

PRODUCT DESCRIPTION		T		_	OPT	TION TABI	E 2				N	OTES:		
				_	DE	OPTION SIGNATOR	DESCRIPTIC	ON				* COMPON		
			TT	Y1 2CN OPTION - CM043 METASYS N2 COMMUNICATIONS							CUSTOM			
RATING (SELECT ONLY ONE) OPTION TABLE 1						YZ 2CN OPTION - CM045 FLN COMMUNICATIONS						C CUSTOM		
DATED DRIVE 120% OL APPLICATIONS DASE			L	Y3 2CN OPTION - CM047 ECHELON COMMUNICATIONS								FACTORY		
RATED DRIVE T207 CONTINUOUS NOMINAL NO. ENCLOSURE TYPE OPTION DESIG.						Y4 2CN OPTION - CM086 RS-232 TO RS-485 INTERFACE						REFER T		
A130 130 4D DBO NEMA 1 VENTED V						Y5 2CN OPTION - DS006 ANALOG MONITOR - V/I						WHICH C		
2 A160 160 50 DC0 A192 192 60 DD0 BLOWERED B				L	-		SEE "RUNNING ON BYPASS" AND "RUNNING ON DRIVE" PILOT L					2. MOTOR		
8 A192 192 60 DD0 -	8 A192 192 80 DD8					TABLE 3 REL NOICE CHORDECCION NETWORK						ADJUST 3 TERMINA		
A312 300 100 DF0	DFO					R OPTION DESIG.	ENGRAVED DRIVE CABINET NAMEPLATE					CONTACT		
A130 130 50 AC0 A160 160 60 AD0 3 4162 103 75 160					_	T AUTO TRANSFER TO BYPASS UPON DRIVE FAULT					_	4. A. TER		
3 A192 192 75 AED					_	S SMOKE PURGE						PNE		
V A248 248 100 AFD A312312 125 AGO						R				_	DAM B. TER			
B128 128 100 BF0	9F0 9G0 9H0 8J0													
							PRESSURE TRANSDUCER (3-15 PSI)					IF A 5. INSULATI		
				F INPUT FUSING					OR			OR EQU SHIELD		
6 B302 300 250 BK0						E	INPUT RFI FILTER				WIRES I			
0 B380 380 300 BL0 V B506 414 350 BM0 DRIV						6. DRIVE P A SPINN								
B506 506 400 BN0 n	002 RUN/STOP COMMAND FREQUEN						OPTION COMBINATION TABLE 3				_	MODE 0 STOP TI		
B675 515 450 BP0 SE B675 575 500 BR0	SETTINGS REFERENCE NOTE						OPTION	OPTION DE	ESIGN	SNATION 7		FROM TH		
	0 KEYPAD KEYPA						OPTION	2 4 6 0	GJ	I L	U	THE PN		
INPUT FUSE INPUT FUSE OPTION F OPTION F BASE NO'S: BASE NO'S:	1 EXT. TERMINALS KEYPA						PILOT LIGHTS		1 1	+ +	1	 IF A "2 PARAMET 		
BASE NO'S: BASE NO'S: DB-DF, AC-AG, BF-BL BM-BR	2 KEYPAD EXT. TERM	INALS 9					RFI NOISE SUPPRESSION NETWORK		0 0	_		TABLES		
	3 CTORY EXT. TERMINALS EXT. TERM	INALS					ENGRAVED DRIVE CABINET NAMEPLATE		0 1		1	 IF RUN/ INTERLOG 		
	TTING EXT. TERMINALS EXT. TERM						ENGINEED DATE OVERALL TVALLED TE	1 = OPTION IS				CONTACT 10. <u>SERIAL</u>		
	4 KEYPAD SERIAL CO		SPECIAL F	PARAMETER S	SETTING	S TABLE	4 (SEE NOTE 8)			2.41		THE CU		
	5 EXT. TERMINALS SERIAL CO		PARAMETER		UNIT		DESCRIPTION/REMARKS		_			IF SERIA		
3F F5A 6 SERIAL COMM. SERIAL COMM. 10			n001	3	N/A	READ/WRI	TE TO ALL PARAMETERS				1	1. <u>HAND/S</u> THE FUN THE AUT		
FSB 7 SERIAL COMM. KEYPAD 10			n002	SEE TABLE 5			RIVE OPERATION MODE SELECTION					THE AUT		
8 SERIAL COMM. EXT. TERMINALS 10				460(230)	v	STANDARD MAX VOLTAGE SETTING						SPEED /		
INPUT RTI FILTER OPTION E INPUT RFI FILTER BASE NO'S: DBLOC, DF ACADAG, BF, BG, SJ-BR BASE NO'S: DDLC, BACAF, BH			n003	208	v		AGE SETTING FOR BASE NO. "D"					12. TEST/N THE FUR		
BASE NO'S: DB,DC,DF, OPTION E AC,AD,AG, BF,BG,BJ-BR BASE NO'S: DD,DE, AE,AF, BH			n006	1			RUN DISABLED					OR BYP. THE DRI FIRST S		
16 17 18 L1/A1 L2/B1 L3/C1 DRMD L1/A1 L2/B1 DRMD L1/A1 L2/B1 L1/A1 L2/B1 L3/C1 DRMD L1/A1 L2/B1 L1/A2 L2/B1 L3/C1 L1/A2 L2/B1 L3/C1 L1/A2 L2/B1 L3/C1 L1/A2 L3/B2 L3/C2 T1/A2 L3/B2 L3/C2 L1/A2 L3/B2 L3/C2 MOTE 1 NOTE 1 NOTE 1			n007	0	,		OCAL/REMOTE KEY DISABLED							
			n018	60.0		······	CCELERATION TIME					3. AUTO T		
			0019	60.0			CELERATION TIME					THE AUT OF OPE		
			n024	10.0			PEED REFERENCE	_			THE BYF SWITCHI			
			n025	6.0			DE SPEED REFERENCE	_			FOR THE THAT TH			
			n033											
			n033	5			NOR FULL LOAD AMPS (MUST BE SET BY CUSTOMER) MOTE/LOCAL (USED FOR NORMAL/TEST)							
			n040	21			ROL DISABLE		-					
INPUT REACTOR INPUT REACTOR, OPTION R OPTION R AND INPUT REI FILTER INPUT REACTOR, OPTION R			1040	0 N/A 0-10VDC AUTO MODE SIGNAL (FACTORY SETTING)										
INPUT REACTOR INPUT REACTOR, OPTION R OPTION R AND INPUT RFI FILTER INPUT RFI FILTER BASE NOS: DB-DF, DPION R AC-AG, BF-BP BASE NO'S: DBJOC, DF, DPION R C-AG, BF-BP BASE NO'S: DBJOC, DF, BASE NO'S: DDJOC, AE, AF, BH			n043									CONTACT SEQUENCE CHART FO X - INDICATES CONTACT CLOS		
AC,AD,AG, BF,BG,BJ-BP	BASE NO'S: DD,DE, AE,AF, BH			1 N/A 4-20 MADC AUTO MODE SIGNAL N/A MOMENTARY POWER LOSS RIDE THROUGH ENABLED							1			
	13 14 15 7 A1 2 B1 2 C1		n055				RY POWER LOSS RIDE THROUGH ENABLE	ED	_	CONTAC	T i i	OSITION		
13 14 15 13 14 15			n056	20	70		ARCH OPERATION LEVEL			L		OFF DRIVE		
			n057	1.0			UM BASE BLOCK TIME			1	×			
	<u>יל ל ל י</u>		n058	25	%	V/F DUR	NG SPEED SEARCH			2		X		
] A2] B2] C2		n061	1	N/A	DRIVE FAI	JLT RELAY DE-ENERGIZED DURING AUTO	O RESTART ATTEM	PTS	3	1	×		
4 5 6	16		n068	50	%	DC INJEC	TION BRAKING CURRENT LEVEL			4		×		
16 17 18	17		n070	5.0	S	DC INJEC	TION BRAKING TIME AT START			5		×		
	L1/A1 L2/B1 L3/C1 L1/A1 L2/B1 L3/C1									 SCHEM/ 	ATIC SHOW	/S THIS POS		
	O GND LINE L2A L2B L0AD GNDO	-												
	L1/A2 L2/B2 L3/C2 L1/A2 L2/B2 L3/C2													
SEE V V V		m l												
INOTE 1 SEE	4 N	SEE 1												

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- ONENTS NOT SUPPLIED BY YASKAWA.
- TOMER WIRING. FOR 0 TO 100 AMPS, USE 50 -75 C COPPER WIRE. ABOVE 100 AMPS, USE 75 C COPPER WIRE.
- TOMER CONNECTION POINT ON PANEL MOUNTED TERMINAL BLOCK TB1. TORQUE CONNECTIONS TO 16-20 LB. IN. DRY CONNECTION POINT ON DRIVE A1.
- R TO THE PRODUCT DESCRIPTION AND ASSOCIATED OPTION TABLES TO DETERMINE H OPTIONS ARE PRESENT.
- ECTED TO CABINET, CUSTOMER TO CONNECT CABINET GROUND LUG TO EARTH GROUND.
- DR OVERLOAD RELAY, SIZ, IS FACTORY SET FOR MANUAL RESET. CUSTOMER TO SIST SIZ TRIP SETTING FOR THE AC MOTOR'S FULL LOAD AMPS.
- IN SIZE THE SETTING FOR THE AC MOTOR'S FOLL COMPANES. INALS SUPPLIED FOR INSERTION OF NORMALLY CLOSED CUSTOMER SAFETY ACTS LE. FIRESTAT, FREEZESTIT, WINDING OR BEARING TEMPERATURE ACTIVATED THES. IF APPLICABLE, REMOVE THE FACTORY INSTALLED JUMPER J1.
- Unds. IN AFFLUEDED DRINKERKING OF CUSTOMER SUPPLED DAMPER LECTRIC TERMINALS SUPPLED DRINKERKING OF CUSTOMER SUPPLED DAMPER ELECTRIC FREUMARIC VALVE (SOLEVOLD), WITH A MAXIMAR POWER RAINS OF 100VA SEALED DAMPER F APPLICAEL, CHANGE DRIVE PARAMETER NOA 10 1. TERMINALS SUPPLED FOR INSETHION OF CUSTOMER SUPPLED, NORMALLY OFEN TERMINALS SUPPLED FOR INSETHION OF CUSTOMER SUPPLED, NORMALLY OFEN DAMPER F APPLICAEL, CHANGE DRIVE PARAMETER NOA 10 1. TERMINALS SUPPLED FOR INSETHION OF CUSTOMER SUPPLED, NORMALLY OFEN DAMPER F APPLICAEL, CHANGE DRIVE PARAMETER NOA 10 1. TERMINALS DRIVEN THE FACTORY INSTANCE OFFICIAL DAMPER ALL'A CONTRAINT DAMPER DE TERMINAL THE FACTORY INSTANCE ONNERTIAL DAMPER ALL'A CONTRAINT OF DETERMINALS DRIVENCIMENT
- IN APPLICABLE, REMOVE THE PACING THIS FACLED 2 OWNERS 22. ALTED TWISTED SHIELDED WIRE SEQUINALS 2 CONDUCTOR #18GA, (BELDON #8760, EQUINALENT), SHIELD TO CONNECT TO PROPER TERMINAL AS SHOWN, CONNECT THE LD ONLY AT THIS END, STUB AND ISOLATE THE OTHER END, DO NOT RUN THESE S IN THE SAME CONJUT AS THE AC POWER AND AC CONTROL WRES.
- S IN THE SAME LOWIGULT AS THE AC FORMER AND AC LIGHTAID WITES. E PRAMATERE TAOTO IS PROVIDED TO PREVENT THE DRIVE FROM TARATING INTO TINNING MOTOR FOLLOWING A TRANSITION FROM THE BYPASS MODE TO THE DRIVE E OF OPERATION CUSTOMER TO FELD ADJUST TATOTO FOR THE DECERPATION TO TIME (IN SECONDS) OF THE AC MOTOR FROM MAXIMUM SPEED, WHEN SWITCHING IN THE BYPASS TO THE DRIVE MODE OF OPERATION.
- PRESSURE TRANSDUCER (OPTION P) IS PRESENT (SEE OPTION TABLE 2), CONNECT PNEUMATIC SIGNAL AS SHOWN ON PAGE 1.
- "2 WIRE" OR "3 WIRE" INITIALIZATION IS PERFORMED ON THE DRIVE, THEN THE ORIVE METERS NEED TO BE RE-ENTERED, AS SHOWN IN THE SPECIAL PARAMETER SETTINGS S 4 AND 5.
- IN/STOP IS TO BE PERFORMED VIA THE DRIVE KEYPAD, THEN THE CUSTOMER SAFETY LOCK, THE DAMPER CONTROL AND THE DAMPER END SWITCH WILL NO LONGER FUNCTION, ACT THE FACTORY, IF THESE FUNCTIONS ARE REQUIRED.
- ALCOMMUNICATIONS RULYSTOP CONTROL CUSTOMER MUST ADD A JUMPER J4 BETWEEN POINTS 3 AND 4 ON THE PANEL MOUNTED DINAL BLOCK TBJ, AND THE HAND/STOP/AUTO SWITCH, 52 AUTS EE IN THE "AUTO" POSITION, RNAL COMMUNICATIONS IS TO BE USED TO CONTROL THE RUN/STOP OF THE DRIVE.
- UPIC DWINNING WITCH OPERATION: FUNCTION OF THE HAND/STOP/AUTO SWITCH IS TO SELECT SPEED AND RUM/STOP CONTROL. AUTO POSITION SELECTS THE AUTO SCHAL INVELT FOR SPEED AND A DUSTMER SUPPLED INCT FOR A RNN OWNERS THE HAND FOSTION SELECTS THE DRIE CHEFAD FOR B MAD A RNN COMMAND CONTROL FOR THE EFRASO/PC/FORE SWITCH FOR FOR
- LD AND A NAME COMMENDED ANTHALE DE LE DE ADJUNT JOHNE SHINGLE TYLORIMAL SWITCH OPERATION FUNCTION OF THE TEST/MORMAL SWITCH IS TO TEST THE DRIVE WHILE IN EITHER THE OFF PRASS MODE, THE TEST/MORMAL SWITCH IS IN THE TEST POSITION WHILE OPERATING IN DRIVE MODE, THEN THE DRIVE MILL PAULT ON AN TEST, THIS FAULT MAY BE RESET OF SWITCHING TO EITHER TESTASS OF OFFT, AND THEM PRESSING RESET ON THE DRIVE
- AD. <u>J TRANSFER, OPTION I, OPERATION</u>; JUTO TRANSFER, OPTION I, OPERATION; MUTO TRANSFER, OPTION IS DESIGNED TO AUTOMATICALLY TRANSFER FROM THE DRIVE MODE BYPASS/OPT/DRIVE SWITCH IS IN THE 'DRIVE' POSITION. THIS TRANSFER MAY BE RESET OF THE NETHERAL DESIGNATION FROM TOTICE TO 'UFF', WATCH A FEW SECONDS THE NETHERAL DESIGNATIO GO BLAVM, AND THEN SWITCHING BACK TO 'DRIVE', ASSUMING THE CONDITION WHICH CAUSED THE DRIVE TO AVOID THE SWITCHING BACK TO 'DRIVE', ASSUMING THE CONDITION WHICH CAUSED THE DRIVE TO TRANSFER DRIVE DRIVE AND THE DRIVE TO AVOID THE SWITCHING BACK TO 'DRIVE', ASSUMING THE CONDITION WHICH CAUSED THE DRIVE TO AVOID THE SWITCHING BACK TO 'DRIVE', ASSUMING THE CONDITION THING' CAUSED THE DRIVE TO AVOID THE SWITCHING BACK TO 'DRIVE', ASSUMING THE CONDITION THING' CAUSED THE DRIVE TO AVOID THE SWITCHING BACK TO 'DRIVE', ASSUMING THE CONDITION THENCE CAUSED THE CAUSED AVOID THE CAUSED AVOID THE DRIVE TO AVOID THE SWITCHING BACK TO 'DRIVE', ASSUMING THE CONDITION THENCE CAUSED AVOID THE DRIVE', ASSUMING THE CONDITION THEORY CONDITION THEORY', ASSUMING THE CONDITION THEORY', ASSUMING THE CONDITION THEORY', ASSUMING THE CONDITION THEORY CONDITION THEORY', ASSUMING THE CONDITION THEORY', ASSUMING THEORY', ASSUMING THE CONDITION THEORY', ASSUMING THEORY', ASSUMING THEORY', ASSUMING THEORY', ASSUMING THE CONDITION THEORY', ASSUMING THE CONDITION THEORY', ASSUMING THEORY

FOR S1 CONTACT SEQUENCE CHART FOR 52 CONTACT SEQUENCE CHART FOR S3 LOSED - INDICATES CONTACT CLOSED - INDICATES CONTACT CLOSED MANUF. LICCATION POSITION MANUF. POSITION MANUF. LOCATION /TYPE CONTACT ONTACT TEST NORMAL 1R0 1R0 1R0 Х X 1L0 2 х 1L0 2 1LC < 2LO 3 X 3 2R0 × 2RC (3LO SCHEMATIC SHOWS THIS POSITION. 4 2LC х (4LO

OSITION.

5 3R0 х · SCHEMATIC SHOWS THIS POSITION.