

NOTES:

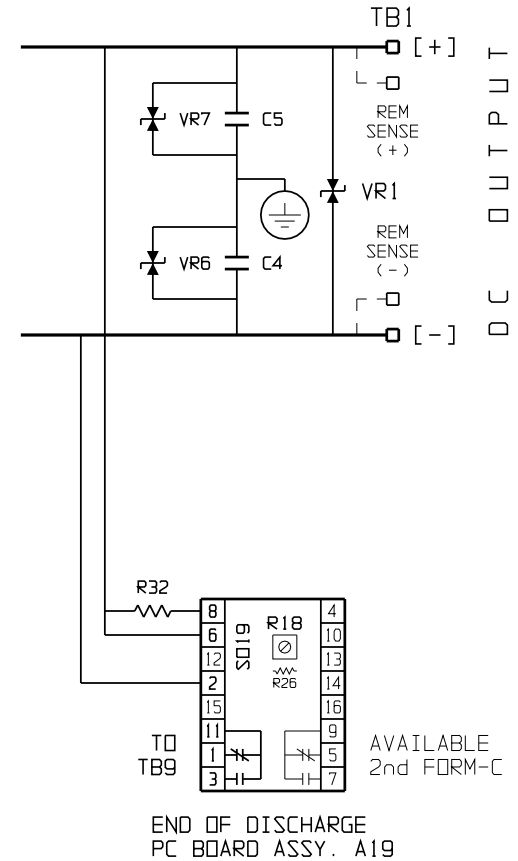
- 1) AT SERIES DC MAINFRAME COMPONENTS (C4/C5/VR6/VR7/TB1) NOT PART OF EJ5137-## OPTION BILL OF MATERIAL, SHOWN FOR REFERENCE PURPOSES ONLY.
- 2) ALL ALARM CONTACTS SHOWN IN NON-ALARM STATE. CONTACT RATING IS 0.5A @ 125VAC/VDC RESISTIVE.
- 3) FOR 12VDC OPTION, R32 IS A JUMPER.
- 4) THEORY OF OPERATION:

EJ5137-## AT SERIES END OF DISCHARGE ALARM

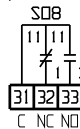
The AT10.1/AT30 is equipped with an End of Discharge Alarm, which provides a low-limit threshold voltage, set at the minimal safe voltage to which the batteries may be discharged. Control circuit board (A19) performs sensing and alarm activation. An adjustment potentiometer (R18), located on the A19 pc board, is supplied for fine-tuning of the End of Discharge alarm voltage level. Factory preset is 105 Vdc (10.5V per 12V battery block).

! NOTICE! The End of Discharge alarm is often utilized to notify the user of, or even physically disconnect and thereby saving, a dangerously discharging battery.

The alarm relays are not latched, and no indicator lamp is provided. One (1) set of form-C alarm contacts are provided at terminal block (TB9-31/32/33). Remote alarm terminal block (TB9) is a molded phenolic "barrier" type, with 6-32 binder head screw terminals, accepting lugs for #16-14 AWG wire. User contacts are clearly labeled in the non-alarm condition with a laminated plastic engraved plate. Alarm contact rating is 0.5A at 120Vac/Vdc resistive.



END OF DISCHARGE



NON-STANDARD ALARM TERMINAL BLOCK TB9 (NOTE 2)

EJ5137-## OPTION BOM COMPONENTS:

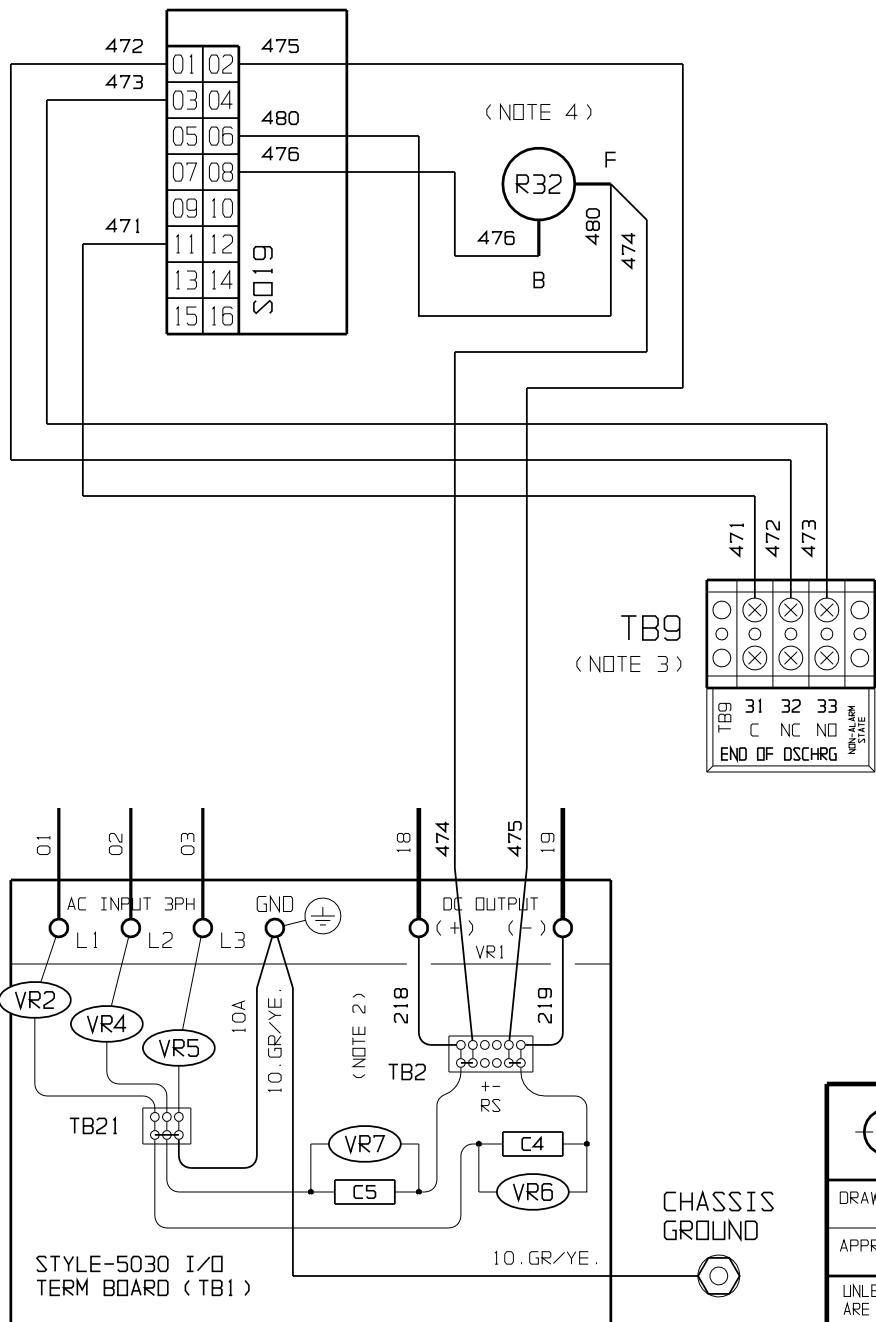
- A19 END OF DISCHARGE ALARM PC BOARD
- R32 END OF DISCHARGE ALARM P/S BALLAST RESISTOR
- TB9 NON-STANDARD ALARM BARRIER AUX TERMINAL BLOCK

2	23513	121212	MCT	 THIRD ANGLE PROJECTION	TITLE AT SERIES END OF DISCHARGE ALARM OPTION: SCHEMATIC AND USER OPERATION NOTE			
1	22235	082210	ND					
D	N/A	012910	N/A	DRAWN BY	MCR	082210	DRAWING No EJ5137-XX REV 2B A	
C	N/A	110409	N/A	APPROVED	ND	082310		
B	N/A	072509	N/A	UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:			SCALE	NTS
REV	ECN No	DATE	APP				PART No	EJ5137-##

END OF DISCHARGE  
ALARM PC BOARD A19

NOTES:

- 1) CHARGER COMPONENTS ARE CONNECTED WITH FLAME-RETARDANT SWITCHBOARD INSULATION SYSTEM (SIS) TYPE WIRING, IDENTIFIED ON EACH END WITH NUMBER-CODED MARKERS. UNLESS OTHERWISE SPECIFIED, WIRES # 471-480 ARE #18 AWG BLACK XLP. GROUND WIRE #10 IS GREEN WITH YELLOW STRIPE.
- 2) AT30 STYLE-5030 I/O PANEL (TB1) ARRANGEMENT SHOWN FOR REFERENCE PURPOSES. EJ5137-## OPTIONS MAY BE INSTALLED INTO AT10.1 OR AT30 STYLE-5017, -5018, -5030, -163, OR -198 ENCLOSURES. WIRE TO TB1(+/-) ACCORDINGLY.
- 3) TB9 REMOTE ALARM TERMINAL BLOCK:
  - A) BARRIER TYPE, 6-32 BINDER HEAD SCREW TERMS, WILL ACCEPT LUGS FOR #16-14 AWG WIRE
  - B) USE RCO053-## MARKING STRIP AND LABEL TB9 REMOTE ALARM CONTACTS "31,32,33" BACK-TO-FRONT OR LEFT-TO-RIGHT AS REQUIRED BY ENCLOSURE.
  - C) IF CHARGER DESIGN CONTAINS OTHER NON-STANDARD AT SERIES ALARMS (E.G. EJ5136-##), RETURN RCO005-01 TO STOCK & SIGN OUT LARGER (COMBINED) RCO005-## TERMINAL BLOCK (E.G. TB9 6-POS, 9-POS, ETC.).
- 4) IN 12VDC OPTION, R32 IS A PIECE OF #18 AWG XLP WIRE JUMPERED ACROSS "PICKET FENCE" (RC0043-00).
- 5) ENCLOSURE-SPECIFIC COMPONENT MOUNTING INSTRUCTIONS:
  - A) STYLE-5017/5018:
    - MOUNT A19 & R32 TO GALVANIZED BACK PANEL NEAR FLOOR
    - MOUNT TB9 TO FLOOR & LABEL TERMINALS BACK-TO-FRONT
  - B) STYLE-5030:
    - MOUNT FB5016-0# PHENOLIC PANEL TO UPPER-RIGHT VERTICAL POSTS
    - MOUNT A19, R32 & TB9 TO FB5016-0# & LABEL TERMINALS LEFT-TO-RIGHT
  - C) STYLE-163/198:
    - LOCATE AREA ON REAR MAIN PHENOLIC MOUNTING IN UPPER-RIGHT CORNER
    - MOUNT A19, R32 & TB9 TO PHENOLIC & LABEL TERMINALS LEFT-TO-RIGHT
- 6) THIS OPTION MAY BE FEATURED IN UNITS ALONG WITH OTHER "NON-STANDARD" AT SERIES ALARM OPTIONS. USE "BEST JUDGMENT" WHEN COMPONENT MOUNTING CONFLICTS OR SPACING ISSUES OCCUR. SEE ENGINEERING DEPARTMENT WITH ANY QUESTIONS.



THIRD ANGLE PROJECTION		TITLE AT SERIES END OF DISCHARGE ALARM OPTION: CONNECTION DIAGRAM & MECH ASSY NOTES	
DRAWN BY	MCR	082210	DRAWING No
APPROVED	ND	082310	
UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:			REV
SCALE	NTS	PART No	2B
		EJ5137-##	A
		SHEET	2 OF 2