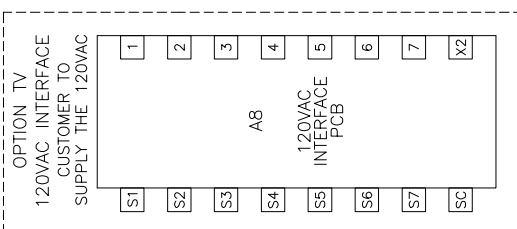


CONTROL TRANSFORMER PRIMARY CONNECTIONS AND STIRRING FAN FOR BASE NO'S A022, A028, B011-B021

INPUT VOLTS	TERMINALS		JUMPER LOCATION
	A	B	
230	(H1)	(H4)	(H1) TO (H3)
460	(H1)	(H4)	(H2) TO (H4)



* - INDICATES CUSTOMER WIRING.
 - - SEE SHEET 2 FOR NOTES AND TABLES.

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DRAWN BY: D.R. CMELAK	DATE: 8/11/06	TITLE: SCHEMATIC DIAGRAM
CHECKED: K. FLIERL	DATE: 8/11/06	V7 CONFIGURED
APPROVED: J. ZUEHLKE	DATE: 8/11/06	
ORIGINAL DESIGNER: D.R. CMELAK	DATE: 4/14/06	

REVISION: R02
 SIZE: D
 PAGE: 1 of 2

NOTES:

- CONNECTED TO THE CABINET. CUSTOMER TO CONNECT THE CABINET GROUND LUG TO EARTH GROUND.
- THE CUSTOMER MUST USE TYPE 12 RATED HUBS OR FITTINGS (OR EQUIVALENT) TO MAINTAIN THE ENCLOSURE RATING.
- IF THE CIRCUIT BREAKER (OPTION PC), DISCONNECT SWITCH (OPTION PD) OR FUSED DISCONNECT SWITCH (OPTION PY) ARE NOT ADDED, THEN THE DISCONNECT MEANS MUST BE SUPPLIED BY THE CUSTOMER.
- IF THE CIRCUIT BREAKER (OPTION PC), FUSED DISCONNECT SWITCH (OPTION PY) OR DRIVE INPUT FUSES (OPTION PF) ARE NOT ADDED, THEN BRANCH CIRCUIT PROTECTION (CIRCUIT BREAKER OR AC INPUT FUSES) MUST BE SUPPLIED BY THE CUSTOMER.
- INSULATED TWISTED SHIELDED WIRE IS REQUIRED. 2 CONDUCTOR #18GA (BELDEN NO. 8760, OR EQUIVALENT) OR 3 CONDUCTOR #18GA (BELDEN NO. 8770, OR EQUIVALENT). SHIELD TO CONNECT TO PROPER TERMINAL AS SHOWN. CONNECT AS THE AC POWER AND AC CONTROL WIRES.
- WITH NO CONTROL OR SERIAL COMMUNICATIONS OPTIONS ADDED, THE V7 DRIVE COMES SET UP FOR MOTOR RUN, STOP AND SPEED CONTROL FROM REMOTE OPERATORS.
- OPTIONS_ID, TG, TH OR TO CONTROL (SEE TABLE 2):
 OPTION TD = ETHERNET/IP
 OPTION TG = DEVICENET
 OPTION TH = PROFIBUS
 OPTION TO = ETHERNET (MODBUS TCP/IP)

TABLE 1 V7 CONFIGURED FACTORY SET DRIVE PARAMETERS

PARAMETER	DATA	UNIT	DESCRIPTION/REMARKS
n003	SEE TABLE 2	N/A	RUN COMMAND SELECTION
n004	SEE TABLE 2	N/A	FREQUENCY REFERENCE SELECTION
n009	1	N/A	FREQUENCY REFERENCE CONTROL WITH DRIVE KEYPAD "UP" AND "DOWN" ARROW KEYS
n024	10.0	HZ.	INITIAL FREQUENCY REFERENCE - SEE TABLE 2
n036	---	AMPS	MOTOR FULL LOAD AMPS (MUST BE SET BY USER)
n209	SEE TABLE 3	N/A	24VDC STIRRING FAN OPERATION

TABLE 2

OPTION PRESENT	PARAMETER		DRIVE CONTROL BOARD SWITCH SW2-2 SETTING	DRIVE SPEED REFERENCE			DRIVE RUN/STOP CONTROL	
	n003	n004		DRIVE KEYPAD (n024)	AT DRIVE VDC	TERMINAL 4-20 MADC	FR 0-20 MADC	DRIVE TERMINAL S1 OR S2
NONE +	1	2	OFF	YES			YES	
NONE	1	3	ON		YES		YES	
NONE	1	4	ON			YES	YES	
NONE	1	1	OFF				YES	
NONE	0	2	OFF	YES			YES	
NONE	0	3	ON		YES		YES	
NONE	0	4	ON			YES	YES	
NONE	0	1	OFF	YES			YES	
TD, TG, TH OR TO +	3	9	OFF				YES	YES
TD, TG, TH OR TO	3	1	OFF	YES			YES	YES
TD, TG, TH OR TO	3	2	OFF		YES		YES	YES
TD, TG, TH OR TO	3	3	ON		YES		YES	YES
TD, TG, TH OR TO	3	4	ON		YES	YES	YES	YES
TD, TG, TH OR TO	1	9	OFF				YES	
TD, TG, TH OR TO	0	9	OFF				YES	YES

+ = STANDARD V7 CONFIGURED SET UP ■ = FACTORY 2-WIRE INITIALIZATION DEFAULT SETTING

TABLE 3

V7 CONFIGURED FACTORY SET DRIVE PARAMETERS

V7 CONFIG. MODEL NO. BASE NUMBER V7C *XXXX	PARAMETER	VALUE
230V	n209	DATA
A006	DATA	0
A009	DATA	(SEE BELOW)

FOLLOW THESE STEPS TO CHANGE PARAMETER n209:

- CHANGE PARAMETER n001 TO 15.
- CHANGE PARAMETER n209 TO 0.
- CHANGE PARAMETER n001 TO 10 (2-WIRE USA RESET).

CUSTOMER WIRING REQUIREMENTS

- FOR 0 TO 100 AMPS, USE A MINIMUM OF 60-75C COPPER WIRE.
- FOR ABOVE 100 AMPS, USE A MINIMUM OF 75C COPPER WIRE.

A.C. LINE WIRING

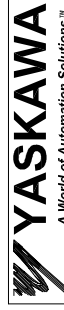
V7 CONFIG. MODEL NO. BASE NUMBER V7C *XXXX	WITH OPTION PR, TO INPUT REACTOR L1			WITH OPTION PC, TO CIRCUIT BREAKER CB1			WITH OPTION PD, TO NON-FUSED DISCONNECT SWITCH S1		
	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
230V	B1P1	22 - 14	4.5	FAL36015	14 - 4	35	BTGN30	14 - 10	35
A0P8	B1P6								
A1P6	B002								
A002	RL-00204								
A003	RL-00401								
A004	RL-00401								
A006	B003								
A009	RL-00801								
A015	RL-01202	22 - 5	16	FAL36020	20				
A022	RL-01801	22 - 5	16	FAL36030	30				
A028	RL-01802	22 - 5	16	FAL36040	40				
	RL-02501	22 - 5	16	FAL36045	45				
	RL-02502								
	RL-03501								

A.C. LINE WIRING

V7 CONFIG. MODEL NO. BASE NUMBER V7C *XXXX	WITH OPTION PY, TO FUSED DISCONNECT SWITCH S1			WITH OPTION PF, TO INPUT FUSES F3,F4,F5			WITHOUT OPTIONS PC, PD, PF, PR, AND/OR PY, AND WITH OPTION PN AND/OR CONTROL XFMR, TO TERMINAL BLOCK TB2		
	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
230V	BTGF32	14 - 10	35	J60030-3CR	14 - 10	35			
A0P8	B1P1								
A1P6	B1P6								
A002	B002								
A003	B003								
A004	B004								
A006	B007								
A009	B011								
A015	B014								
A022	B021	8 - 4	40	J60060-3CR	8 - 4	40			
A028	B021	8 - 4	40	J60060-3CR	6 - 4	45			

A.C. MOTOR WIRING

V7 CONFIG. MODEL NO. BASE NUMBER V7C *XXXX	WITH OPTION PH, TO LOAD REACTOR L4			OR, WITHOUT OPTION PH, TO STANDARD AC DRIVE			TO CABINET GROUND LUG			TO AC DRIVE		
	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)	MFG. PART NUMBER	WIRE SIZE RANGE (AWG)	TIGHTENING TORQUE (LB.-IN.)
230V	B1P1	22 - 14	4.5	RL-00104	22 - 14	4.5						
A0P8	B1P6			RL-00201								
A1P6	B002			RL-00204								
A002	B002	22 - 14	4.5	RL-00204	22 - 14	4.5						
A003	B002			RL-00201								
A004	B003			RL-00401								
A006	B004			RL-00402								
A009	B007			RL-00801								
A015	B011			RL-00803								
A022	B014			RL-00802								
A028	B021			RL-01201								
	B021			RL-01202								
	B021			RL-01801								
	B021			RL-01802								
	B021			RL-02501								
	B021			RL-02502								
	B021			RL-03501								



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