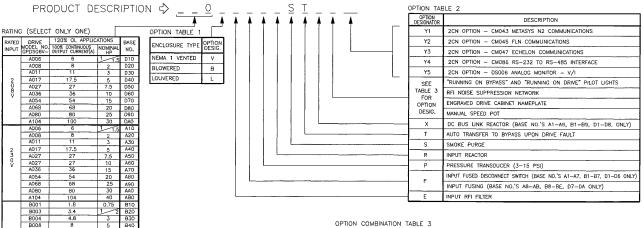


Job Name: Contractor: **Document: C21-HST** Sheet 2 of 2



OPTION COMBINATION TABLE 3

OPTION		OPTION DESIGNATION													
		2	3	4	5	6	7	G	Н	J	к	L	N	U	w
PILOT LIGHTS RFI NOISE SUPPRESSION NETWORK		0	0	٥	٥	0	0	1	1	1	1	1	1	1	1
		0	0	1	1	1	1	0	0	0	0	1	1	1	1
ENGRAVED DRIVE CABINET NAMEPLATE	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
MANUAL SPEED POT		0	_1	0	1	0	1	0	1	0	1	0	1	0	1

1 = OPTION IS PRESENT

SPECIAL PARAMETER SETTINGS TABLE 4 (SEE NOTE 8)

7.5 B50

10 B60

20 B80 25 B90 30 BA0 40 BB0

B008

B011

B014 B021

B027

B041

B065

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	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	ø	DECELERATION TIME			
п024	10.0	HZ	KEYPAD SPEED REFERENCE			
n033		AMPS	MOTOR FULL LOAD AMPS- (MUST BE SET BY CUSTOMER)			
n038	5	N/A	REMOTE/LOCAL (USED FOR NORMAL/TEST)			
n039	9	N/A	TERMINAL S5 SELECTS AUTO/HAND SPEED REFERENCE SELECT			
n040	21	N/A	PID CONTROL DISABLE			
n043	. 1	N/A	TERMINALS FI AND FV ANALOG INPUT SELECTION			
n044	0	N/A	FOR OPTION P 0-10VDC AUTO MODE INPUT, WITH CONTROL BOARD JUMPER J1 CUT			
]	1	N/A	4-20MADC AUTO MODE INPUT			
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 ETTINGS	RUN/STOP COMMAND	FREQUENCY REFERENCE	SEE NOTE
	0	KEYPAD	KEYPAD	9
	1	EXT. TERMINALS	KEYPAD	
	2	KEYPAD	EXT. TERMINALS	9
F	3 ACTORY SETTING	EXT. TERMINALS	EXT. TERMINALS	
T	4	KEYPAD	SERIAL COMM.	9
	5	EXT. TERMINALS	SERIAL COMM.	
	6	SERIAL COMM.	SERIAL COMM.	10
Г	7	SERIAL COMM.	KEYPAD	10
Г	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.
- 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.
- 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. FREEZESTAT, WINDING OR BEARING TEMPERATURE ACTIVATED SWITCHES. IF APPLICABLE, REMOVE THE FACTORY INSTALLED JUMPER J1.
- A TERMINALS SUPPLIED FOR INSERTION OF CUSTOMER SUPPLIED DAMPER ELECTRIC PREJMATIC VALVE (SOLENDID), WITH A MAXIMUM POWER RATING OF 30VA SEALED AND 97VA NRUSH, USED TO CONTROL THE OPENING AND CLOSING OF A SYSTEM DAMPER. F
- TERMINALS SUPPLIED FOR INSERTION OF CUSTOMER SUPPLIED, NORMALLY OPEN DAMPER END SWITCH (OPEN-DAMPER CLOSED, CLOSED=DAMPER FULLY OPEN). IF APPLICABLE, REMOYE THE FACTORY INSTALLED JUMPER 19.
- INSULATED THISTED SHELDED WHE IS REQUIRED. 2 CONDUCTOR #18GA (BELDON #8760, OR CQUINALENT). SHELD TO CONNECT TO PROPER TERMINAL AS SHOWN. CONNECT THE SHELD ONLY AT THIS EID. STUD AND SOLATE THE OTHER END. DO NOT PUN THESE WIRES IN THE SAME CONDUIT AS THE AC POWER AND AC CONTROL WIRES.
- MIRES IN THE CAME CONTROLL THE THE APPLIES AND IT. CONTROLL MINE OF THE DEPLY AND THE DEPLY THE
- WHEN PRESSURE TRANSDUCER (OPTION P) IS PRESENT (SEE OPTION TABLE 2), CONNECT THE PNEUMATIC SIGNAL AS SHOWN ON PAGE 1, SET PARAMETER #044 TO "0", AND CUT JUMPER J1 ON THE DRIVE CONTROL BOARD.
- IF A "Z WIRE" OR "3 WIRE" INTIMIZATION 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 FACTORY, IF THESE FUNCTIONS ARE REQUIRED.
- 10. SERIAL COMMUNICATIONS RUY/STOP CONTROL.

 TERMINOLOGICAL SERVISOR CONTROL.

 TERMINAL BLOCK TBI, AND THE HAND/STOP/AUTO SWITCH, 52 MUST BE IN THE "MUTO" POSITION, IF SERVIL COMMUNICATIONS IS TO BE USED TO CONTROL. THE RUY/STOP OF THE DRIVE.
- 11. HAND/STOP/AUTO SWITCH OFFRATION:
 THE FUNCTION OF THE HAND/STOP/AUTO SWITCH IS TO SELECT SPEED AND A CUSTOMER SUPPLIED
 THE AUTO POSITION SELECTS THE AUTO SIGNAL INPUT FOR SPEED AND A CUSTOMER SUPPLIED
 CONTACT FOR A RUN COMMAND. THE HAND POSITION SELECTS THE CARRIET DOOR MOUNTED
 SPEED FOR IT FOR SPEED AND A RUN COMMAND ACTIVATED BY THE BYTHES/FOFF,DRIVE SWITCH
 SPEED FOR IT FOR SPEED AND A RUN COMMAND ACTIVATED BY THE BYTHES/FOFF,DRIVE SWITCH
 SPEED FOR IT FOR SPEED AND A RUN COMMAND ACTIVATED BY THE BYTHE SPEED FOR FORMS WE NOT THE SPEED FOR THE SPEED FOR
- SPECIA ON AT USE SPECIAL AND A ROW COMMAND ALLIMATED BY THE BYPASS/OFF/DIMES SWITCH
 THE FUNCTION OF THE TEST/MORMAL SWITCH IS TO TEST THE DRIVE WHILE IN EITHER THE OFF
 OR BYPASS MODE. IF THE TEST/MORMAL SWITCH IS IN THE TEST POSITION WHILE OPERATING IN
 THE DRIVE MODE, THEN THE DRIVE WILL FAULT ON AN "FET." THIS FAULT MAY BE RESET BY
 THIST SWITCHING TO EITHER "BYPASS" OR "OFF", AND THEN PRESSING RESET ON THE DRIVE
 THIST SWITCHING TO EITHER "BYPASS" OR "OFF", AND THEN PRESSING RESET ON THE DRIVE
 THE SWITCHING TO EITHER SPRINGS OF THE DRIVE
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 THE SWITCHING TO THE THE SPRINGS OF THE DRIVE
 THE SWITCHING THE THE SWITCH
- FOR GPD506 BYPASSES WITH A CONTROL TRANSFORMER, T1, POWER RATING OF 350VA OR GREATER, A SECONDARY FUSE, F6, IS ADDED.

CONTACT

3

- GREATER, A SECONDARY FUSE, FG, IS AUDED.

 14. SAMOKE PURGE, OPTION S, OPERATION,
 THE FUNCTION OF THE SMOKE PURGE OPTION IS TO CAUSE THE MOTOR TO RUN AT FULL
 SPEED. AGROSS THE LIME, RECREADLESS OF ANY ORINE, MOTOR OR CUSTOMER SAFETY FAULTS,
 WHEN THE CUSTOMER SUPPLIED NORMAL/PURGE SWITCH IS IN THE "PURGE" POSITION.
 IF THIS OPTION IS USED WITH THE PLICT LIGHTS OPTION, THEN BOTH THE "RUNNING ON DRIVE"
 AND "RUNNING ON BYPASS" PLICT LIGHTS WILL BE LIT IN THE "PURGE" AND "DRIVE" MODES.
- AND RUTHING ON BITHASS PILLO LUNIS MILL DE LUI IN THE FUNDE AND UNITE MOUDE.

 15. AUTO TRANSFER, OPTION IS DESIGNED TO AUTOMATICALLY TRANSFER ROM THE DRIVE MODE
 OF DEPARTON TO THE BYESS MODE OF DEPARTON, UPON A DRIVE FAULT CONDITION, WHEN
 THE BYESS/OFT/DRIVE SWITCH IS IN THE "DRIVE" POSITION, THIS TRANSFER MAY BE RESET BY
 STATE OF THE BYESS OFT FAULT OF THE SECOND THE STATE OF THE SECOND TO THE SECOND TH

3RO

CONTACT SEQUENCE CHART FOR \$1 X - INDICATES CONTACT CLOSED

CONTACT

3

4

POSITION MANUF.

х 2L0

× 3LO

1R0

1L0

Х

CONTACT SEQUENCE CHART FOR S2 X - INDICATES CONTACT CLOSED POSITION

HAND STOP AUTO

Ŧ	T CLOSED X - INDICATES CONTACT CLOSED											
ON MANUF.			CONTACT	PC	SITION	MANUF.						
P	AUTO*	/TYPE		CONTACT	TEST	NORMAL	/TYPE					
		1R0		1		х	1R0					
_	х	1L0		2	Х		1LC					
		2R0	ŀ	3	Х		2RC					
	х	2L0	1	4	×		2LC					

CONTACT SEQUENCE CHART FOR S3

5 X

CONTACTS 4 AND 5 PRESENT ONLY WITH OPTION P. . SCHEMATIC SHOWS THIS POSITION

5 X 3R0 · SCHEMATIC SHOWS THIS POSITION

⁵ X 41.0 · SCHEMATIC SHOWS THIS POSITION.