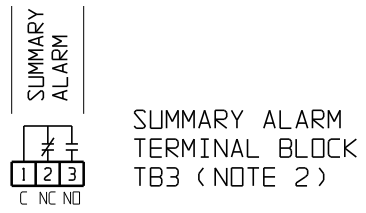


- NOTES:**
- 1) FOR COMPONENT DETAILS OF ALL PC BOARDS (A1, A15, A17, etc.) SEE DRAWING JE5091-3#.
  - 2) ALL ALARM CONTACTS SHOWN IN NON-ALARM STATE. CONTACT RATING IS 0.5A @ 125VAC/VDC RESISTIVE.
  - 3) SIX (6) SCRs (Q1-Q6) ARE CONTAINED WITHIN ONE MODULE (A16), PRODUCING 6-PULSE RECTIFICATION.
  - 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.



STANDARD AT30 COMPONENTS

A1	MAIN CONTROL PC BOARD	(NOTE 1)
A15	THREE PHASE GATE DRIVE 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	
CB2	DC OUTPUT 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	
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	
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	

OPTIONAL AT30 COMPONENTS

J3	(01-14)	
J17		
J27		
J28		
S2		

OPTIONAL AT30 COMPONENTS

R28	THERMOSTAT (S2) SENSING RESISTOR	
S2	SCR MODULE THERMOSTAT(S)	(PART OF A16)
B2	SCR MODULE (Q1-Q6) COOLING FAN	(PART OF A16)

- 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				<b>CYBEREX</b> Thomas & Betts Power Solutions	
DRAWN BY MCR		051706		TITLE AT30 BATTERY CHARGER MAINFRAME SCHEMATIC: STANDARD W/O OPTIONS	
APPROVED MCT		051706		DRAWING No JE5092-00	
1	20530	013007		REV 1	<b>B</b>
0	20211	051706	MCT	UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:	
REV	ECN No	DATE	APP	SCALE NTS	PART No JE5092-00
				SHEET 1 OF 1	