFER MAY BE RESET BY
 SWITCHING THE CHPASS/OFF/DRIVE SWITCH FROM DRIVE" TO D'IT, WAITION A FEW SECONDS
 FOR THE KEYBOL ED DISPLAY TO GO BLANK, AND THEN SWITCHING BOK TO "DRIVE", ASSUMING
 THAT THE CONDITION WHICH CAUSED THE DRIVE TO FAULT HES DISAPPEARED.