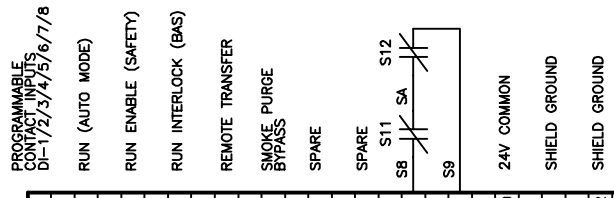
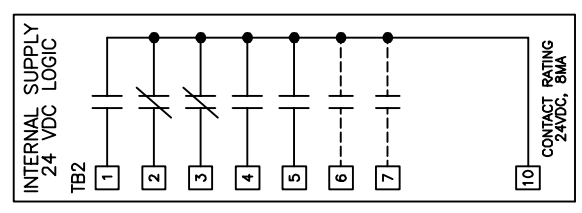


**CONTROL TRANSFORMER PRIMARY CONNECTIONS**

INPUT VOLTS	TERMINALS	JUMPER LOCATION
208	(H1) (H2)	NONE
460/480	(H1) (H4)	(H2) TO (H3)



**ELECTRONIC BYPASS CONTROL PCB**  
P/N UTC00046x  
A2

PROGRAMMABLE DELAY 7/8/9/10  
AS SELECTED BY ELECTRONIC BYPASS CONTROL PARAMETERS Z2-Z5 TO Z2-26

CONTACTS FOR CUSTOMER USE  
RATED: 2A, 24VDC/120VAC  
+/- 15% MAX.

RS485 SERIAL COMMUNICATION SELECTIONS AVAILABLE:  
1. MODBUS  
2. N2 / METASYS  
3. FLN / APOGEE  
4. BACKNET (FACTORY SETTING)

DIP SWITCH S1  
OFF ON  
SERIAL COMM. 120 OHM, 3 WATT TERMINATING RESISTOR

TO DRIVE BYPASS CONTROL PCB CONNECTOR TB4

TO OPTIONAL SERIAL COMMUNICATIONS NETWORK

TO DRIVE BYPASS CONTROL PCB CONNECTOR TB4

TO DRIVE BYPASS CONTROL PCB CONNECTOR TB4

TO DRIVE BYPASS CONTROL PCB CONNECTOR TB4

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TO DRIVE BYPASS CONTROL PCB CONNECTOR TB4

\* - INDICATES COMPONENTS NOT SUPPLIED BY YASKAWA.  
- - INDICATES CUSTOMER WIRING.  
// - CONNECTED TO THE CABINET OR PANEL.  
SEE SHEET 2 FOR NOTES.



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**REVISIONS**

REV.	ECO #	DESCRIPTION	DATE	DRAWN BY
00	-	INITIAL RELEASE	2/22/14	D. PACKER

**SCHEMATIC DIAGRAM P1000 ELECTRONIC BYPASS 2-MTR AND OPTION PA**

DATE	REVISION	SIZE	PAGE
2/22/14	00	D	1 of 2

HOA OPERATOR  
PART NUMBER  
JVOP-183

DATE: 2/22/14  
DRAWN BY: D. PACKER

DATE: 2/22/14  
DRAWN BY: D. PACKER

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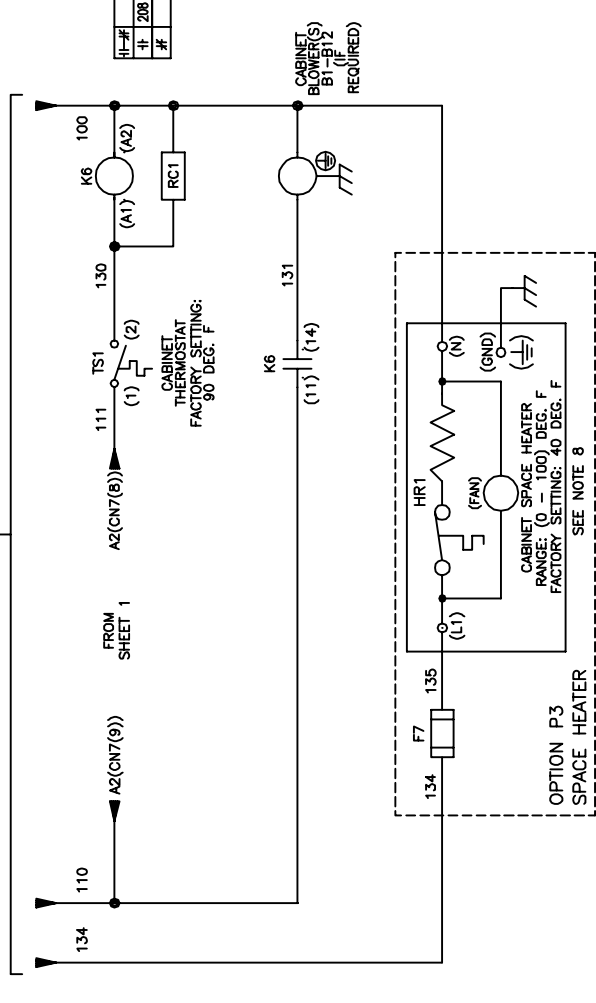
DATE: 2/22/14  
DRAWN BY: D. PACKER

DATE: 2/22/14  
DRAWN BY: D. PACKER

NOTES:

1. CUSTOMER TO CONNECT THE CABINET GROUND LUGS TO EARTH GROUND AND UTILITY GROUND.
2. CONDUIT FITTINGS/HUBS SHALL COMPLY WITH THE 'STANDARD FOR CONDUIT, TUBING, AND CABLE FITTINGS, UL 514B' OR CONDUIT FITTINGS HAVING THE SAME ENVIRONMENTAL RATING AS THE ENCLOSURE SHALL BE USED.
3. INSULATED TWISTED SHIELDED WIRE IS REQUIRED. SHIELD TO CONNECT TO PROPER TERMINAL AS SHOWN. CONNECT THE SHIELD ONLY AT THIS END. STUB AND ISOLATE THE OTHER END. DO NOT RUN THESE WIRES IN THE SAME CONDUIT AS THE AC POWER AND THE AC CONTROL WIRES.
4. WITH A CONTROL TRANSFORMER, T1, POWER RATING 350VA OR GREATER, SECONDARY FUSE F6 IS ADDED.
5. CHANGING Z1-01 TO "1" WILL PROGRAM THE DRIVE AND BYPASS PARAMETERS TO THEIR FACTORY DEFAULT SETTINGS.
6. FOR 208VAC APPLICATIONS, SET E1-01 TO 208, AND SET E1-05 TO 208.
7. THE MOTOR OVERLOAD RELAYS ARE FACTORY SET FOR MANUAL RESET. CUSTOMER TO ADJUST THE MOTOR OVERLOAD RELAYS TRIP SETTINGS FOR THE ACTUAL AC MOTOR'S FULL LOAD AMPS.
8. CUSTOMER TO ADJUST THE THERMOSTAT ON THE SPACE HEATER HR1 FOR THE MINIMUM DESIRED TEMPERATURE INSIDE THE DRIVE CABINET. THIS SET TEMPERATURE IS NORMALLY SELECTED TO BE SLIGHTLY HIGHER THAN THE MINIMUM AMBIENT TEMPERATURE OF THE AIR SURROUNDING THE CABINET. AND IS THE TEMPERATURE AT WHICH THE SPACE HEATER HR1 WILL SHUT OFF.

FROM SHEET 1



DRAWN BY	D. PACKER	DATE	2/22/14	TITLE	SCHEMATIC DIAGRAM
CHECKED	D.R. CMELAK	DATE	2/24/14	PROJECT	P1000 ELECTRONIC BYPASS
TECH		DATE		2-MTR	AND
APPROVED	K. FLIERL	DATE	2/24/14	OPTION	PA
DESIGNED BY	D. PACKER	DATE	2/22/14	SIZE	D
				REVISION	00
				PAGE	2 of 2
				DRAWING #	DS.P1B.3R.08

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