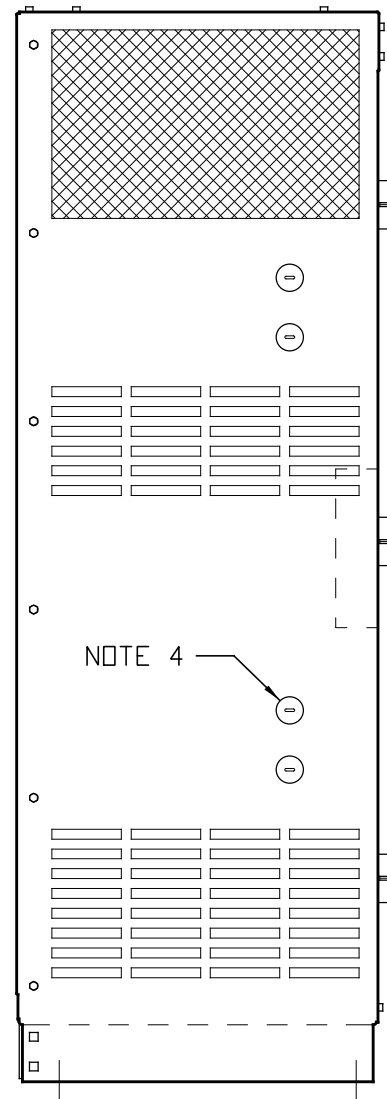
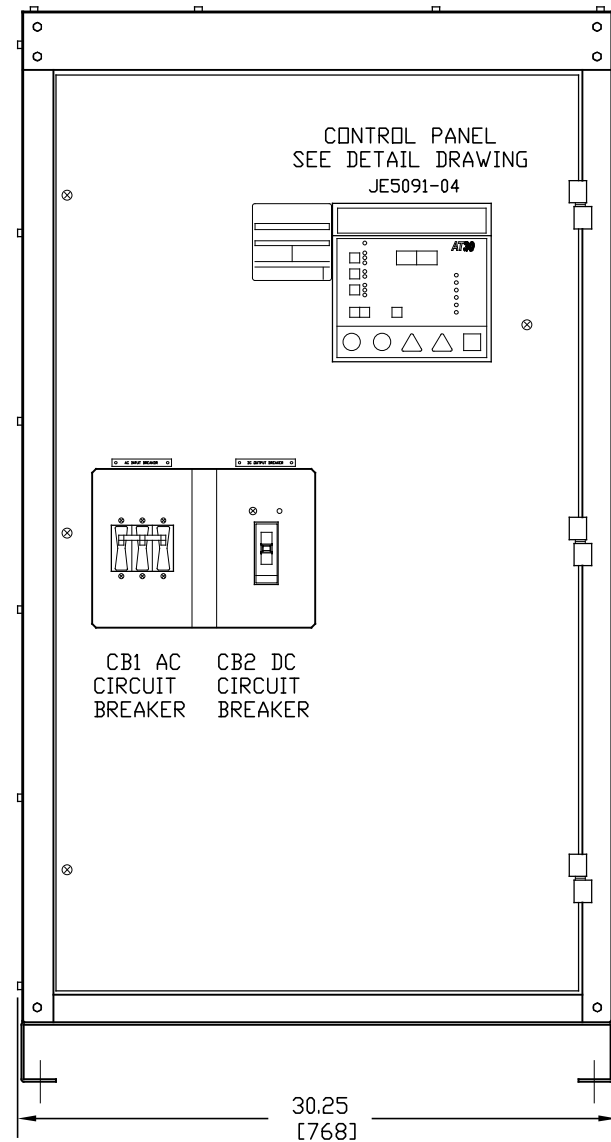


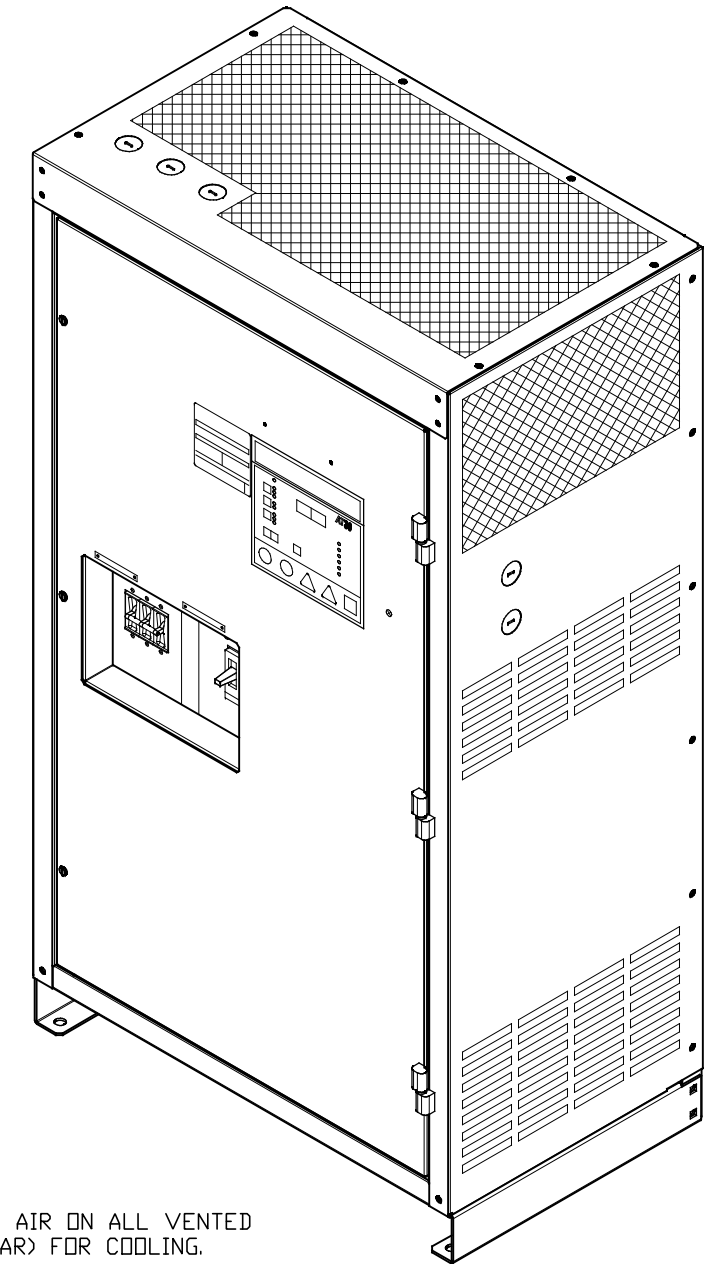
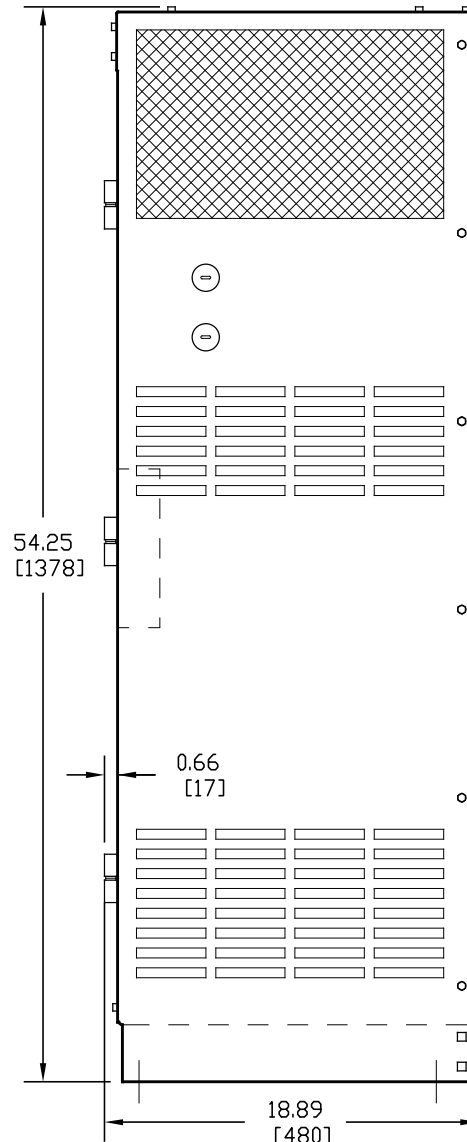
SIDE VIEW



FRONT VIEW

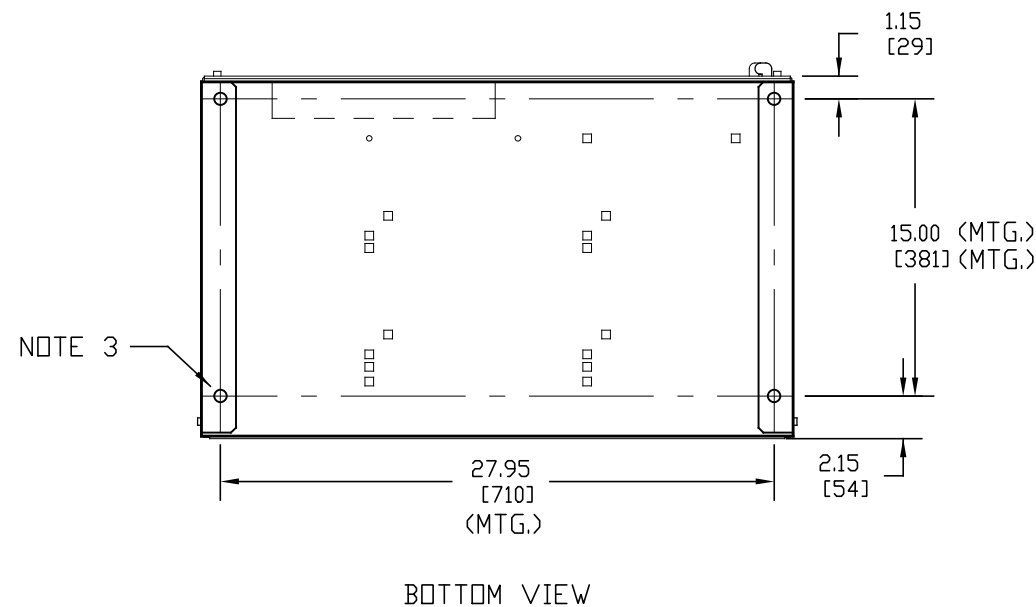


SIDE VIEW



NOTES:

- 2) ALLOW 6in / 152mm OF FREE AIR ON ALL VENTED SURFACES (TOP, SIDES & REAR) FOR COOLING.
- 3) FOUR (4) 0.625in / 16mm FLOOR-MOUNTING HOLES ARE PROVIDED ON BOTTOM OF ENCLOSURE AS SHOWN.
- 4) NINE (9) 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.
- 5) BATTERY CHARGER SHIPPING WEIGHT: SEE PRODUCT LITERATURE



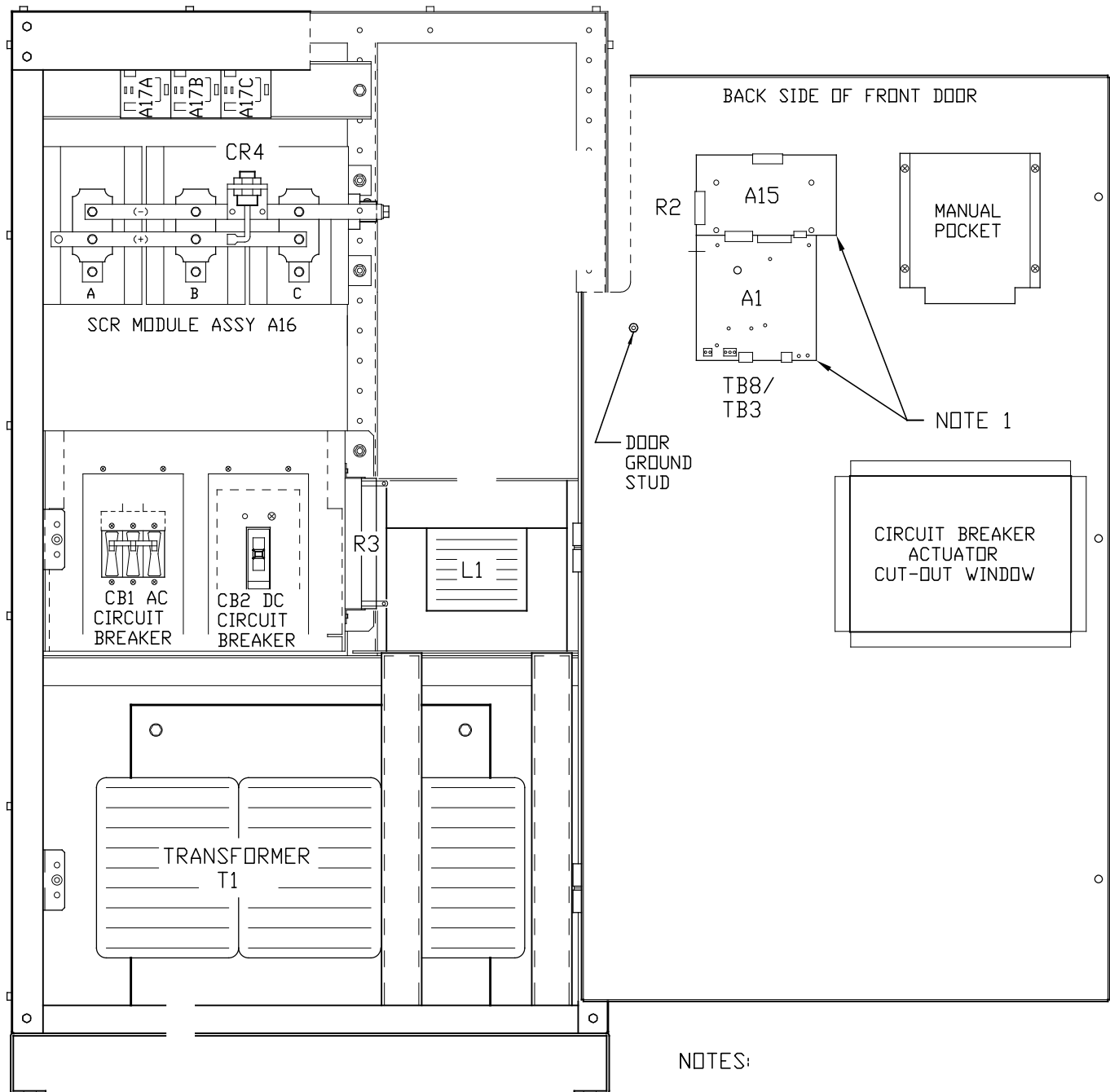
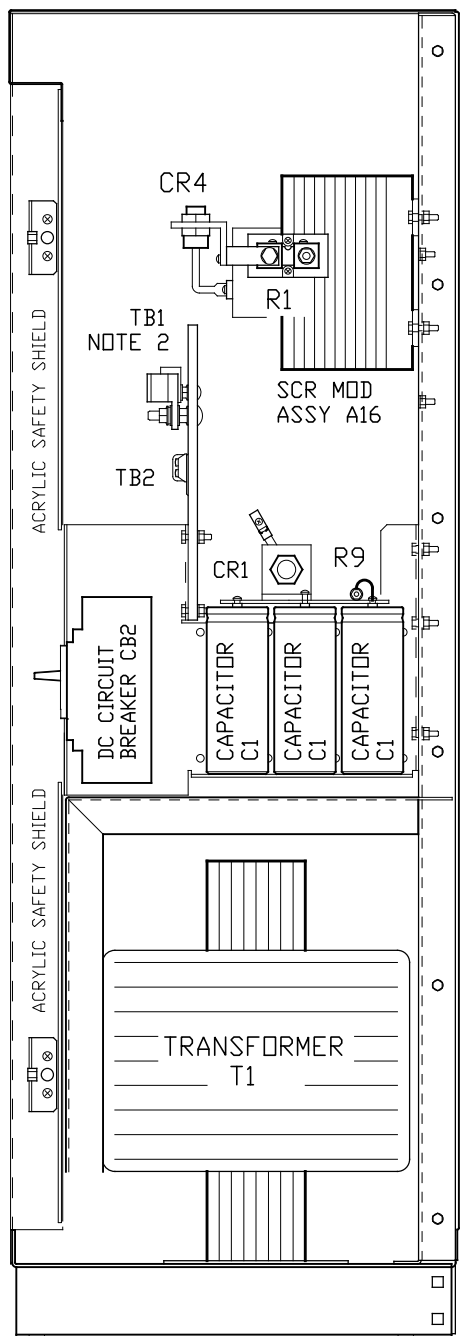
DUAL DIMENSIONS in mm

125-300ADC W/O OPTIONS

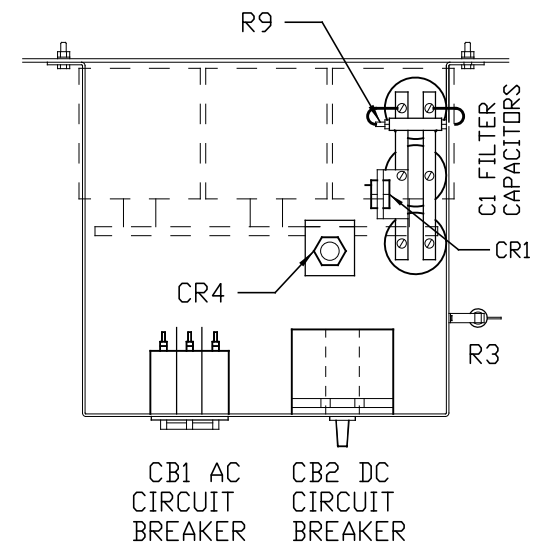
			THIRD ANGLE PROJECTION		1075 Saint John Street Easton, PA 18042-6661 PH 610-330-9000 FAX 610-330-8510 www.hindlepowerinc.com	
			DRAWN BY KMW	111021	TITLE AT30 SERIES BATTERY CHARGER OUTLINE: NEMA-1 STYLE-5030 ENCLOSURE	
			ELECTRONIC APPROVAL SIGNATURES MAINTAINED BY MFG ECN LOG		DRAWING No JE5086-04	
0	N/A	111021	UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		REV 0	B
REV	ECN No	DATE	SCALE NTS	SALES No	SHEET 1 OF 1	

SIDE SECTION

FRONT VIEW



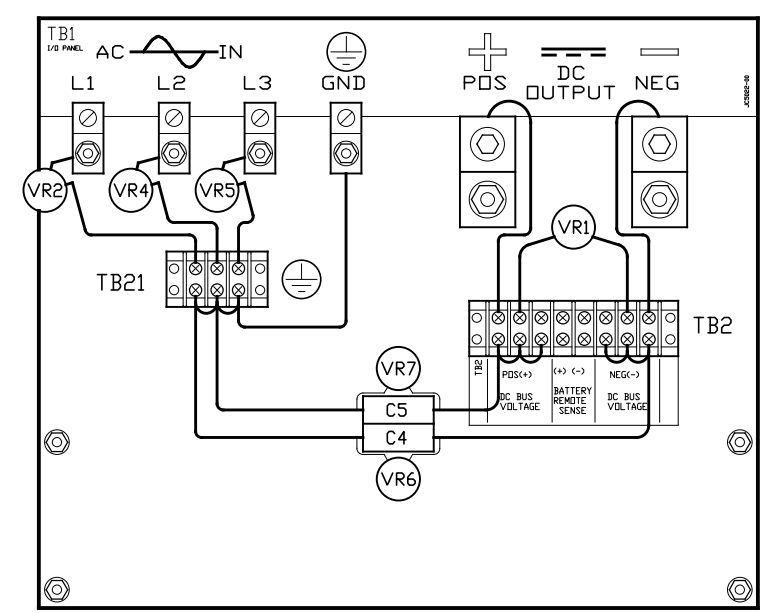
TOP VIEW OF CIRCUIT BREAKER MOUNTING BRACKET



SYM	STANDARD COMPONENT DESCRIPTION
A1	MAIN CONTROL PC BOARD
A15	THREE PHASE GATE DRIVER PCB
A16	6-PULSE SCR MODULE HEATSINK ASSY
A17x	SCR SNUBBER PC BOARD - QTY. (3)
C4	EMI OUTPUT FILTER CAP (NEG-GND)
C5	EMI OUTPUT FILTER CAP (POS-GND)
CB1	AC INPUT CIRCUIT BREAKER (CD3)
CB2	DC OUTPUT CIRCUIT BREAKER (Hx2)
CR4	FREE-WHEELING DIODE
L1	MAIN INDUCTOR
R1	MAIN DC SHUNT, NEG(-) BUS
R2	CURRENT RATING RESISTOR
R3	PWR SUPPLY BALLAST RES (130VDC)
T1	POWER ISOLATION TRANSFORMER
TB1	I/O TERMINAL BOARD
TB2	INT DC VOLTAGE (+/-) CONTACTS
TB3	SUMMARY ALARM CONTACTS
TB8	TEMPCO PROBE TERMINAL BLOCK
TB21	INTERNAL GROUND (≡) CONTACTS
VR1	OUTPUT SURGE SUPPRESSOR (+TO-)
VR2	INPUT SURGE SUPPRESSOR (LINE 1)
VR4	INPUT SURGE SUPPRESSOR (LINE 2)
VR5	INPUT SURGE SUPPRESSOR (LINE 3)
VR6	OUTPUT SURGE SUPPRESSOR (-)
VR7	OUTPUT SURGE SUPPRESSOR (+)

SYM	FEATURED OPTION COMP DESCRIPTION
C1x	DC OUTPUT FILTER CAPACITOR
CR1	POLARITY DIODE
E13	INDUCTOR INTER-CONNECT POINT
L2	FILTER INDUCTOR
R9	FILTER CAP (C1) BLEED RESISTOR

I/O TERMINAL BOARD (TB1) DETAIL



- NOTES:
- 1) FOR DETAIL VIEWS OF ALL PC BOARDS (A1, A5, A15, A17, etc.) SEE DRAWING JE5091-04.
 - 2) I/O PANEL TERMINAL BOARD (TB1) NOT SHOWN FOR CLARITY OF VIEW. SEE DETAIL TO RIGHT.

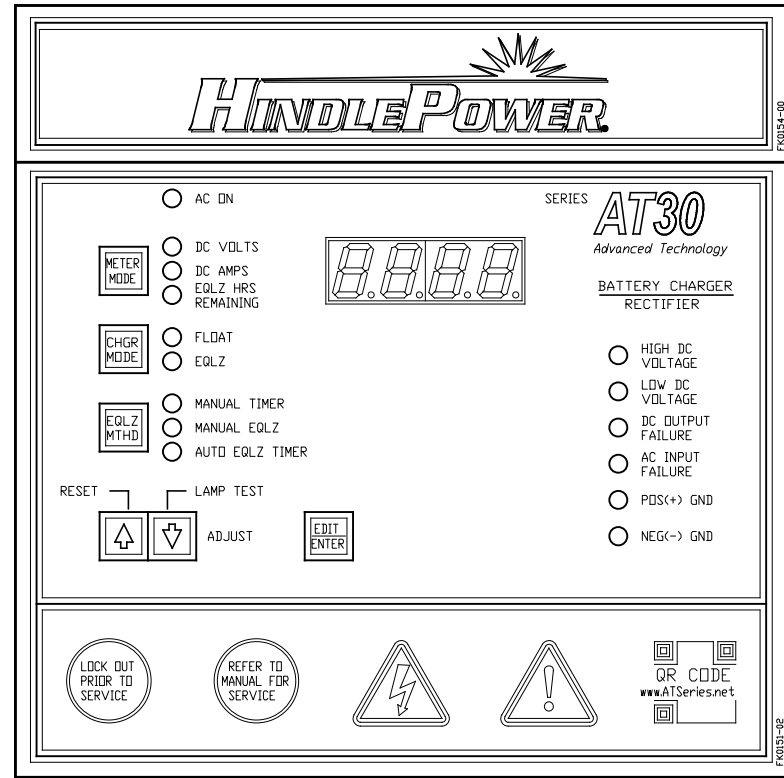
I/O TERMINAL	DESCRIPTION - TYPE	CONNECTION
TB1(+/-)	POS/NEG DC OUTPUT TERMS - CU-ALUMINUM COMPRESSION LUG	#6 AWG-350 MCM
REM SENSE(+/-)	POS/NEG REMOTE SENSE TERMINALS - 6-32 COMP SCREW	#16-14 AWG
TB1-GND	USER GROUND TERMINAL - CU-ALUMINUM COMPRESSION LUG	
TB1-L1/L2/L3	AC INPUT TERMINALS - CU-ALUMINUM COMPRESSION LUG	#14-1/0 AWG
TB3	SUMMARY ALARM TERMINAL BLOCK - SOLDERLESS COMP SCREW	#22-14 AWG
TB8	TEMPCO PROBE (A10) INTERCONNECTION TERMINAL BLOCK	#22-14 AWG

125-300ADC W/ COMMON OPTIONS

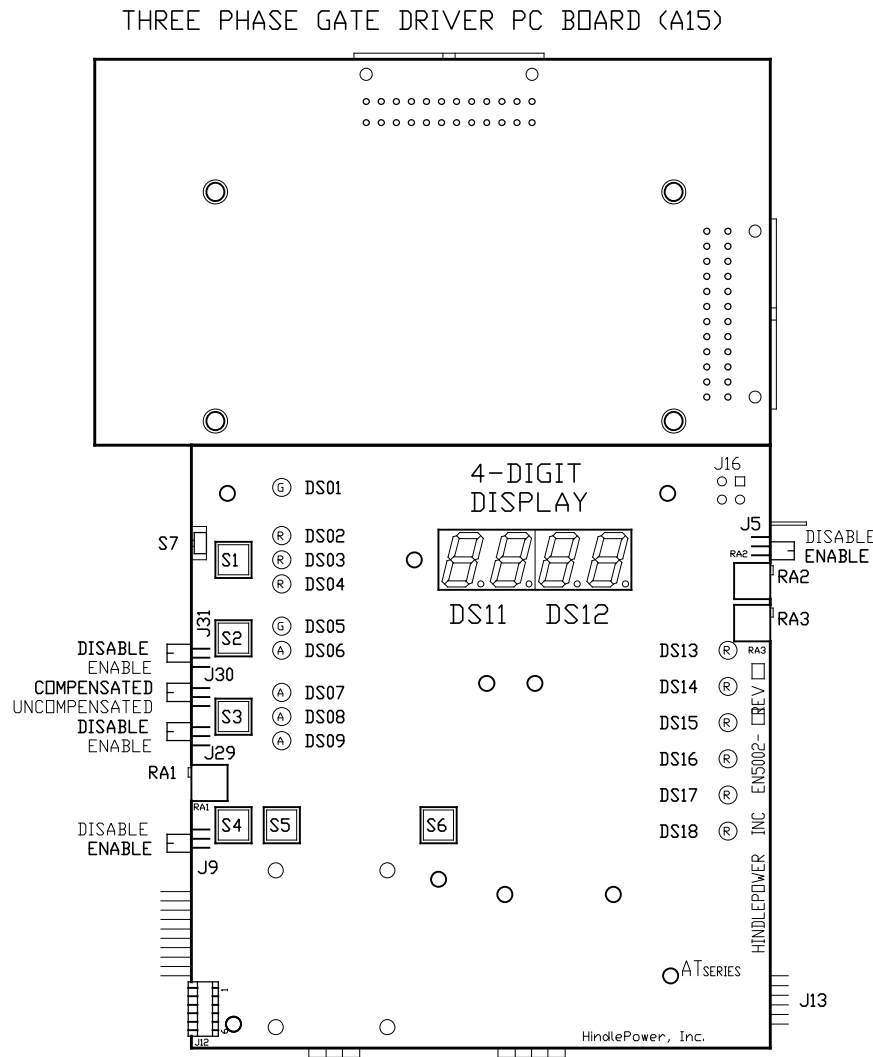
	 THIRD ANGLE PROJECTION	HINDLE POWER 1075 Saint John Street Easton, PA 18042-6661 PH 610-330-9000 FAX 610-330-8510 www.hindlepowerinc.com	TITLE AT30 SERIES BATTERY CHARGER INTERNAL COMPONENT LAYOUT: STYLE-5030
DRAWN BY KMW 111021	ELECTRONIC APPROVAL SIGNATURES MAINTAINED BY MFG ECN LOG		DRAWING No JE5089-04 REV 0 B
0 N/A 111021	UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		SCALE NTS SALES No SHEET 1 OF 1

INDICATOR LIGHTS (LEDs):
 DS01 - GREEN - AC ON
 DS02 - RED - DC VOLTS
 DS03 - RED - DC AMPERES
 DS04 - RED - EQUALIZE HRS REMAINING
 DS05 - GREEN - FLOAT
 DS06 - AMBER - EQUALIZE
 DS07 - AMBER - MANUAL TIMER
 DS08 - AMBER - MANUAL EQUALIZE
 DS09 - AMBER - AUTO EQUALIZE TIMER

DS10 - RED - LOW LEVEL DETECT
 DS11 - RED - (METER DISPLAY)
 DS12 - RED - (METER DISPLAY)
 DS13 - RED - HIGH DC VOLTAGE
 DS14 - RED - LOW DC VOLTAGE
 DS15 - RED - DC OUTPUT FAILURE
 DS16 - RED - AC INPUT FAILURE
 DS17 - RED - POS(+) GROUND FAULT
 DS18 - RED - NEG(-) GROUND FAULT

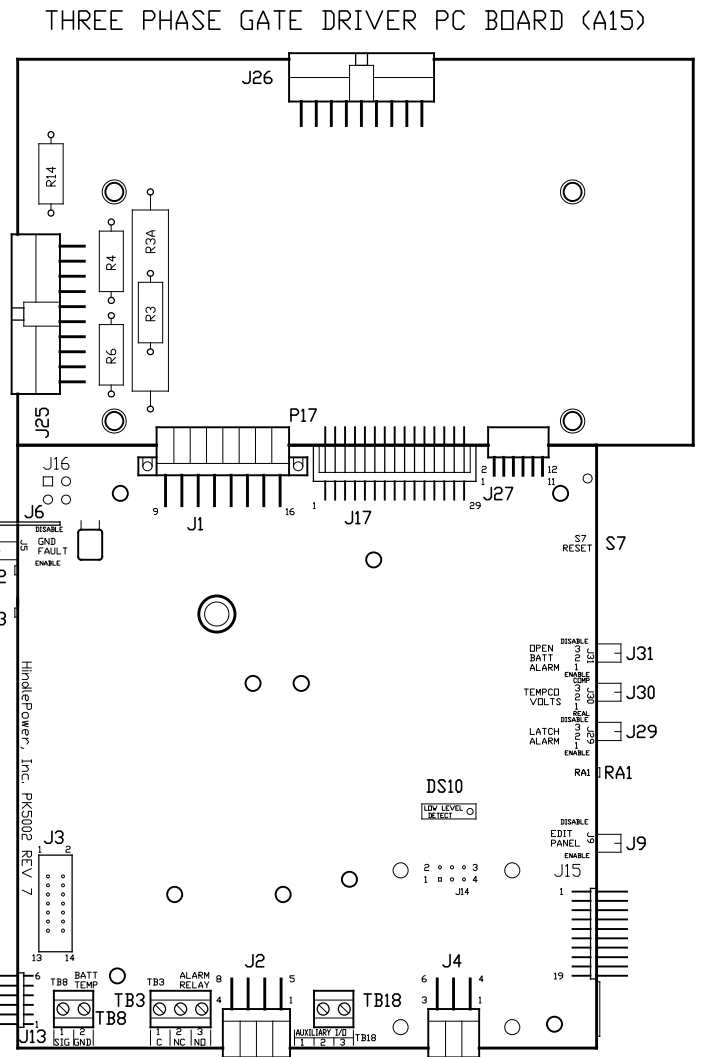


CONTROL PANEL
(PART No. FK0151-02)



MAIN CONTROL PC BOARD (A1)

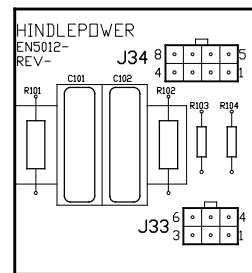
FRONT VIEW - FACING CHARGER DOOR WHEN INSTALLED



MAIN CONTROL PC BOARD (A1)

BACK VIEW - FACING CHARGER COMPONENTS WHEN INSTALLED

NOTE: UNLESS OTHERWISE SPECIFIED, ALL USER TERMINAL BLOCKS (TB3/TB4/TB8) ARE SOLDERLESS COMPRESSION TERMINALS, ACCEPTING #22-14 AWG WIRE. 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.



SCR SNUBBER
PC BOARD (A17x)
THREE (3) REQ'D
PER CHARGER

USER JUMPERS:

- J1 - not used with 3PH (MAINFRAME SIGNAL HARNESS)
- J2 - AUX ALARM RELAY BOARD (A5) SERIAL CONNECTOR
- J4 - FORCED LOAD SHARING CABLE INTERCONNECTOR
- J5 - GROUND FAULT ENABLE/DISABLE
- J6 - EARTH GROUND CONNECTOR
- J9 - FRONT PANEL ENABLE/DISABLE (LOCKOUT)
- J13 - COMMUNICATIONS PC BOARD (A12) INTERCONNECTOR
- J17 - 3PH GATE DRIVER PC BOARD (A15) INTERCONNECTOR
- J25 - MAINFRAME CONTROL SIGNAL HARNESS
- J26 - SCR FIRING CONTROL HARNESS (3 PHASE/6 PULSE)
- J27 - 3PH GATE DRIVER PC BOARD (A15) INTERCONNECTOR
- J29 - LATCHING ALARMS ENABLE/DISABLE SELECTOR
- J30 - TEMPCO VOLTAGES (COMPENSATED/UNCOMP) SELECTOR
- J31 - BATTERY OPEN ALARM ENABLE/DISABLE SELECTOR

SWITCHES:

- S1 - METER MODE
- S2 - CHARGER MODE
- S3 - EQUALIZE METHOD
- S4 - ΔADJUST
- S5 - ▽ADJUST
- S6 - EDIT / ENTER
- S7 - PROCESSOR MANUAL RESET

TERMINAL BLOCKS:

- TB3 - SUMMARY ALARM RELAY CONTACTS
- TB8 - DPT TEMPCO PROBE (A10) CONN
- TB18 - REM SHUTDOWN INTERFACE

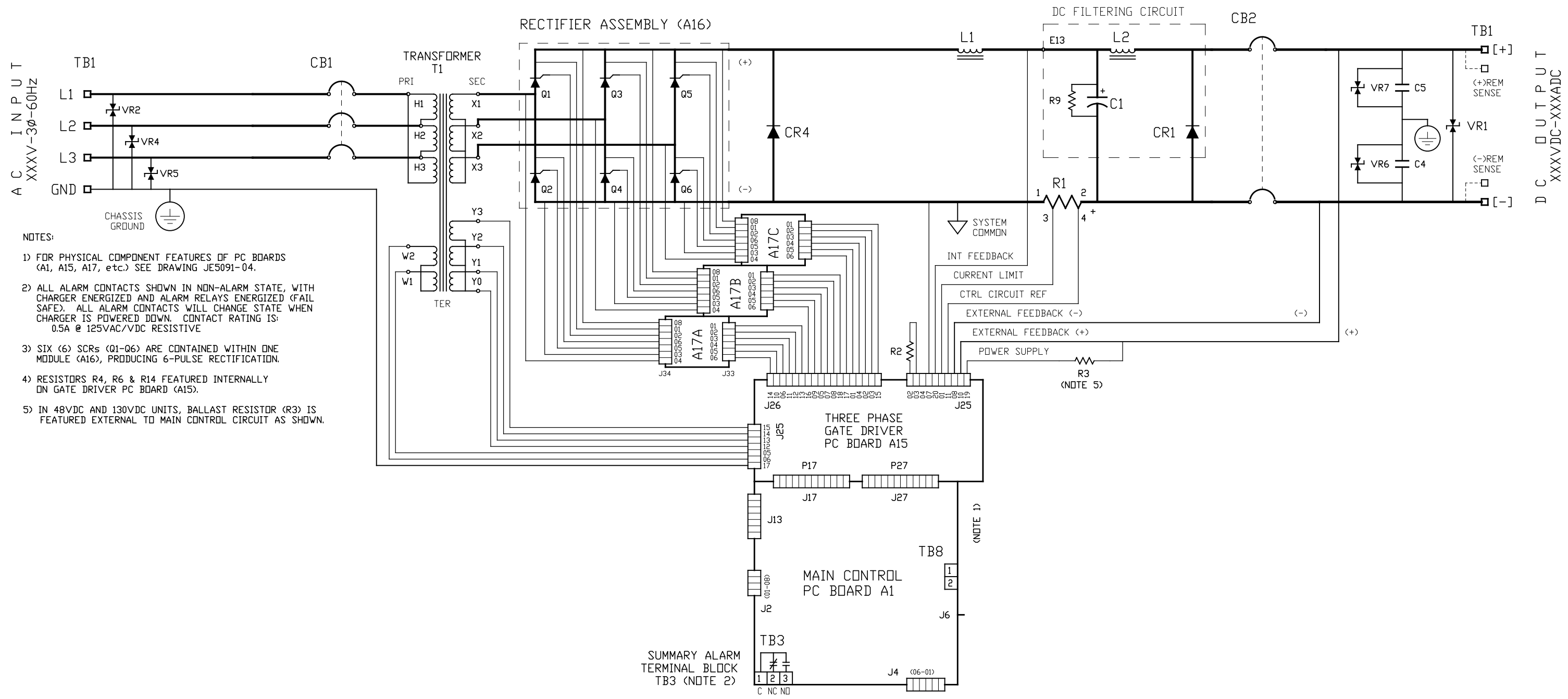
OTHER CONTROLS:

- RA1 - LOW LEVEL DETECT ADJUST
- RA2 - GROUND FAULT BALANCE
- RA3 - GROUND FAULT SENSITIVITY

- NON-USER ACCESSED JUMPERS:
 J3 - OLD A5 RIBBON CONNECTOR
 J12 - BOARD PROGRAMMING
 J14 - OLD FORCED LOAD SHARING
 J15 - MANUFACTURING TEST
 J16 - OLD INTERNAL TEMP

125-300ADC W/O OPTIONS

			THIRD ANGLE PROJECTION		 1075 Saint John Street Easton, PA 18042-6661 PH 610-330-9000 FAX 610-330-8510 www.hindlepowerinc.com	
			DRAWN BY KMW 111021		TITLE AT30 SERIES BATTERY CHARGER CONTROL PANEL / PC BOARD DETAIL	
			ELECTRONIC APPROVAL SIGNATURES MAINTAINED BY MFG ECN LOG		DRAWING No JE5091-04	
0 N/A 111021			UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		REV 0 B	
REV	ECN No	DATE	SCALE	SALES No	SHEET	OF
			NTS		1	1



- NOTES:
- 1) FOR PHYSICAL COMPONENT FEATURES OF PC BOARDS (A1, A15, A17, etc.) SEE DRAWING JE5091-04.
 - 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
 - 3) SIX (6) SCRs (Q1-Q6) ARE CONTAINED WITHIN ONE MODULE (A16), PRODUCING 6-PULSE RECTIFICATION.
 - 4) RESISTORS R4, R6 & R14 FEATURED INTERNALLY ON GATE DRIVER PC BOARD (A15).
 - 5) IN 48VDC AND 130VDC UNITS, BALLAST RESISTOR (R3) IS FEATURED EXTERNAL TO MAIN CONTROL CIRCUIT AS SHOWN.

STANDARD AT30 COMPONENTS:

- A1 MAIN CONTROL PC BOARD (NOTE 1)
- A15 THREE PHASE GATE DRIVER PC BOARD (NOTE 1)
- A16 6-PULSE SCR (Q1-Q6) MODULE (NOTE 3)
- A17A SCR SNUBBER ASSY PC BOARD (NOTE 1)
- A17B SCR SNUBBER ASSY PC BOARD (NOTE 1)
- A17C SCR SNUBBER ASSY PC BOARD (NOTE 1)
- C4 DC OUTPUT EMI FILTER CAPACITOR (-) TO GROUND
- C5 DC OUTPUT EMI FILTER CAPACITOR (+) TO GROUND
- CB1 AC INPUT CIRCUIT BREAKER
- CR4 FREE-WHEELING DIODE
- L1 MAIN INDUCTOR
- Q1 SILICON-CONTROLLED RECTIFIER (A16A) (NOTE 3)
- Q2 SILICON-CONTROLLED RECTIFIER (A16A) (NOTE 3)
- Q3 SILICON-CONTROLLED RECTIFIER (A16B) (NOTE 3)
- Q4 SILICON-CONTROLLED RECTIFIER (A16B) (NOTE 3)
- Q5 SILICON-CONTROLLED RECTIFIER (A16C) (NOTE 3)
- Q6 SILICON-CONTROLLED RECTIFIER (A16C) (NOTE 3)

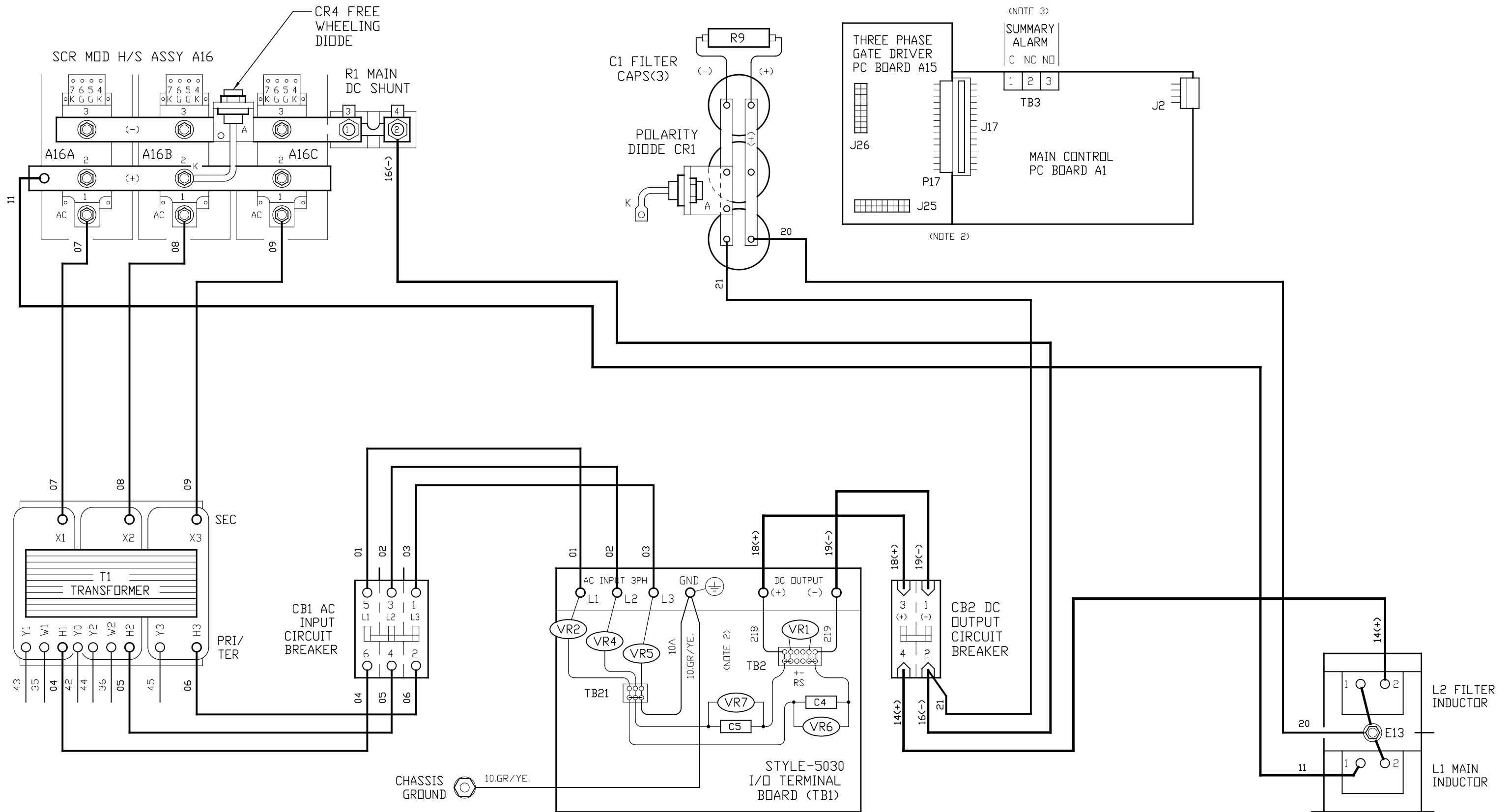
STANDARD AT30 COMPONENTS:

- R1 MAIN DC SHUNT, NEG(-) BUS
- R2 CURRENT RATING RESISTOR
- R3 POWER SUPPLY BALLAST RESISTOR (NOTE 5)
- R4 EXTERNAL SCALING RESISTOR (+) (NOTE 4)
- R6 INTERNAL SCALING RESISTOR (NOTE 4)
- R14 EXTERNAL SCALING RESISTOR (-) (NOTE 4)
- T1 POWER ISOLATION TRANSFORMER (+10/-12%)
- TB1 INPUT/OUTPUT TERMINAL BLOCK
- TB3 SUMMARY ALARM TERMINAL BLOCK (NOTE 2)
- TB8 OPTIONAL TEMP/CO PROBE (A10) INTERCONNECTOR
- VR1 DC OUTPUT SURGE SUPPRESSOR (-) TO (+)
- VR2 AC INPUT SURGE SUPPRESSOR (LINE 1)
- VR4 AC INPUT SURGE SUPPRESSOR (LINE 2)
- VR5 AC INPUT SURGE SUPPRESSOR (LINE 3)
- VR6 DC OUTPUT SURGE SUPPRESSOR (-) TO GROUND
- VR7 DC OUTPUT SURGE SUPPRESSOR (+) TO GROUND

FEATURED AT30 OPTION COMPONENTS:

- DC FILTERING ASSEMBLY:
- C1 DC OUTPUT FILTERING CAPACITOR
 - CR1 POLARITY DIODE
 - E13 INDUCTOR INTERCONNECTION POINT
 - L2 FILTERING INDUCTOR
 - R9 FILTER CIRCUIT BLEED RESISTOR

			 THIRD ANGLE PROJECTION		 1075 Saint John Street Easton, PA 18042-6661 PH 610-330-9000 FAX 610-330-8510 www.hindlepowerinc.com	
			DRAWN BY KMW		111021	
			ELECTRONIC APPROVAL SIGNATURES MAINTAINED BY MFG ECN LOG			
			UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		TITLE BATTERY CHARGER SCHEMATIC: 125-300ADC W/O OPTIONS	
0 N/A 111021			DRAWING No JE5092-04		REV 0 B	
REV	ECN No	DATE	SCALE NTS	SALES No	SHEET 1 OF 1	



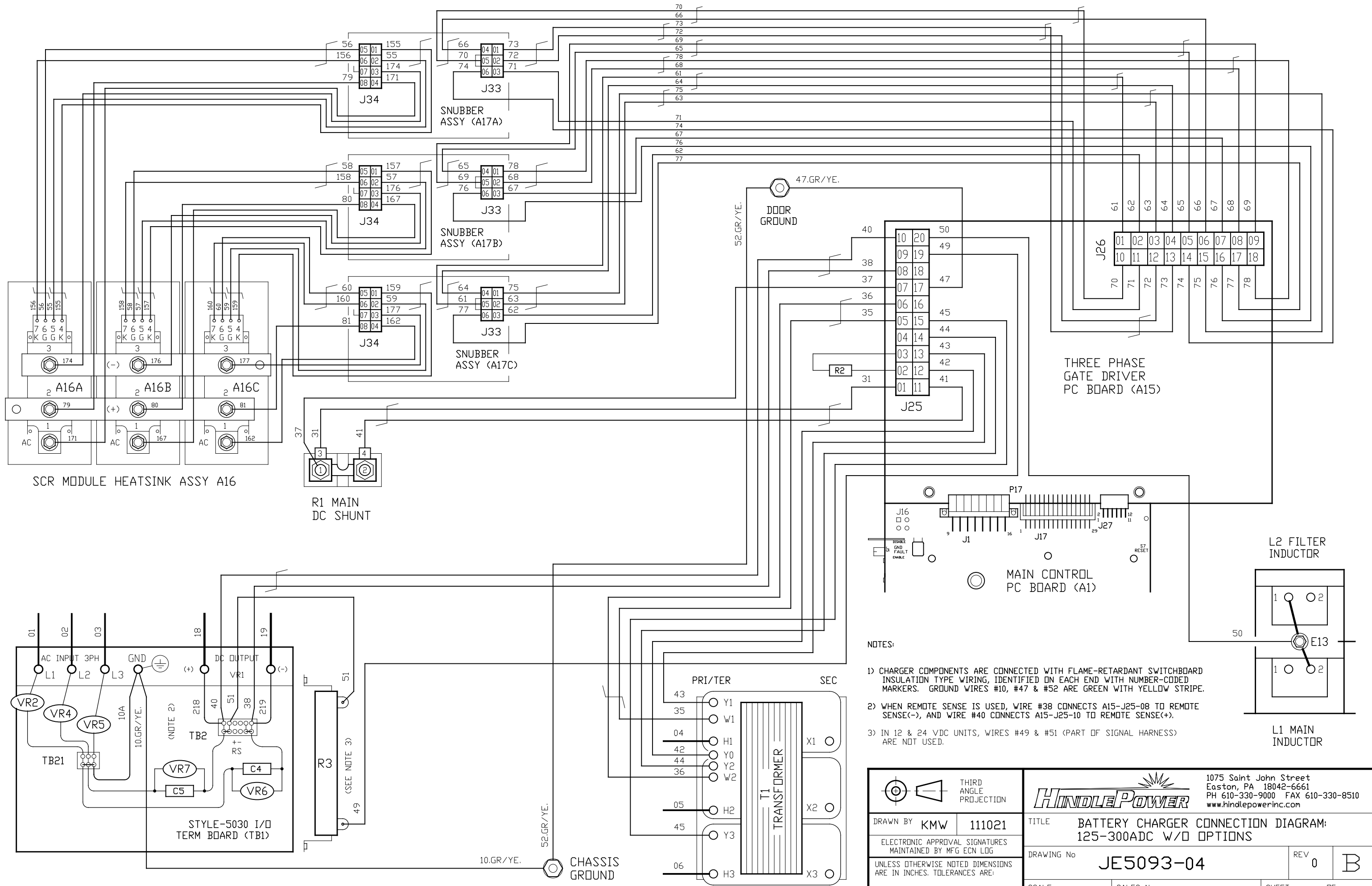
NOTES:

- 1) CHARGER COMPONENTS ARE CONNECTED WITH BLACK FLAME-RETARDANT SWITCHBOARD INSULATION SYSTEM (SIS) TYPE WIRING, IDENTIFIED ON EACH END WITH NUMBER-CODED WIRE MARKERS. GROUND WIRES ARE GREEN WITH YELLOW STRIPE. DIODES (CR1 & CR4) ARE ANODE-MOUNTED TYPE, WIRE TO CATHODE.
- 2) THIS DRAWING (SHEET 1) SHOWS THE MAINFRAME POWER WIRING AND USER CONNECTION CONTACTS TO CONTROL PC BOARDS (A1 & A5). SEE SHEET 2 FOR ALL CONTROL (SIGNAL) WIRING, INCLUDING REMOTE SENSE MODIFICATIONS, IF APPLICABLE.
- 3) STANDARD USER ALARM CONTACTS (TB3, TB4, etc.) ARE SOLDERLESS COMPRESSION SCREW TERMINALS, ACCEPTING #22-14 AWG WIRE.

FEATURED OPTIONS:

- STD DC OUTPUT FILTERING
- AC INPUT CIRCUIT BREAKER
- DC OUTPUT CIRCUIT BREAKER

			 THIRD ANGLE PROJECTION		 1075 Saint John Street Easton, PA 18042-6661 PH 610-330-9000 FAX 610-330-8510 www.hindlepowerinc.com	
DRAWN BY KMW 111021			TITLE BATTERY CHARGER CONNECTION DIAGRAM: 125-300ADC W/O OPTIONS			
ELECTRONIC APPROVAL SIGNATURES MAINTAINED BY MFG ECN LOG			DRAWING No JE5093-04		REV 0 B	
UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:			SCALE NTS SALES No		SHEET 1 OF 2	
0	N/A	111021				
REV	ECN No	DATE				



- NOTES:
- 1) CHARGER COMPONENTS ARE CONNECTED WITH FLAME-RETARDANT SWITCHBOARD INSULATION TYPE WIRING, IDENTIFIED ON EACH END WITH NUMBER-CODED MARKERS. GROUND WIRES #10, #47 & #52 ARE GREEN WITH YELLOW STRIPE.
 - 2) WHEN REMOTE SENSE IS USED, WIRE #38 CONNECTS A15-J25-08 TO REMOTE SENSE(-), AND WIRE #40 CONNECTS A15-J25-10 TO REMOTE SENSE(+).
 - 3) IN 12 & 24 VDC UNITS, WIRES #49 & #51 (PART OF SIGNAL HARNESS) ARE NOT USED.

 THIRD ANGLE PROJECTION			1075 Saint John Street Easton, PA 18042-6661 PH 610-330-9000 FAX 610-330-8510 www.hindlepowerinc.com	
	DRAWN BY KMW	111021	TITLE BATTERY CHARGER CONNECTION DIAGRAM: 125-300ADC W/D OPTIONS	
ELECTRONIC APPROVAL SIGNATURES MAINTAINED BY MFG ECN LOG		DRAWING No JE5093-04	REV 0	B
UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		SCALE NTS	SALES No	SHEET 2 OF 2