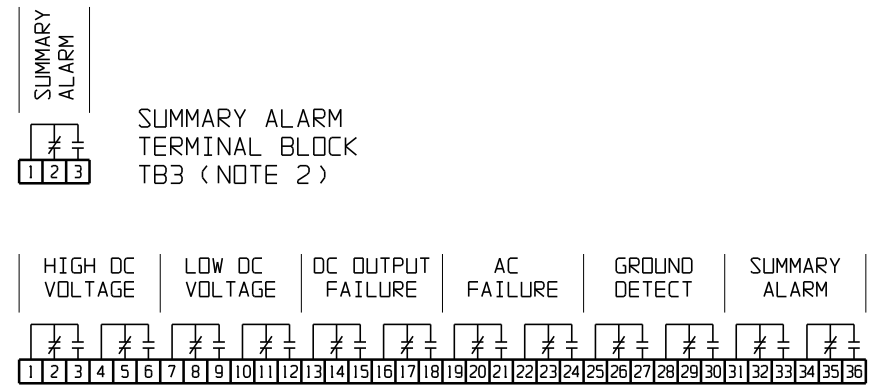


- NOTES:**
- 1) FOR COMPONENT DETAILS OF ALL PC BOARDS (A1, A15, A17, etc.) SEE DRAWING JE5091-3#.
  - 2) ALL ALARM CONTACTS SHOWN IN NON-ALARM STATE. CONTACT RATING IS 0.5A @ 125VAC/VDC RESISTIVE.
  - 3) SCRs (Q1-Q6) ARE CONTAINED WITHIN ONE OR MORE MODULES (A16) FOR MOST RATINGS.
  - 4) RESISTORS R4, R6 & R14 FEATURED INTERNALLY ON GATE DRIVE PC BOARD (A15).
  - 5) BALLAST RESISTORS (R3A/R3B) ARE FEATURED EXTERNALLY AS SHOWN FOR 130VDC UNITS.
  - 6) C1, CR1, L2 & R9 ARE ONLY SUPPLIED IN UNITS WITH DC OUTPUT FILTERING.
  - 7) C2 IS ONLY SUPPLIED IN UNITS WITH BATTERY ELIMINATOR DC OUTPUT FILTERING.



STANDARD AT30 COMPONENTS	STANDARD AT30 COMPONENTS	OPTIONAL AT30 COMPONENTS	OPTIONAL AT30 COMPONENTS
A1 MAIN CONTROL PC BOARD (NOTE 1)	R1 MAIN DC SHUNT	A5 AUXILIARY ALARM RELAY PC BOARD (NOTE 1)	DC FILTERING ASSEMBLY (NOTE 6)
A15 THREE PHASE GATE DRIVE PC BOARD (NOTE 1)	R2 CURRENT RATING RESISTOR	TB4 AUXILIARY ALARM TERMINAL BLOCK (NOTE 2)	C1 DC OUTPUT FILTERING CAPACITOR
A16 SCR (Q1-Q6) MODULE (NOTE 3)	R3 POWER SUPPLY BALLAST RESISTOR (NOTE 5)	A10 EXTERNAL TEMPCO COMPENSATION PROBE	CR1 POLARITY DIODE
A17A SCR SNUBBER ASSY PC BOARD (NOTE 1)	R4 EXTERNAL SCALING RESISTOR (+) (NOTE 4)	R13 TEMPCO PROBE (A10) RESISTOR	E13 INDUCTOR INTERCONNECTION POINT
A17B SCR SNUBBER ASSY PC BOARD (NOTE 1)	R6 INTERNAL SCALING RESISTOR (NOTE 4)	T TEMPCO PROBE (A10) THERMISTOR	L2 FILTERING INDUCTOR
A17C SCR SNUBBER ASSY PC BOARD (NOTE 1)	R14 EXTERNAL SCALING RESISTOR (-) (NOTE 4)	A12 COMMUNICATIONS MODULE PC BOARD (NOTE 1)	R9 FILTER CAPACITOR (C1) BLEED RESISTOR
C4 DC OUTPUT EMI FILTER CAPACITOR (-) TO GROUND	T1 POWER ISOLATION TRANSFORMER		C2 BATTERY ELIMINATOR FILTER CAP (NOTE 7)
C5 DC OUTPUT EMI FILTER CAPACITOR (+) TO GROUND	TB1 INPUT/OUTPUT TERMINAL BLOCK		VR3 AC INPUT LIGHTING ARRESTOR
CB1 AC INPUT CIRCUIT BREAKER	TB3 SUMMARY ALARM TERMINAL BLOCK (NOTE 2)		R28 THERMOSTAT (S2) SENSING RESISTOR
CB2 DC OUTPUT CIRCUIT BREAKER	TB8 OPTIONAL TEMPCO PROBE (A10) INTERCONNECTOR		S2 SCR MODULE THERMOSTAT(S) (PART OF A16)
CR4 FREE-WHEELING DIODE	VR1 DC OUTPUT SURGE SUPPRESSOR (-) TO (+)		B2 SCR MODULE (Q1-Q6) COOLING FAN (PART OF A16)
L1 MAIN INDUCTOR	VR2 AC INPUT SURGE SUPPRESSOR (LINE 1)		
Q1 SILICON-CONTROLLED RECTIFIER (A16A) (NOTE 3)	VR4 AC INPUT SURGE SUPPRESSOR (LINE 2)		
Q2 SILICON-CONTROLLED RECTIFIER (A16A) (NOTE 3)	VR5 AC INPUT SURGE SUPPRESSOR (LINE 3)		
Q3 SILICON-CONTROLLED RECTIFIER (A16B) (NOTE 3)	VR6 DC OUTPUT SURGE SUPPRESSOR (-) TO GROUND		
Q4 SILICON-CONTROLLED RECTIFIER (A16B) (NOTE 3)	VR7 DC OUTPUT SURGE SUPPRESSOR (+) TO GROUND		
Q5 SILICON-CONTROLLED RECTIFIER (A16C) (NOTE 3)			
Q6 SILICON-CONTROLLED RECTIFIER (A16C) (NOTE 3)			

- SPECIAL NOTES:**
- 1) SCR MODULE THERMOSTAT (S2) AND SENSING RESISTOR (R28) ARE ONLY SUPPLIED WITH AT30 UNITS HOUSED IN ENCLOSURE STYLES 5030, 163 AND 198.
  - 2) SCR MODULE FAN (B2) AND TRANSFORMER WINDING TAPS (T1-Z1/Z2) ARE ONLY SUPPLIED WITH AT30 UNITS RATED 400 ADC OR HIGHER.

THIRD ANGLE PROJECTION		DRAWN BY MCR 061706		TITLE AT30 BATTERY CHARGER MAINFRAME SCHEMATIC: WITH COMMON OPTIONS	
APPROVED				DRAWING No JE5092-99 REV 0 B	
0	20211	061706		SCALE NTS PART No JE5092-99 SHEET 1 OF 1	
REV	ECN No	DATE	APP	UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:	