



101 FROM CUSTOMER'S A.C. LINES SEE NOTE 6
 102 1L1 (1) (2) (3) (4) (5) (6)
 103 CB1 STANDARD OR OPTION PM CIRCUIT BREAKER
 104 1L2 1L3
 105 1L1 1L2 1L3
 106 GND LUG SEE NOTE 1
 107 EARTH GROUND
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- NOTES:
- CUSTOMER TO CONNECT THE CABINET GROUND LUG TO EARTH GROUND.
 - INSULATED TWISTED SHIELDED WIRE IS REQUIRED. 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.
 - WITH A CONTROL TRANSFORMER, T1, POWER RATING 350VA OR GREATER, SECONDARY FUSE F6 IS ADDED.
 - CHANGING Z1-01 TO "1" WILL PROGRAM THE DRIVE AND BYPASS PARAMETERS TO THEIR FACTORY DEFAULT SETTINGS.
 - SET Z1-11 TO 4 AND Z2-06 TO 27.
 - FOR 208VAC APPLICATIONS, SET E1-01 TO 208 AND SET E1-05 TO 208.
 - THE MOTOR OVERLOAD RELAY IS FACTORY SET FOR MANUAL RESET. CUSTOMER TO ADJUST THE MOTOR OVERLOAD RELAY TRIP SETTING FOR THE ACTUAL AC MOTOR'S FULL LOAD AMPS.
 - 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.

* - INDICATES COMPONENTS NOT SUPPLIED BY YASKAWA.
 --- - INDICATES CUSTOMER WIRING.
 // - CONNECTED TO THE CABINET OR PANEL.

REVISIONS

REV.	DESCRIPTION	ECO #	DRAWN BY	DATE
00	INITIAL RELEASE	-	-	-

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DATE	BY	DESCRIPTION
11/12/13	D. CMELAK	SCHEMATIC DIAGRAM
11/12/13	D. PACKER	P1000 ELECTRONIC BYPASS OPTION PY
11/12/13	K. FLIERL	REVISED
11/12/13	D. CMELAK	REVISED

00 1 of 1

CONTROL TRANSFORMER PRIMARY CONNECTIONS

TERMINALS	JUMPER LOCATION
A (H1)	(H2)
B (H1)	(H4)
(H2)	(H3)

RS485 SERIAL COMMUNICATION SELECTIONS AVAILABLE:

- MODEBUS
- N2 / METASYS
- FLN / APOGEE
- BACNET (FACTORY SETTING)

PROGRAMMABLE RELAYS DO-7/8/9/10

AS SELECTED BY ELECTRONIC BYPASS PARAMETER Z2-23 TO Z2-26

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

CUSTOMER MUST PROVIDE PROPER SHORT CIRCUIT PROTECTION OF DISCONNECT.

RJ45 PATCH CABLE

DIP SWITCH S1 SERIAL COMM. 120 OHM, 1 WATT TERMINATING RESISTOR

TO OPTIONAL SERIAL COMMUNICATIONS NETWORK

TO DRIVE CONTROL PCB CONNECTOR

TO ELECTRONIC CONTROL PCB CONNECTOR CN6

CON1 PS1 POWER SUPPLY P/N UPS000174

CON2 +V 1 +V 2 +V 3 -V 4

AG SERIAL COMMUNICATIONS OPTION PCB'S TD, TG, TH, TL OR TQ

CN6 DTXRX+ DTXRX- IGS

TB7 CT2-1 CT2-2 CT1 IN+ CT1 IN-

TB5 WHT BLK WHT BLK

ELECTRONIC BYPASS CONTROL PCB P/N UTC00046x A2

PROGRAMMABLE CONTACT INPUTS DI-1 TO DI-8

RUN (AUTO MODE)
 RUN ENABLE (SAFETY)
 RUN INTERLOCK (BAS)
 REMOTE TRANSFER
 SMOKE PURGE BYPASS
 SPARE
 MOTOR #1/MOTOR #2 SELECT CONTACT (CLOSED=MOTOR #2)

DO-1 DO-2 DO-3 DO-4 DO-5 DO-6 DO-7 DO-8 DO-9 DO-10

IG5 TXRX+ TXRX- SHIELD

CON1 CON2

AG CN5

CN6

TB7

TB5

CON1 CON2

AG CN5

CN6

TB7

TB5