


BY	REVISION DESCRIPTION	DATE	REV	BY	DATE	REV	DESCRIPTION
				RET			Item 5 to Expando, +G10, + I6, +I8
				RET			Added jumper 203A to bundle
1	01/28/05						
2	10/03/06						

G00 QTY	ITEM	PART No.	DESCRIPTION
21	1	18054-P00	CONN., MALE PIN
2	2	18053-P00	CONN., MALE PIN .187 16-18 GA. SOLID
23	3	18065-P00	CONN., FEMALE FLAG .187 16-18 GA.
1	4	18045-P00	AMP CONN. HOUSING
610mm	5	18072-P10	3/4" Expando
2	6	716818-C00	POSITRONICS, MALE PIN
22724mm	7	703419-A41	WIRE, 18GA
1	8	19938-P00	POSITRONICS 4 PIN CONNECTOR

PLUG PIN REF.	WIRE# (AM)	TERMINAL 1	TERMINAL 2	LENGTH	AUX. SWITCH	FUNCTION (AM)
1-1	5	18065-P00	18053-P00	928		+ CTRL. PWR.
1-2	102	18065-P00	18054-P00	928		+ READY
1-3	103	18065-P00	18053-P00	928		- CTRL. PWR.
1-4	7	18065-P00	18054-P00	1078		+ CLOSE
1-5	6	716818-C00	18054-P00	102		CLOSE BLOCK
1-6	9	18065-P00	18054-P00	915		+ TRIP
1-7	10	18065-P00	18054-P00	1078		- TRIP
1-8	15	18065-P00	18054-P00	915	+ a1	+ a1
1-9	16	18065-P00	18054-P00	915	- a1	- a1
1-10	51	18065-P00	18054-P00	902	+ a2	+ a2
1-11	52	18065-P00	18054-P00	902	- a2	- a2
1-12	55	18065-P00	18054-P00	915	+a3	+a3
1-13	56	18065-P00	18054-P00	915	- a3	- a3
1-14	59	18065-P00	18054-P00	915	+a4	+a4
1-15	60	18065-P00	18054-P00	915	- a4	- a4
1-16	13	18065-P00	18054-P00	940	+ b1	+ b1
1-17	14	18065-P00	18054-P00	940	- b1	- b1
1-18	53	18065-P00	18054-P00	953	+ b2	+ b2
1-19	54	18065-P00	18054-P00	953	- b2	- b2
1-20	57	18065-P00	18054-P00	940	+ b3	+ b3
1-21	58	18065-P00	18054-P00	940	- b3	- b3
1-22	61	18065-P00	18054-P00	953	+ b4	+ b4
1-23	62	18065-P00	18054-P00	953	- b4	- b4
1-24	OPEN					
1-25	OPEN					
	200	18065-P00	tinned	381		
	206	18065-P00	tinned	381		
	6A	18065-P00	716818-C00	1080		- CLOSE
	203A	18065-P00	tinned	267		33LSa

(G00) STANDARD ADVAC EU. WIRE BUNDLE  
 MARK WIRES ON BOTH ENDS.

DIMENSIONS ARE IN MILLIMETERS

REF	ADVAC EU	REV	2	TITLE	STANDARD, WIRE BUNDLE																	
	18082, 18081																					
	CREATED FROM 18013	DATE DRN	12/19/02	DATE REL	4/4/03	DWG NO.																
		DRN	GRC	CKD	APP'D	18083																
				PRT	PRT	SHEET 1 OF 2																
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DIMENSIONS IN MILLIMETERS GENERAL TOLERANCE UNLESS OTHERWISE SPECIFIED THE FOLLOWING TOLERANCES ARE APPLICABLE <table border="1"> <tr> <th>LINEAR</th> <th>OVER TO</th> <th>0.5</th> <th>6</th> <th>30</th> <th>120</th> <th>315</th> <th>1000</th> </tr> <tr> <td>TOL</td> <td>±</td> <td>0.1</td> <td>0.2</td> <td>0.3</td> <td>0.5</td> <td>0.8</td> <td>1.2</td> </tr> </table>			LINEAR	OVER TO	0.5	6	30	120	315	1000	TOL	±	0.1	0.2	0.3	0.5	0.8	1.2	NEXT ASSY NEXT ASSY			
LINEAR	OVER TO	0.5	6	30	120	315	1000															
TOL	±	0.1	0.2	0.3	0.5	0.8	1.2															
ANGULAR <table border="1"> <tr> <th>LENGTH (100°)</th> <th>OVER TO</th> <th>0</th> <th>10</th> <th>50</th> <th>120</th> <th>400</th> </tr> <tr> <td>TOL</td> <td>±</td> <td>1°</td> <td>0'30'</td> <td>0'20'</td> <td>0'10'</td> <td></td> </tr> </table>			LENGTH (100°)	OVER TO	0	10	50	120	400	TOL	±	1°	0'30'	0'20'	0'10'		ECN No. 6360					
LENGTH (100°)	OVER TO	0	10	50	120	400																
TOL	±	1°	0'30'	0'20'	0'10'																	
					ABB Inc. FLORENCE, S.C., U.S.A.																	

REV	DATE	REVISION DESCRIPTION	BY	DATE	REVISION DESCRIPTION	BY
1	01/28/05	[6590] Item 5 to Expando, +G10, + I6, +I8	RET			
2	10/03/06	[8413] Added jumper 203A to bundle	RET			

G00 QTY	ITEM	PART No.	DESCRIPTION
21	1	18054-P00	CONN., MALE PIN
2	2	18053-P00	CONN., MALE PIN .187 16-18 GA. SOLID
23	3	18065-P00	CONN., FEMALE FLAG .187 16-18 GA.
1	4	18045-P00	AMP CONN. HOUSING
610mm	5	18072-P10	3/4" Expando
4	6	716818-C00	POSITRONICS, MALE PIN
22724mm	7	703419-A41	WIRE, 18GA
1	8	19938-P00	POSITRONICS 4 PIN CONNECTOR

PLUG PIN REF.	WIRE# (AM)	TERMINAL 1	TERMINAL 2	LENGTH	AUX. SWITCH	FUNCTION (AM)
1-1	5	18065-P00	18053-P00	928		+ CTRL. PWR.
1-2	102	18065-P00	18054-P00	928		+ READY
1-3	103	18065-P00	18053-P00	928		- CTRL. PWR.
1-4	7	18065-P00	18054-P00	1078		+ CLOSE
1-5	6	716818-C00	18054-P00	102		CLOSE BLOCK
1-6	9	18065-P00	18054-P00	915		+ TRIP
1-7	10	18065-P00	18054-P00	1078		- TRIP
1-8	15	18065-P00	18054-P00	915	+ a1	+ a1
1-9	16	18065-P00	18054-P00	915	- a1	- a1
1-10	51	18065-P00	18054-P00	902	+ a2	+ a2
1-11	52	18065-P00	18054-P00	902	- a2	- a2
1-12	55	18065-P00	18054-P00	915	+a3	+a3
1-13	56	18065-P00	18054-P00	915	- a3	- a3
1-14	59	18065-P00	18054-P00	915	+a4	+a4
1-15	60	18065-P00	18054-P00	915	- a4	- a4
1-16	13	716818-C00	18054-P00	102		PIN MONITOR
1-17	14	18065-P00	18054-P00	940	- b1	- b1
1-18	53	18065-P00	18054-P00	953	+ b2	+ b2
1-19	54	18065-P00	18054-P00	953	- b2	- b2
1-20	57	18065-P00	18054-P00	940	+ b3	+ b3
1-21	58	18065-P00	18054-P00	940	- b3	- b3
1-22	61	18065-P00	18054-P00	953	+ b4	+ b4
1-23	62	18065-P00	18054-P00	953	- b4	- b4
1-24	OPEN					
1-25	OPEN					
	200	18065-P00	tinned	381		
	206	18065-P00	tinned	381		
	6A	18065-P00	716818-C00	1080		- CLOSE
	13A	18065-P00	716818-C00	1080		+ b
	203A	18065-P00	tinned	267		33LSa

DIMENSIONS ARE IN MILLIMETERS

REF ADVAC EU 18082, 18081 CREATED FROM 18013	REV 2	TITLE STANDARD, WIRE BUNDLE
DATE DRN 12/19/02	DATE REL 4/4/03	DWG NO. 18083
DRN GRC	CKD PRT	APP'D PRT
NEXT ASSY		SHEET 2 OF 2
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ECN No. 6360		ABB Inc. FLORENCE, S.C., U.S.A.

DIMENSIONS IN MILLIMETERS

GENERAL TOLERANCE UNLESS OTHERWISE SPECIFIED THE FOLLOWING TOLERANCES ARE APPLICABLE

LINEAR	OVER TO	0.5	6	30	120	120	315	1000	2000
TOL	±	0.1	0.2	0.3	0.5	0.8	1.2		

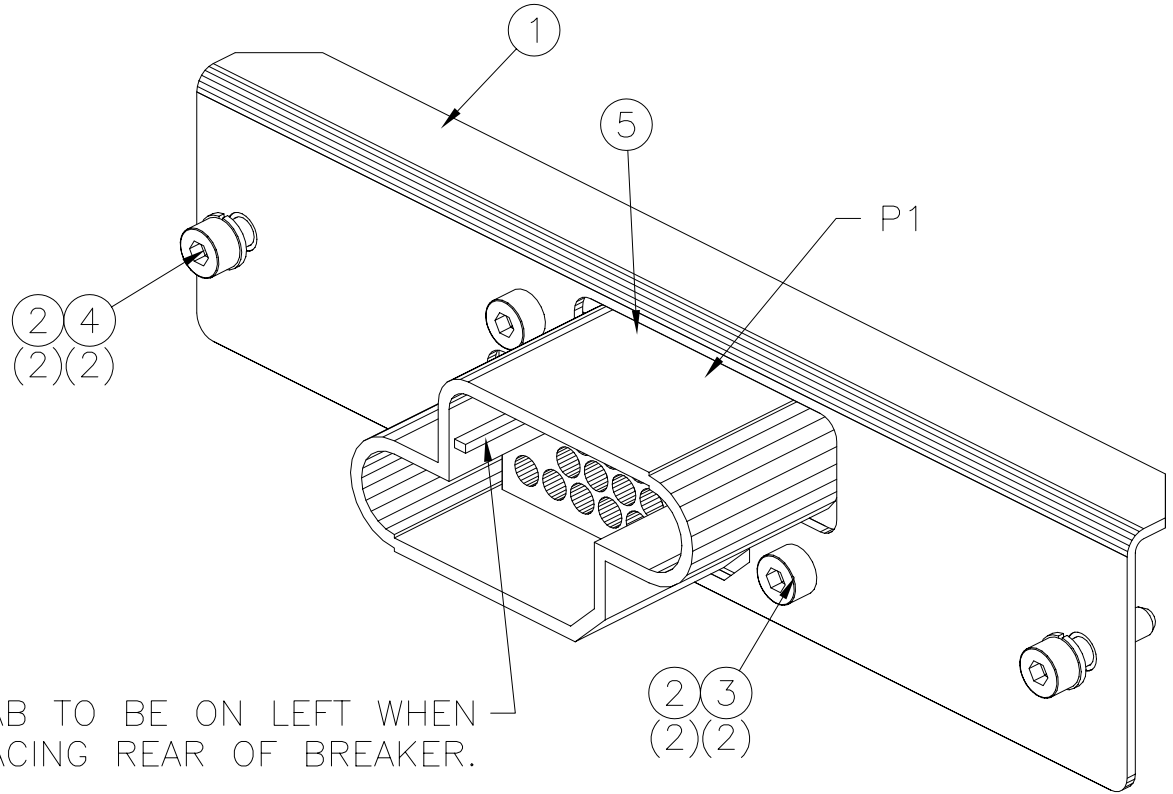
ANGULAR

LENGTH (180°)	OVER TO	0	10	50	120	400
TOL	±	1°	0'30"	0'20"	0'10"	

(G10) STANDARD ADVAC EU. WIRE BUNDLE WITH PIN MONITOR  
 MARK WIRES ON BOTH ENDS.

BY		REVISION DESCRIPTION	DATE	REV	DATE	BY	DATE	REVISION DESCRIPTION
						MKJ		
REV	DATE	REVISION DESCRIPTION	DATE	REV	DATE	BY	DATE	REVISION DESCRIPTION
1	5-7-03	[6369] +L5.						

G00 QTY	ITEM	PART No.	DESCRIPTION
1	1	18057-G00	SEC. PLATE ASSY
4	2	16905-P00	SHCS M4x.7/16
2	3	16960-P00	NILN M4x.7
2	4	16972-P00	LOCKWASHER M4
1	5	18083-G00	STANDARD WIRE BUNDLE




**G00** STANDARD BOM WIRING (EU)

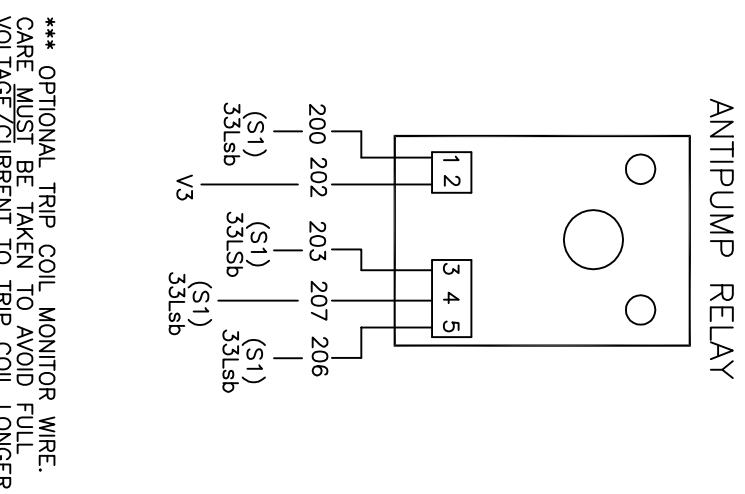
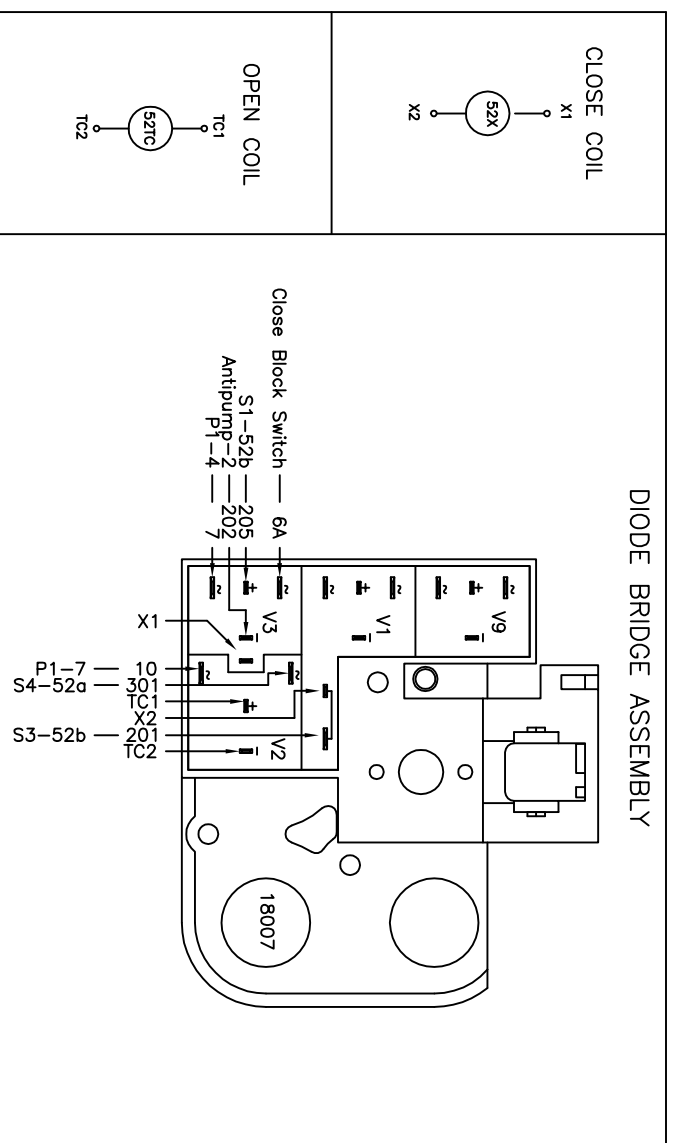
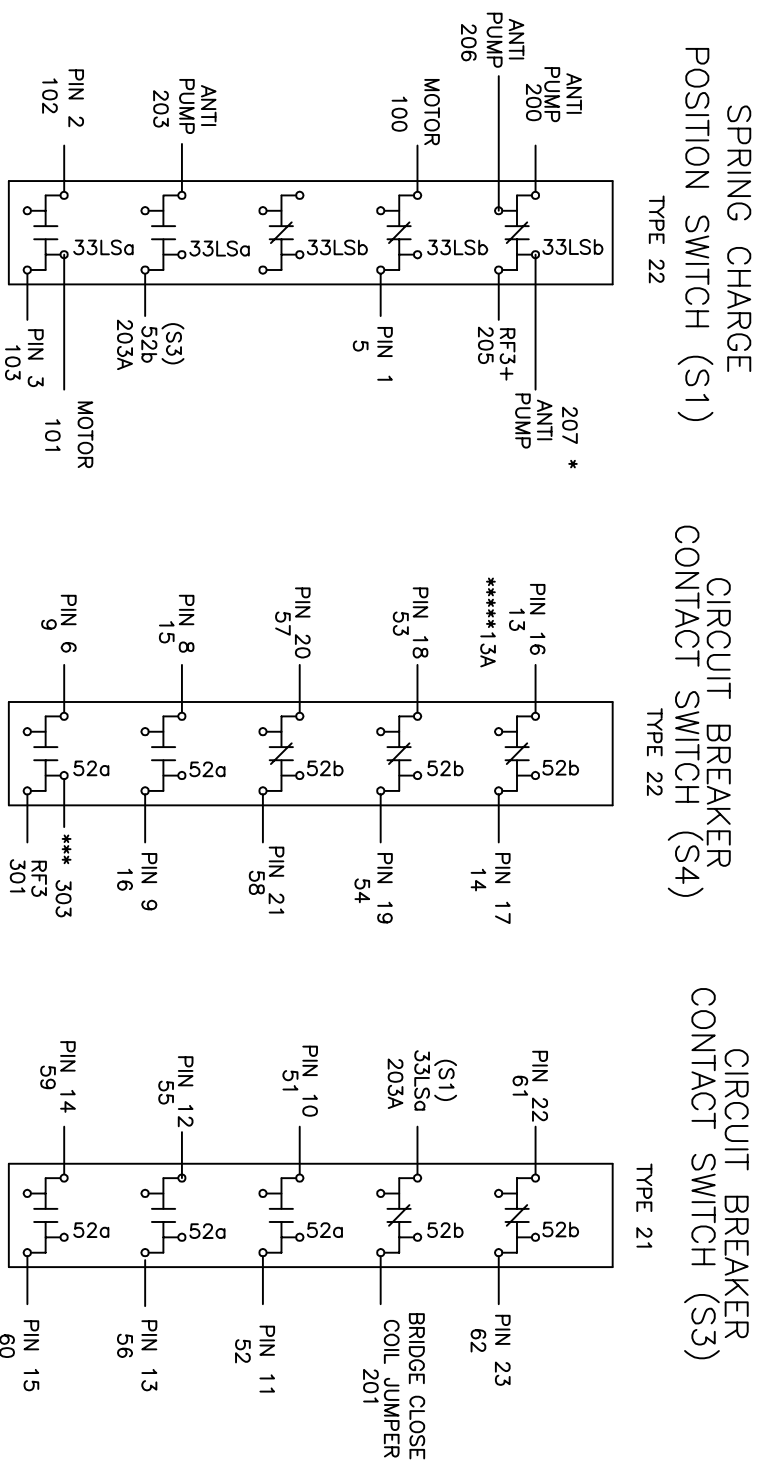
DIMENSIONS ARE IN MILLIMETERS

DIMENSIONS IN MILLIMETERS							
GENERAL TOLERANCE UNLESS OTHERWISE SPECIFIED THE FOLLOWING TOLERANCES ARE APPLICABLE							
LINEAR	OVER TO	0.5	8	30	120	315	1000
TOL	±	0.1	0.2	0.3	0.5	0.8	1.2

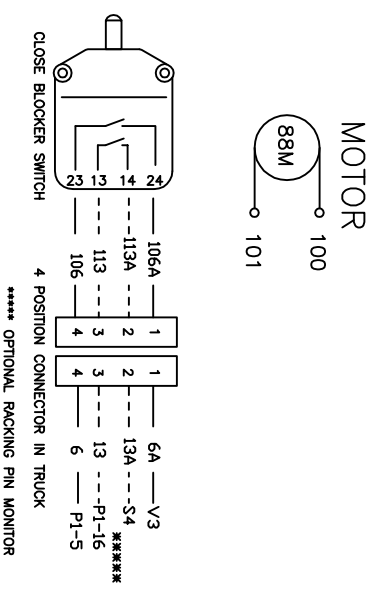
  

ANGULAR						
LENGTH (SHORT)	OVER TO	0	10	50	120	400
TOL	±	1'	0'30"	0'20"	0'10"	

REF	ADVAC (EU)	REV	1	TITLE	STANDARD BOM WIRING		
DATE DRN	4-4-03	DATE REL	4-4-03	DWG NO.	18090		SHEET
DRN	MKJ	CKD	PRT	APP'D	PRT		1 OF 1
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ECN No. 6360				 ABB Inc. FLORENCE, S.C., U.S.A.			



\*\*\* OPTIONAL TRIP COIL MONITOR WIRE. CARE MUST BE TAKEN TO AVOID FULL VOLTAGE/CURRENT TO TRIP COIL LONGER THAN PULSE DURATION.



PIN #	WIRE LOCATION	FUNCTION
1	5	+ CTRL. PWR.
2	102	Spring Monitor
3	103	- CTRL. PWR.
4	7	CLOSE
5	6	CLOSE
6	9	+ TRIP
7	10	- TRIP
8	15	+ a1
9	16	- a1
10	51	+ a2
11	52	- a2
12	55	+ a3
13	56	- a3
14	59	+ a4
15	60	- a4
16	13	+ b1
17	14	- b1
18	53	+ b2
19	54	- b2
20	57	+ b3
21	58	- b3
22	61	+ b4
23	62	- b4
24	303	trip coil mon.
25	OPEN	

Plug 1 - P1

F10 STANDARD ADVAC EU. POINT TO POINT W.D.

REV	DATE	REVISION DESCRIPTION	BY	REV	DATE	REVISION DESCRIPTION
1	11/04/04	[6572] + Close Block Sw, rectifier/antipump	RET			
2	09/19/05	[8002] + wire 303 on P1-24 & S4, MONITOR now Spring Monitor on P1-2	RET			
3	09/19/05	[8401] + sheet 2, +33LSb	RET			
4	09/25/08	CORRECTED SECONDARY RECEPTACLE DETAIL	JLH			

REV	DATE	REVISION DESCRIPTION	BY	REV	DATE	REVISION DESCRIPTION
1						
2						
3						
4						

REF	ADVAC EU
CREATED FROM	18011
DATE DRN	12/19/02
DATE REL	
DWG NO.	18082
REV	4
ECN No.	6360

REV	4	TITLE	STANDARD ADVAC EU POINT TO POINT W.D.
DATE DRN	12/19/02	DATE REL	
DWG NO.	18082	SHEET	2 of 2
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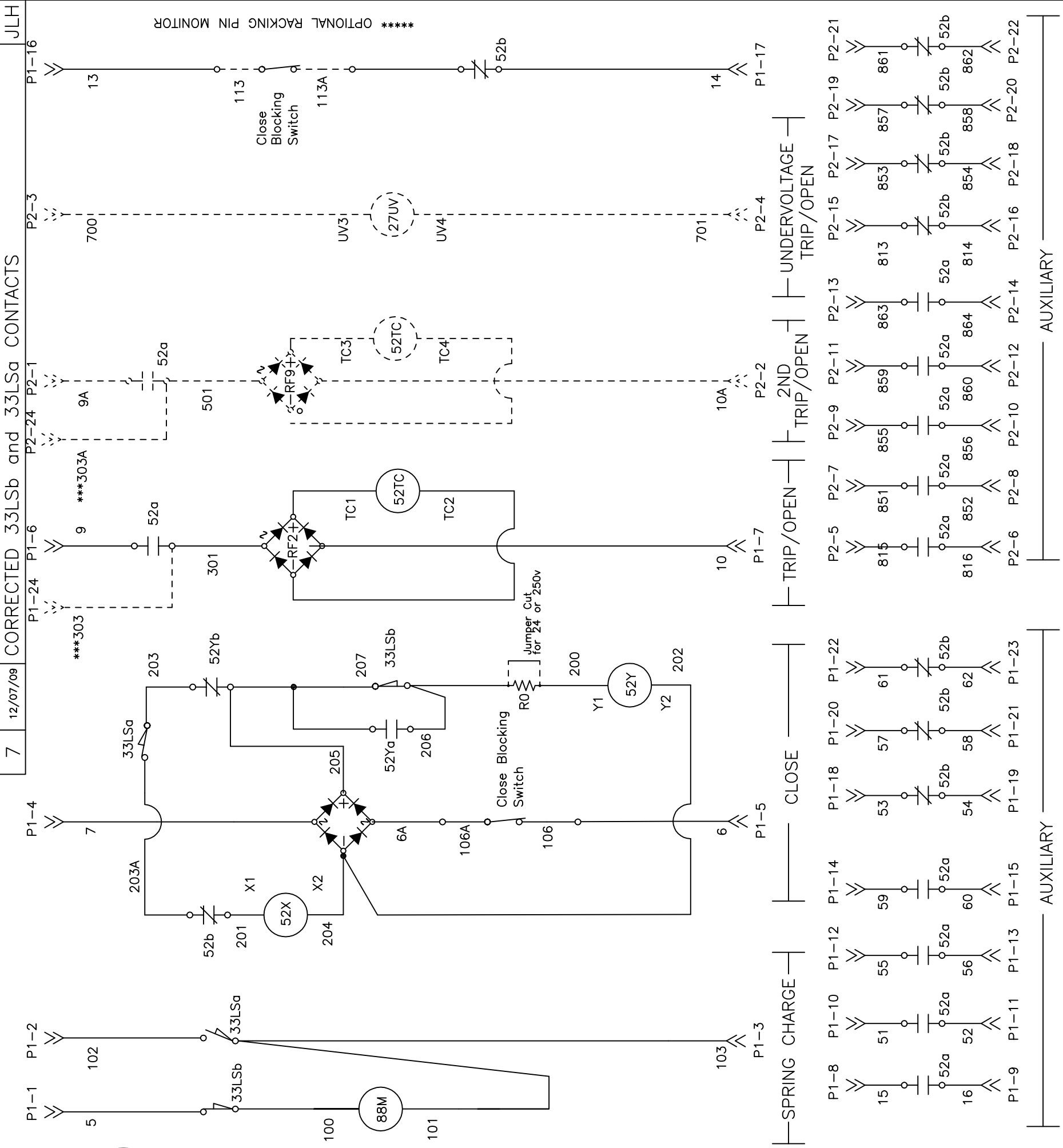
DIMENSIONS ARE IN MILLIMETERS

Xref C:\ADVAC\SEC BLOCK.dwg

DIMENSIONS IN MILLIMETERS

GENERAL TOLERANCE UNLESS OTHERWISE SPECIFIED THE FOLLOWING TOLERANCES ARE APPLICABLE	ANGULAR
LINEAR OVER 30 0.3	0 10 50 120 400
TO 30 0.2	10 50 120 2000
± 0.1	0.2 0.3 0.5 0.8 1.2

REV	DATE	BY	REV	DATE	REVISION DESCRIPTION	BY
1	4/29/03	PRT	4	09/27/06	[6369] + optional and second trip coil monitor wires.	RET
2	11/04/04	RET	5	09/24/08	[6572] + close blocking switch, opt Pin Monitor	
3	09/19/05	RET	6	10/19/08	[8002] + Secondary Disconnect Identifiers, 503 now 303A	JLH
			7	12/07/09	CORRECTED 33LSb and 33LSa CONTACTS	JLH



**(N10) OPTIONAL ADVAC EU. SCHEMATIC W.D.**  
 Breaker shown in OPEN & CHARGED condition

DIMENSIONS ARE IN MILLIMETERS

\*\*\* OPTIONAL TRIP COIL MONITOR WIRE. CARE MUST BE TAKEN TO AVOID FULL VOLTAGE/CURRENT TO TRIP COIL LONGER THAN PULSE DURATION.

DIMENSIONS IN MILLIMETERS						
GENERAL TOLERANCE UNLESS OTHERWISE SPECIFIED THE FOLLOWING TOLERANCES ARE APPLICABLE						
LINEAR	OVER TO	0.5	6	30	120	315
TOL	±	0.1	0.2	0.3	0.5	0.8
		1000	2000			
ANGULAR						
LENGTH (SHORT LEG)	OVER TO	0	10	50	120	400
TOL	±	1'	0'30"	0'20"	0'10"	

REF	ADVAC EU.
CREATED FROM	18020
NEXT ASSY	
NEXT ASSY	
ECN No.	6360

REV	7	TITLE	OPTIONAL SCHEMATIC W.D.
DATE DRN	3/15/03	DATE REL	4/4/03
DRN	GRC	CKD	PRT
APP'D	PRT	DWG NO.	18084
			SHEET 2 OF 2

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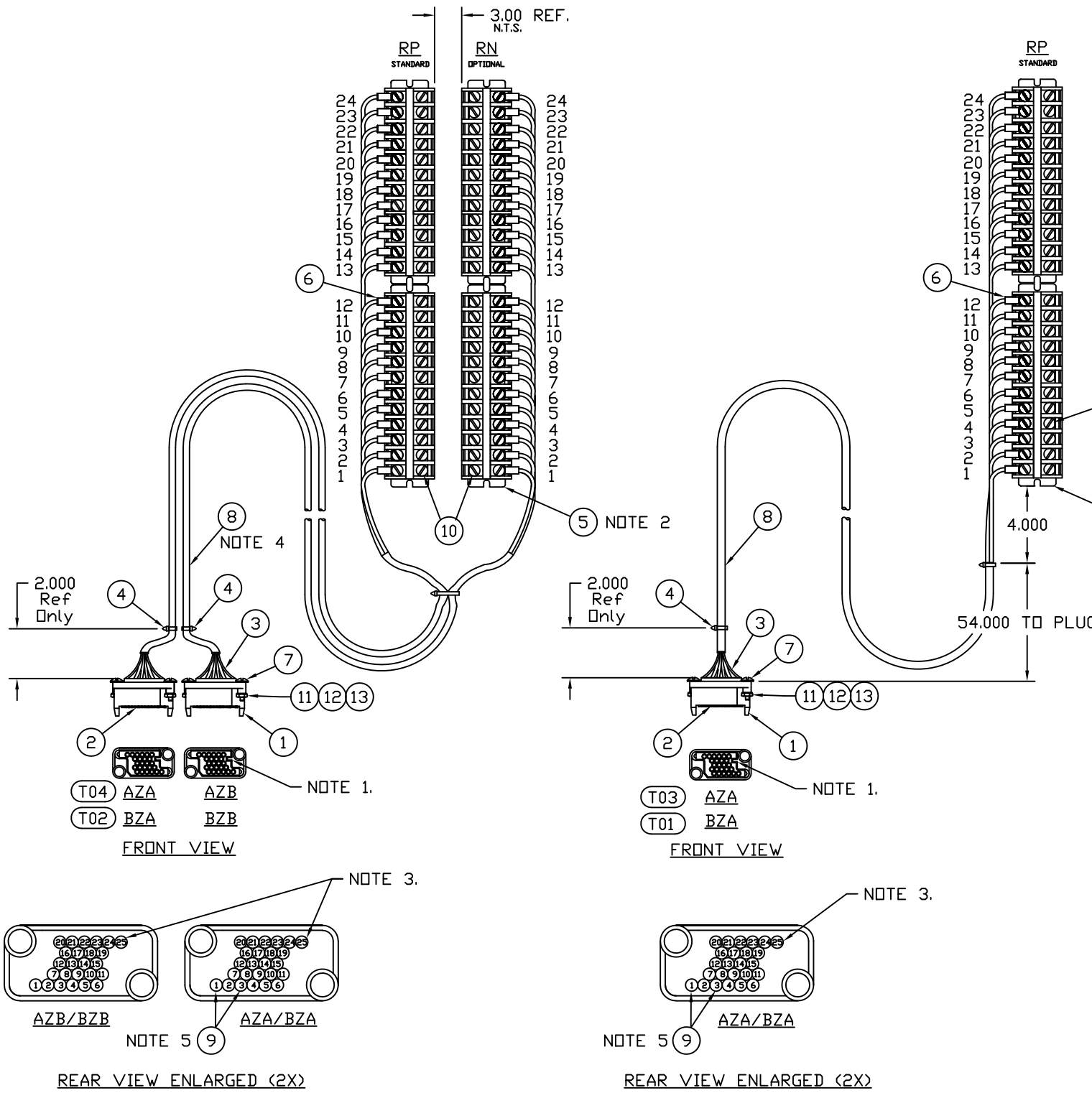


ABB Inc.  
FLORENCE, S.C., U.S.A.

STANDARD TOLERANCE INFO. ON DR. 52016 DIMENSIONS ARE IN INCHES  
TOLERANCES - UNLESS SPECIFIED - ± N/A

REV.	PC. NO.	DRAWING NUMBER	DESCRIPTION	CODE			
2	1	2	1	0001	890563A00	SOCKET HOUSING	
46	22	46	22	0002	890565A00	CRIMP SOCKETS	
48	24	48	24	0003	279040A15	14AWG TYP SIS (90" LENGTH)	
2	2	2	2	0004	279040A23	CABLE TIE MOUNT	
6	3	6	3	0005	NOTE 2	12 PT TERM BLOCK (NOTE 2)	
48	24	48	24	0006	279040J02	INSUL LUG, 16/14 GA, #10 HOLE	
4	2	4	2	0007	890565C00	SPECIAL SHOULDER SCREW 6-32	
12	6	12	6	0008	279040B03	CABLE SLEEVE 1.250ID (QTY=FT)	
2	2	2	2	0009	890565D00	CRIMP SOCKET	
96	48	96	48	0010	888496E00	#10 SHAKEPROOF WASHER	
4	2	4	2	0011	54400B00	#6-32 HEX MACHINE NUT	
4	2	4	2	0012	54500B00	FLATWASHER .156 ID, .375 OD	
4	2	4	2	0013	53103C00	LOCKWASHER #6	

	SECONDARY	BREAKER POSITION
T01	24 PIN	BOTTOM
T02	48 PIN	BOTTOM
T03	24 PIN	TOP
T04	48 PIN	TOP



NOTES:

1. POSITION SOCKET HOUSING SUCH THAT THE REJECTION TAB IS TO THE RIGHT WHEN LOOKING INTO THE CUBICLE.
2. TERMINAL BLOCKS SHOWN FOR REFERENCE ONLY, NOT PROVIDED WITH THIS ASSY. TERMINAL BLOCKS WILL BE CURRENT STANDARD OR CUSTOMER SPECIFIED.
3. DO NOT WIRE OR PLACE A CRIMP SOCKET IN POSITION 25.
4. FOR T02, CUT PC.8 INTO TWO 6 FT LENGTHS.
5. PC.#9 REQUIRED ON POSITIONS 1 & 3 ONLY.

SECONDARY WIRING HARNESS  
ADVAC BREAKER

**ABB** Power T & D Company Inc.  
Distribution Systems Division

931685 11

SIZE C SHT 01 CONT. DN - REV.

BY: JSRennie DATE: 4-26-95  
CHD: RKarnbach DATE: 4-26-95  
APP: BBook DATE: 4-26-95

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NO.	REVISIONS	BY & DATE	CHD.	APP.
11	PC. 5, 12 PT block was 8	RSK 2/8/08	AL 2/8/08	HK 2/8/08
10	PC. 5, - Part No. & + Note 2. (M-3115)	AL 2/28/06	RSK 2/28/06	TPM 2/28/06
9	PC. 5 WAS 826179D00	RSK 2/7/06	AL 2/7/06	TH 2/7/06
8	+ PC. 5 & 10 to T01-T04, - Note #2.	GG 5/12/05	RK 5/12/05	TH 5/12/05
7	T01 & T03 - QTY. PC. #2 WAS 21, T02 & T04 - QTY. PC. #2 WAS 45, QTY. PC #9 WAS 3, - PC. #5	RSK 6/13/01	DE 6/13/01	TPM 6/13/01

DWG. NO. 931685