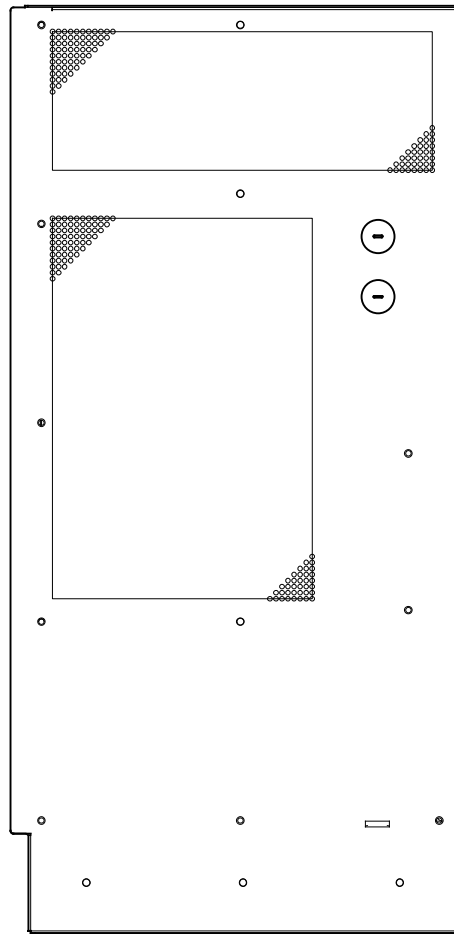
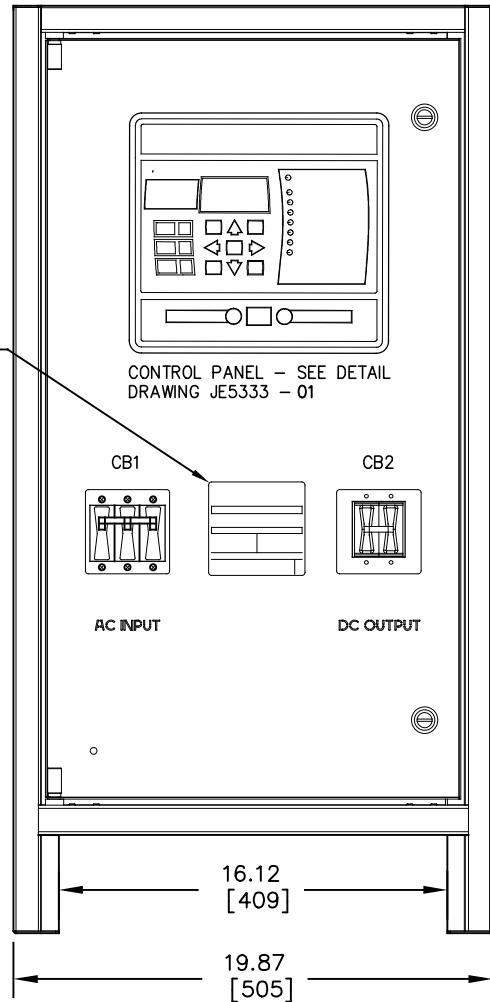


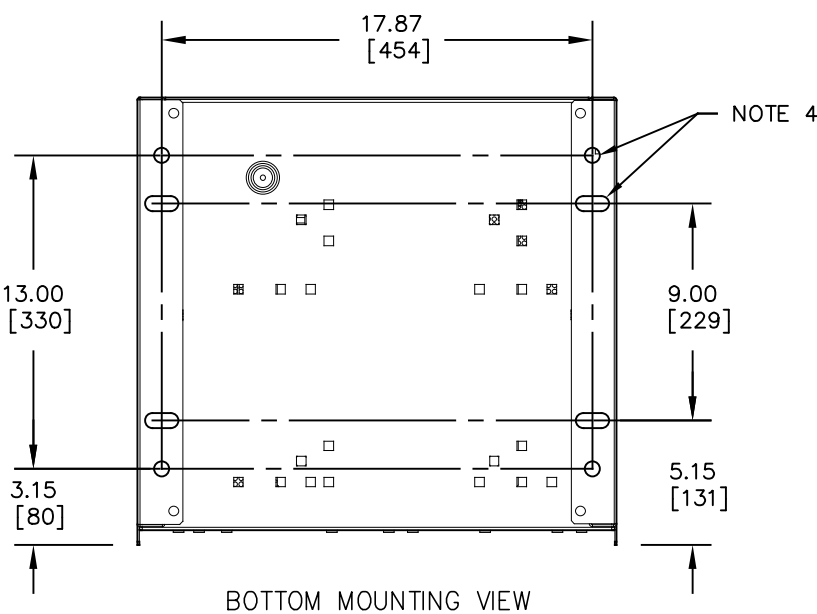
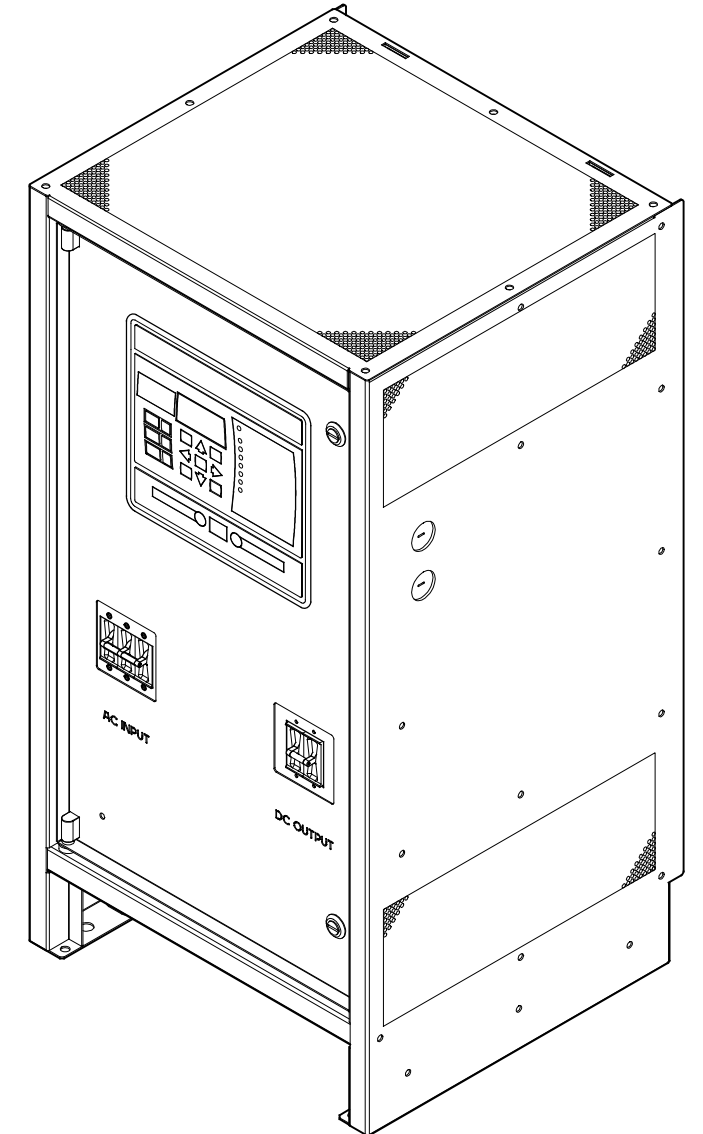
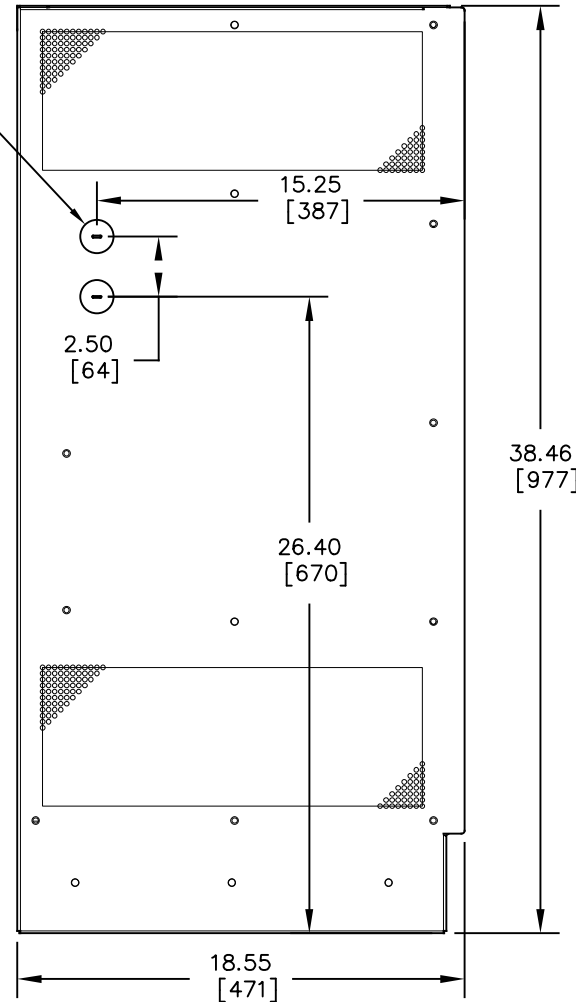
LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW



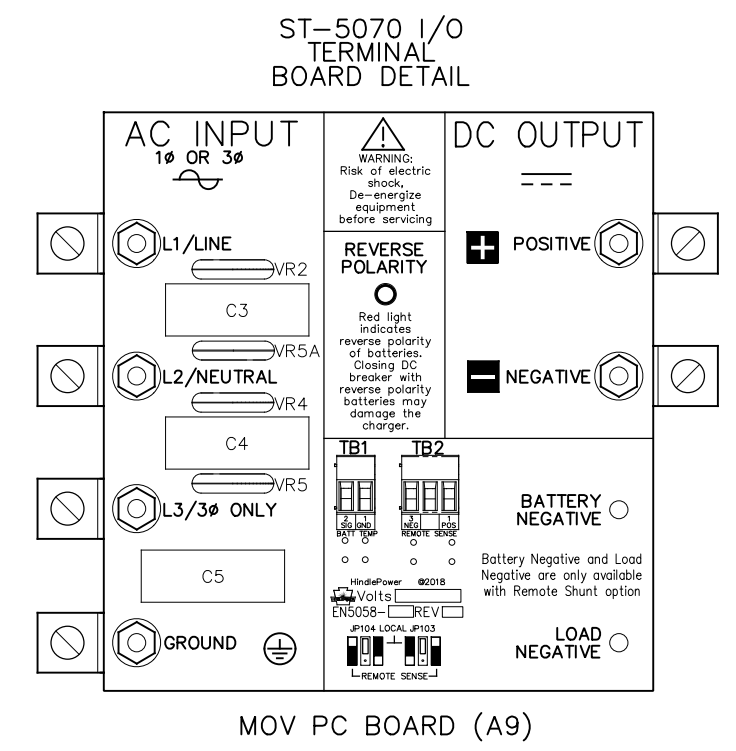
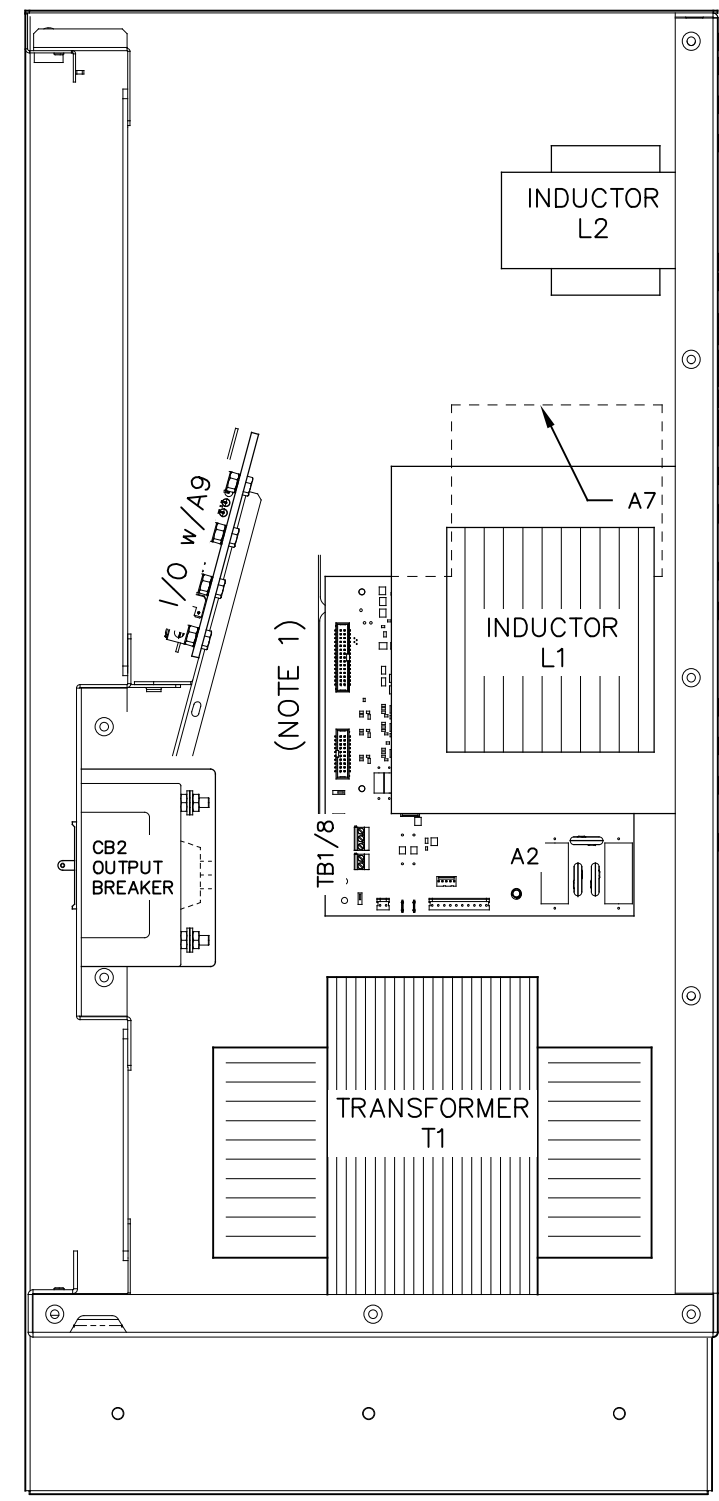
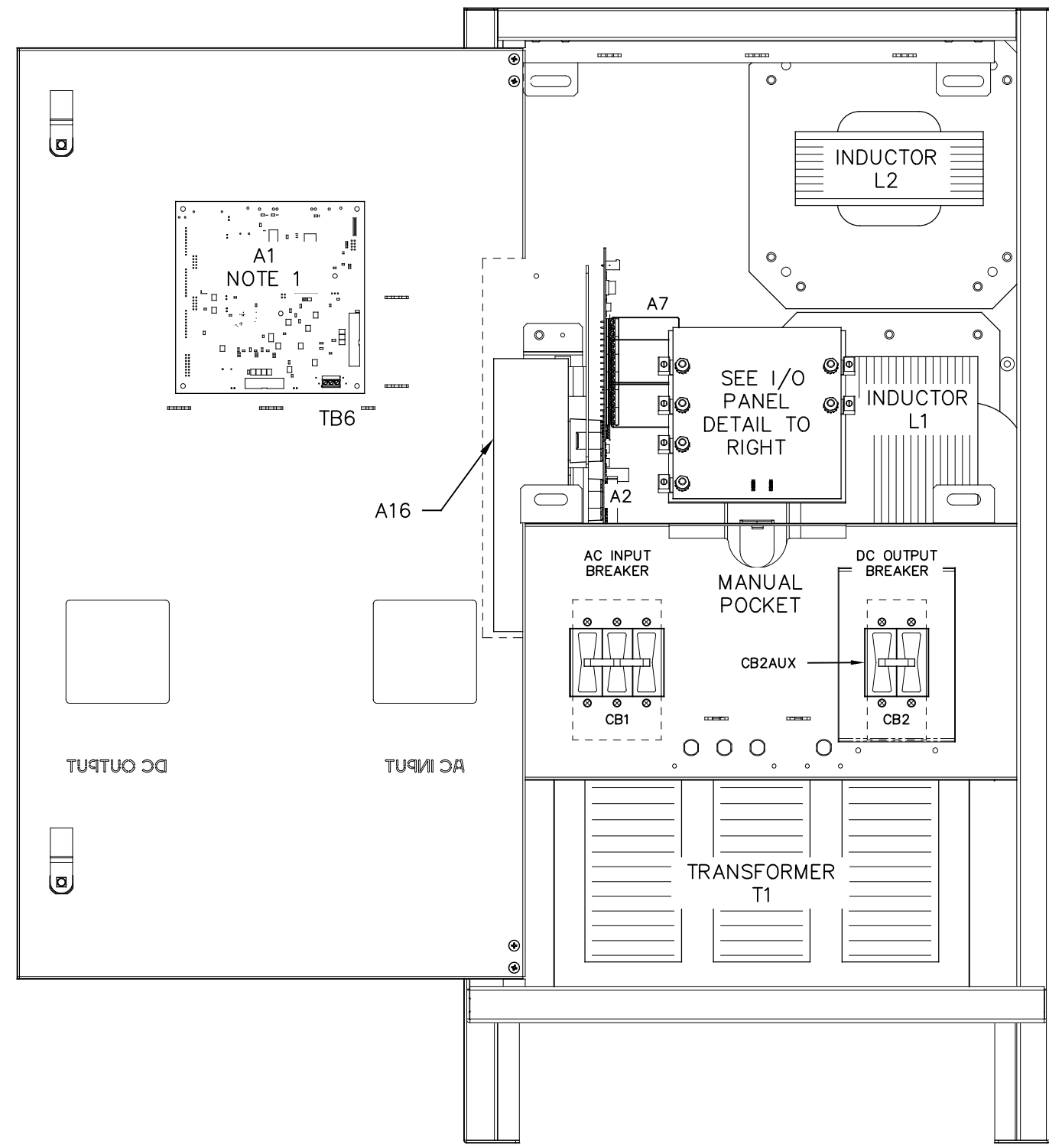
NOTES:

- ENCLOSURE IS A NEMA TYPE 1 / IP20 TOP-VENTED STEEL CABINET WITHOUT GASKETS. FINISH IS ANSI-61 GRAY EPOXY POWDERCOAT. MOUNTING BASE IS 12 GA. SIDE PANELS ARE 14 GA. TOP PANEL AND DOOR ARE 16 GA.
- ALLOW 6in / 152mm OF FREE AIR ON ALL VENTED SURFACES (TOP, SIDES & REAR) FOR COOLING.
- DATA NAMEPLATE (WITH CHARGER RATINGS) MOUNTED ON DOOR.
- FOUR (4) 0.5in / 12mm FLOOR-MOUNTING HOLES AND FOUR (4) 1in x 0.625in / 25mm x 16mm FLOOR-MOUNTING SLOTS ARE PROVIDED ON BOTTOM OF ENCLOSURE AS SHOWN.
- FOUR (4) 1.31in / 33mm DIA STANDARD PRE-FAB KEY-SLOT KNOCKOUTS ARE PROVIDED AS SHOWN FOR 1in / 25mm CONDUIT ENTRY. IF ADDITIONAL CONDUIT ENTRANCES ARE REQUIRED, ENCLOSURE SHOULD BE FIELD-MODIFIED BY INSTALLER.
- BATTERY CHARGER SHIPPING WEIGHT: APPROXIMATELY TBD lbs / TBD kg

DUAL DIMENSIONS in [mm]

REV. 0	DRN BY KMW	CHK BY MCR	APP BY MCR	DATE DATE/0000	DRN BY KMW	DATE DATE/0000	<p><b>HINDLEPOWER</b></p> <p>1075 Saint John Street Easton, PA 18042-6661 PH 610-330-9000 FAX 610-330-8510 www.hindlepowerinc.com</p>
DESCRIPTION APPROVAL DRAWINGS.					CHK BY MCR	DATE DATE/0000	
ECN No. N/A					APP BY MCR	DATE DATE/0000	
					<p>TITLE</p> <p><b>ATEVO BATTERY CHARGER</b></p> <p><b>OUTLINE: NEMA-1 STYLE-5070 ENCL</b></p> <p><b>3Ø W/O OPTIONS 16-100A</b></p>		<p>SCALE DWG No</p> <p><b>B</b> NTS JE5331-01</p>
							<p>REV 0</p> <p>SHEET 1 OF 1</p>

SYM STANDARD COMPONENT DESCRIPTION	
A1	MAIN CONTROL PC BOARD
A2	POWER BOARD
A16	RECTIFIER H/S ASSEMBLY
A7	FILTER BOARD (C1x/R9)
A9	MOV PC BOARD
CB1	AC INPUT CIRCUIT BREAKER (CD3)
CB2	DC OUTPUT CIRCUIT BREAKER (CD2)
CB2AUX	DC CKT BKR (CB2) AUXILIARY CONTACTS
L1	MAIN INDUCTOR
L2	FILTER INDUCTOR
T1	POWER TRANSFORMER



I/O TERMINAL	DESCRIPTION - TYPE	CONNECTION
I/O (+/-)	POS/NEG OUTPUT TERMINALS - CU-ALUMINUM COMPRESSION LUG	#14-1/0 AWG
GND LUG	USER GROUND TERMINAL - CU-ALUMINUM COMPRESSION LUG	#14-1/0 AWG
I/O (L1/L2)	AC INPUT TERMINALS - CU-ALUMINUM COMPRESSION LUG	#14-1/0 AWG
(A1) TB6	SUMMARY ALARM TERMINAL BLOCK (A1) - SOLDERLESS COMPRESSION SCREW	#22-14 AWG
(A2) TB1	POS/NEG REMOTE SENSE TERMS (A2) - SOLDERLESS COMPRESSION SCREW	#22-14 AWG
(A2) TB8	TEMPCO PROBE (A10) TERM BLK - SOLDERLESS COMPRESSION SCREW	#22-14 AWG

NOTES:  
 1. FOR DETAIL VIEWS OF ALL PC BOARDS (A1, A2, etc.) SEE DRAWING JE5333 - 01.

REV. 0	DRN BY KMW	CHK BY MCR	APP BY MCR	DATE DATE/0000	DRN BY KMW	DATE DATE/0000
DESCRIPTION APPROVAL DRAWINGS.				CHK BY MCR	DATE DATE/0000	
ECN No. N/A				APP BY MCR	DATE DATE/0000	

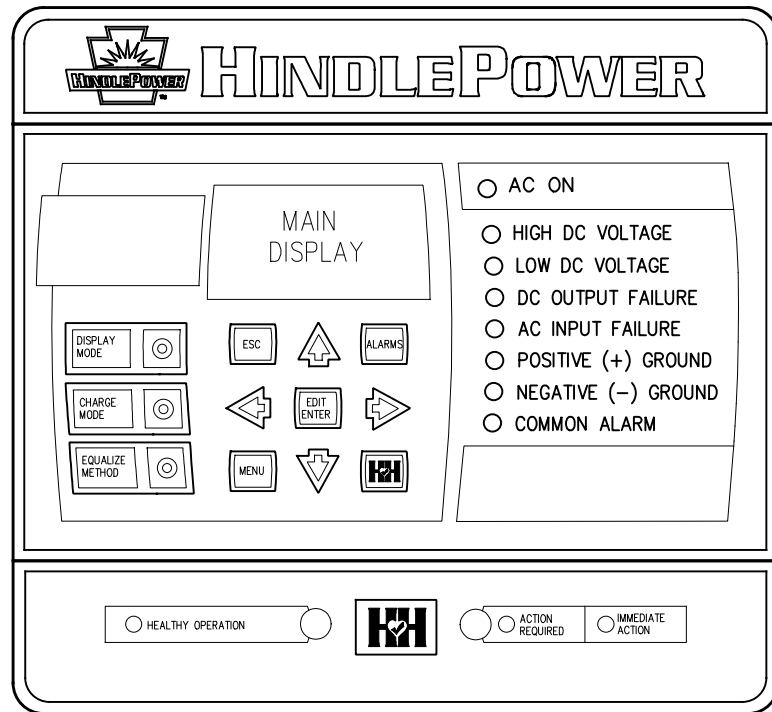
1075 Saint John Street  
 Easton, PA 18042-6661  
 PH 610-330-9000 FAX 610-330-8510  
 www.hindlepowerinc.com

**HINDLEPOWER**

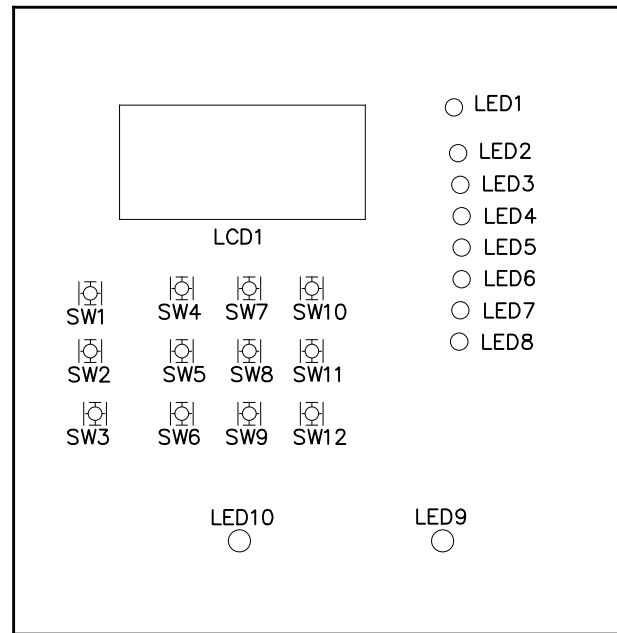
TITLE  
**ATEVO BATTERY CHARGER  
 INTERNAL COMPONENT LAYOUT: STYLE-5070  
 3Ø W/O OPTIONS 16-100A**

**B** SCALE DWG No  
 NTS JE5332-01

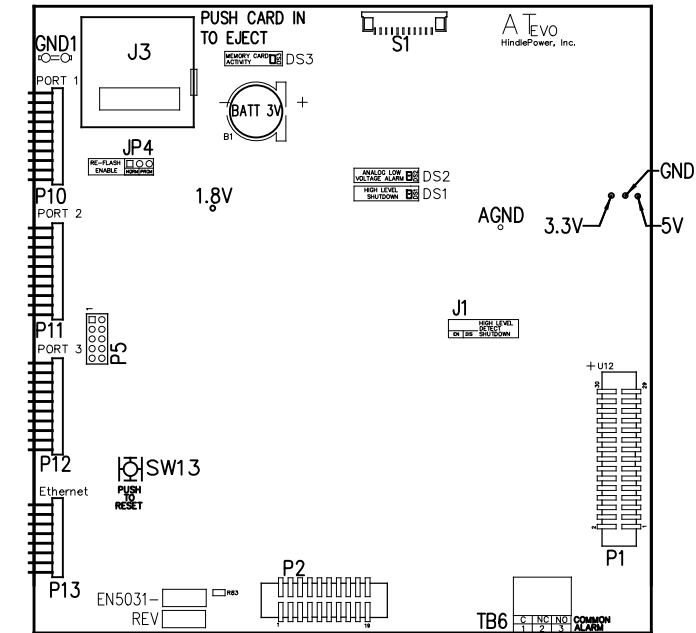
REV 0 SHEET 1 OF 1



**CONTROL PANEL**  
(PART No. FK5047-00)



**MAIN CONTROL PC BOARD (A1)**  
FRONT VIEW – FACING CHARGER DOOR WHEN INSTALLED



**MAIN CONTROL PC BOARD (A1)**  
BACK VIEW – FACING CHARGER COMPONENTS WHEN INSTALLED

NOTE: ALL ALARM CONTACTS ARE ENERGIZED WHEN IN THE NON-ALARM STATE (FAIL SAFE). ALL ALARM CONTACTS WILL CHANGE STATE WHEN CHARGER IS POWERED DOWN. CONTACT RATING IS 0.5A @ 125VAC/VDC RESISTIVE.

**MAIN CONTROL PC BOARD (A1)**

**INDICATOR LIGHTS (LEDs):**

- LED1 – GREEN – AC ON
- LED2 – RED – HIGH DC VOLTAGE ALARM
- LED3 – RED – LOW DC VOLTAGE ALARM
- LED4 – RED – DC OUTPUT FAILURE ALARM
- LED5 – RED – AC INPUT FAILURE ALARM
- LED6 – RED – POSITIVE (+) GROUND ALARM
- LED7 – RED – NEGATIVE (-) GROUND ALARM
- LED8 – RED – COMMON ALARM
- LED9 – RED – ACTION REQUIRED ALARM
- LED10 – GREEN – HEALTHY OPERATION
- DS1 – RED – HIGH LEVEL SHUTDOWN (HLD)
- DS2 – RED – ANALOG LOW VOLTAGE ALARM (LLD)
- DS3 – RED – MEMORY CARD ACTIVITY

**JUMPERS:**

- J1 – ANALOG HIGH VOLTAGE SHUTDOWN JUMPER
- J3 – SD CARD PORT
- JP4 – RE-FLASH (FIELD PROGRAMMING) JUMPER
- TERMINAL BLOCKS:
- TB6 – COMMON ALARM RELAY CONTACTS
- TEST POINTS:
- 1.8V – 1.8 VOLTS
- 3.3V – 3.3 VOLTS
- 5V – 5.0 VOLTS
- GND – GROUND
- AGND – ANALOG GROUND
- SDA – MAIN BOARD I2C DATA
- SCL – MAIN BOARD I2C CLOCK

**SWITCHES:**

- S1 – DISPLAY BUTTON
- S2 – CHARGE MODE BUTTON
- S3 – EQUALIZE METHOD BUTTON
- S4 – ESCAPE (ESC) BUTTON
- S5 – LEFT ARROW BUTTON
- S6 – MENU BUTTON
- S7 – UP ARROW BUTTON
- S8 – EDIT / ENTER BUTTON
- S9 – DOWN ARROW BUTTON
- S10 – ALARM BUTTON
- S11 – RIGHT ARROW BUTTON
- S12 – HINDLE HEALTH (HHS) BUTTON
- SW13 – SYSTEM RESET BUTTON (BACK OF BOARD)

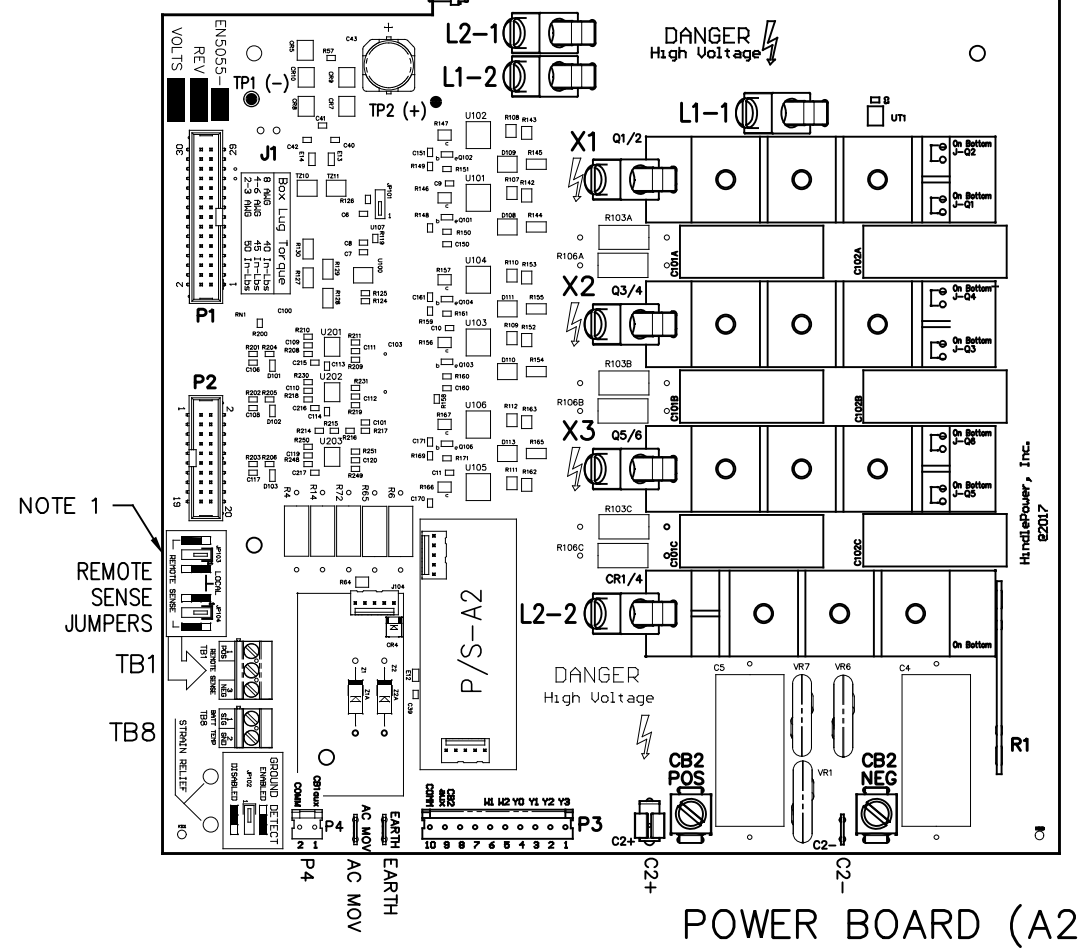
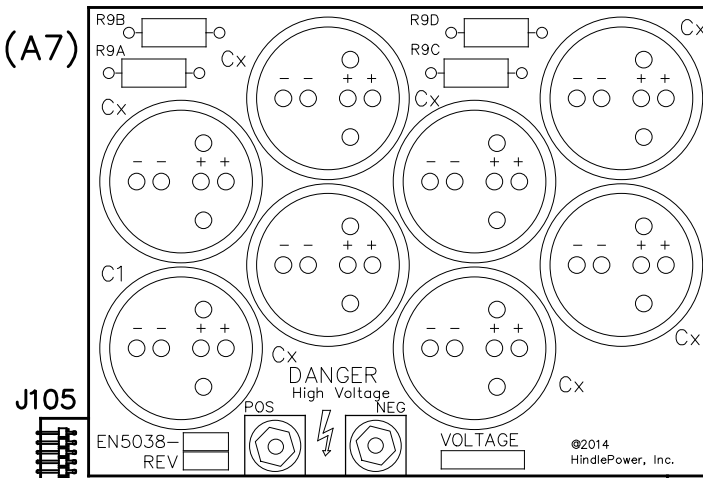
**CONNECTORS:**

- P1 – POWER BOARD RIBBON
- P2 – 3 PHASE RECTIFIER RIBBON
- P3 – USB EXPANSION PORT
- P4 – SPI & I2C EXPANSION PORT #1
- P5 – SPI & I2C EXPANSION PORT #2
- P6 – DISPLAY SPI PORT
- P7 – DISPLAY JTAG PORTS
- P10 – SERIAL INTERFACE PORT #1
- P11 – SERIAL INTERFACE PORT #2
- P12 – SERIAL INTERFACE PORT #3
- P13 – ETHERNET INTERFACE PORT
- P17 – GENERAL EXPANSION PORT

I/O TERMINAL	DESCRIPTION – TYPE	CONNECTION
(A1) TB6	SUMMARY ALARM TERMINAL BLOCK (A1) – SOLDERLESS COMP SCREW	#22-14 AWG

REV. 0	DRN BY KMW	CHK BY MCR	APP BY MCR	DATE DATE/0000	DRN BY KMW	DATE DATE/0000	<p>1075 Saint John Street Easton, PA 18042-6661 PH 610-330-9000 FAX 610-330-8510 www.hindlepowerinc.com</p>
DESCRIPTION APPROVAL DRAWINGS.					CHK BY MCR	DATE DATE/0000	
ECN No. N/A					APP BY MCR	DATE DATE/0000	
<p><b>TITLE</b> ATEVO BATTERY CHARGER CONTROL PANEL / PC BOARD DETAIL 3Ø W/O OPTIONS 16-100A</p>							<p>SCALE DWG No B NTS JE5333-01</p>
<p>REV 0 SHEET 1 OF 2</p>							

FILTER BOARD (A7)



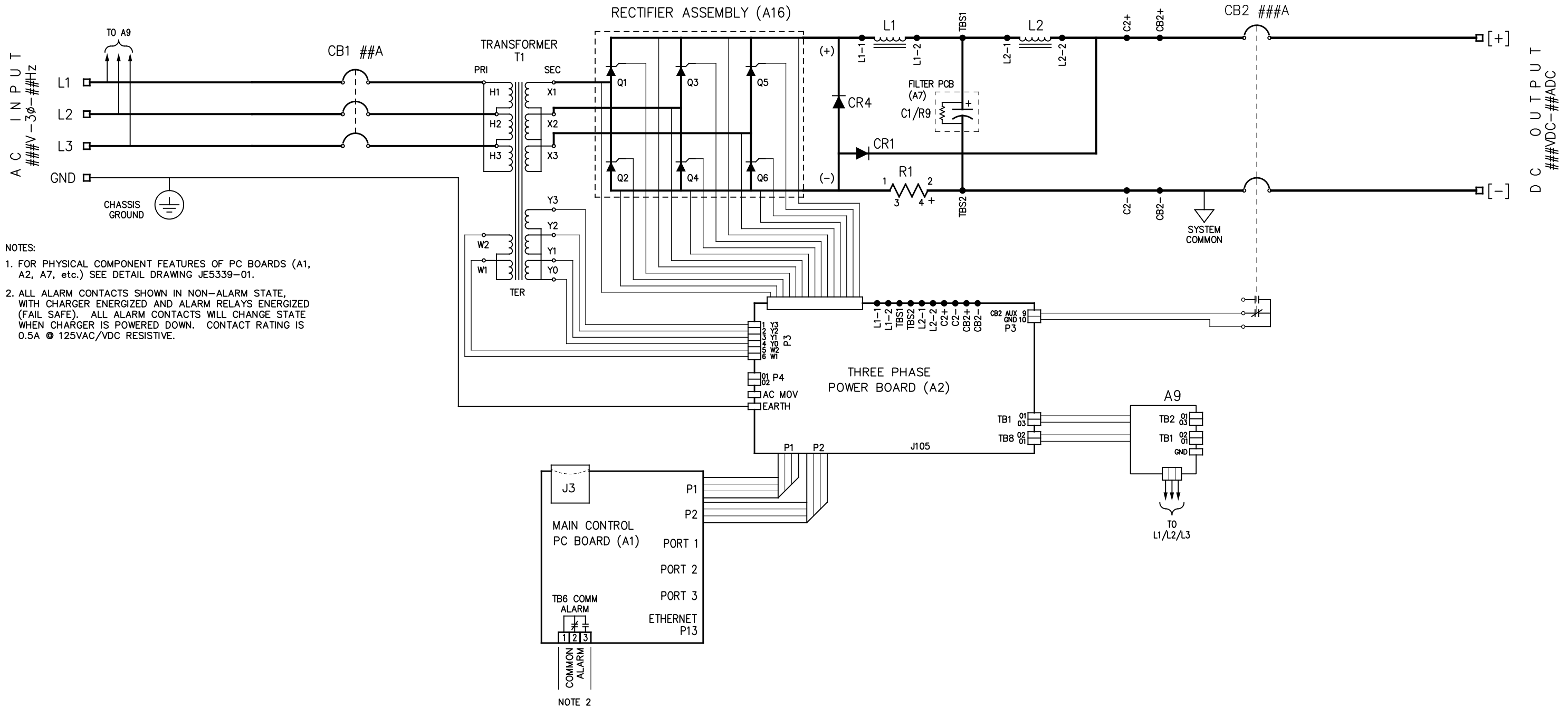
- TB1 - REMOTE VOLTAGE SENSE  
 TB8 - BATTERY TEMPERATURE COMPENSATION
- JP102 - GROUND DETECT CIRCUIT ENABLE / DISABLE  
 JP103 - REMOTE OR LOCAL SENSE SELECTOR (+)  
 JP104 - REMOTE OR LOCAL SENSE SELECTOR (-)
- J1 - POWER OUT  
 J101 - DC POWER SUPPLY  
 J102 - DC POWER SUPPLY  
 J105 - AUXILIARY I/O BOARD  
 P1 - MAIN CONTROL BOARD RIBBON  
 P2 - MAIN CONTROL BOARD RIBBON (3 PHASE)  
 P3 - TRANSFORMER AND CB2 AUX RIBBON  
 P4 - CB2 AUX SWITCH CONTACTS
- DISCRETE TERMINALS:
- AC MOV - CHASSIS EARTH GROUND  
 EARTH - CHASSIS EARTH GROUND (DOOR)  
 CB2 POS - DCBREAKER POSITIVE  
 CB2 NEG - DC BREAKER NEGATIVE  
 C2+ - ELIMINATOR FILTER CAPACITOR (+)  
 C2 - ELIMINATOR FILTER CAPACITOR (-)  
 L1-1 - FILTER INDUCTOR #1 (TERMINAL #1)  
 L1-2 - FILTER INDUCTOR #1 (TERMINAL #2)  
 L2-1 - FILTER INDUCTOR #2 (TERMINAL #1)  
 L2-2 - FILTER INDUCTOR #2 (TERMINAL #2)  
 TBS1 - FILTER CAPACITOR BOARD (+)  
 TBS2 - FILTER CAPACITOR BOARD (-)
- TEST POINTS ON POWER BOARD (A2):  
 TP1 - PRE-FILTERED DC BUS (-)  
 TP2 - PRE-FILTERED DC BUS (+)

NOTE 1  
 REMOTE SENSE JUMPERS  
 TB1  
 TB8

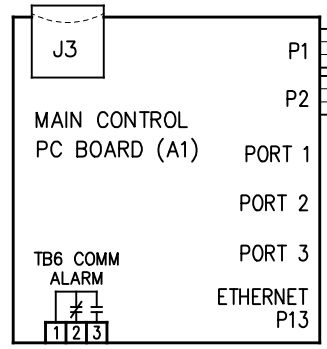
NOTE:  
 1. REMOTE SENSE JUMPERS (JP103, JP104) MUST BE IN REMOTE SENSE POSITION IN STYLE-5070 ENCLOSURE.

I/O TERMINAL	DESCRIPTION - TYPE	CONNECTION
(A2) TB1	POS/NEG REMOTE SENSE TERMS (A2) - SOLDERLESS COMPRESSION SCREW	#22-14 AWG
(A2) TB8	TEMPCO PROBE (A10) TERM BLK - SOLDERLESS COMPRESSION SCREW	#22-14 AWG

REV. DRN BY 0 KMW	CHK BY MCR	APP BY MCR	DATE DATE/0000	DRN BY KMW	DATE DATE/0000	<p>1075 Saint John Street                  Easton, PA 18042-6661                  PH 610-330-9000 FAX 610-330-8510                  www.hindlepowerinc.com</p>
DESCRIPTION APPROVAL DRAWINGS.				CHK BY MCR	DATE DATE/0000	
ECN No. N/A				APP BY MCR	DATE DATE/0000	
				TITLE ATEVO BATTERY CHARGER CONTROL PANEL / PC BOARD DETAIL 3Ø W/O OPTIONS 16-100A		
				SCALE DWG No NTS JE5333-01		REV SHEET 0 2 OF 2

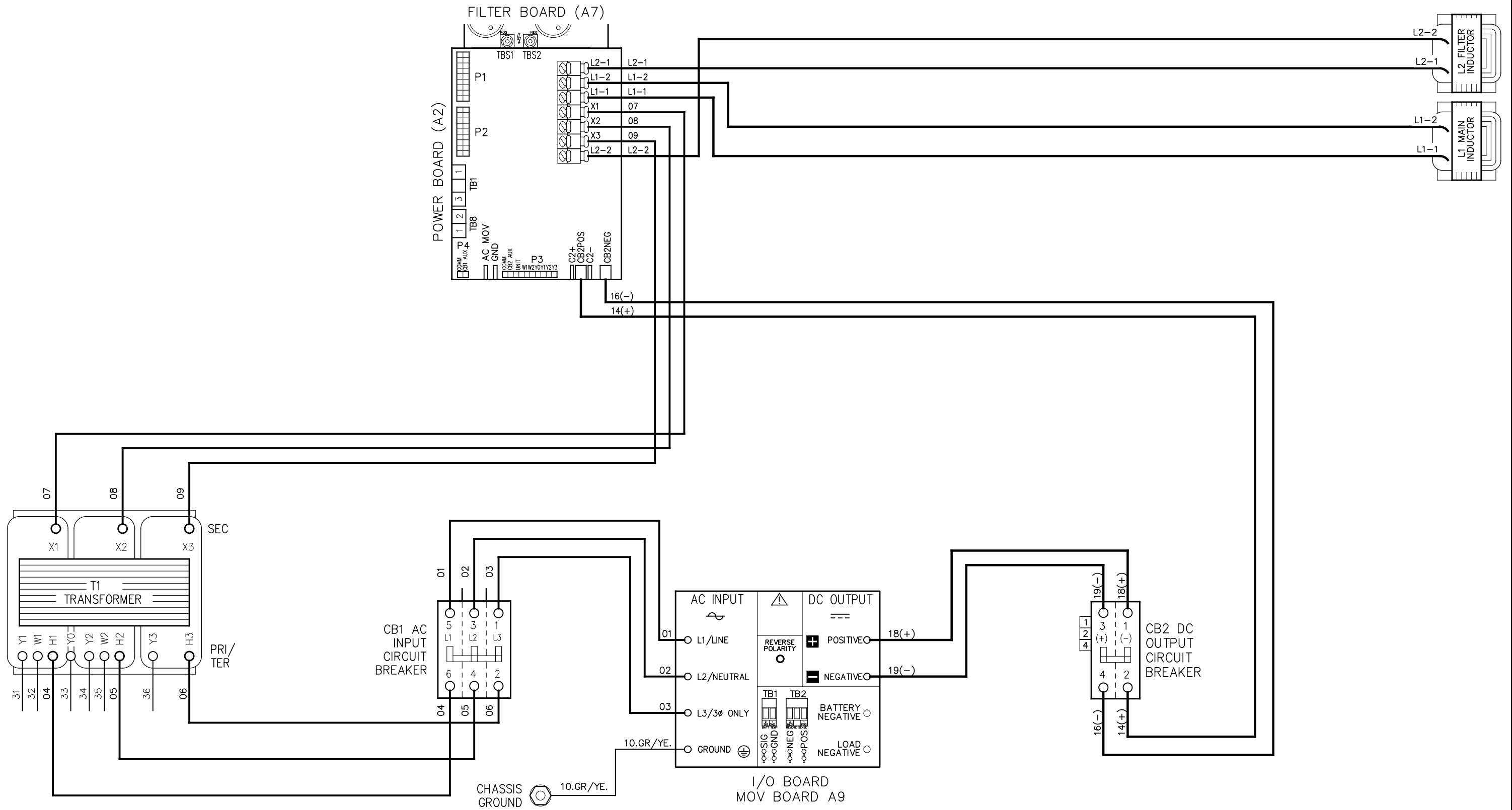


- NOTES:
1. FOR PHYSICAL COMPONENT FEATURES OF PC BOARDS (A1, A2, A7, etc.) SEE DETAIL DRAWING JE5339-01.
  2. ALL ALARM CONTACTS SHOWN IN NON-ALARM STATE, WITH CHARGER ENERGIZED AND ALARM RELAYS ENERGIZED (FAIL SAFE). ALL ALARM CONTACTS WILL CHANGE STATE WHEN CHARGER IS POWERED DOWN. CONTACT RATING IS 0.5A @ 125VAC/VDC RESISTIVE.



NOTE 2

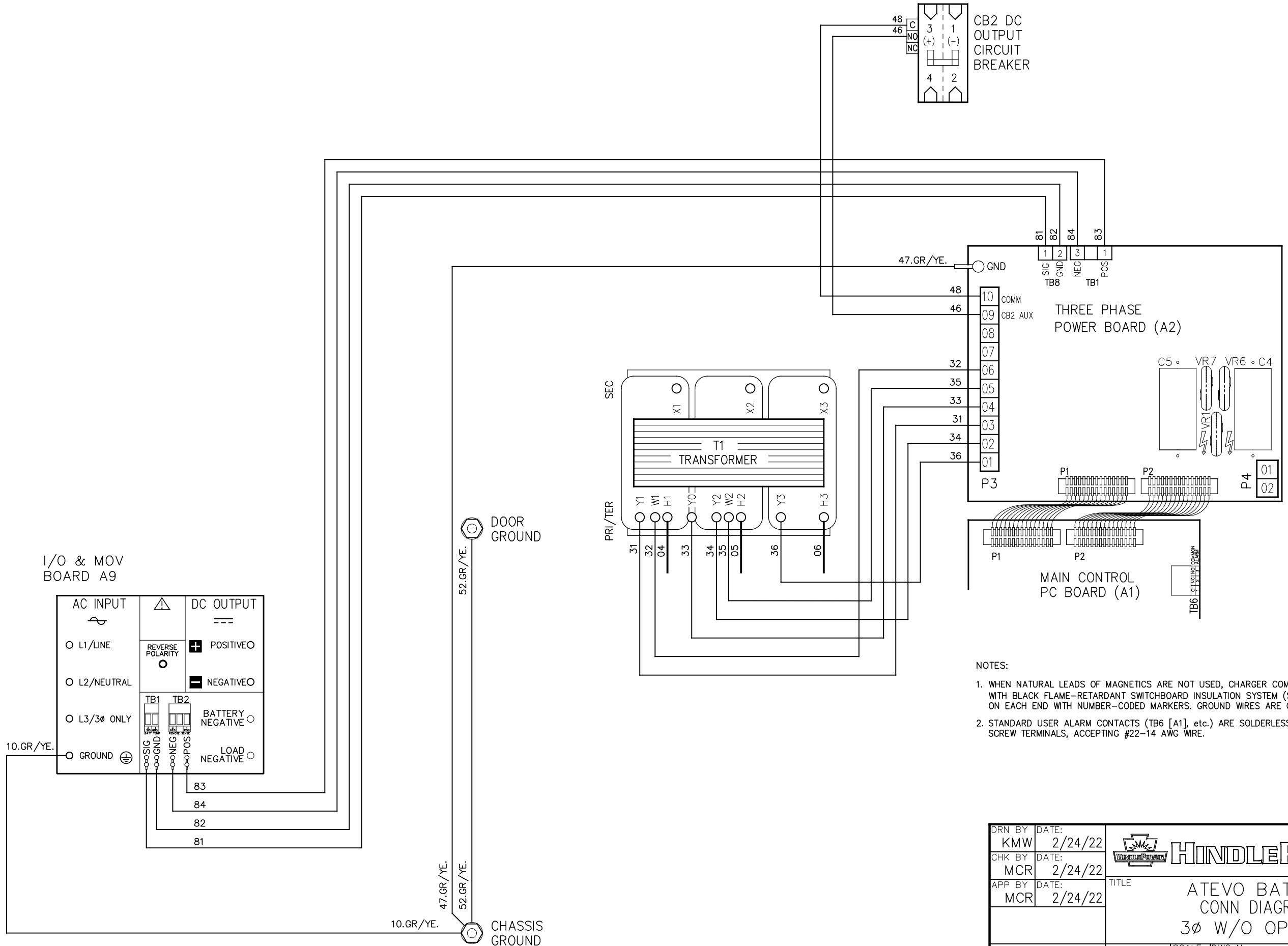
REV. 0	DRN BY KMW	CHK BY MCR	APP BY MCR	DATE DATE/0000	DRN BY KMW	DATE DATE/0000	<p><b>HINDLEPOWER</b></p> <p>1075 Saint John Street Easton, PA 18042-6661 PH 610-330-9000 FAX 610-330-8510 www.hindlepowerinc.com</p>
DESCRIPTION APPROVAL DRAWINGS.				CHK BY MCR	DATE DATE/0000	TITLE	
ECN No. N/A				APP BY MCR	DATE DATE/0000	<p><b>ATEVO BATTERY CHARGER</b> <b>SCHEMATIC: STYLE 5070</b> <b>3Ø W/O OPTIONS 16-100A</b></p>	
							<p><b>B</b> SCALE DWG No NTS JE5334-01</p>
							<p>REV 0 SHEET 1 OF 1</p>



NOTES:

1. WHEN NATURAL LEADS OF MAGNETICS ARE NOT USED, CHARGER COMPONENTS ARE CONNECTED WITH BLACK FLAME-RETARDANT SWITCHBOARD INSULATION SYSTEM (SIS) TYPE WIRING, IDENTIFIED ON EACH END WITH NUMBER-CODED MARKERS. GROUND WIRES ARE GREEN WITH YELLOW STRIPE.
2. THIS DRAWING (SHEET 1) SHOWS THE MAINFRAME POWER WIRING AND USER CONNECTION CONTACTS TO CONTROL PC BOARDS (A1 & A2). SEE SHEET 2 FOR ALL CONTROL (SIGNAL) WIRING.

REV. 1	DRN BY KJB	CHK BY MCR	APP BY MCR	DATE 9/11/2023	DRN BY KMW	DATE: 2/24/22	<b>HINDLEPOWER</b> 1075 Saint John Street Easton, PA 18042-6661 PH 610-330-9000 FAX 610-330-8510 www.hindlepowerinc.com
DESCRIPTION REVISED T1 SINGAL WIRING ORDER.					CHK BY MCR	DATE: 2/24/22	
ECN No. N/A					APP BY MCR	DATE: 2/24/22	
TITLE <b>ATEVO BATTERY CHARGER</b> <b>CONN DIAGRAM: STYLE 5070</b> <b>3<math>\phi</math> W/O OPTIONS 16-100A</b>							SCALE DWG No <b>B</b> NTS <b>JE5335-01</b>
REV 1 SHEET 1 OF 2							



- NOTES:
1. WHEN NATURAL LEADS OF MAGNETICS ARE NOT USED, CHARGER COMPONENTS ARE CONNECTED WITH BLACK FLAME-RETARDANT SWITCHBOARD INSULATION SYSTEM (SIS) TYPE WIRING, IDENTIFIED ON EACH END WITH NUMBER-CODED MARKERS. GROUND WIRES ARE GREEN WITH YELLOW STRIPE.
  2. STANDARD USER ALARM CONTACTS (TB6 [A1], etc.) ARE SOLDERLESS COMPRESSION SCREW TERMINALS, ACCEPTING #22-14 AWG WIRE.

DRN BY KMW	DATE: 2/24/22	 <b>HINDLEPOWER</b>	1075 Saint John Street Easton, PA 18042-6661 PH 610-330-9000 FAX 610-330-8510 www.hindlepowerinc.com		
CHK BY MCR	DATE: 2/24/22		TITLE <b>ATEVO BATTERY CHARGER CONN DIAGRAM: STYLE 5070 3Ø W/O OPTIONS 16-100A</b>		
APP BY MCR	DATE: 2/24/22				
		<b>B</b> SCALE NTS	DWG No <b>JE5335-01</b>	REV 1	SHEET 2 OF 2