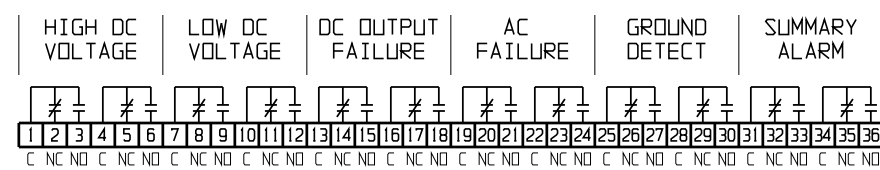


- NOTES:
- FOR PHYSICAL COMPONENT FEATURES OF PC BOARDS (A1, A5, A11, etc.) SEE DRAWING JE5030-##.
 - ALL ALARM CONTACTS SHOWN IN NON-ALARM STATE, WITH CHARGER ENERGIZED AND ALARM RELAYS ENERGIZED (FAIL SAFE). ALL ALARM CONTACTS WILL CHANGE STATE WHEN CHARGER IS POWERED DOWN. CONTACT RATING IS: 0.5A @ 125VAC/VDC RESISTIVE
 - POWER ISOLATION TRANSFORMER (T1) IS FIELD RE-TAPPABLE SEE D&SI SECTION 1.6 OR JD5026-00 FOR DETAILS.
 - RESISTORS R4, R6 & R14 FEATURED INTERNALLY ON GATE DRIVER PC BOARD (A15).
 - IN 48VDC AND 130VDC UNITS, BALLAST RESISTOR (R3) IS FEATURED EXTERNAL TO MAIN CONTROL CIRCUIT AS SHOWN.
 - SEE D&SI SECTION 1.9 FOR REMOTE SENSE DETAILS.

- NOTES:
- DC OUTPUT (TB1+/-) IS PARALLELED WITH SECOND UNIT OF IDENTICAL RATING. A1-J4 IS INTERCONNECTED WITH SECOND UNIT FOR OUTPUT CONTROL. FOR FORCED LOAD SHARING DETAILS, SEE DRAWING JE5154-00.



AUXILIARY ALARM TERMINAL BLOCK TB4 (NOTE 2)

SUMMARY ALARM TERMINAL BLOCK TB3 (NOTE 2)

(NOTE 8)

STANDARD AT10.1 COMPONENTS:

A1	MAIN CONTROL PC BOARD	(NOTE 1)
A11	SINGLE PHASE 100A GATE DRIVER PCB	(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 (SCR) MODULE	
Q2	SILICON-CONTROLLED RECTIFIER (SCR) MODULE	

STANDARD AT10.1 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 TEMPCO PROBE (A10) INTERCONNECTOR	
VR1	DC OUTPUT SURGE SUPPRESSOR (-) TO (+)	
VR2	AC INPUT SURGE SUPPRESSOR (L1-L2)	
VR4	AC INPUT SURGE SUPPRESSOR (L1-GND)	
VR5	AC INPUT SURGE SUPPRESSOR (L2-GND)	
VR6	DC OUTPUT SURGE SUPPRESSOR (-) TO GROUND	
VR7	DC OUTPUT SURGE SUPPRESSOR (+) TO GROUND	
W1	POSITIVE(+) DC BUS BAR	
W2	NEGATIVE(-) DC BUS BAR	

SUPPLIED AT10.1 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
C2	BATTERY ELIMINATOR FILTER CAPACITOR
F1A	AC INPUT FUSE (LINE 1)
F1B	AC INPUT FUSE (LINE 2)
F3	DC OUTPUT FUSE (+)
F4	DC OUTPUT FUSE (-)
VR3	AC INPUT LIGHTNING ARRESTOR
N/A	FORCED LOAD SHARING FEATURE (NOTE 8)

SUPPLIED AT10.1 OPTION COMPONENTS:

A5	AUXILIARY ALARM RELAY PC BOARD	(NOTE 1)
TB4	AUXILIARY ALARM (A5) TERMINAL BLOCK	(NOTE 2)
A10	EXTERNAL TEMPERATURE COMPENSATION PROBE	
R13	TEMPCO PROBE (A10) RESISTOR	SEE
T	TEMPCO PROBE (A10) THERMISTOR	JD5003-00
A12	COMMUNICATIONS MODULE PC BOARD	(NOTE 1)

3	-N/A-	081721	THIRD ANGLE PROJECTION
2	E2141	091305	
1	E1203	040703	ELECTRONIC APPROVAL SIGNATURES MAINTAINED BY MFG ECN LOG
0	E1142	022003	
REV	ECN No	DATE	UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:

TITLE AT10.1 SERIES BATTERY CHARGER SCHEMATIC: 30-100 Adc (GROUP II - W/COMMON OPTIONS)			
DRAWING No		JE5032-99	REV 3
SCALE	NTS	PART No	JE5032-99
SHEET		1	OF 1