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DESIG

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SPECIAL PARAMETER SETTINGS TABLE 4 (SEE NOTE 8)

%

50 5.0

n058

n070

N /A DEAD /WORTE TO ALL DARAMETERS

PARAMETER DATA UNIT

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RATING (SELECT ONLY ONE) OPTION TABLE 1 RATED DRIVE 120% OL APPLICATIONS INPUT MODEL NO. 100% CONTINUOUS NOMINAL GPD506V- 0UTPUT CURRENT(A) HP RATED BASE ENCLOSURE TYPE NO. NEMA 1 VENTED A006 010 1-1. A008 BLOWERED 2 A011 11 A017 LOUVERED 17.5 208 5 7.5 A027 A036 050 D6C 36 10 A054 15 54 20 25 A068 68 080 090 A080 80 A104 100 30 DAG 1.5 A10 A006 A008 A011 A20 A30 - 3 A017 17.5 A40 A50 A027 27 7.5 A027 460 A036 A70 15 20 4054 54 ASC A068 68 A90 AA0 AB0 A080 80 30 A104 104 B001 B10 1.8 B003 34 830 B004 4.8 B008 B40 5 B011 7.5 B50 B014 B021 850 870 15 B027 B034 20 B80 25 B90 30 BA0 40 BB0 B041 41 B052 52 B065 BC | 50

PRODUCT DESCRIPTION ↔

* * * * * * *	OPTION DESIGNATOR	DESCRIPTION
	¥1	2CN OPTION - CM043 METASYS N2 COMMUNICATIONS
	Y2	ZCN OPTION - CM045 FLN COMMUNICATIONS
	Y3	2CN OPTION - CM047 ECHELON COMMUNICATIONS
	Y4	2CN OPTION - CM086 RS-232 TO RS-485 INTERFACE
	Y5	2CN OPTION - DS006 ANALOG MONITOR - V/I
	SEE TABLE 3 FOR OPTION	"RUNNING ON BYPASS" AND "RUNNING ON DRIVE" PILOT LIGHTS
		RFI NOISE SUPPRESSION NETWORK
	DESIG.	ENGRAVED DRIVE CABINET NAMEPLATE
	X	DC BUS LINK REACTOR (BASE NO.'S A1-A9, 81-89, D1-D8, ONLY)
	Т	AUTO TRANSFER TO BYPASS UPON DRIVE FAULT
	S	SMOKE PURGE
	R	INPUT REACTOR
	- P	PRESSURE TRANSDUCER (3-15 PSI)
	-	INPUT FUSED DISCONNECT SWITCH (BASE NO.'S A1-A7, B1-B7, D1-D6 ONLY)
	F	INPUT FUSING (BASE NO.'S A8-AB, 88-BE, D7-DA ONLY)
	E	INPUT RFI FILTER

OPTION COMBINATION TABLE 3

OPTION		OPTION DESIGNATION						
		4	6	G	J	Ł	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	I	

1 = OPTION IS PRESENT

DRIVE OPERATION MODE SELECTION TABLE -	5
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	NATION MODE SECCO		
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 TB1. TORGUE 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 BEAMING TEMPERATURE ACTIVATED SWITCHES, IF APPLICABLE, REMOVE THE FACTORY INSTALLED JUNITER J1. 4. A. TERMINALS SUPPLIED FOR INSERTION OF CUSTOMER SUPPLIED DAMPER ELECTRIC
- TERMINALS SOFTLED FOR TELED FOR THE A MAXIMUM POWER RATING OF 30VA SALED AND 97VA INRUSH, USED TO CONTROL THE OPENING AND CLOSING OF A SYSTEM DAMPER, IF APPLICABLE, CHANGE DRIVE PARAMETER F004 TO 1.
- B. TERNIMALS SUPPLIED FOR INSERTION OF CUSTOMER SUPPLIED, NORMALLY OPEN DAMFER END SWITCH (OPEN-DAMFER CLOSED, CLOSED-DAMFER FULLY OPEN). IF APPLICABLE, RENOVE THE FACTORY INSTALLED JUMPER 22.
- 5. INSULATED TWISTED SHIELDED WIRE IS REQUIRED. 2 CONDUCTOR ∲18GA. (BELDON ∲8760, OR EQUIVALE/M), SHIELD TO CONNECT TO PROPER TERMINAL AS SHOWN, CONNECT THE SHELD ONLY AT THIS END. 2016 AND EQUICAT THE OTHER END. OD NOT RUN THESE WIRES IN THE SAME CONDUCT AS THE AC POWER AND AC CONTROL WIRES.
- 6. DRIVE PARAMETER n070 IS PROVIDED TO PREVENT THE DRIVE FROM STARTING INTO DATE PRAVMETER PARAMETER TO THE DATE TO THE DATE THE DATE TANK STATUS INTO A SPINING MOTOR FOLLOWING A TRANSITION FROM THE BYRASS MODE TO THE DRIVE MODE OF OPERATION. CUSTOMER TO FIELD ADJUST NOTO FOR THE DECELERATION TO STOP TIME (IN SECONDS) OF THE AC MOTOR FROM MAXIMUM SPEED, WHEN SWITCHING FROM THE BYPASS TO THE DRIVE MODE OF OPERATION.
- WHEN PRESSURE TRANSDUCER (OPTION P) IS PRESENT (SEE OPTION TABLE 2), CONNECT THE PNEUMATIC SIGNAL AS SHOWN ON PAGE 1.
- IF A "2 WRE" OR "3 WRE" INITIALIZATION IS PERFORMED ON 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 VA THE DRIVE KEYFAD, THEN THE CUSTOMER SAFETY INTERLOCK. THE DAMPER COMTROL AND THE DAMPER END SWITCH WILL NO LONGER FUNCTION. CONTROL THE FACTORY, IF THESE FUNCTIONS ARE REQUIRED.
- 10. SERIAL COMMUNICATIONS RUN/STOP CONTROL: THE CUSTOMER MUST ADD A JUMPER JB BETWEEN POINTS 3 AND 4 ON THE PANEL MOUNTED TERMINAL BLOCK TEN, AND THE HAND/STOP/AUTO SWITCH, 32 MUST BE IN THE "AUTO SOTION, IF SERNAL COMMUNICATIONS IS TO BE USED TO CONTROL THE RUN/STOP OF THE DRIVE.
- 11. <u>HAND/STOP/AUTO_SWITCH_OPERATION;</u> THE FUNCTION OF THE HAND/STOP/AUTO SWITCH IS TO SELECT SPEED AND RUN/STOP CONTROL. THE AUTO POSITION SELECTS THE AUTO SCIANL INPUT FOR SPEED AND A CUSTOMER SUPPLIED CONTACT FOR A RUN COMMAND. THE HAND FOSITION SELECTS THE GRINE KEYPAD FOR SPEED AND A RUN COMMAND ACTIVATED BY THE EMPOSICION SELECTS.
- 12. <u>TEST/NORMAL SWITCH OPERATION:</u> THE FUNCTION OF THE TEST/NORMAL SWITCH IS TO TEST THE DRIVE WHILE IN ETHER THE OFF OR GYMSAS MOLE. IF THE TEST/NORMAL SWITCH IS IN THE TEST POSITION WHILE OPERATING IN THE DRIVE MODE, THEN THE DRIVE WILL FAULT ON AN TEST. THIS FAULT MAY BE RESET BY FIRST SWITCHING TO ETHER STPMASS' OR "OFF", AND THEN PRESSING RESET TO IN THE DRIVE THE STRUCTURE TO ETHER STPMASS'. OR "OFF", AND THEN PRESSING RESET TO IN THE DRIVE THE STRUCTURE TO ETHER STPMASS'. KEYPAD.
- 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:

SMURL FORSE OF HONES FOR ENDER OFTION IS TO CAUSE THE MOTOR TO RUN AT FULL THE FUNCTION OF THE SMOKE PURGE OFTION IS TO CAUSE THE MOTOR TO RUNTARE 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.

B080 B096 CONTACT SEQUENCE CHART FOR ST

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

80

60 BDC

BEC

CONTACT SEQUENCE CHART FOR \$2

	X – INDICATES CONTACT CLOSED						
	CONTACT	f	MANUF, LOCATION				
		HAND	STOP	AUTO	/TYPE		
	1	х			1RO		
	2			х	1L0		
	3	х			2RO		

· SCHEMATIC SHOWS THIS POSITION

CONTACT SEQUENCE CHART FOR S3 X - INDICATES CONTACT CLOSED

CONTACT	PO	MANUF		
CONTACT	TEST	NORMAL	/TYPI	
1		X	1R0	
2	х		1LC	
3	х		2RC	
4	х		2LC	
COUTUR		0000 700		

· SCHEMATIC SHOWS THIS POSITION

n001	3	N/A	READ/WRITE TO ALL PARAMETERS
r:002	TABLE 5	N/A	DRIVE OPERATION MODE SELECTION
n003	460(230)	V	STANDARD MAX VOLTAGE SETTING
	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	ΗZ	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)
1045	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

DC INJECTION BRAKING CURRENT LEVEL

S DC INJECTION BRAKING TIME AT START

DESCRIPTION/REMARKS