

870

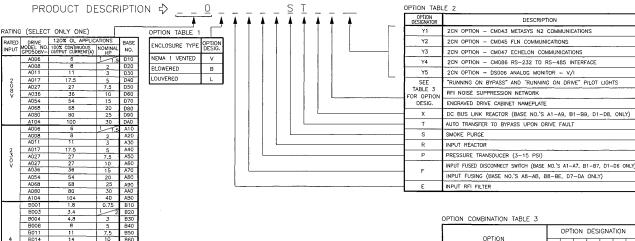
20

25 30

40 50 980

60 800 Job Name: Contractor:

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OPTION	OPTION DESIGNATION						
OPTION	2	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

CONTACT SEQUENCE CHART FOR S1 X - INDICATES CONTACT CLOSED

80

B027

B034

B041 8052

B065

B080 B096

CONTACT	PO	MANUF.			
CONTACT	BYPASS	OFF	DRIVE	/TYPE	
1	×			1RO	
2			×	1L0	
3			×	2L0	
4			×	3L0	
5			х	4LO	

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

CONTACT	F	MANUF, LOCATION				
CONTACT	HAND	STOP	AUTO	/TYPE		
1	X			1RO		
2			×	1L0		
3	Х			2R0		

· SCHEMATIC SHOWS THIS POSITION CONTACT SEQUENCE CHART FOR S3

X - INDI	CATES	CONTAC	CLOSE
CONTACT	PO	MANUF. LOCATION	
	TEST	NORMAL	/IYPE
1		×	180
2	Х		1LC
3	X		2RC
4	Х		2LC
5		Х	3RO

SCHEMATIC SHOWS THIS POSITION

SPECIAL PA	ARAMETER	SETTI	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
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	\$	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 LÉVEL
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	
7	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

- * 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 I.E. 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 PREJUATIC VALVE (SQLENDID), WITH A MAXIMUM POWER RATING OF 30VA SEALED AND 97VA INSUR, USED TO CONTROL THE OPENING AND COSING OF A SYSTEM DAMPER. IF APPLICABLE, CHANGE DRIVE PARAMETER NOO4 TO 1.
- 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 J2.
- INSULATED TWISTED SHIELDED WIRE IS REQUIRED. 2 CONDUCTOR \$18GA. (BELDON \$8750, OR GOUNTERT). SHIELD TO CONNECT TO PROPER TERMINAL AS SHOWN, CONNECT THE SHIELD ONLY AT THIS END. STUB AND ISCLATE THE OTHER END. DO NOT RUN THESE WIRES IN THE SAME CONDUIT AS THE AC POWER AND AC CONTROL WIRES.
- DRIVE PARAMETER NOTO IS PROVIDED TO PREVENT THE DRIVE FROM STARTING INTO A SPIRKING MOTOR FOLLOWING A TRANSITION FROM THE BYPASS MODE TO THE DRIVE MODE OF OFFERATION. CUSTOMER TO FIELD ADJUST NOTO FOR THE DECLERATION TO STOP TIME (IN SECONDS) OF THE AC MOTOR FROM MAXIMUM SPEED, WHEN SWITCHING FROM THE BYPASS TO THE DRIVE MODE OF OFFERATION.
- WHEN PRESSURE TRANSDUCER (OPTION P) IS PRESENT (SEE OPTION TABLE 2), CONNECT THE PNEUMATIC SIGNAL AS SHOWN ON PAGE 1.
- 8. 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'S, IF THESE FUNCTIONS ARE REQUIRED.
- SERIAL COMMUNICATIONS RUN/STOP CONTROL:
 THE CUSTOMER MUST ADD A JUMPER 19 BETWEEN POINTS 3 AND 4 ON THE PANEL MOUNTED
 TERMANA LOCK T81, AND THE HAND/STOP/AUTO SWITCH, \$2 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 GOME KEYPAD FOR
SPEED AND A RUN COMMAND ACTIVATED BY THE SPYPASS/OFF/DIANE SWITCH.

- 12. TEST/NORMAL SWITCH OPPEATION:
 THE FUNCTION OF THE TEST/NORMAL SWITCH IS TO TEST THE DRIVE WHILE IN EITHER THE OFF
 OR SPYSAS MODE. IF THE TEST/NORMAL SWITCH IS IN THE TEST POSITION WHILE OPPEATING IN
 THE DRIVE MODE, THEN THE DRIVE WILL FAULT ON AN TEST. THIS FAULT MAY BE RESET BY
 FIRST SWITCHING TO EITHER "SPYSAS" OR OFF, AND THEN PRESSAM RESET ON HITE DRIVE
 THEN THE SWITCHING TO STITLE SPYSAS OR OFF, AND THEN PRESSAM RESET ON HITE DRIVE
 THEN THE SWITCHING THE STITLE SPYSAS OR OFF.
- FOR GPD506 BYPASSES WITH A CONTROL TRANSFORMER, T1, POWER RATING OF 350VA OR GREATER, A SECONDARY FUSE, F6, IS ADDED.
- 14. SMOKE PURGE, OPTION S, OPERATION; THE FUNCTION OF THE SMOKE PURGE OPTION IS TO CAUSE THE MOTOR TO RUN AT FULL, SPEED, APROSS THE LINE, REQUIRELES OF AMY DRIVE, MOTOR OR CUSTOMER SAFETY FAULTS, WHEN THE CUSTOMER SUPPLIED NORMAL/PURGE SWITCH IS IN THE "PURGE" POSITION. IF THIS OPTION IS USED WITH THE PILOT LIGHTS OPTION, THEN BOTH THE "RUNNING ON DRIVE" AND "RUNNING ON BYPASS" PILOT LIGHTS WILL BE LIT IN THE "PURGE" AND "DRIVE" MODES.
- 15. AUTO TRANSETE. ONTINE I GERRALINE.

 THE AUTO TRANSET PROMISE AND IN SECURIO TO AUTOMITICALLY TRANSFER FROM THE DRIVE MODE
 OF OPERATION TO THE DIPPLES MODE OF OPERATION, LEON A DRIVE FAULT COMMITTION. WHEN
 HE DIPPLES/OFF/DRIVE SWITCH IS IN THE "DRIVE" TO TOPE", WAITING A FEW SECONDS
 FOR THE KEYPAS LED DISPLAY TO GO BLANK, AND THEN SWITCHING BLAX TO DRIVE", ASSUMING THAT THE CONDITION WHICH CAUSED THE DRIVE TO FAULT HAS DISAPPEARED