

A01 SCHEMATIC WIRING DIAGRAM - STANDARD

ADVANCE

AMVAC MOD3 WIRING DIAGRAM  
27KV - 1200 AND 2000AMP / SINGLE SECONDARY

**ABB Inc. Power Technology Medium Voltage**

9622961

1

REV'D NO & NC DESIGNATIONS	REV'D DATE	BY	CHKD. DATE	APP. DATE	REV'D NO & NC DESIGNATIONS	REV'D DATE	BY	CHKD. DATE	APP. DATE
1									

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DATE: 9/08/08 BY: J.L.H. CHD: A.L. DATE: 9/09/08

DATE: 9/09/08 BY: TT SHIP ORDER: 1

DATE: 9/09/08

**NOTES:**  
All contacts are shown with the breaker in the OPEN POSITION & READY unless otherwise specified.

\* Coil Monitoring Devices cannot be used and will be recognized as a Close or Open Signal.

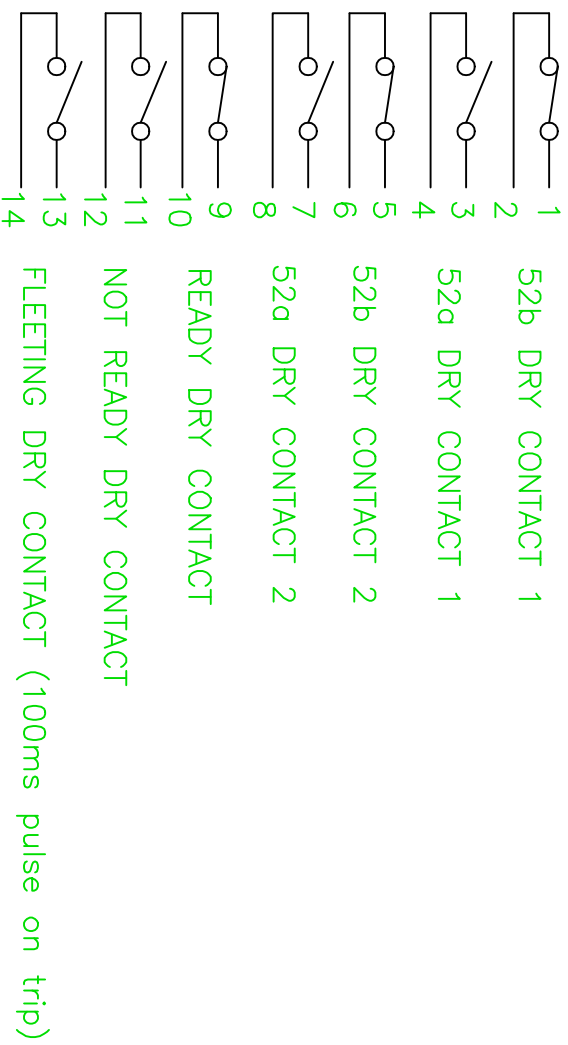
\*\* READY Contact is CLOSED when the breaker is ready for operation. "READY" monitors control power, capacitor voltage, Close & Open Coils & UP Watchdog.

## AMVAC CONTROL BOARD PIN FUNCTIONS

### KM1001 PROXIMITY SENSORS

- 1 ON SENSOR (dc-)
- 2 OFF SENSOR (dc-)
- 3 ON SENSOR (dc+)
- 4 OFF SENSOR (dc+)
- 5 ON SENSOR (SIGNAL)
- 6 OFF SENSOR (SIGNAL)

### KM1004 ON BOARD AUX SWITCHES



### KM1005 BREAKER CONTROL

- 1 CLOSE (+)
- 2 CLOSE (-)
- 3 OPEN (+)
- 4 OPEN (-)
- 5 AUX OPEN (+)
- 6 AUX OPEN (-)
- 7 NOT USED
- 8 NOT USED
- 9 NOT USED
- 10 NOT USED
- 11 CLOSE BLOCK (+)
- 12 CLOSE BLOCK (-)
- 13 UNDER VOLTAGE INPUT (+)
- 14 UNDER VOLTAGE INPUT (-)

### KM1002 ACTUATOR / CAPACITORS

- 1 CAP 2 (+)
- 2 CAP 1 (+)
- 3 CAP 2 (-)
- 4 CAP 1 (-)
- 5 CLOSE COIL (+)
- 7 OPEN COIL (+)
- 9 CLOSE COIL (-)
- 11 OPEN COIL (-)

### KM1003 CONTROL POWER - CONTINUOUS

- 2 CONTROL POWER (+)
- 3 CONTROL POWER (-)
- 4 80VDC - 10K (-)
- 5 80VDC - 10K (+)

### KM1007 LOCAL CONTROL (NON-RECONFIGURABLE)

## A01 CONTROL BOARD PIN ASSIGNMENTS

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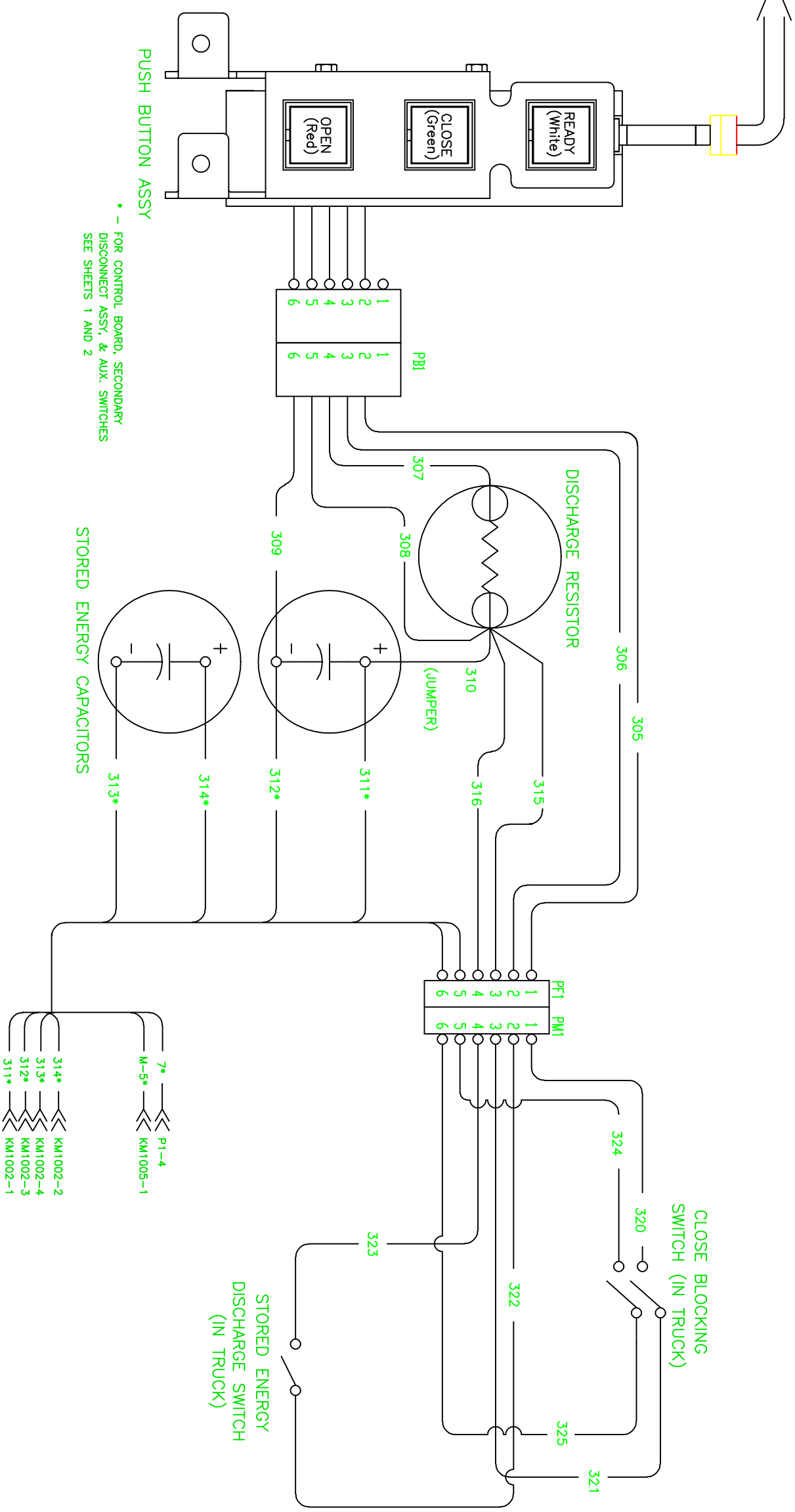
**ABB Inc.**  
 Power Technology  
 Medium Voltage

9622961 0

TYPE	PRD	CLASS	DATE	BY	CHKD	AL	DATE	APP.	TT	SHD	DRDR	REV
A	25	T	19822				9/09/08					0

1 FROM MDS-3/0/08

TO CONTROL BOARD  
 TERMINAL KM1007  
 (SEE P. 1)



\* - FOR CONTROL BOARD, SECONDARY  
 DISCONNECT ASSY, & AUX. SWITCHES  
 SEE SHEETS 1 AND 2

A01 PUSH BUTTON ASSEMBLY

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AMVAC MOD3 WIRING DIAGRAM

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**ABB Inc.** Power Technology  
 Medium Voltage

SIZE D	SHT 04	CDMT DN 05	REV
9622961			0

REV	DATE	BY	CHK	APP	REV	DATE	BY	CHK	APP
1									
2									
3									
4									

8

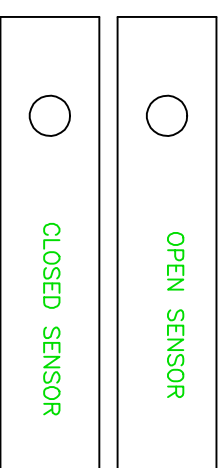
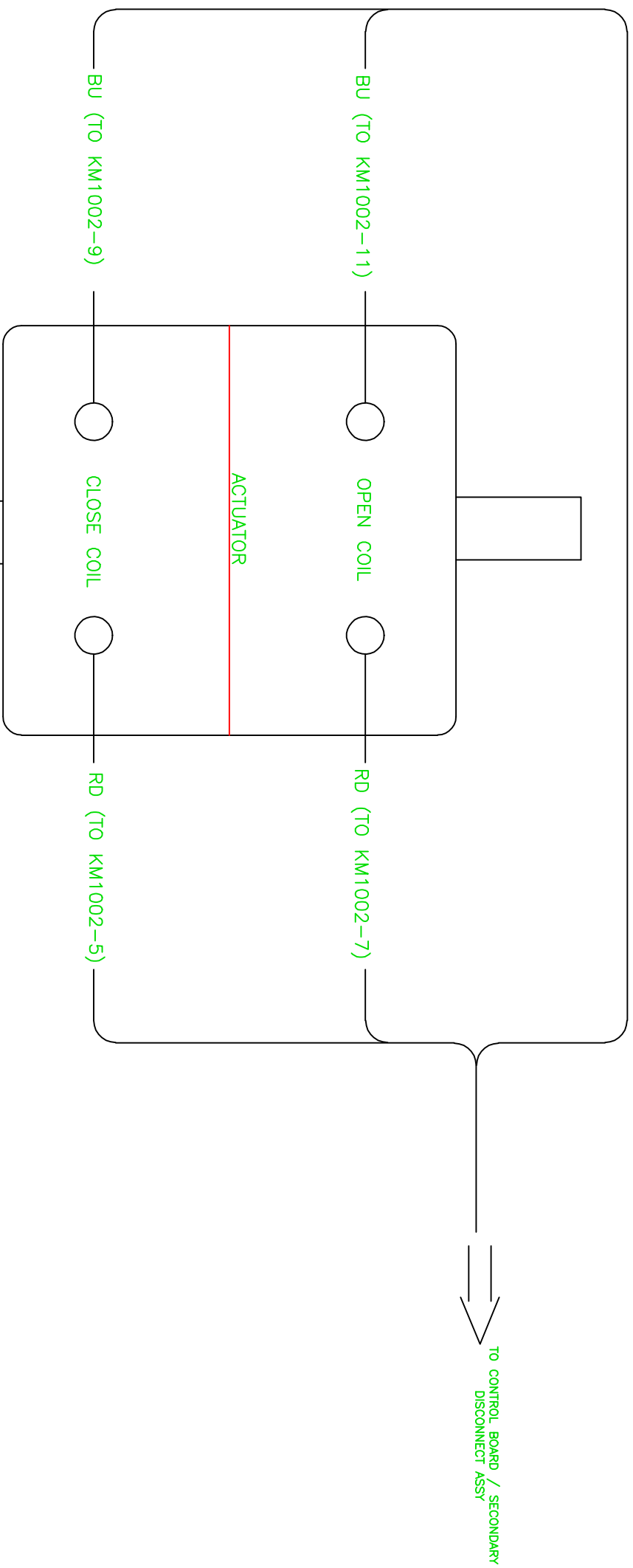
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THIS IS AN AUTOCAD DRAWING - MANUAL CHANGES ARE NOT ALLOWED

3

1



PROXIMITY SWITCHES  
 FOR PROXIMITY ASSEMBLY AND ADJUSTMENTS,  
 SEE DRAWING NUMBER 19825

A01 ACTUATOR / PROX SENSOR DIAGRAM

A

B

C

D

8

7

6

THIS IS AN AUTOCAD DRAWING - MANUAL CHANGES ARE NOT ALLOWED

3

2

A

B

C

D

AMVAC MOD3 WIRING DIAGRAM  
 27KV - 1200 AND 2000AMP / SINGLE SECONDARY

**ABB Inc.**  
 Power Technology  
 Medium Voltage

SIZE D	SHT 05	CDMT DN -	REV
962961			0
APP	TT	SHOP ORDER	
DATE	9/09/08		
CHD	AL		
DATE	9/09/08		
BY	JLH		
DATE	9/08/08		
TYPE	PREDD	CLASS	T
19822	A	25	

THIS IS AN AUTOCAD DRAWING - MANUAL CHANGES ARE NOT ALLOWED

5

4

3

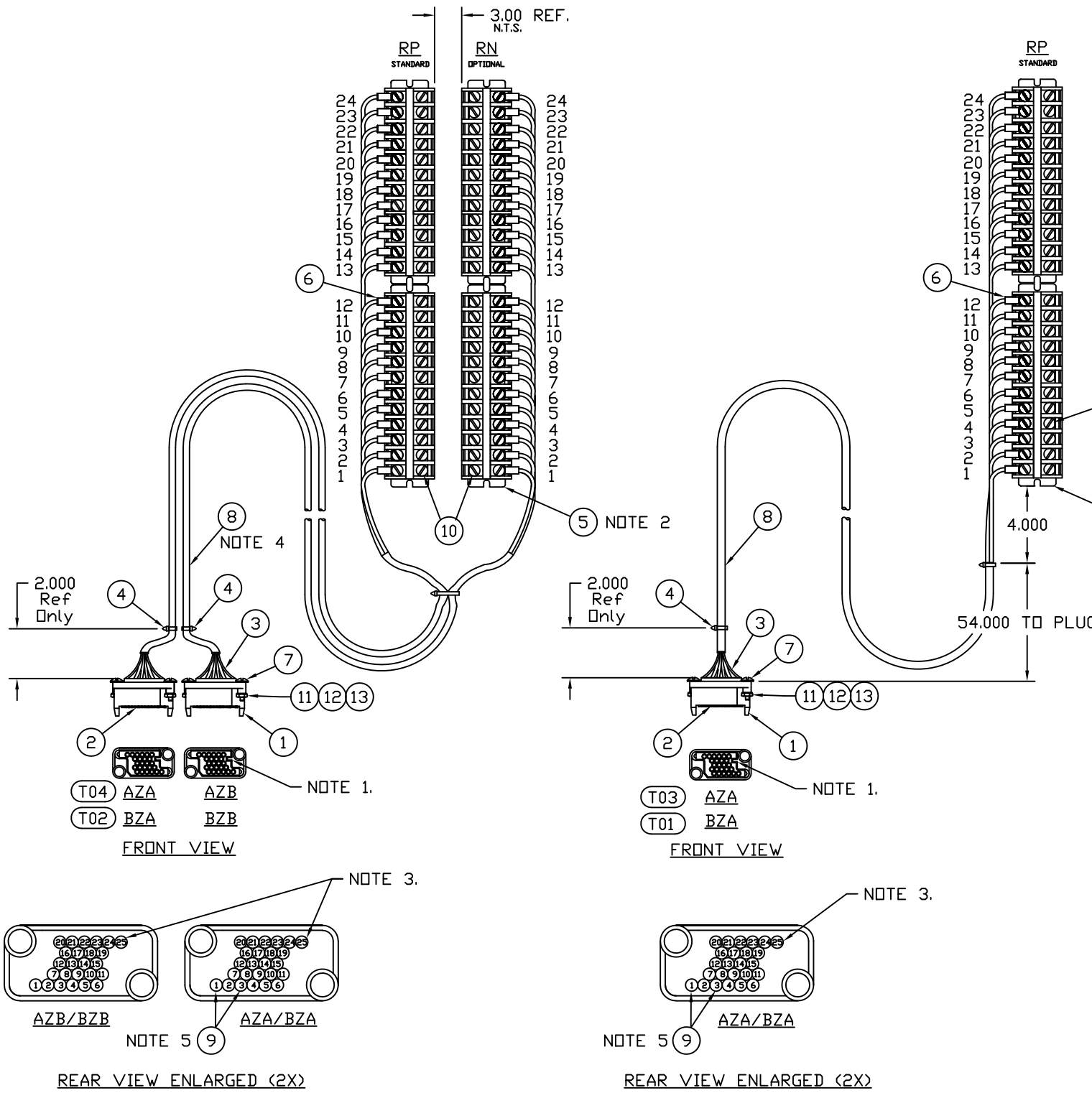
2

1

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

11	PC. 5, 12 PT block was 8	RSK 2/8/08	AL 2/8/08	HK 2/8/08	6	PC.# 5 was 930143A02 Corrected View	AN 12-5-00	JH 12-6-00	DE 12-7-00	<b>ABB Power T &amp; D Company Inc.</b> Distribution Systems Division	931685	11		
10	PC. 5, - Part No. & + Note 2. (M-3115)	AL 2/28/06	RSK 2/28/06	TPM 2/28/06	5	PC.# 2, T01 Qty. was 22, T02 Qty. was 46, T03 Qty. was 22, T04 Qty. was 46, PC.# 9, T01 Thru T04 was 2. (M-2066)	AN 2-21-00	JH 2-22-00	TPM 2-23-00		SIZE C	SHT 01	CONT. DN -	REV.
9	PC. 5 WAS 826179D00	RSK 2/7/06	AL 2/7/06	TH 2/7/06	4	+ ITEM T03 & T04 < N-1767 >	B.SDLK 2/17/98	R.S.K. 2/17/98	B.P. 2/17/98	NEXT ASSY 961200, 201	BY: JSRennie	CHD: RKarnbach	APP: BBook	MICRO.
8	+ PC. 5 & 10 to T01-T04, - Note #2.	GG 5/12/05	RK 5/12/05	TH 5/12/05	3	+ NOTE 5, + PC.#9, PC.#2 T01 QTY WAS 24, PC.#2 T02 QTY WAS 48	S.A.G. 7/7/97	R.S.K. 7/7/97	R.A.P. 7/7/97	DATE: 4-26-95	DATE: 4-26-95	DATE: 4-26-95	S.D.	
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	2	PC.#8 WAS 279040B04.	S.A.G. 4/9/97	R.S.K. 4/9/97	B.B. 4/9/97	P.O.				
1	REDESIGNED	RSK 2/28/96	DE 2/29/96	B.B. 2/29/96	1		BY & DATE	CHD.	APP.	TYPE A	PROD 25	CLASS T	THIS DRAWING IS THE PROPERTY OF ABB POWER DISTRIBUTION INC. AND CONTAINS CONFIDENTIAL INFORMATION WHICH MUST NOT BE DUPLICATED, USED, OR DISCLOSED OTHER THAN EXPRESSLY AUTHORIZED BY ABB.	

DWG. NO. 931685