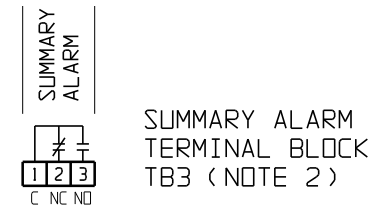


- NOTES:**
- 1) FOR COMPONENT DETAILS OF ALL PC BOARDS (A1, A15, A17, etc.) SEE DRAWING JE5091-3#.
 - 2) ALL ALARM CONTACTS SHOWN IN NON-ALARM STATE. CONTACT RATING IS 0.5A @ 125VAC/VDC RESISTIVE.
 - 3) SIX (6) SCRs (Q1-Q6) ARE CONTAINED WITHIN ONE MODULE (A16), PRODUCING 6-PULSE RECTIFICATION.
 - 4) 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)
TBB	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	OPTIONAL TEMP/CO PROBE (A10) INTERCONNECTOR	
J17	OPTIONAL TEMP/CO PROBE (A10) INTERCONNECTOR	
J27	OPTIONAL TEMP/CO PROBE (A10) INTERCONNECTOR	
J28	OPTIONAL TEMP/CO PROBE (A10) INTERCONNECTOR	
S2	SCR MODULE THERMOSTAT(S)	(PART OF A16)
B2	SCR MODULE (Q1-Q6) COOLING FAN	(PART OF A16)

OPTIONAL AT30 COMPONENTS

R28	THERMOSTAT (S2) SENSING RESISTOR	
R3A	POWER SUPPLY BALLAST RESISTOR	(NOTE 5)
R3B	POWER SUPPLY BALLAST RESISTOR	(NOTE 5)

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