

A3		1	2	3	4	5	6	7	8
POWER BOARD EXTENDED: BIDIRECTIONAL									
PAGE		CIRCUIT							
2		CONVERTER INTERFACE TO PDB_II AND GDCB				E2PROM #4 GATE DRIVER ENABLE			
3		INVERTER INTERFACE TO PDB_II				E2PROM #2 GATE DRIVER ENABLE PTC TEMPERATURE MEASUREMENT			
4		IGBT MODULES CURRENT SENSING							
5		IGBT R (U): SMPS AND DRIVER							
6		IGBT S (V): SMPS AND DRIVER							
7		IGBT T (W): SMPS AND DRIVER							
8		POWER SUPPLY: SENSING							
9		LINE VOLTAGE SENSING (CONV) FLASHING DC-LINK LED							
10		POWER FAIL MONITORING CIRCUIT (CONV)							
11		VRS PHASE TO PHASE INSULATION (CONV)							
12		VST PHASE TO PHASE INSULATION (CONV)							
13		DC LINK VOLTAGE MEASUREMENT (INV)							
14		IGBT TEMPERATURE MEASUREMENT							
15- 18		ADD-ON: NETS BY PAGE							
19- 28		ADD-ON: CREF PART REPORT							
29- 34		LAYOUT DRAWINGS							

ALTERNATIVELY  
ASSEMBLED AS CONVERTER  
OR  
ASSEMBLED AS INVERTER

APPLICATION OVFR2A-412 120A REGENERATIVE DRIVE	FUNCTIONALITY	
	CONVERTER	INVERTER
G2A26800MX1 ASSIGNED WITH PROPERTY: ASSEMBLY_SEC1=NO		⊗
G2A26800MX2 ASSIGNED WITH PROPERTY: ASSEMBLY_SEC2=NO	⊗	

PART NUMBER: G2A26800MX  
TEST REQUIREMENT: G2A26800MX\_TR  
BASIC DATA: G2A26800MX\_BD  
BARE BOARD: G2A610ADB  
PCB\_CODE: A2ADB1--

DRAWING ABBREV=PBX\_BIDI  
TITLE=PBX\_BIDI  
LAST\_MODIFIED=Fri

CR-1 : @PROJ\_LIB.PBX\_BIDI(SCH\_1);PAGE1  
Dec 11 11:09:01 2009

Changes

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CIRCUIT DIAGRAM FOR  
PBX\_BIDI

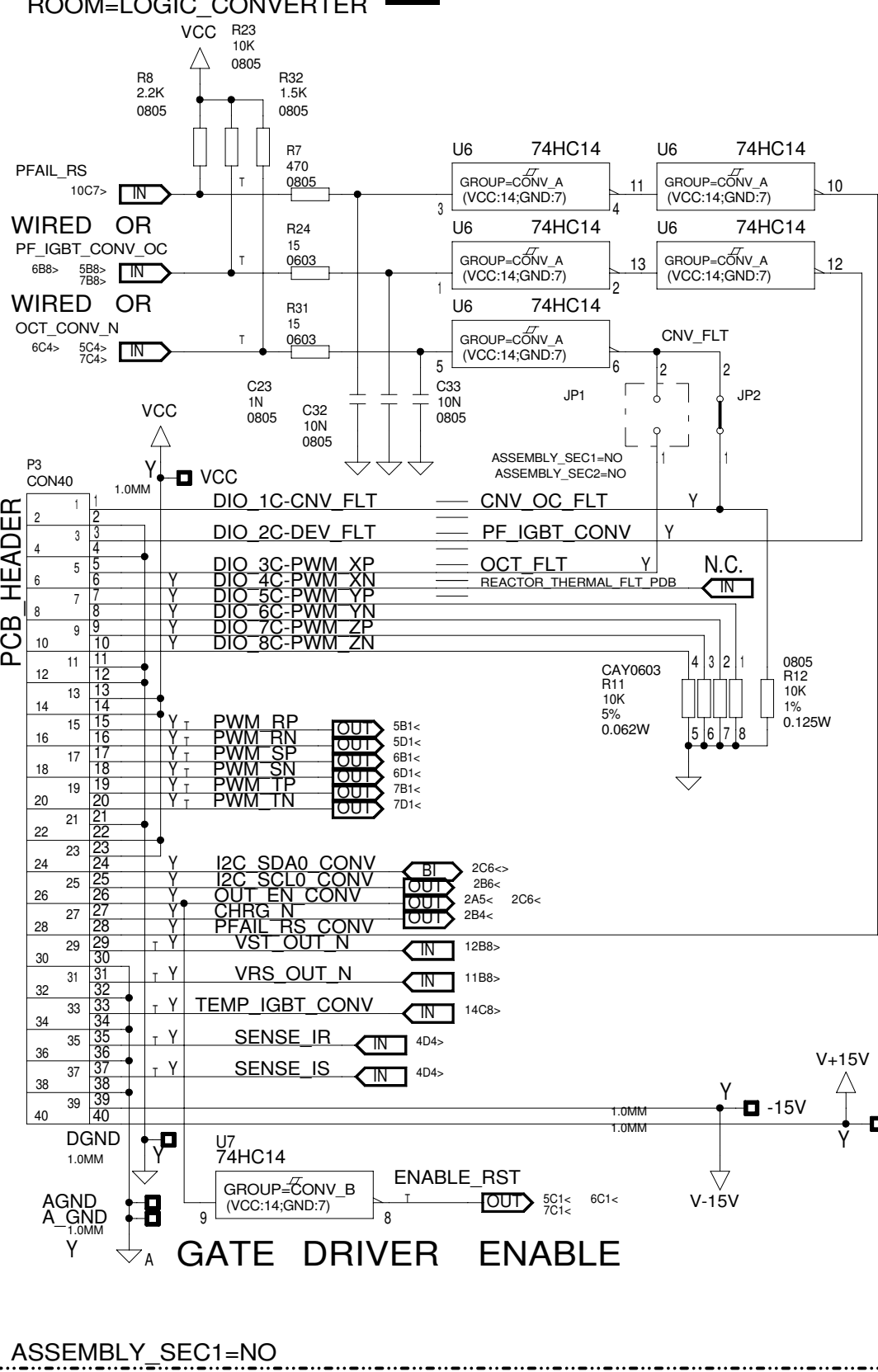
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CADENCE-CONCEPT

DWG G2A26800MX

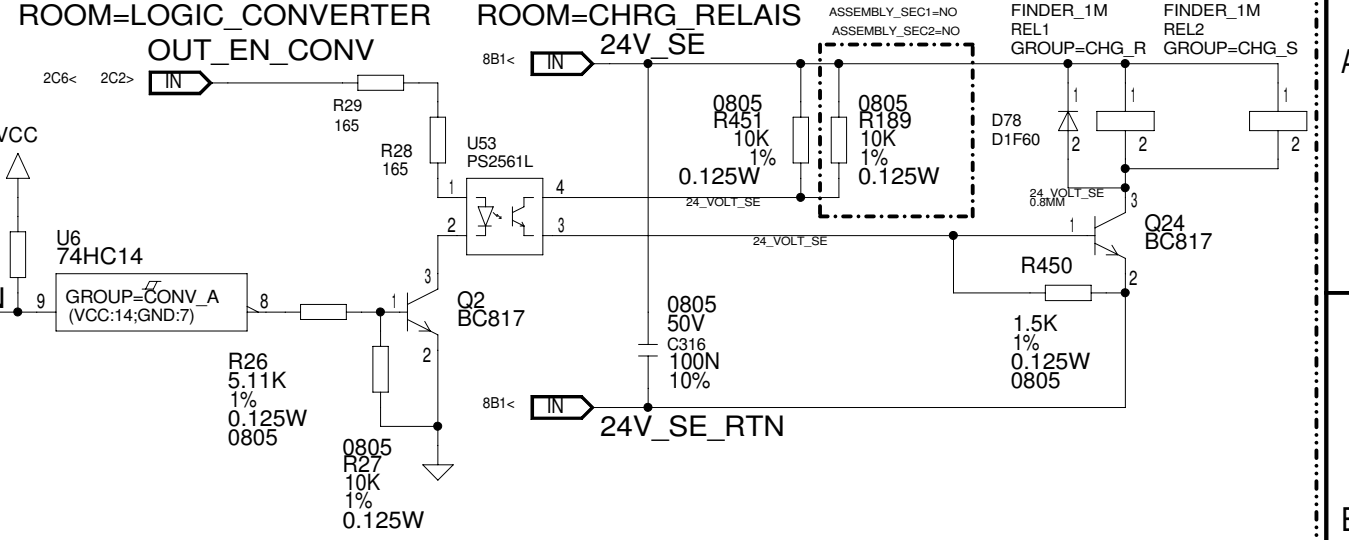
OTIS ENGINEERING CENTER  
BERLIN, GERMANY

DRAWN A. Tutat	ORIGINAL DATE
CHK M. Dehmlow	2009-12-08
APPD M. Dehmlow	35 SHEETS
AUTH CA47A-000528	SHEET 1

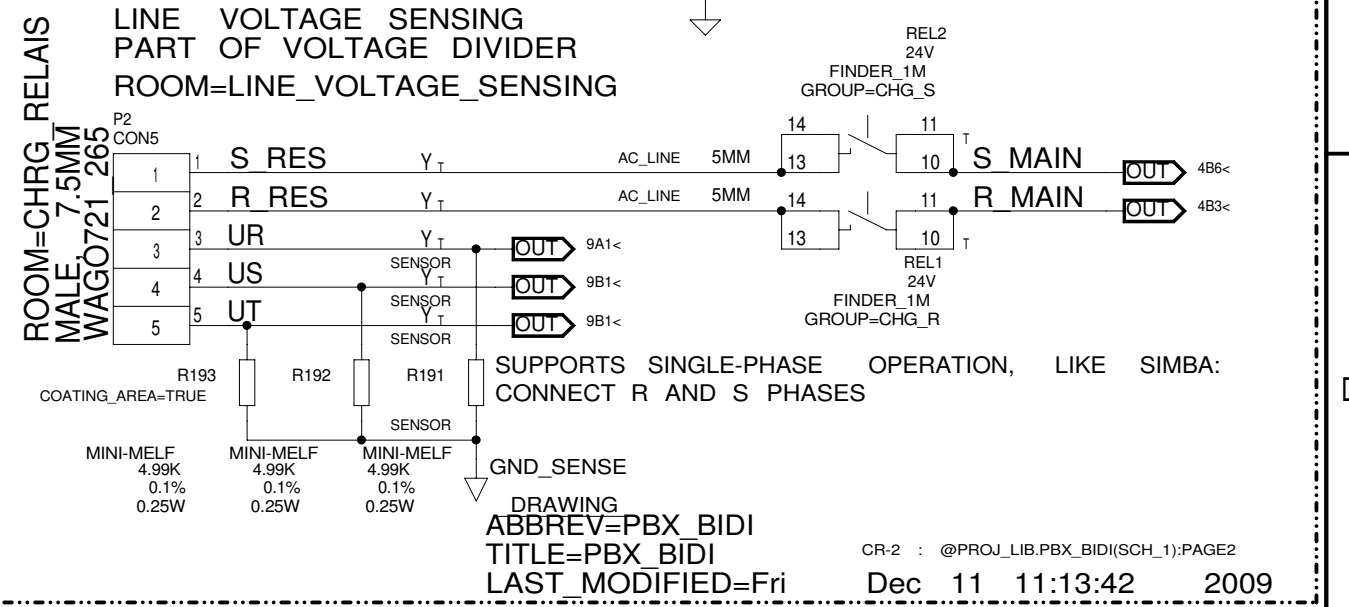
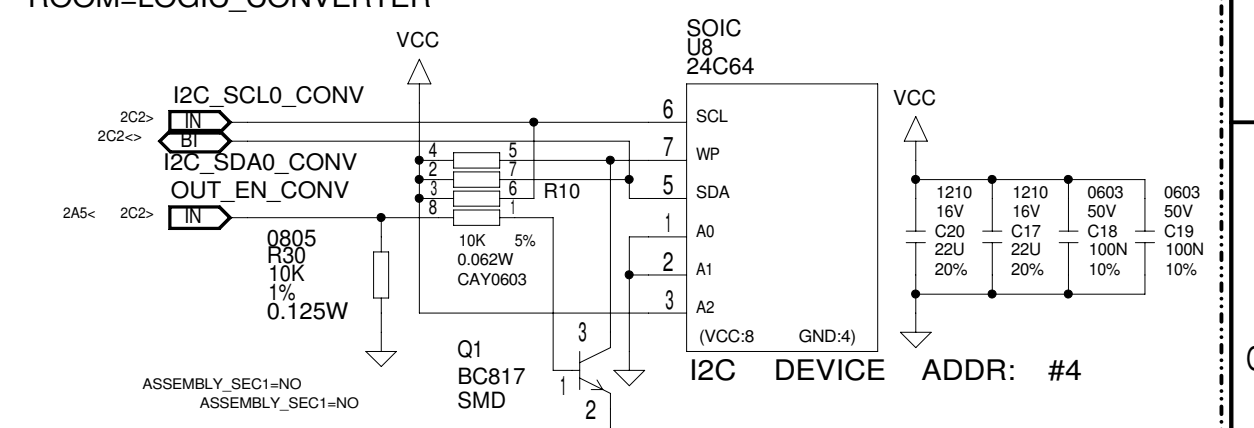
# CONVERTER TO PDB\_II INTERFACE AND GDCB



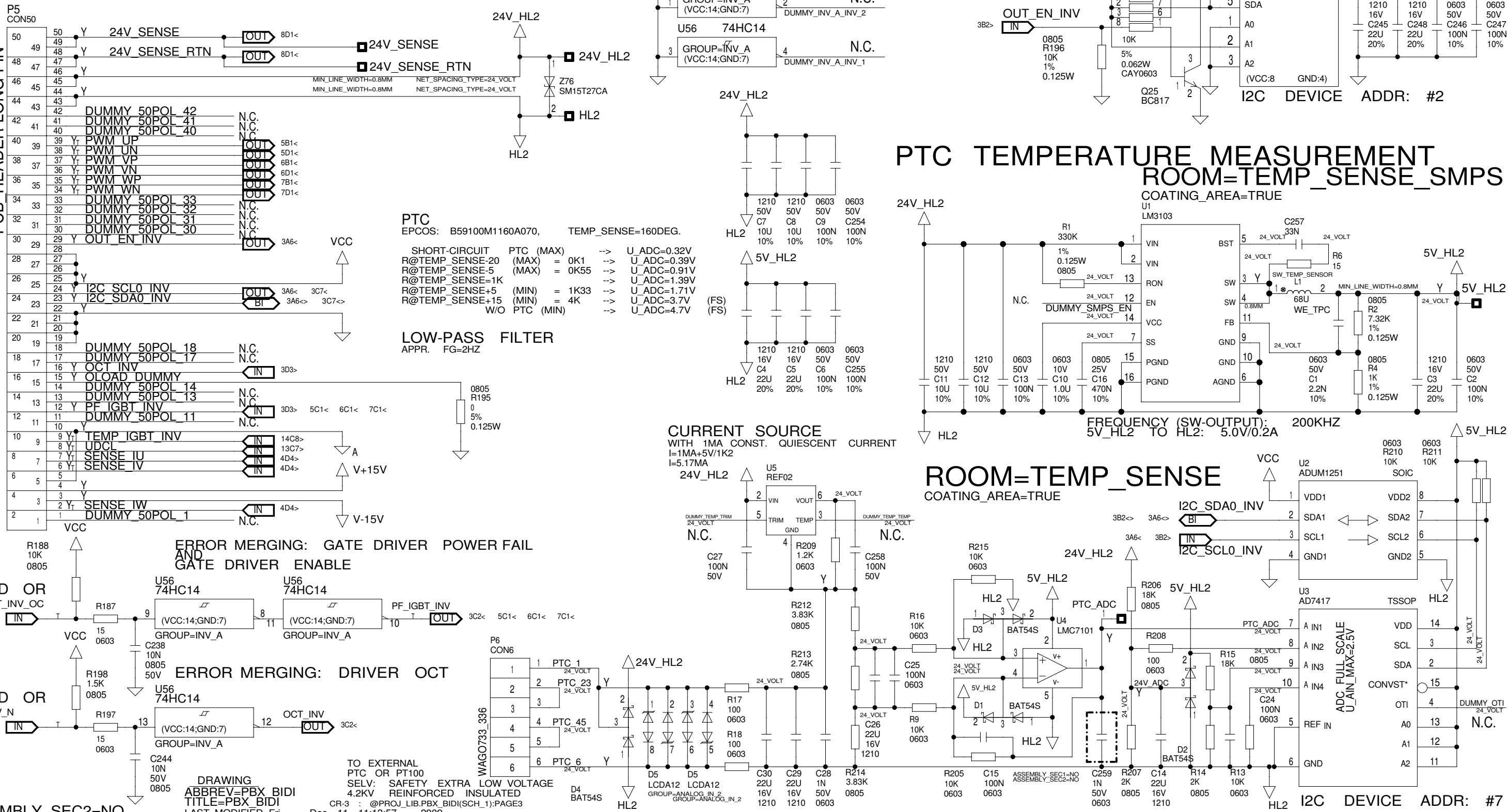
# CHG-RELAY & RELAY DRIVER



## E2PROM



## ROOM=LOGIC\_INVERTER



## Changes

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CIRCUIT DIAGRAM FOR

PBX BIDI

CAD GENERATED  
CADENCE-CONCEPT

DWG G2A26800MX

OTIS ENGINEERING CENTER  
BERLIN, GERMANY

DRAWN <b>A. Tutat</b>	ORIGINAL DATE
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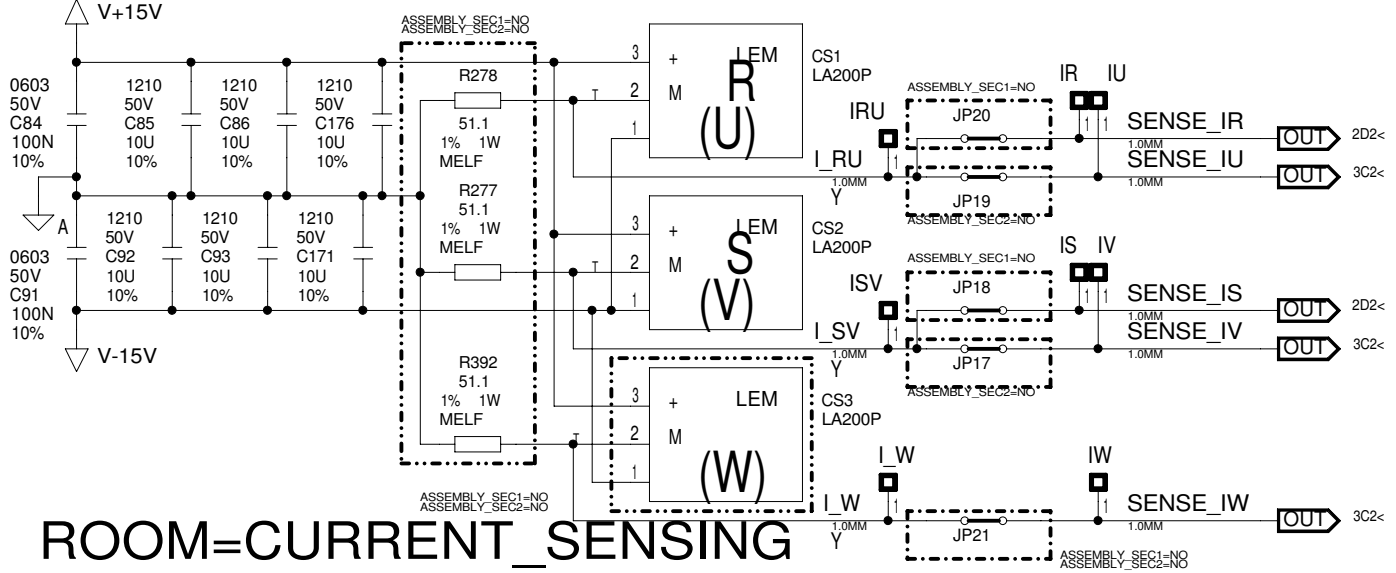
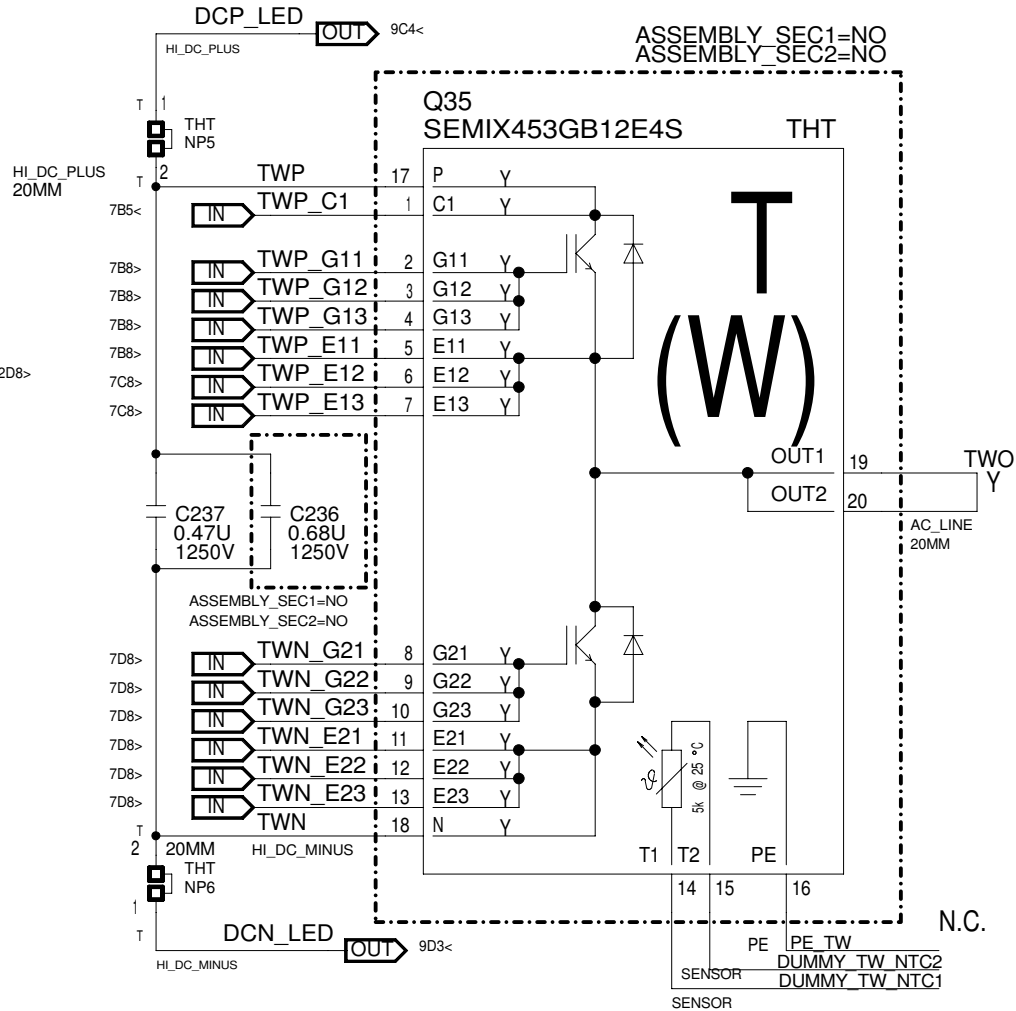
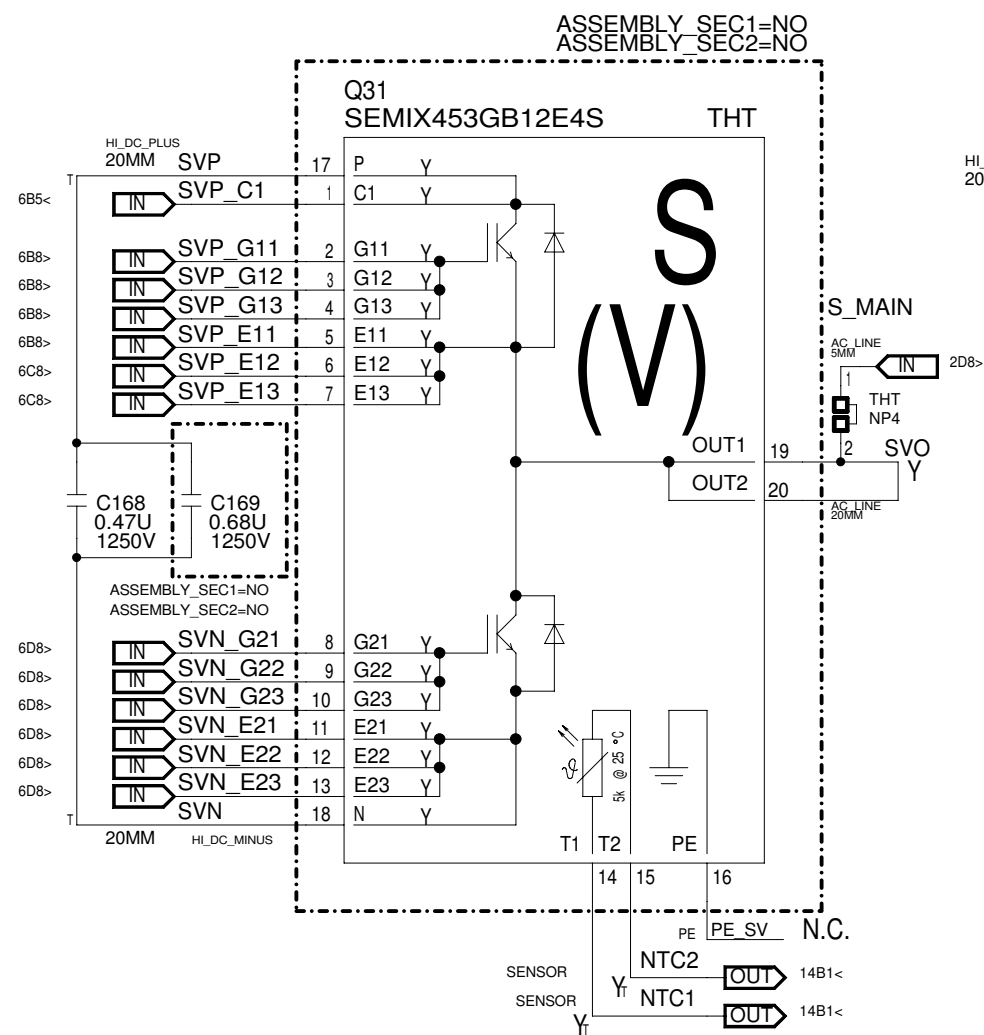
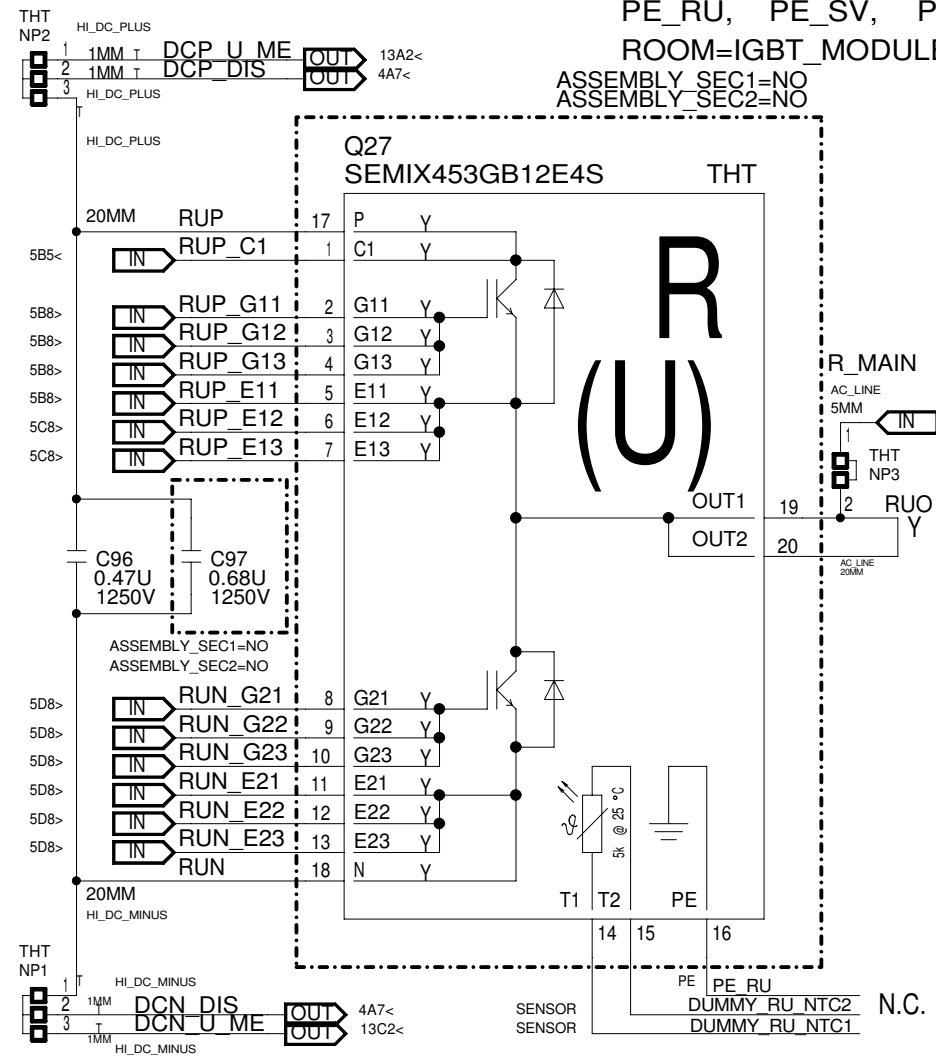
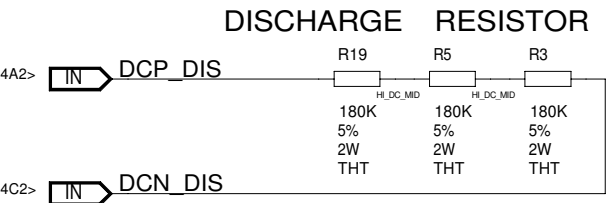
CHK	M. Dehmlow	2009-12-08
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APPD	<b>M. Dehmlow</b>	35	SHEETS
------	-------------------	----	--------

AUTH	CA47A-000528	SHEET 3
------	--------------	---------

# IGBT MODULES

47NF AND 68NF ASSEMBLED ALTERNATIVELY ON THE SAME POSITION  
PE\_RU, PE\_SV, PE\_TW ASSIGNED AS SHIELDING  
ROOM=IGBT\_MODULES



## CURRENT SENSING

200A CURRENT SENSORS: GAA622S3  
S26P200D15Y  
T60404-N4646-X201  
LA200-P  
TAMURA  
VAC  
LEM

ASSEMBLED ALTERNATIVELY ON THE SAME POSITION

ROOM=CURRENT\_SENSING

DRAWING ABBREV=PBX\_BIDI  
TITLE=PBX\_BIDI  
LAST\_MODIFIED=Fri Dec 11 11:14:13 2009

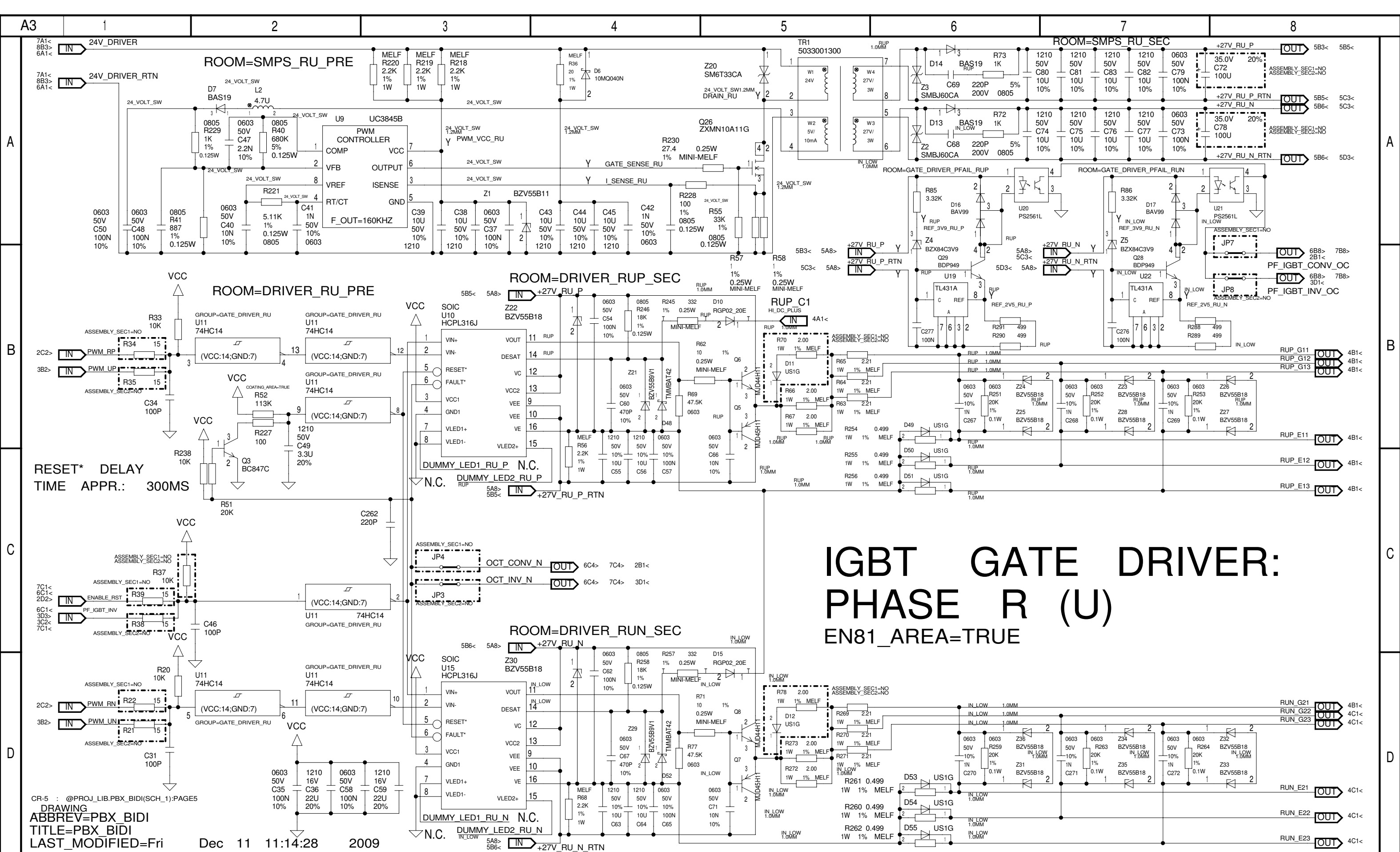
Changes

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CIRCUIT DIAGRAM FOR  
**PBX\_BIDI**  
CAD GENERATED  
CADENCE-CONCEPT

DWG <b>G2A26800MX</b>	
OTIS ENGINEERING CENTER BERLIN, GERMANY	
DRAWN <b>A. Tutat</b>	ORIGINAL DATE
CHK <b>M. Dehmlow</b>	<b>2009-12-08</b>
APPD <b>M. Dehmlow</b>	35 SHEETS
AUTH <b>CA47A-000528</b>	SHEET <b>4</b>



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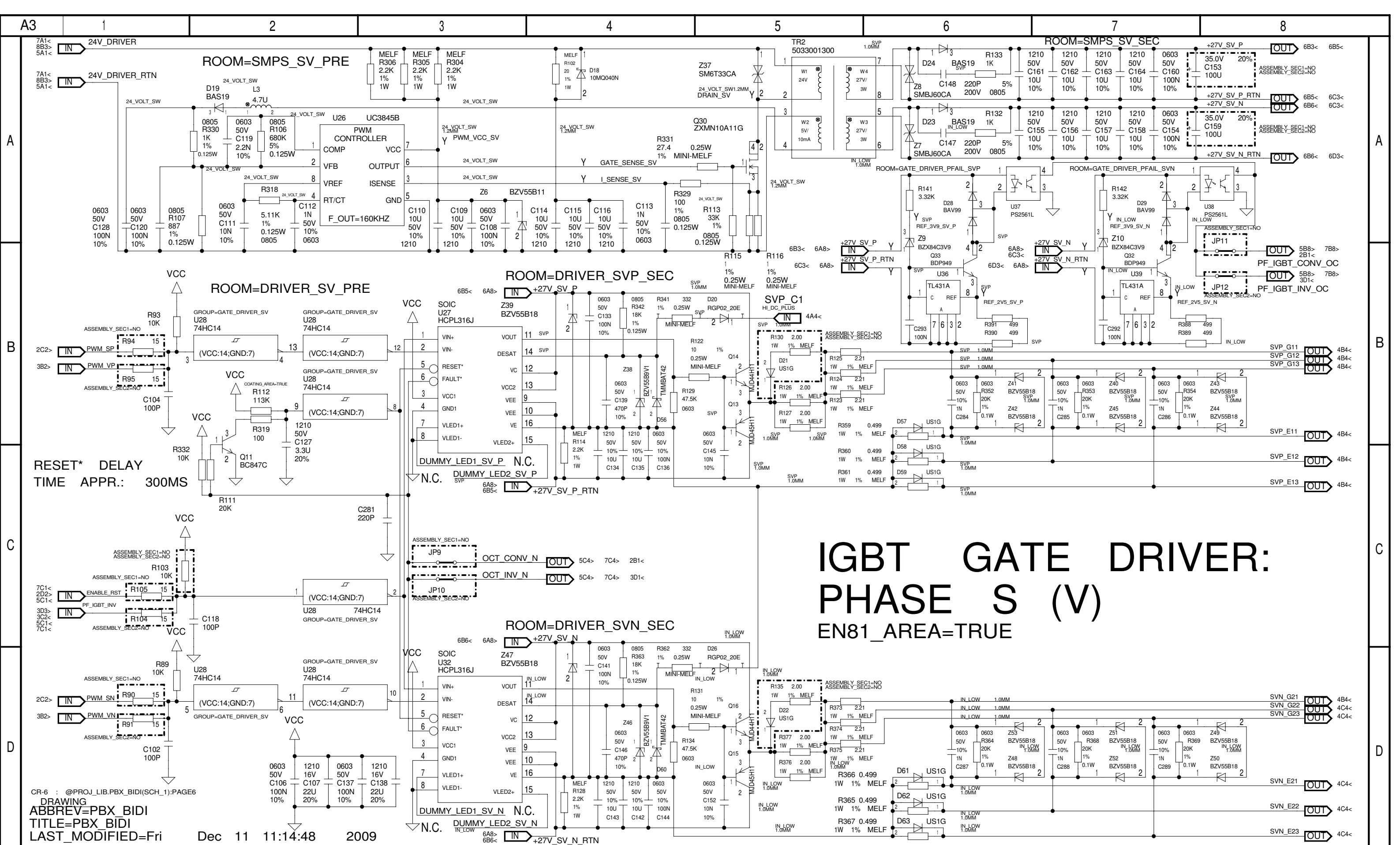
OTIS ENGINEERING CENTER  
BERLIN, GERMANY

DRAWN A. Tutat ORIGINAL DATE

CHK M. Dehmlow 2009-12-08

APPD M. Dehmlow 35 SHEETS

AUTH CA47A-000528 SHEET 5



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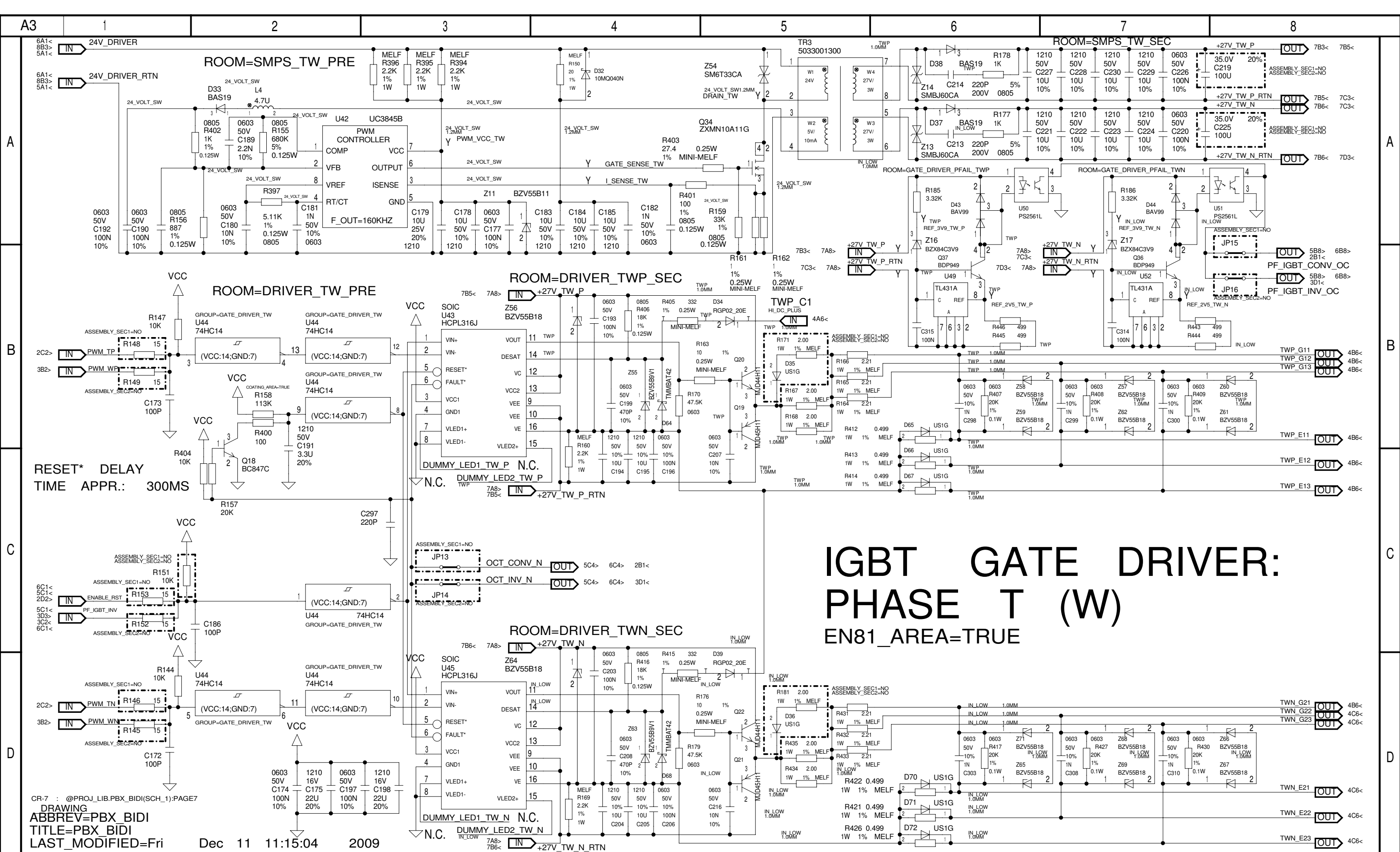
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BERLIN, GERMANY

DRAWN A. Tutat ORIGINAL DATE

CHK M. Dehmlow 2009-12-08

APPD M. Dehmlow 35 SHEETS

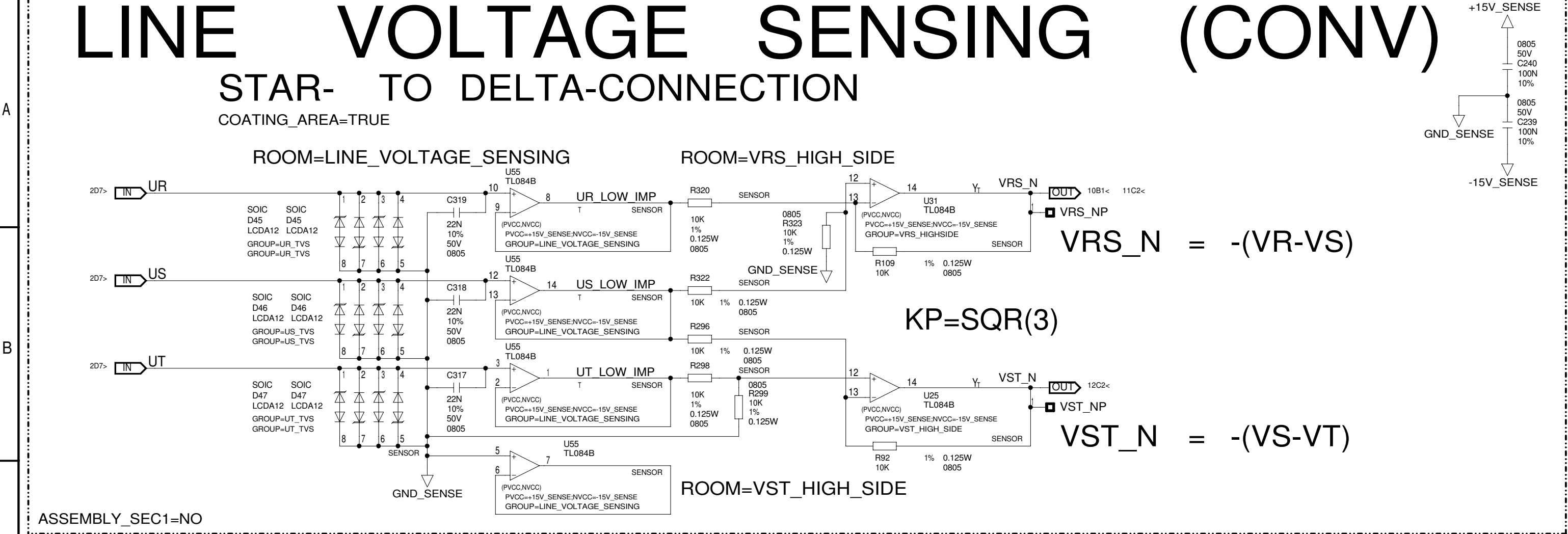
AUTH CA47A-000528 SHEET 6





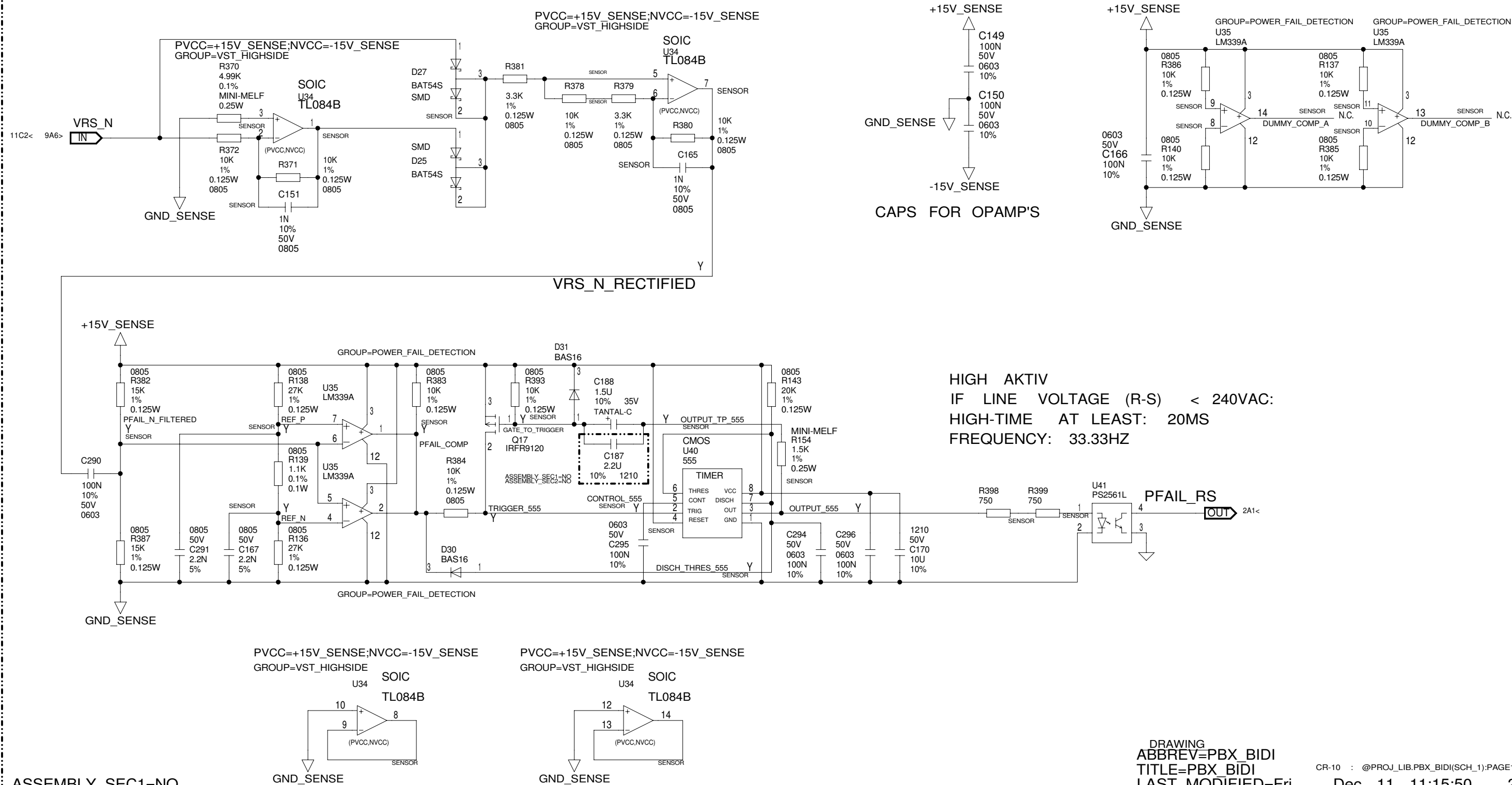






# POWER FAIL MONITORING CIRCUIT (CONV)

ROOM=POWER\_FAIL\_MONITORING  
COATING\_AREA=TRUE



ASSEMBLY\_SEC1=NO

DRAWING  
ABBREV=PBX\_BIDI  
TITLE=PBX\_BIDI  
LAST\_MODIFIED=Fri Dec 11 11:15:50 2009

## Changes

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CIRCUIT DIAGRAM FOR

## PBX\_BIDI

CAD GENERATED  
CADENCE-CONCEPT

DWG **G2A26800MX**

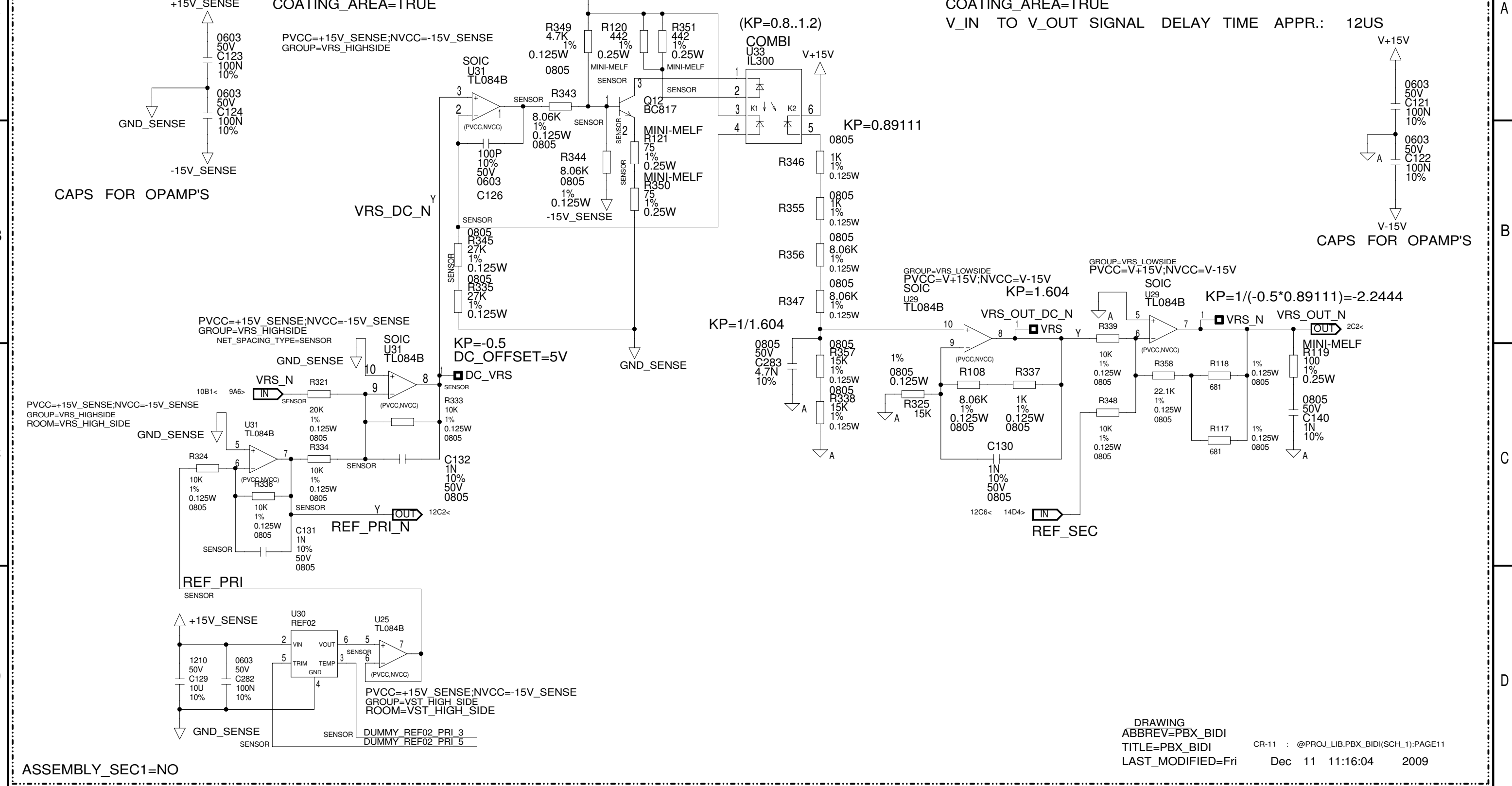
OTIS ENGINEERING CENTER  
BERLIN, GERMANY

DRAWN <b>A. Tutat</b>	ORIGINAL DATE
CHK <b>M. Dehmlow</b>	<b>2009-12-08</b>
APPD <b>M. Dehmlow</b>	35 SHEETS
AUTH <b>CA47A-000528</b>	SHEET <b>10</b>

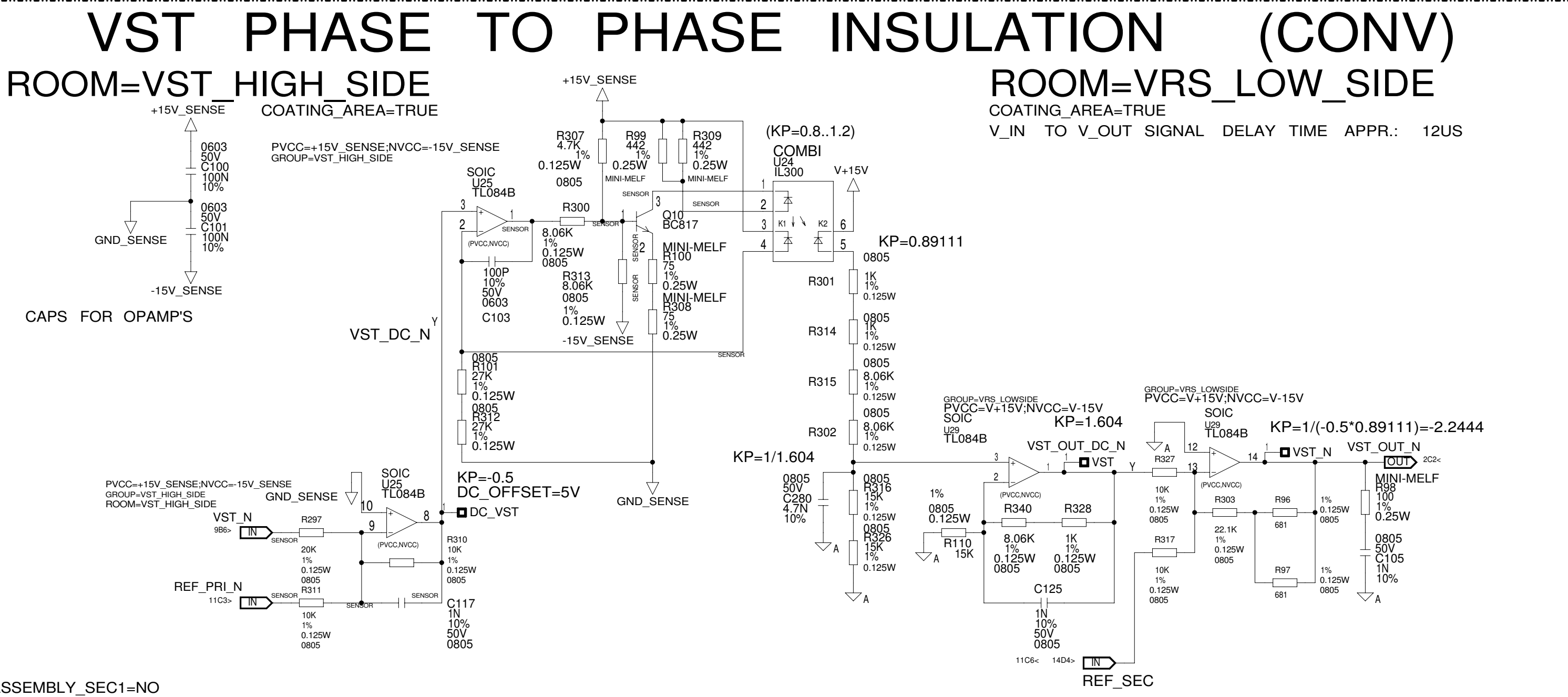
VRS PHASE TO PHASE INSULATION (CONV)

ROOM=VRS\_HIGH\_SIDE

ROOM=VRS\_LOW\_SIDE



QECB\_A3  
REV 2004-09-06



DRAWING  
ABBREV=PBX\_BIDI  
TITLE=PBX\_BIDI  
LAST\_MODIFIED=Fri  
CR-12 : @PROJ\_LIB.PBX\_BIDI(SCH\_1):PAGE12  
Dec 11 11:16:19 2009

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PBX\_BIDI

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CADENCE-CONCEPT

DWG G2A26800MX

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CHK M. Dehmlow	2009-12-08
APPD M. Dehmlow	35 SHEETS
AUTH CA47A-000528	SHEET 12



## B

C

REV 2004-09-06

A3		1		2		3		4		5		6		7		8	
A	Title: Netsbypage Report Design: pbx_bidi Date: Dec 10 9:31:03 2009																A
	Page wise report of nets and their base nets																
	Page	Net	Name	Scope	Base	Net	Location([Zone][dir])										
	2	24V_SE		PBX_BIDI	24V_SE		2A6< 8B1< 8B1<										
	2	24V_SE_RTN		PBX_BIDI	24V_SE_RTN		2B6< 8B1< 8B1<										
	2	CHRG_N		PBX_BIDI	CHRG_N		2C2> 2B4<										
	2	CHRG_N		PBX_BIDI	CHRG_N		2C2> 2B4<										
	2	CNV_FLT		PBX_BIDI	CNV_FLT		2B3										
	2	CNV_OC_FLT		PBX_BIDI	CNV_OC_FLT		2B2										
	2	DIO_1C-CNV_FLT		PBX_BIDI	CNV_FLT		2B3										
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	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
B	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
C	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
D	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
A	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
B	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
C	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
D	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
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	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
A	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
B	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
C	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
D	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
A	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
B	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
C	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
	2	DUMMY_CONV_B_IN		PBX_BIDI	DUMMY_CONV_B_IN		2D4										
D	2	DUMMY_CONV_B_IN															



A3		1		2		3		4		5		6		7		8			
A	3	PWM_UP	PBX_BIDI	PWM_UP	3B2> 5B1<	4	SVN_E22	PBX_BIDI	SVN_E22	6D8> 4C4<	A								
	3	PWM_VN	PBX_BIDI	PWM_VN	3B2> 6D1<	4	SVN_E23	PBX_BIDI	SVN_E23	6D8> 4C4<									
	3	PWM_VP	PBX_BIDI	PWM_VP	3B2> 6B1<	4	SVN_G21	PBX_BIDI	SVN_G21	6D8> 4B4<									
	3	PWM_WN	PBX_BIDI	PWM_WN	3B2> 7D1<	4	SVN_G22	PBX_BIDI	SVN_G22	6D8> 4C4<									
	3	PWM_WP	PBX_BIDI	PWM_WP	3B2> 7B1<	4	SVN_G23	PBX_BIDI	SVN_G23	6D8> 4C4<									
	3	SENSE_IU	PBX_BIDI	SENSE_IU	4D4> 3C2<	4	SVO	PBX_BIDI	SVO	4B6									
	3	SENSE_IV	PBX_BIDI	SENSE_IV	4D4> 3C2<	4	SVP	PBX_BIDI	SVP	4A4									
	3	SENSE_IW	PBX_BIDI	SENSE_IW	4D4> 3C2<	4	SVP_C1	PBX_BIDI	SVP_C1	4A4< 6B5<									
	3	SW_TEMP_SENSOR	PBX_BIDI	SW_TEMP_SENSOR	3B7	4	SVP_E11	PBX_BIDI	SVP_E11	6B8> 4B4<									
	3	TEMP_IGBT_INV	PBX_BIDI	TEMP_IGBT_INV	14C8> 3C2<	4	SVP_E12	PBX_BIDI	SVP_E12	6C8> 4B4<									
B	3	UDCL	PBX_BIDI	UDCL	13C7> 3C2<	4	SVP_E13	PBX_BIDI	SVP_E13	6C8> 4B4<	B								
	4	DCN_DIS	PBX_BIDI	DCN_DIS	4C2> 4A7<	4	SVP_G11	PBX_BIDI	SVP_G11	6B8> 4B4<									
	4	DCN_DIS	PBX_BIDI	DCN_DIS	4C2> 4A7<	4	SVP_G12	PBX_BIDI	SVP_G12	6B8> 4B4<									
	4	DCN_LED	PBX_BIDI	DCN_LED	4C7> 9D3<	4	SVP_G13	PBX_BIDI	SVP_G13	6B8> 4B4<									
	4	DCN_U_ME	PBX_BIDI	DCN_U_ME	4C2> 13C2<	4	S_MAIN	PBX_BIDI	S_MAIN	2D8> 4B6<									
	4	DCP_DIS	PBX_BIDI	DCP_DIS	4A2> 4A7<	4	TWN	PBX_BIDI	TWN	4C6									
	4	DCP_DIS	PBX_BIDI	DCP_DIS	4A2> 4A7<	4	TWN_E21	PBX_BIDI	TWN_E21	7D8> 4C6<									
	4	DCP_LED	PBX_BIDI	DCP_LED	4A7> 9C4<	4	TWN_E22	PBX_BIDI	TWN_E22	7D8> 4C6<									
	4	DCP_U_ME	PBX_BIDI	DCP_U_ME	4A2> 13A2<	4	TWN_E23	PBX_BIDI	TWN_E23	7D8> 4C6<									
	4	DUMMY_RU_NTC1	PBX_BIDI	DUMMY_RU_NTC1	4C2	4	TWN_G21	PBX_BIDI	TWN_G21	7D8> 4B6<									
C	4	DUMMY_RU_NTC2	PBX_BIDI	DUMMY_RU_NTC2	4C2	4	TWN_G22	PBX_BIDI	TWN_G22	7D8> 4C6<	C								
	4	DUMMY_TW_NTC1	PBX_BIDI	DUMMY_TW_NTC1	4C8	4	TWN_G23	PBX_BIDI	TWN_G23	7D8> 4C6<									
	4	DUMMY_TW_NTC2	PBX_BIDI	DUMMY_TW_NTC2	4C8	4	TWO	PBX_BIDI	TWO	4B8									
	4	I_RU	PBX_BIDI	I_RU	4D3	4	TWP	PBX_BIDI	TWP	4A6									
	4	I_SV	PBX_BIDI	I_SV	4D3	4	TWP_C1	PBX_BIDI	TWP_C1	4A6< 7B5<									
	4	I_W	PBX_BIDI	I_W	4D3	4	TWP_E11	PBX_BIDI	TWP_E11	7B8> 4B6<									
	4	NTC1	PBX_BIDI	NTC1	4C5> 14B1<	4	TWP_E12	PBX_BIDI	TWP_E12	7C8> 4B6<									
	4	NTC2	PBX_BIDI	NTC2	4C5> 14B1<	4	TWP_E13	PBX_BIDI	TWP_E13	7C8> 4B6<									
	4	PE_RU	PBX_BIDI	PE_RU	4C2	4	TWP_G11	PBX_BIDI	TWP_G11	7B8> 4B6<									
	4	PE_SV	PBX_BIDI	PE_SV	4C5	4	TWP_G12	PBX_BIDI	TWP_G12	7B8> 4B6<									
D	4	PE_TW	PBX_BIDI	PE_TW	4C8	4	TWP_G13	PBX_BIDI	TWP_G13	7B8> 4B6<	D								
	4	RUN	PBX_BIDI	RUN	4C1	5	+27V_RU_N	PBX_BIDI	+27V_RU_N	5A8> 5B6< 5C3<									
	4	RUN_E21	PBX_BIDI	RUN_E21	5D8> 4C1<	5	+27V_RU_N	PBX_BIDI	+27V_RU_N	5A8> 5B6< 5C3<									
	4	RUN_E22	PBX_BIDI	RUN_E22	5D8> 4C1<	5	+27V_RU_N	PBX_BIDI	+27V_RU_N	5A8> 5B6< 5C3<									
	4	RUN_E23	PBX_BIDI	RUN_E23	5D8> 4C1<	5	+27V_RU_N_RTN	PBX_BIDI	+27V_RU_N_RTN	5A8> 5B6< 5D3<									
	4	RUN_G21	PBX_BIDI	RUN_G21	5D8> 4B1<	5	+27V_RU_N_RTN	PBX_BIDI	+27V_RU_N_RTN	5A8> 5B6< 5D3<									
	4	RUN_G22	PBX_BIDI	RUN_G22	5D8> 4C1<	5	+27V_RU_N_RTN	PBX_BIDI	+27V_RU_N_RTN	5A8> 5B6< 5D3<									
	4	RUN_G23	PBX_BIDI	RUN_G23	5D8> 4C1<	5	+27V_RU_P	PBX_BIDI	+27V_RU_P	5A8> 5B3< 5B5<									
	4	RUO	PBX_BIDI	RUO	4B3	5	+27V_RU_P	PBX_BIDI	+27V_RU_P	5A8> 5B3< 5B5<									
	4	RUP	PBX_BIDI	RUP	4A1	5	+27V_RU_P	PBX_BIDI	+27V_RU_P	5A8> 5B3< 5B5<									
	4	RUP_C1	PBX_BIDI	RUP_C1	4A1< 5B5<	5	+27V_RU_P_RTN	PBX_BIDI	+27V_RU_P_RTN	5A8> 5B5< 5C3<									
	4	RUP_E11	PBX_BIDI	RUP_E11	5B8> 4B1<	5	+27V_RU_P_RTN	PBX_BIDI	+27V_RU_P_RTN	5A8> 5B5< 5C3<									
	4	RUP_E12	PBX_BIDI	RUP_E12	5C8> 4B1<	5	+27V_RU_P_RTN	PBX_BIDI	+27V_RU_P_RTN	5A8> 5B5< 5C3<									
	4	RUP_E13	PBX_BIDI	RUP_E13	5C8> 4B1<	5	+27V_RU_P_RTN	PBX_BIDI	+27V_RU_P_RTN	5A8> 5B5< 5C3<									
	4	RUP_G11	PBX_BIDI	RUP_G11	5B8> 4B1<	5	24V_DRIVER	PBX_BIDI	24V_DRIVER	8B3> 5A1< 6A1< 7A1<									
	4	RUP_G12	PBX_BIDI	RUP_G12	5B8> 4B1<	5	24V_DRIVER_RTN	PBX_BIDI	24V_DRIVER_RTN	8B3> 5A1< 6A1< 7A1<									
	4	RUP_G13	PBX_BIDI	RUP_G13	5B8> 4B1<	5	DRAIN_RU	PBX_BIDI	DRAIN_RU	5A4									
	4	R_MAIN	PBX_BIDI	R_MAIN	2D8> 4B3<	5	DUMMY_LED1_RU_N	PBX_BIDI	DUMMY_LED1_RU_N	5D3									
	4	SENSE_IR	PBX_BIDI	SENSE_IR	4D4> 2D2<	5	DUMMY_LED1_RU_P	PBX_BIDI	DUMMY_LED1_RU_P	5C3									
	4	SENSE_IS	PBX_BIDI	SENSE_IS	4D4> 2D2<	5	DUMMY_LED2_RU_N	PBX_BIDI	DUMMY_LED2_RU_N	5D3									
	4	SENSE_IU	PBX_BIDI	SENSE_IU	4D4> 3C2<	5	DUMMY_LED2_RU_P	PBX_BIDI	DUMMY_LED2_RU_P	5C3									
	4	SENSE_IV	PBX_BIDI	SENSE_IV	4D4> 3C2<	5	ENABLE_RST	PBX_BIDI	ENABLE_RST	2D2> 5C1< 6C1< 7C1<									
	4	SENSE_IW	PBX_BIDI	SENSE_IW	4D4> 3C2<	5	GATE_SENSE_RU	PBX_BIDI	GATE_SENSE_RU	5A4									
	4	SVN	PBX_BIDI	SVN	4C4	5	I_SENSE_RU	PBX_BIDI	I_SENSE_RU	5A4									
	4	SVN_E21	PBX_BIDI	SVN_E21	6D8> 4C4<	5	OCT_CONV_N	PBX_BIDI	OCT_CONV_N	5C4> 6C4> 7C4> 2B1<									
						5	OCT_INV_N	PBX_BIDI	OCT_INV_N	5C4> 6C4> 7C4> 3D1<									
Changes					WARNING THIS WORK AND THE INFORMATION IT CONTAINS ARE THE PROPERTY OF OTIS ELEVATOR COMPANY (OTIS). IT IS DELIVERED TO OTHERS ON THE EXPRESS CONDITION THAT IT WILL BE USED ONLY FOR OR ON BEHALF OF OTIS ; THAT NEITHER IT OR NOR THE INFORMATION IT CONTAINS WILL BE REPRODUCED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF OTIS ; AND THAT ON DEMAND IT AND ANY COPIES WILL BE PROMPTLY RETURNED TO OTIS.  UNPUBLISHED WORK (C) OTIS ELEVATOR COMPANY ALL RIGHTS RESERVED.					CIRCUIT DIAGRAM FOR  PBX_BIDI   CAD GENERATED CADENCE-CONCEPT					DWG G2A26800MX OTIS ENGINEERING CENTER BERLIN, GERMANY DRAWN A. Tutat ORIGINAL DATE CHK M. Dehmlow 2009-12-08 APPD M. Dehmlow SHEETS AUTH CA47A-000528 SHEET 16				

A3		1		2		3		4		5		6		7		8																
A	5	PF_IGBT_CONV_OC	PBX_BIDI	PF_IGBT_CONV_OC	5B8>	6B8>	7B8>	2B1<	6	PWM_SP	PBX_BIDI	PWM_SP	2C2>	6B1<	A																	
	5	PF_IGBT_INV	PBX_BIDI	PF_IGBT_INV	3D3>	3C2<	5C1<	6C1<	6	PWM_VCC_SV	PBX_BIDI	PWM_VCC_SV	6A3																			
					7C1<				6	PWM_VN	PBX_BIDI	PWM_VN	3B2>	6D1<																		
	5	PF_IGBT_INV_OC	PBX_BIDI	PF_IGBT_INV_OC	5B8>	6B8>	7B8>	3D1<	6	PWM_VP	PBX_BIDI	PWM_VP	3B2>	6B1<																		
	5	PWM_RN	PBX_BIDI	PWM_RN	2C2>	5D1<			6	REF_2V5_SV_N	PBX_BIDI	REF_2V5_SV_N	6B7																			
	5	PWM_RP	PBX_BIDI	PWM_RP	2C2>	5B1<			6	REF_2V5_SV_P	PBX_BIDI	REF_2V5_SV_P	6B6																			
	5	PWM_UN	PBX_BIDI	PWM_UN	3B2>	5D1<			6	REF_3V9_SV_N	PBX_BIDI	REF_3V9_SV_N	6A7																			
	5	PWM_UP	PBX_BIDI	PWM_UP	3B2>	5B1<			6	REF_3V9_SV_P	PBX_BIDI	REF_3V9_SV_P	6A6																			
	5	PWM_VCC_RU	PBX_BIDI	PWM_VCC_RU	5A3				6	SVN_E21	PBX_BIDI	SVN_E21	6D8>	4C4<																		
	5	REF_2V5_RU_N	PBX_BIDI	REF_2V5_RU_N	5B7				6	SVN_E22	PBX_BIDI	SVN_E22	6D8>	4C4<																		
B	5	REF_2V5_RU_P	PBX_BIDI	REF_2V5_RU_P	5B6				6	SVN_E23	PBX_BIDI	SVN_E23	6D8>	4C4<																		
	5	REF_3V9_RU_N	PBX_BIDI	REF_3V9_RU_N	5A7				6	SVN_G21	PBX_BIDI	SVN_G21	6D8>	4B4<																		
	5	REF_3V9_RU_P	PBX_BIDI	REF_3V9_RU_P	5A6				6	SVN_G22	PBX_BIDI	SVN_G22	6D8>	4C4<																		
	5	RUN_E21	PBX_BIDI	RUN_E21	5D8>	4C1<			6	SVN_G23	PBX_BIDI	SVN_G23	6D8>	4C4<																		
	5	RUN_E22	PBX_BIDI	RUN_E22	5D8>	4C1<			6	SVP_C1	PBX_BIDI	SVP_C1	4A4<	6B5<																		
	5	RUN_E23	PBX_BIDI	RUN_E23	5D8>	4C1<			6	SVP_E11	PBX_BIDI	SVP_E11	6B8>	4B4<																		
	5	RUN_G21	PBX_BIDI	RUN_G21	5D8>	4B1<			6	SVP_E12	PBX_BIDI	SVP_E12	6C8>	4B4<																		
	5	RUN_G22	PBX_BIDI	RUN_G22	5D8>	4C1<			6	SVP_E13	PBX_BIDI	SVP_E13	6C8>	4B4<																		
	5	RUN_G23	PBX_BIDI	RUN_G23	5D8>	4C1<			6	SVP_G11	PBX_BIDI	SVP_G11	6B8>	4B4<																		
	5	RUP_C1	PBX_BIDI	RUP_C1	4A1<	5B5<			6	SVP_G12	PBX_BIDI	SVP_G12	6B8>	4B4<																		
C	5	RUP_E11	PBX_BIDI	RUP_E11	5B8>	4B1<			6	SVP_G13	PBX_BIDI	SVP_G13	6B8>	4B4<																		
	5	RUP_E12	PBX_BIDI	RUP_E12	5C8>	4B1<			7	+27V_TW_N	PBX_BIDI	+27V_TW_N	7A8>	7B6<	7C3<																	
	5	RUP_E13	PBX_BIDI	RUP_E13	5C8>	4B1<			7	+27V_TW_N	PBX_BIDI	+27V_TW_N	7A8>	7B6<	7C3<																	
	5	RUP_G11	PBX_BIDI	RUP_G11	5B8>	4B1<			7	+27V_TW_N	PBX_BIDI	+27V_TW_N	7A8>	7B6<	7C3<																	
	5	RUP_G12	PBX_BIDI	RUP_G12	5B8>	4B1<			7	+27V_TW_N_RTN	PBX_BIDI	+27V_TW_N_RTN	7A8>	7B6<	7D3<																	
	5	RUP_G13	PBX_BIDI	RUP_G13	5B8>	4B1<			7	+27V_TW_N_RTN	PBX_BIDI	+27V_TW_N_RTN	7A8>	7B6<	7D3<																	
	6	+27V_SV_N	PBX_BIDI	+27V_SV_N	6A8>	6B6<	6C3<		7	+27V_TW_N_RTN	PBX_BIDI	+27V_TW_N_RTN	7A8>	7B6<	7D3<																	
	6	+27V_SV_N	PBX_BIDI	+27V_SV_N	6A8>	6B6<	6C3<		7	+27V_TW_P	PBX_BIDI	+27V_TW_P	7A8>	7B3<	7B5<																	
	6	+27V_SV_N	PBX_BIDI	+27V_SV_N	6A8>	6B6<	6C3<		7	+27V_TW_P	PBX_BIDI	+27V_TW_P	7A8>	7B3<	7B5<																	
	6	+27V_SV_N_RTN	PBX_BIDI	+27V_SV_N_RTN	6A8>	6B6<	6D3<		7	+27V_TW_P	PBX_BIDI	+27V_TW_P	7A8>	7B3<	7B5<																	
D	6	+27V_SV_N_RTN	PBX_BIDI	+27V_SV_N_RTN	6A8>	6B6<	6D3<		7	+27V_TW_P_RTN	PBX_BIDI	+27V_TW_P_RTN	7A8>	7B5<	7C3<																	
	6	+27V_SV_N_RTN	PBX_BIDI	+27V_SV_N_RTN	6A8>	6B6<	6D3<		7	+27V_TW_P_RTN	PBX_BIDI	+27V_TW_P_RTN	7A8>	7B5<	7C3<																	
	6	+27V_SV_P	PBX_BIDI	+27V_SV_P	6A8>	6B3<	6B5<		7	+27V_TW_P_RTN	PBX_BIDI	+27V_TW_P_RTN	7A8>	7B5<	7C3<																	
	6	+27V_SV_P	PBX_BIDI	+27V_SV_P	6A8>	6B3<	6B5<		7	24V_DRIVER	PBX_BIDI	24V_DRIVER	8B3>	5A1<	6A1<	7A1<																
	6	+27V_SV_P	PBX_BIDI	+27V_SV_P	6A8>	6B3<	6B5<		7	24V_DRIVER_RTN	PBX_BIDI	24V_DRIVER_RTN	8B3>	5A1<	6A1<	7A1<																
	6	+27V_SV_P_RTN	PBX_BIDI	+27V_SV_P_RTN	6A8>	6B5<	6C3<		7	DRAIN_TW	PBX_BIDI	DRAIN_TW	7A4																			
	6	+27V_SV_P_RTN	PBX_BIDI	+27V_SV_P_RTN	6A8>	6B5<	6C3<		7	DUMMY_LED1_TW_N	PBX_BIDI	DUMMY_LED1_TW_N	7D3																			
	6	+27V_SV_P_RTN	PBX_BIDI	+27V_SV_P_RTN	6A8>	6B5<	6C3<		7	DUMMY_LED1_TW_P	PBX_BIDI	DUMMY_LED1_TW_P	7C3																			
	6	24V_DRIVER	PBX_BIDI	24V_DRIVER	8B3>	5A1<	6A1<	7A1<	7	DUMMY_LED2_TW_N	PBX_BIDI	DUMMY_LED2_TW_N	7D3																			
	6	24V_DRIVER_RTN	PBX_BIDI	24V_DRIVER_RTN	8B3>	5A1<	6A1<	7A1<	7	DUMMY_LED2_TW_P	PBX_BIDI	DUMMY_LED2_TW_P	7C3																			
E	6	DRAIN_SV	PBX_BIDI	DRAIN_SV	6A4				7	ENABLE_RST	PBX_BIDI	ENABLE_RST	2D2>	5C1<	6C1<	7C1<																
	6	DUMMY_LED1_SV_N	PBX_BIDI	DUMMY_LED1_SV_N	6D3				7	GATE_SENSE_TW	PBX_BIDI	GATE_SENSE_TW	7A4																			
	6	DUMMY_LED1_SV_P	PBX_BIDI	DUMMY_LED1_SV_P	6C3				7	I_SENSE_TW	PBX_BIDI	I_SENSE_TW	7A4																			
	6	DUMMY_LED2_SV_N	PBX_BIDI	DUMMY_LED2_SV_N	6D3				7	OCT_CONV_N	PBX_BIDI	OCT_CONV_N	5C4>	6C4>	7C4>	2B1<																
	6	DUMMY_LED2_SV_P	PBX_BIDI	DUMMY_LED2_SV_P	6C3				7	OCT_INV_N	PBX_BIDI	OCT_INV_N	5C4>	6C4>	7C4>	3D1<																
	6	ENABLE_RST	PBX_BIDI	ENABLE_RST	2D2>	5C1<	6C1<	7C1<	7	PF_IGBT_CONV_OC	PBX_BIDI	PF_IGBT_CONV_OC	5B8>	6B8>	7B8>	2B1<																
	6	GATE_SENSE_SV	PBX_BIDI	GATE_SENSE_SV	6A4				7	PF_IGBT_INV	PBX_BIDI	PF_IGBT_INV	3D3>	3C2<	5C1<	6C1<																
	6	I_SENSE_SV	PBX_BIDI	I_SENSE_SV	6A4								7C1<																			
	6	OCT_CONV_N	PBX_BIDI	OCT_CONV_N	5C4>	6C4>	7C4>	2B1<	7	PF_IGBT_INV_OC	PBX_BIDI	PF_IGBT_INV_OC	5B8>	6B8>	7B8>	3D1<																
	6	OCT_INV_N	PBX_BIDI	OCT_INV_N	5C4>	6C4>	7C4>	3D1<	7	PWM_TN	PBX_BIDI	PWM_TN	2C2>	7D1<																		
F	6	PF_IGBT_CONV_OC	PBX_BIDI	PF_IGBT_CONV_OC	5B8>	6B8>	7B8>	2B1<	7	PWM_TP	PBX_BIDI	PWM_TP	2C2>	7B1<																		
	6	PF_IGBT_INV	PBX_BIDI	PF_IGBT_INV	3D3>	3C2<	5C1<	6C1<	7	PWM_VCC_TW	PBX_BIDI	PWM_VCC_TW	7A3																			
					7C1<				7	PWM_WN	PBX_BIDI	PWM_WN	3B2>	7D1<																		
	6	PF_IGBT_INV_OC	PBX_BIDI	PF_IGBT_INV_OC	5B8>	6B8>	7B8>	3D1<	7	PWM_WP	PBX_BIDI	PWM_WP	3B2>	7B1<																		
	6	PWM_SN	PBX_BIDI	PWM_SN	2C2>	6D1<			7	REF_2V5_TW_N	PBX_BIDI	REF_2V5_TW_N	7B7																			
	Changes								WARNING								CIRCUIT DIAGRAM FOR				DWG G2A26800MX											
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																									DRAWN A. Tutat				ORIGINAL DATE			
																									CHK M. Dehmlow				2009-12-08			
																									APPD M. Dehmlow				SHEETS			
																CAD GENERATED CADENCE-CONCEPT								AUTH CA47A-000528 SHEET 17								

A3		1		2		3		4		5		6		7		8	
A	7	REF_2V5_TW_P	PBX_BIDI	REF_2V5_TW_P	7B6	10	CONTROL_555	PBX_BIDI	CONTROL_555	10C3	A						
	7	REF_3V9_TW_N	PBX_BIDI	REF_3V9_TW_N	7A7	10	DISCH_THRES_555	PBX_BIDI	DISCH_THRES_555	10C4							
	7	REF_3V9_TW_P	PBX_BIDI	REF_3V9_TW_P	7A6	10	DUMMY_COMP_A	PBX_BIDI	DUMMY_COMP_A	10B7							
	7	TWN_E21	PBX_BIDI	TWN_E21	7D8> 4C6<	10	DUMMY_COMP_B	PBX_BIDI	DUMMY_COMP_B	10B8							
	7	TWN_E22	PBX_BIDI	TWN_E22	7D8> 4C6<	10	GATE_TO_TRIGGER	PBX_BIDI	GATE_TO_TRIGGER	10C3							
	7	TWN_E23	PBX_BIDI	TWN_E23	7D8> 4C6<	10	OUTPUT_555	PBX_BIDI	OUTPUT_555	10C4							
	7	TWN_G21	PBX_BIDI	TWN_G21	7D8> 4B6<	10	OUTPUT_TP_555	PBX_BIDI	OUTPUT_TP_555	10C4							
	7	TWN_G22	PBX_BIDI	TWN_G22	7D8> 4C6<	10	PFAIL_COMP	PBX_BIDI	PFAIL_COMP	10C3							
	7	TWN_G23	PBX_BIDI	TWN_G23	7D8> 4C6<	10	PFAIL_N_FILTERE	PBX_BIDI	PFAIL_N_FILTERE	10C1							
	7	TWP_C1	PBX_BIDI	TWP_C1	4A6< 7B5<		D		D								
B	7	TWP_E11	PBX_BIDI	TWP_E11	7B8> 4B6<	10	PFAIL_RS	PBX_BIDI	PFAIL_RS	10C7> 2A1<	B						
	7	TWP_E12	PBX_BIDI	TWP_E12	7C8> 4B6<	10	REF_N	PBX_BIDI	REF_N	10C2							
	7	TWP_E13	PBX_BIDI	TWP_E12	7C8> 4B6<	10	REF_P	PBX_BIDI	REF_P	10C2							
	7	TWP_G11	PBX_BIDI	TWP_G11	7B8> 4B6<	10	TRIGGER_555	PBX_BIDI	TRIGGER_555	10C3							
	7	TWP_G12	PBX_BIDI	TWP_G12	7B8> 4B6<	10	VRS_N	PBX_BIDI	VRS_N	9A6> 10B1< 11C2<							
	7	TWP_G13	PBX_BIDI	TWP_G13	7B8> 4B6<	10	VRS_N_RECTIFIED	PBX_BIDI	VRS_N_RECTIFIED	10B3							
	8	24V_DRIVER	PBX_BIDI	24V_DRIVER	8B3> 5A1< 6A1< 7A1<	11	DUMMY_REF02_PRI_3	PBX_BIDI	DUMMY_REF02_PRI_3	11D2							
	8	24V_DRIVER_RTN	PBX_BIDI	24V_DRIVER_RTN	8B3> 5A1< 6A1< 7A1<												
	8	24V_SE	PBX_BIDI	24V_SE	2A6< 8B1< 8B1<	11	DUMMY_REF02_PRI_5	PBX_BIDI	DUMMY_REF02_PRI_5	11D2							
	8	24V_SE	PBX_BIDI	24V_SE	2A6< 8B1< 8B1<												
C	8	24V_SENSE	PBX_BIDI	24V_SENSE	3A2> 8D1<	11	REF_PRI	PBX_BIDI	REF_PRI	11D1	C						
	8	24V_SENSE_RTN	PBX_BIDI	24V_SENSE_RTN	3A2> 8D1<	11	REF_PRI_N	PBX_BIDI	REF_PRI_N	11C3> 12C2<							
	8	24V_SE_RTN	PBX_BIDI	24V_SE_RTN	2B6< 8B1< 8B1<	11	REF_SEC	PBX_BIDI	REF_SEC	14D4> 11C6< 12C6<							
	8	24V_SE_RTN	PBX_BIDI	24V_SE_RTN	2B6< 8B1< 8B1<	11	VRS_DC_N	PBX_BIDI	VRS_DC_N	11B2							
	8	24V_SMPS_SENSE	PBX_BIDI	24V_SMPS_SENSE	8B2	11	VRS_N	PBX_BIDI	VRS_N	9A6> 10B1< 11C2<							
	8	24V_SMPS_SENSE_RTN	PBX_BIDI	24V_SMPS_SENSE_RTN	8D4	11	VRS_OUT_DC_N	PBX_BIDI	VRS_OUT_DC_N	11B6							
	8	24V_SW	PBX_BIDI	24V_SW	8A1	11	VRS_OUT_N	PBX_BIDI	VRS_OUT_N	11B8> 2C2<							
	8	24V_SW_RTN	PBX_BIDI	24V_SW_RTN	8A1	12	REF_PRI_N	PBX_BIDI	REF_PRI_N	11C3> 12C2<							
	8	ISENSE	PBX_BIDI	ISENSE	8C5	12	REF_SEC	PBX_BIDI	REF_SEC	14D4> 11C6< 12C6<							
	8	I_SENSE_PWM_CON_TROLLER	PBX_BIDI	I_SENSE_PWM_CON_TROLLER	8D5	12	VST_DC_N	PBX_BIDI	VST_DC_N	12B2							
D	8	SENSE_PWM_CONTR_OLLER_SUPPLY	PBX_BIDI	SENSE_PWM_CONTR_OLLER_SUPPLY	8B3	12	VST_N	PBX_BIDI	VST_N	9B6> 12C2<	D						
	8	SMPS_SENSE_DRAIN	PBX_BIDI	SMPS_SENSE_DRAIN	8C5	12	VST_OUT_DC_N	PBX_BIDI	VST_OUT_DC_N	12B6							
	8	SMPS_SENSE_GATE	PBX_BIDI	SMPS_SENSE_GATE	8C5	12	VST_OUT_N	PBX_BIDI	VST_OUT_N	12B8> 2C2<							
	8	VCC_PWM_CONTROL_LER	PBX_BIDI	VCC_PWM_CONTROL_LER	8C4	13	DCN_U_ME	PBX_BIDI	DCN_U_ME	4C2> 13C2<							
	9	DCN_LED	PBX_BIDI	DCN_LED	4C7> 9D3<	13	DCN_U_ME_1	PBX_BIDI	DCN_U_ME_1	13C1							
	9	DCN_LED_1	PBX_BIDI	DCN_LED_1	9D3	13	DCP_U_ME	PBX_BIDI	DCP_U_ME	4A2> 13A2<							
	9	DCN_LED_2	PBX_BIDI	DCN_LED_2	9D4	13	DCP_U_ME_1	PBX_BIDI	DCP_U_ME_1	13B1							
	9	DCN_LED_3	PBX_BIDI	DCN_LED_3	9D4	13	DC_ME	PBX_BIDI	DC_ME	13B3							
	9	DCN_LED_4	PBX_BIDI	DCN_LED_4	9D4	13	UDCL	PBX_BIDI	UDCL	13C7> 3C2<							
	9	DCN_LED_5	PBX_BIDI	DCN_LED_5	9D4	13	V+15V	PBX_BIDI	V+15V	13B5 13C5							
	9	DCN_LED_6	PBX_BIDI	DCN_LED_6	9D5	13	V+15V	PBX_BIDI	V+15V	13B5 13C5							
	9	DCP_LED	PBX_BIDI	DCP_LED	4A7> 9C4<	14	5V_REF	PBX_BIDI	5V_REF	14D2							
	9	UR	PBX_BIDI	UR	2D7> 9A1<	14	DUMMY_REF02_SEC_3	PBX_BIDI	DUMMY_REF02_SEC_3	14D1							
	9	UR_LOW_IMP	PBX_BIDI	UR_LOW_IMP	9A3	14	DUMMY_REF02_SEC_5	PBX_BIDI	DUMMY_REF02_SEC_5	14D1							
	9	US	PBX_BIDI	US	2D7> 9B1<	14	NTC1	PBX_BIDI	NTC1	4C5> 14B1<							
	9	US_LOW_IMP	PBX_BIDI	US_LOW_IMP	9B3	14	NTC2	PBX_BIDI	NTC2	4C5> 14B1<							
	9	UT	PBX_BIDI	UT	2D7> 9B1<	14	NTC_DS	PBX_BIDI	NTC_DS	14C3							
	9	UT_LOW_IMP	PBX_BIDI	UT_LOW_IMP	9B3	14	REF_SEC	PBX_BIDI	REF_SEC	14D4> 11C6< 12C6<							
	9	VRS_N	PBX_BIDI	VRS_N	9A6> 10B1< 11C2<	14	TEMP_IGBT	PBX_BIDI	TEMP_IGBT	14C6							
	9	VST_N	PBX_BIDI	VST_N	9B6> 12C2<	14	TEMP_IGBT_CONV	PBX_BIDI	TEMP_IGBT_CONV	14C8> 2D2<							
Changes					THIS WORK AND THE INFORMATION IT CONTAINS ARE THE PROPERTY OF OTIS ELEVATOR COMPANY (OTIS). IT IS DELIVERED TO OTHERS ON THE EXPRESS CONDITION THAT IT WILL BE USED ONLY FOR OR ON BEHALF OF OTIS ; THAT NEITHER IT OR NOR THE INFORMATION IT CONTAINS WILL BE REPRODUCED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF OTIS ; AND THAT ON DEMAND IT AND ANY COPIES WILL BE PROMPTLY RETURNED TO OTIS.  UNPUBLISHED WORK (C) OTIS ELEVATOR COMPANY ALL RIGHTS RESERVED.					CIRCUIT DIAGRAM FOR  PBX_BIDI   CAD GENERATED CADENCE-CONCEPT		DWG G2A26800MX OTIS ENGINEERING CENTER BERLIN, GERMANY DRAWN A. Tutat ORIGINAL DATE CHK M. Dehmlow 2009-12-08 APPD M. Dehmlow SHEETS AUTH CA47A-000528 SHEET 18					

A3		1		2		3		4		5		6		7		8	
A	<div><div>Title: Cref Part Report</div><div>Design: pbx_bidi</div><div>Date: Dec 10 9:31:03 2009</div></div>																A
B	<div><div>+15V MP_THT pbx_bidi[ 2D3 ]</div><div>-15V MP_THT pbx_bidi[ 2D3 ]</div><div>5V_HL2 MP_THT pbx_bidi[ 3B8 ]</div><div>24V_HL2 MP_THT pbx_bidi[ 3A4 ]</div><div>24V_SENSE MP_THT pbx_bidi[ 3A3 ]</div><div>24V_SENSE_ MP_THT pbx_bidi[ 3A3 ]</div><div>RTN</div><div>AGND MP_THT pbx_bidi[ 2D1 ]</div><div>A_GND MP_THT pbx_bidi[ 2D1 ]</div><div>C1 C_0603 pbx_bidi[ 3B8 ]</div><div>C2 C_0603 pbx_bidi[ 3C8 ]</div><div>C3 C_1210 pbx_bidi[ 3C8 ]</div><div>C4 C_1210 pbx_bidi[ 3B5 ]</div><div>C5 C_1210 pbx_bidi[ 3B5 ]</div><div>C6 C_0603 pbx_bidi[ 3B5 ]</div><div>C7 C_1210 pbx_bidi[ 3B5 ]</div><div>C8 C_1210 pbx_bidi[ 3B5 ]</div><div>C9 C_0603 pbx_bidi[ 3B5 ]</div><div>C10 C_0603 pbx_bidi[ 3C6 ]</div><div>C11 C_1210 pbx_bidi[ 3C5 ]</div><div>C12 C_1210 pbx_bidi[ 3C6 ]</div><div>C13 C_0603 pbx_bidi[ 3C6 ]</div><div>C14 C_1210 pbx_bidi[ 3D7 ]</div><div>C15 C_0603 pbx_bidi[ 3D6 ]</div><div>C16 C_0805 pbx_bidi[ 3C6 ]</div><div>C17 C_1210 pbx_bidi[ 2C8 ]</div><div>C18 C_0603 pbx_bidi[ 2C8 ]</div><div>C19 C_0603 pbx_bidi[ 2C8 ]</div><div>C20 C_1210 pbx_bidi[ 2C8 ]</div><div>C21 CAP_THT pbx_bidi[ 8C2 ]</div><div>C22 C_1210 pbx_bidi[ 8C2 ]</div><div>C23 C_0805 pbx_bidi[ 2B2 ]</div><div>C24 C_0603 pbx_bidi[ 3D7 ]</div><div>C25 C_0603 pbx_bidi[ 3D5 ]</div><div>C26 C_1210 pbx_bidi[ 3D5 ]</div><div>C27 C_0603 pbx_bidi[ 3C5 ]</div><div>C28 C_0603 pbx_bidi[ 3D5 ]</div><div>C29 C_1210 pbx_bidi[ 3D5 ]</div><div>C30 C_1210 pbx_bidi[ 3D5 ]</div><div>C31 C_0603 pbx_bidi[ 5D1 ]</div><div>C32 C_0805 pbx_bidi[ 2B2 ]</div><div>C33 C_0805 pbx_bidi[ 2B2 ]</div><div>C34 C_0603 pbx_bidi[ 5B1 ]</div><div>C35 C_0603 pbx_bidi[ 5D2 ]</div><div>C36 C_1210 pbx_bidi[ 5D2 ]</div><div>C37 C_0603 pbx_bidi[ 5A3 ]</div><div>C38 C_1210 pbx_bidi[ 5A3 ]</div><div>C39 C_1210 pbx_bidi[ 5A3 ]</div><div>C40 C_0603 pbx_bidi[ 5A2 ]</div><div>C41 C_0603 pbx_bidi[ 5A2 ]</div></div>																B
C	<div><div>C42 C_0603 pbx_bidi[ 5A4 ]</div><div>C43 C_1210 pbx_bidi[ 5A4 ]</div><div>C44 C_1210 pbx_bidi[ 5A4 ]</div><div>C45 C_1210 pbx_bidi[ 5A4 ]</div><div>C46 C_0603 pbx_bidi[ 5C2 ]</div><div>C47 C_0603 pbx_bidi[ 5A2 ]</div><div>C48 C_0603 pbx_bidi[ 5A1 ]</div><div>C49 C_1210 pbx_bidi[ 5B2 ]</div><div>C50 C_0603 pbx_bidi[ 5A1 ]</div><div>C51 C_0805 pbx_bidi[ 13C5 ]</div><div>C52 C_0603 pbx_bidi[ 13C4 ]</div><div>C53 C_0603 pbx_bidi[ 13D4 ]</div><div>C54 C_0603 pbx_bidi[ 5B4 ]</div><div>C55 C_1210 pbx_bidi[ 5C4 ]</div><div>C56 C_1210 pbx_bidi[ 5C4 ]</div><div>C57 C_0603 pbx_bidi[ 5C4 ]</div><div>C58 C_0603 pbx_bidi[ 5D3 ]</div><div>C59 C_1210 pbx_bidi[ 5D3 ]</div><div>C60 C_0603 pbx_bidi[ 5B4 ]</div><div>C61 C_0805 pbx_bidi[ 13D7 ]</div><div>C62 C_0603 pbx_bidi[ 5D4 ]</div><div>C63 C_1210 pbx_bidi[ 5D4 ]</div><div>C64 C_1210 pbx_bidi[ 5D4 ]</div><div>C65 C_0603 pbx_bidi[ 5D4 ]</div><div>C66 C_0603 pbx_bidi[ 5C5 ]</div><div>C67 C_0603 pbx_bidi[ 5D4 ]</div><div>C68 C_0805 pbx_bidi[ 5A6 ]</div><div>C69 C_0805 pbx_bidi[ 5A6 ]</div><div>C70 C_0603 pbx_bidi[ 14D7 ]</div><div>C71 C_0603 pbx_bidi[ 5D5 ]</div><div>C72 CAP_THT pbx_bidi[ 5A7 ]</div><div>C73 C_0603 pbx_bidi[ 5A7 ]</div><div>C74 C_1210 pbx_bidi[ 5A6 ]</div><div>C75 C_1210 pbx_bidi[ 5A7 ]</div><div>C76 C_1210 pbx_bidi[ 5A7 ]</div><div>C77 C_1210 pbx_bidi[ 5A7 ]</div><div>C78 CAP_THT pbx_bidi[ 5A7 ]</div><div>C79 C_0603 pbx_bidi[ 5A7 ]</div><div>C80 C_1210 pbx_bidi[ 5A6 ]</div><div>C81 C_1210 pbx_bidi[ 5A7 ]</div><div>C82 C_1210 pbx_bidi[ 5A7 ]</div><div>C83 C_1210 pbx_bidi[ 5A7 ]</div><div>C84 C_0603 pbx_bidi[ 4C1 ]</div><div>C85 C_1210 pbx_bidi[ 4C1 ]</div><div>C86 C_1210 pbx_bidi[ 4C1 ]</div><div>C87 C_0603 pbx_bidi[ 14B7 ]</div><div>C88 C_0603 pbx_bidi[ 14B7 ]</div><div>C89 C_0603 pbx_bidi[ 14A1 ]</div><div>C90 C_0603 pbx_bidi[ 14A1 ]</div><div>C91 C_0603 pbx_bidi[ 4D1 ]</div><div>C92 C_1210 pbx_bidi[ 4D1 ]</div><div>C93 C_1210 pbx_bidi[ 4D1 ]</div><div>C94 C_0603 pbx_bidi[ 14D5 ]</div><div>C95 C_0603 pbx_bidi[ 14B3 ]</div><div>C96 C_THT pbx_bidi[ 4B1 ]</div></div>																C
D	<div><div>Changes</div></div>																D
	<div><div><div><div>THIS WORK AND THE INFORMATION IT CONTAINS ARE THE PROPERTY OF OTIS ELEVATOR COMPANY (OTIS). IT IS DELIVERED TO OTHERS ON THE EXPRESS CONDITION THAT IT WILL BE USED ONLY FOR OR ON BEHALF OF OTIS ; THAT NEITHER IT OR NOR THE INFORMATION IT CONTAINS WILL BE REPRODUCED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF OTIS ; AND THAT ON DEMAND IT AND ANY COPIES WILL BE PROMPTLY RETURNED TO OTIS.</div><div>UNPUBLISHED WORK (C) OTIS ELEVATOR COMPANY ALL RIGHTS RESERVED.</div><div><div><div></div><div>Otis</div><div>A United Technologies Company</div></div></div></div></div></div> <div><div>CIRCUIT DIAGRAM FOR</div><div>PBX_BIDI</div><div>CAD GENERATED CADENCE-CONCEPT</div></div> <div><div>DWG G2A26800MX</div><div>OTIS ENGINEERING CENTER BERLIN, GERMANY</div><div><div>DRAWN A. Tutat</div><div>CHK M. Dehmlow</div><div>APPD M. Dehmlow</div><div>AUTH CA47A-000528</div></div><div><div>ORIGINAL DATE</div><div>2009-12-08</div><div>SHEETS</div><div>SHEET 19</div></div></div>																

OCB A3  
REV 2004-09-06

05C03\_A3  
REV 2004-09-06

A3		1	2	3	4	5	6	7	8			
A	B	C97	C_THT	pbx_bidi[	4B1 ]	C152	C_0603	pbx_bidi[	6D5 ]	A		
		C98	C_1210	pbx_bidi[	14C3 ]	C153	CAP_THT	pbx_bidi[	6A7 ]			
		C99	C_1210	pbx_bidi[	14D1 ]	C154	C_0603	pbx_bidi[	6A7 ]			
		C100	C_0603	pbx_bidi[	12A2 ]	C155	C_1210	pbx_bidi[	6A6 ]			
		C101	C_0603	pbx_bidi[	12A2 ]	C156	C_1210	pbx_bidi[	6A7 ]			
		C102	C_0603	pbx_bidi[	6D1 ]	C157	C_1210	pbx_bidi[	6A7 ]			
		C103	C_0603	pbx_bidi[	12B3 ]	C158	C_1210	pbx_bidi[	6A7 ]			
		C104	C_0603	pbx_bidi[	6B1 ]	C159	CAP_THT	pbx_bidi[	6A7 ]			
		C105	C_0805	pbx_bidi[	12C7 ]	C160	C_0603	pbx_bidi[	6A7 ]			
		C106	C_0603	pbx_bidi[	6D2 ]	C161	C_1210	pbx_bidi[	6A6 ]			
		C107	C_1210	pbx_bidi[	6D2 ]	C162	C_1210	pbx_bidi[	6A7 ]			
		C108	C_0603	pbx_bidi[	6A3 ]	C163	C_1210	pbx_bidi[	6A7 ]			
		C109	C_1210	pbx_bidi[	6A3 ]	C164	C_1210	pbx_bidi[	6A7 ]			
		C110	C_1210	pbx_bidi[	6A3 ]	C165	C_0805	pbx_bidi[	10B4 ]			
		C111	C_0603	pbx_bidi[	6A2 ]	C166	C_0603	pbx_bidi[	10B6 ]			
		C112	C_0603	pbx_bidi[	6A2 ]	C167	C_0805	pbx_bidi[	10C2 ]			
		C113	C_0603	pbx_bidi[	6A4 ]	C168	C_THT	pbx_bidi[	4B4 ]			
		C114	C_1210	pbx_bidi[	6A4 ]	C169	C_THT	pbx_bidi[	4B4 ]			
		C115	C_1210	pbx_bidi[	6A4 ]	C170	C_1210	pbx_bidi[	10C5 ]			
		C116	C_1210	pbx_bidi[	6A4 ]	C171	C_1210	pbx_bidi[	4D2 ]			
C117	C_0805	pbx_bidi[	12C3 ]	C172	C_0603	pbx_bidi[	7D1 ]	B				
C118	C_0603	pbx_bidi[	6C2 ]	C173	C_0603	pbx_bidi[	7B1 ]					
C119	C_0603	pbx_bidi[	6A2 ]	C174	C_0603	pbx_bidi[	7D2 ]					
C120	C_0603	pbx_bidi[	6A1 ]	C175	C_1210	pbx_bidi[	7D2 ]					
C121	C_0603	pbx_bidi[	11A8 ]	C176	C_1210	pbx_bidi[	4C2 ]					
C122	C_0603	pbx_bidi[	11B8 ]	C177	C_0603	pbx_bidi[	7A3 ]					
C123	C_0603	pbx_bidi[	11A2 ]	C178	C_1210	pbx_bidi[	7A3 ]					
C124	C_0603	pbx_bidi[	11A2 ]	C179	C_1210	pbx_bidi[	7A3 ]					
C125	C_0805	pbx_bidi[	12C6 ]	C180	C_0603	pbx_bidi[	7A2 ]					
C126	C_0603	pbx_bidi[	11B3 ]	C181	C_0603	pbx_bidi[	7A2 ]					
C127	C_1210	pbx_bidi[	6B2 ]	C182	C_0603	pbx_bidi[	7A4 ]					
C128	C_0603	pbx_bidi[	6A1 ]	C183	C_1210	pbx_bidi[	7A4 ]					
C129	C_1210	pbx_bidi[	11D1 ]	C184	C_1210	pbx_bidi[	7A4 ]					
C130	C_0805	pbx_bidi[	11C6 ]	C185	C_1210	pbx_bidi[	7A4 ]					
C131	C_0805	pbx_bidi[	11C2 ]	C186	C_0603	pbx_bidi[	7C2 ]					
C132	C_0805	pbx_bidi[	11C3 ]	C187	C_1210	pbx_bidi[	10C4 ]					
C133	C_0603	pbx_bidi[	6B4 ]	C188	CAP_TANTAL-C	pbx_bidi[	10C4 ]					
C134	C_1210	pbx_bidi[	6C4 ]	C189	C_0603	pbx_bidi[	7A2 ]					
C135	C_1210	pbx_bidi[	6C4 ]	C190	C_0603	pbx_bidi[	7A1 ]					
C136	C_0603	pbx_bidi[	6C4 ]	C191	C_1210	pbx_bidi[	7B2 ]					
C137	C_0603	pbx_bidi[	6D3 ]	C192	C_0603	pbx_bidi[	7A1 ]	C				
C138	C_1210	pbx_bidi[	6D3 ]	C193	C_0603	pbx_bidi[	7B4 ]					
C139	C_0603	pbx_bidi[	6B4 ]	C194	C_1210	pbx_bidi[	7C4 ]					
C140	C_0805	pbx_bidi[	11C7 ]	C195	C_1210	pbx_bidi[	7C4 ]					
C141	C_0603	pbx_bidi[	6D4 ]	C196	C_0603	pbx_bidi[	7C4 ]					
C142	C_1210	pbx_bidi[	6D4 ]	C197	C_0603	pbx_bidi[	7D3 ]					
C143	C_1210	pbx_bidi[	6D4 ]	C198	C_1210	pbx_bidi[	7D3 ]					
C144	C_0603	pbx_bidi[	6D4 ]	C199	C_0603	pbx_bidi[	7B4 ]					
C145	C_0603	pbx_bidi[	6C5 ]	C200	C_1210	pbx_bidi[	8D2 ]					
C146	C_0603	pbx_bidi[	6D4 ]	C201	CAP_THT	pbx_bidi[	8D2 ]					
C147	C_0805	pbx_bidi[	6A6 ]	C202	C_1210	pbx_bidi[	8D3 ]					
C148	C_0805	pbx_bidi[	6A6 ]	C203	C_0603	pbx_bidi[	7D4 ]					
C149	C_0603	pbx_bidi[	10A5 ]	C204	C_1210	pbx_bidi[	7D4 ]					
C150	C_0603	pbx_bidi[	10B5 ]	C205	C_1210	pbx_bidi[	7D4 ]					
C151	C_0805	pbx_bidi[	10B2 ]	C206	C_0603	pbx_bidi[	7D4 ]					
D	D									D		
											D	

A3		1		2		3		4		5		6		7		8	
A	C207	C_0603	pbx_bidi[	7C5	]	C262	C_0603	pbx_bidi[	5C3	]	A						
	C208	C_0603	pbx_bidi[	7D4	]	C263	C_0805	pbx_bidi[	13B3	]							
	C209	C_0805	pbx_bidi[	8C7	]	C264	C_0603	pbx_bidi[	13B4	]		B					
	C210	C_0805	pbx_bidi[	8C6	]	C265	C_0805	pbx_bidi[	13D6	]							
	C211	C_1210	pbx_bidi[	8D7	]	C266	C_0805	pbx_bidi[	13C2	]							
	C212	C_0805	pbx_bidi[	8D7	]	C267	C_0603	pbx_bidi[	5B6	]							
	C213	C_0805	pbx_bidi[	7A6	]	C268	C_0603	pbx_bidi[	5B7	]							
	C214	C_0805	pbx_bidi[	7A6	]	C269	C_0603	pbx_bidi[	5B7	]							
	C215	C_0805	pbx_bidi[	8B7	]	C270	C_0603	pbx_bidi[	5D6	]							
	C216	C_0603	pbx_bidi[	7D5	]	C271	C_0603	pbx_bidi[	5D7	]							
	C217	C_1210	pbx_bidi[	8B7	]	C272	C_0603	pbx_bidi[	5D7	]							
	C218	CAP_THT	pbx_bidi[	8B7	]	C273	C_0603	pbx_bidi[	14D6	]							
	C219	CAP_THT	pbx_bidi[	7A7	]	C274	C_0603	pbx_bidi[	14C5	]							
	C220	C_0603	pbx_bidi[	7A7	]	C275	C_0805	pbx_bidi[	14D3	]							
	C221	C_1210	pbx_bidi[	7A6	]	C276	C_0603	pbx_bidi[	5B7	]							
	C222	C_1210	pbx_bidi[	7A7	]	C277	C_0603	pbx_bidi[	5B6	]							
	C223	C_1210	pbx_bidi[	7A7	]	C278	C_0603	pbx_bidi[	14C2	]							
	C224	C_1210	pbx_bidi[	7A7	]	C279	C_0603	pbx_bidi[	14D1	]							
	C225	CAP_THT	pbx_bidi[	7A7	]	C280	C_0805	pbx_bidi[	12C5	]							
	C226	C_0603	pbx_bidi[	7A7	]	C281	C_0603	pbx_bidi[	6C3	]							
C227	C_1210	pbx_bidi[	7A6	]	C282	C_0603	pbx_bidi[	11D2	]								
C228	C_1210	pbx_bidi[	7A7	]	C283	C_0805	pbx_bidi[	11C5	]								
C229	C_1210	pbx_bidi[	7A7	]	C284	C_0603	pbx_bidi[	6B6	]								
C230	C_1210	pbx_bidi[	7A7	]	C285	C_0603	pbx_bidi[	6B7	]								
C231	C_1210	pbx_bidi[	8D5	]	C286	C_0603	pbx_bidi[	6B7	]								
C232	C_1210	pbx_bidi[	8D5	]	C287	C_0603	pbx_bidi[	6D6	]								
C233	C_1210	pbx_bidi[	8B7	]	C288	C_0603	pbx_bidi[	6D7	]								
C234	CAP_THT	pbx_bidi[	8B8	]	C289	C_0603	pbx_bidi[	6D7	]								
C235	C_0805	pbx_bidi[	8C7	]	C290	C_0603	pbx_bidi[	10C1	]								
C236	C_THT	pbx_bidi[	4B7	]	C291	C_0805	pbx_bidi[	10C1	]								
C237	C_THT	pbx_bidi[	4B6	]	C292	C_0603	pbx_bidi[	6B7	]								
C238	C_0805	pbx_bidi[	3D1	]	C293	C_0603	pbx_bidi[	6B6	]								
C239	C_0805	pbx_bidi[	9A8	]	C294	C_0603	pbx_bidi[	10C5	]								
C240	C_0805	pbx_bidi[	9A8	]	C295	C_0603	pbx_bidi[	10C4	]								
C241	C_1210	pbx_bidi[	8A2	]	C296	C_0603	pbx_bidi[	10C5	]								
C242	C_1210	pbx_bidi[	8A2	]	C297	C_0603	pbx_bidi[	7C3	]								
C243	C_0805	pbx_bidi[	8A2	]	C298	C_0603	pbx_bidi[	7B6	]								
C244	C_0805	pbx_bidi[	3D1	]	C299	C_0603	pbx_bidi[	7B7	]								
C245	C_1210	pbx_bidi[	3A8	]	C300	C_0603	pbx_bidi[	7B7	]								
C246	C_0603	pbx_bidi[	3A8	]	C301	C_0805	pbx_bidi[	8D3	]								
C247	C_0603	pbx_bidi[	3A8	]	C302	C_0805	pbx_bidi[	8D2	]								
C248	C_1210	pbx_bidi[	3A8	]	C303	C_0603	pbx_bidi[	7D6	]								
C249	CAP_THT	pbx_bidi[	8A2	]	C304	C_0805	pbx_bidi[	8C7	]								
C250	C_1210	pbx_bidi[	9D3	]	C305	C_0805	pbx_bidi[	8D3	]								
C251	C_1210	pbx_bidi[	9D4	]	C306	C_0805	pbx_bidi[	8D4	]								
C252	C_1210	pbx_bidi[	9D5	]	C307	C_0805	pbx_bidi[	8D4	]								
C253	C_1210	pbx_bidi[	9D5	]	C308	C_0603	pbx_bidi[	7D7	]								
C254	C_0603	pbx_bidi[	3B5	]	C309	C_0805	pbx_bidi[	8D4	]								
C255	C_0603	pbx_bidi[	3B5	]	C310	C_0603	pbx_bidi[	7D7	]								
C256	C_0805	pbx_bidi[	8C1	]	C311	C_0805	pbx_bidi[	8B8	]								
C257	C_0805	pbx_bidi[	3B7	]	C312	C_0603	pbx_bidi[	8D5	]								
C258	C_0603	pbx_bidi[	3C5	]	C313	C_0805	pbx_bidi[	8B8	]								
C259	C_0603	pbx_bidi[	3D6	]	C314	C_0603	pbx_bidi[	7B7	]								
C260	C_0805	pbx_bidi[	13B2	]	C315	C_0603	pbx_bidi[	7B6	]								
C261	C_0805	pbx_bidi[	13D5	]	C316	C_0805	pbx_bidi[	2B7	]								
B											B						
												C					
	C													C			
											D						
D													D				

Changes

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CIRCUIT DIAGRAM FOR

PBX\_BIDI

CAD GENERATED  
CADENCE-CONCEPT

DWG G2A26800MX

OTIS ENGINEERING CENTER  
BERLIN, GERMANY

DRAWN A. Tutat

CHK M. Dehmlow

APPD M. Dehmlow

AUTH CA47A-000528


ORIGINAL DATE

2009-12-08

SHEETS

SHEET 21

DEC8 A3  
REV 2004-09-06

A3		1		2		3		4		5		6		7		8			
A	A	C317	C_0805	pbx_bidi[	9B3 ]	D49	US1G_SMD	pbx_bidi[	5B6 ]	A	A								
		C318	C_0805	pbx_bidi[	9B3 ]	D50	US1G_SMD	pbx_bidi[	5C6 ]										
		C319	C_0805	pbx_bidi[	9A3 ]	D51	US1G_SMD	pbx_bidi[	5C6 ]										
		C320	C_0805	pbx_bidi[	9D3 ]	D52	TMMBAT42_MELF	pbx_bidi[	5D4 ]										
		CS1	LA200P_THT	pbx_bidi[	4C3 ]	D53	US1G_SMD	pbx_bidi[	5D6 ]										
		CS2	LA200P_THT	pbx_bidi[	4D3 ]	D54	US1G_SMD	pbx_bidi[	5D6 ]										
		CS3	LA200P_THT	pbx_bidi[	4D3 ]	D55	US1G_SMD	pbx_bidi[	5D6 ]										
		D1	BAT54S_SMD	pbx_bidi[	3D6 ]	D56	TMMBAT42_MELF	pbx_bidi[	6B4 ]										
		D2	BAT54S_SMD	pbx_bidi[	3D7 ]	D57	US1G_SMD	pbx_bidi[	6B6 ]										
		D3	BAT54S_SMD	pbx_bidi[	3D6 ]	D58	US1G_SMD	pbx_bidi[	6C6 ]										
B	B	D4	BAT54S_SMD	pbx_bidi[	3D4 ]	D59	US1G_SMD	pbx_bidi[	6C6 ]	B	B								
		D5	LCDA12_SOIC	pbx_bidi[	3D4 3D4 ]	D60	TMMBAT42_MELF	pbx_bidi[	6D4 ]										
		D6	10MQ040N_SMD	pbx_bidi[	5A4 ]	D61	US1G_SMD	pbx_bidi[	6D6 ]										
		D7	BAS19_SMD	pbx_bidi[	5A2 ]	D62	US1G_SMD	pbx_bidi[	6D6 ]										
		D8	BAT54S_SMD	pbx_bidi[	13B3 ]	D63	US1G_SMD	pbx_bidi[	6D6 ]										
		D9	LCDA12_SOIC	pbx_bidi[	13C2 13B2 ]	D64	TMMBAT42_MELF	pbx_bidi[	7B4 ]										
		D10	RGP02_20E_THT	pbx_bidi[	5B5 ]	D65	US1G_SMD	pbx_bidi[	7B6 ]										
		D11	US1G_SMD	pbx_bidi[	5B5 ]	D66	US1G_SMD	pbx_bidi[	7C6 ]										
		D12	US1G_SMD	pbx_bidi[	5D5 ]	D67	US1G_SMD	pbx_bidi[	7C6 ]										
		D13	BAS19_SMD	pbx_bidi[	5A6 ]	D68	TMMBAT42_MELF	pbx_bidi[	7D4 ]										
C	C	D14	BAS19_SMD	pbx_bidi[	5A6 ]	D69	BYG22D_SMD	pbx_bidi[	8D7 ]	C	C								
		D15	RGP02_20E_THT	pbx_bidi[	5D5 ]	D70	US1G_SMD	pbx_bidi[	7D6 ]										
		D16	BAV99_SMD	pbx_bidi[	5A6 ]	D71	US1G_SMD	pbx_bidi[	7D6 ]										
		D17	BAV99_SMD	pbx_bidi[	5A7 ]	D72	US1G_SMD	pbx_bidi[	7D6 ]										
		D18	10MQ040N_SMD	pbx_bidi[	6A4 ]	D73	BYG22D	pbx_bidi[	8B5 ]										
		D19	BAS19_SMD	pbx_bidi[	6A2 ]	D74	BYG22D_SMD	pbx_bidi[	8B6 ]										
		D20	RGP02_20E_THT	pbx_bidi[	6B5 ]	D75	BYG22D_SMD	pbx_bidi[	8B5 ]										
		D21	US1G_SMD	pbx_bidi[	6B5 ]	D76	10MQ040N_SMD	pbx_bidi[	8A2 ]										
		D22	US1G_SMD	pbx_bidi[	6D5 ]	D77	D1F60_SMD	pbx_bidi[	9C5 ]										
		D23	BAS19_SMD	pbx_bidi[	6A6 ]	D78	D1F60_SMD	pbx_bidi[	2A8 ]										
D	D	D24	BAS19_SMD	pbx_bidi[	6A6 ]	DCN_ME_1	MP_THT	pbx_bidi[	13C2 ]	D	D								
		D25	BAT54S_SMD	pbx_bidi[	10B3 ]	DCP_ME_1	MP_THT	pbx_bidi[	13B2 ]										
		D26	RGP02_20E_THT	pbx_bidi[	6D5 ]	DC_ME	MP_THT	pbx_bidi[	13B3 ]										
		D27	BAT54S_SMD	pbx_bidi[	10A3 ]	DC_VRS	MP_THT	pbx_bidi[	11C3 ]										
		D28	BAV99_SMD	pbx_bidi[	6A6 ]	DC_VST	MP_THT	pbx_bidi[	12C3 ]										
		D29	BAV99_SMD	pbx_bidi[	6A7 ]	DGND	MP_THT	pbx_bidi[	2D1 ]										
		D30	BAS16_SMD	pbx_bidi[	10C3 ]	HL2	MP_THT	pbx_bidi[	3A4 ]										
		D31	BAS16_SMD	pbx_bidi[	10C3 ]	IR	MP_THT	pbx_bidi[	4C3 ]										
		D32	10MQ040N_SMD	pbx_bidi[	7A4 ]	IRU	MP_THT	pbx_bidi[	4D3 ]										
		D33	BAS19_SMD	pbx_bidi[	7A2 ]	IS	MP_THT	pbx_bidi[	4D3 ]										
D	D	D34	RGP02_20E_THT	pbx_bidi[	7B5 ]	ISV	MP_THT	pbx_bidi[	4D3 ]	D	D								
		D35	US1G_SMD	pbx_bidi[	7B5 ]	IU	MP_THT	pbx_bidi[	4C3 ]										
		D36	US1G_SMD	pbx_bidi[	7D5 ]	IV	MP_THT	pbx_bidi[	4D3 ]										
		D37	BAS19_SMD	pbx_bidi[	7A6 ]	IW	MP_THT	pbx_bidi[	4D3 ]										
		D38	BAS19_SMD	pbx_bidi[	7A6 ]	I_W	MP_THT	pbx_bidi[	4D3 ]										
		D39	RGP02_20E_THT	pbx_bidi[	7D5 ]	JP1	JUMPER_0805	pbx_bidi[	2B3 ]										
		D40	BYG22D_SMD	pbx_bidi[	8B7 ]	JP2	JUMPER_0805	pbx_bidi[	2B3 ]										
		D41	BYG22D_SMD	pbx_bidi[	8B7 ]	JP3	JUMPER_0603	pbx_bidi[	5C3 ]										
		D42	10MQ040N_SMD	pbx_bidi[	8C5 ]	JP4	JUMPER_0603	pbx_bidi[	5C3 ]										
		D43	BAV99_SMD	pbx_bidi[	7A6 ]	JP5	JUMPER_0603	pbx_bidi[	14C7 ]										
D	D	D44	BAV99_SMD	pbx_bidi[	7A7 ]	JP6	JUMPER_0603	pbx_bidi[	14C7 ]	D	D								
		D45	LCDA12_SOIC	pbx_bidi[	9B2 9B2 ]	JP7	JUMPER_0603	pbx_bidi[	5B8 ]										
		D46	LCDA12_SOIC	pbx_bidi[	9B2 9B2 ]	JP8	JUMPER_0603	pbx_bidi[	5B8 ]										
		D47	LCDA12_SOIC	pbx_bidi[	9B2 9B2 ]	JP9	JUMPER_0603	pbx_bidi[	6C3 ]										
		D48	TMMBAT42_MELF	pbx_bidi[	5B4 ]	JP10	JUMPER_0603	pbx_bidi[	6C3 ]										
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					 Otis A United Technologies Company					CAD GENERATED CADENCE-CONCEPT					DRAWN A. Tutat CHK M. Dehmlow APPD M. Dehmlow AUTH CA47A-000528				
															ORIGINAL DATE 2009-12-08 SHEETS SHEET 22				

QECB\_A3  
REV 2004-09-06



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A3		1		2		3		4		5		6		7		8	
A	B	JP11	JUMPER_0603	pbx_bidi[	6B8 ]	Q23	IRFS23N15D_D2PAK	pbx_bidi[	8C6 ]	A	B						
		JP12	JUMPER_0603	pbx_bidi[	6B8 ]	Q24	BC817_SMD	pbx_bidi[	2A8 ]								
		JP13	JUMPER_0603	pbx_bidi[	7C3 ]	Q25	BC817_SMD	pbx_bidi[	3A7 ]			C	D				
		JP14	JUMPER_0603	pbx_bidi[	7C3 ]	Q26	ZXMN10A11G_SMD	pbx_bidi[	5A5 ]								
		JP15	JUMPER_0603	pbx_bidi[	7B8 ]	Q27	SEMIX453GB12E4S_THT	pbx_bidi[	4B2 ]								
		JP16	JUMPER_0603	pbx_bidi[	7B8 ]	Q28	BDP949_SMD	pbx_bidi[	5B7 ]								
		JP17	JUMPER_0603	pbx_bidi[	4D3 ]	Q29	BDP949_SMD	pbx_bidi[	5B6 ]								
		JP18	JUMPER_0603	pbx_bidi[	4D3 ]	Q30	ZXMN10A11G_SMD	pbx_bidi[	6A5 ]								
		JP19	JUMPER_0603	pbx_bidi[	4D3 ]	Q31	SEMIX453GB12E4S_THT	pbx_bidi[	4B5 ]								
		JP20	JUMPER_0603	pbx_bidi[	4D3 ]	Q32	BDP949_SMD	pbx_bidi[	6B7 ]								
		JP21	JUMPER_0603	pbx_bidi[	4D3 ]	Q33	BDP949_SMD	pbx_bidi[	6B6 ]								
		L1	L_WE_TPC	pbx_bidi[	3B7 ]	Q34	ZXMN10A11G_SMD	pbx_bidi[	7A5 ]								
		L2	L_SMD	pbx_bidi[	5A2 ]	Q35	SEMIX453GB12E4S_THT	pbx_bidi[	4B7 ]								
		L3	L_SMD	pbx_bidi[	6A2 ]	Q36	BDP949_SMD	pbx_bidi[	7B7 ]								
		L4	L_SMD	pbx_bidi[	7A2 ]	Q37	BDP949_SMD	pbx_bidi[	7B6 ]								
		LED1	LED_RED_SMD	pbx_bidi[	9D5 ]	R1	R_0805	pbx_bidi[	3B6 ]								
		NP1	NP_03_THT	pbx_bidi[	4C1 ]	R2	R_0805	pbx_bidi[	3B8 ]								
		NP2	NP_03_THT	pbx_bidi[	4A1 ]	R3	R_THT	pbx_bidi[	4A8 ]								
		NP3	NP_02_THT	pbx_bidi[	4B3 ]	R4	R_0805	pbx_bidi[	3C8 ]								
		NP4	NP_02_THT	pbx_bidi[	4B6 ]	R5	R_THT	pbx_bidi[	4A8 ]								
NP5	NP_02_THT	pbx_bidi[	4A6 ]	R6	R_0603	pbx_bidi[	3B7 ]										
NP6	NP_02_THT	pbx_bidi[	4C6 ]	R7	R_0805	pbx_bidi[	2A2 ]										
NTC1	MP_THT	pbx_bidi[	14B1 ]	R8	R_0805	pbx_bidi[	2A1 ]										
NTC2	MP_THT	pbx_bidi[	14B1 ]	R9	R_0603	pbx_bidi[	3D5 ]										
NTC_DS	MP_THT	pbx_bidi[	14C3 ]	R10	RP4_CAY0603	pbx_bidi[	2C7 ]										
P1	CON2_WAGO_VP5MM	pbx_bidi[	8C1 ]	R11	RP4_CAY0603	pbx_bidi[	2C3 ]										
P2	CON5_WAGO721_265	pbx_bidi[	2C5 ]	R12	R_0805	pbx_bidi[	2C3 ]										
P3	CON40_PCB_HEADER	pbx_bidi[	2C1 ]	R13	R_0603	pbx_bidi[	3D7 ]										
P4	CON2_WAGO721_262	pbx_bidi[	8A1 ]	R14	R_0805	pbx_bidi[	3D7 ]										
P5	CON50_PCB_HEADER-LON	pbx_bidi[	3B1 ]	R15	R_0805	pbx_bidi[	3D7 ]										
C	D	G-PIN				R16	R_0603	pbx_bidi[	3D5 ]	C	D						
		P6	CON6_WAGO733_336	pbx_bidi[	3D3 ]	R17	R_0603	pbx_bidi[	3D5 ]								
		PTC_ADC	MP_THT	pbx_bidi[	3D6 ]	R18	R_0603	pbx_bidi[	3D5 ]								
		Q1	BC817_SMD	pbx_bidi[	2C7 ]	R19	R_THT	pbx_bidi[	4A8 ]								
		Q2	BC817_SMD	pbx_bidi[	2B6 ]	R20	R_0603	pbx_bidi[	5D1 ]								
		Q3	BC847C_SMD	pbx_bidi[	5B2 ]	R21	R_0603	pbx_bidi[	5D1 ]								
		Q4	BC817	pbx_bidi[	13B4 ]	R22	R_0603	pbx_bidi[	5D1 ]								
		Q5	MJD45H11_SMD	pbx_bidi[	5B5 ]	R23	R_0805	pbx_bidi[	2A1 ]								
		Q6	MJD44H11_SMD	pbx_bidi[	5B5 ]	R24	R_0603	pbx_bidi[	2B2 ]								
		Q7	MJD45H11_SMD	pbx_bidi[	5D5 ]	R25	R_0805	pbx_bidi[	2A5 ]								
		Q8	MJD44H11_SMD	pbx_bidi[	5D5 ]	R26	R_0805	pbx_bidi[	2B6 ]								
		Q9	BC817	pbx_bidi[	14B4 ]	R27	R_0805	pbx_bidi[	2B6 ]								
		Q10	BC817	pbx_bidi[	12A4 ]	R28	R_MINI-MELF	pbx_bidi[	2A6 ]								
		Q11	BC847C_SMD	pbx_bidi[	6B2 ]	R29	R_MINI-MELF	pbx_bidi[	2A6 ]								
		Q12	BC817	pbx_bidi[	11A4 ]	R30	R_0805	pbx_bidi[	2C6 ]								
		Q13	MJD45H11_SMD	pbx_bidi[	6B5 ]	R31	R_0603	pbx_bidi[	2B2 ]								
		Q14	MJD44H11_SMD	pbx_bidi[	6B5 ]	R32	R_0805	pbx_bidi[	2A1 ]								
		Q15	MJD45H11_SMD	pbx_bidi[	6D5 ]	R33	R_0603	pbx_bidi[	5B1 ]								
		Q16	MJD44H11_SMD	pbx_bidi[	6D5 ]	R34	R_0603	pbx_bidi[	5B1 ]								
		Q17	IRFR9120_SMD	pbx_bidi[	10C3 ]	R35	R_0603	pbx_bidi[	5B1 ]								
Q18	BC847C_SMD	pbx_bidi[	7B2 ]	R36	R_MELF	pbx_bidi[	5A4 ]										
Q19	MJD45H11_SMD	pbx_bidi[	7B5 ]	R37	R_0603	pbx_bidi[	5C1 ]										
Q20	MJD44H11_SMD	pbx_bidi[	7B5 ]	R38	R_0603	pbx_bidi[	5C1 ]										
Q21	MJD45H11_SMD	pbx_bidi[	7D5 ]	R39	R_0603	pbx_bidi[	5C1 ]										
Q22	MJD44H11_SMD	pbx_bidi[	7D5 ]	R40	R_0805	pbx_bidi[	5A2 ]										
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				 Otis A United Technologies Company				CAD GENERATED CADENCE-CONCEPT				DRAWN A. Tutat ORIGINAL DATE 2009-12-08					
												CHK M. Dehmlow SHEETS					
												APPD M. Dehmlow SHEET 23					
												AUTH CA47A-000528					

A3		1	2	3	4	5	6	7	8								
A		R41	R_0805	pbx_bidi[	5A2 ]	R96	R_0805	pbx_bidi[	12C7 ]								
		R42	R_THT	pbx_bidi[	13B2 ]	R97	R_0805	pbx_bidi[	12C7 ]								
		R43	R_THT	pbx_bidi[	13B2 ]	R98	R_MINI-MELF	pbx_bidi[	12C7 ]								
		R44	R_THT	pbx_bidi[	13B2 ]	R99	R_MINI-MELF	pbx_bidi[	12A4 ]								
		R45	R_0805	pbx_bidi[	13C5 ]	R100	R_MINI-MELF	pbx_bidi[	12B4 ]								
		R46	R_0805	pbx_bidi[	13D5 ]	R101	R_0805	pbx_bidi[	12B3 ]								
		R47	R_0805	pbx_bidi[	13C3 ]	R102	R_MELF	pbx_bidi[	6A4 ]								
		R48	R_0805	pbx_bidi[	13C5 ]	R103	R_0603	pbx_bidi[	6C1 ]								
		R49	R_0805	pbx_bidi[	13C3 ]	R104	R_0603	pbx_bidi[	6C1 ]								
		R50	R_THT	pbx_bidi[	13C2 ]	R105	R_0603	pbx_bidi[	6C1 ]								
		R51	R_0603	pbx_bidi[	5C2 ]	R106	R_0805	pbx_bidi[	6A2 ]								
		R52	R_0805	pbx_bidi[	5B2 ]	R107	R_0805	pbx_bidi[	6A2 ]								
		R53	R_THT	pbx_bidi[	13C2 ]	R108	R_0805	pbx_bidi[	11C6 ]								
		R54	R_THT	pbx_bidi[	13C2 ]	R109	R_0805	pbx_bidi[	9B5 ]								
		R55	R_0805	pbx_bidi[	5A5 ]	R110	R_0805	pbx_bidi[	12C5 ]								
		R56	R_MELF	pbx_bidi[	5C4 ]	R111	R_0603	pbx_bidi[	6C2 ]								
		R57	R_MINI-MELF	pbx_bidi[	5A5 ]	R112	R_0805	pbx_bidi[	6B2 ]								
		R58	R_MINI-MELF	pbx_bidi[	5A5 ]	R113	R_0805	pbx_bidi[	6A5 ]								
		R59	R_MINI-MELF	pbx_bidi[	13C7 ]	R114	R_MELF	pbx_bidi[	6C4 ]								
		R60	R_MINI-MELF	pbx_bidi[	13B5 ]	R115	R_MINI-MELF	pbx_bidi[	6A5 ]								
		R61	R_MINI-MELF	pbx_bidi[	13C4 ]	R116	R_MINI-MELF	pbx_bidi[	6A5 ]								
		R62	R_MINI-MELF	pbx_bidi[	5B5 ]	R117	R_0805	pbx_bidi[	11C7 ]								
		R63	R_MELF	pbx_bidi[	5B5 ]	R118	R_0805	pbx_bidi[	11C7 ]								
		R64	R_MELF	pbx_bidi[	5B5 ]	R119	R_MINI-MELF	pbx_bidi[	11C7 ]								
		R65	R_MELF	pbx_bidi[	5B5 ]	R120	R_MINI-MELF	pbx_bidi[	11A4 ]								
		R66	R_MELF	pbx_bidi[	5B5 ]	R121	R_MINI-MELF	pbx_bidi[	11B4 ]								
		R67	R_MELF	pbx_bidi[	5B5 ]	R122	R_MINI-MELF	pbx_bidi[	6B5 ]								
		R68	R_MELF	pbx_bidi[	5D4 ]	R123	R_MELF	pbx_bidi[	6B5 ]								
		R69	R_0603	pbx_bidi[	5B4 ]	R124	R_MELF	pbx_bidi[	6B5 ]								
		R70	R_MELF	pbx_bidi[	5B5 ]	R125	R_MELF	pbx_bidi[	6B5 ]								
		R71	R_MINI-MELF	pbx_bidi[	5D5 ]	R126	R_MELF	pbx_bidi[	6B5 ]								
		R72	R_MINI-MELF	pbx_bidi[	5A6 ]	R127	R_MELF	pbx_bidi[	6B5 ]								
		R73	R_MINI-MELF	pbx_bidi[	5A6 ]	R128	R_MELF	pbx_bidi[	6D4 ]								
		R74	R_MINI-MELF	pbx_bidi[	14C7 ]	R129	R_0603	pbx_bidi[	6B4 ]								
		R75	R_MINI-MELF	pbx_bidi[	14A4 ]	R130	R_MELF	pbx_bidi[	6B5 ]								
		R76	R_MINI-MELF	pbx_bidi[	14B4 ]	R131	R_MINI-MELF	pbx_bidi[	6D5 ]								
		R77	R_0603	pbx_bidi[	5D4 ]	R132	R_MINI-MELF	pbx_bidi[	6A6 ]								
		R78	R_MELF	pbx_bidi[	5D5 ]	R133	R_MINI-MELF	pbx_bidi[	6A6 ]								
		R79	R_0805	pbx_bidi[	14D6 ]	R134	R_0603	pbx_bidi[	6D4 ]								
		R80	R_0805	pbx_bidi[	14C5 ]	R135	R_MELF	pbx_bidi[	6D5 ]								
		R81	R_0603	pbx_bidi[	14C3 ]	R136	R_0805	pbx_bidi[	10C2 ]								
		R82	R_0805	pbx_bidi[	14B3 ]	R137	R_0805	pbx_bidi[	10A7 ]								
		R83	R_0805	pbx_bidi[	14C5 ]	R138	R_0805	pbx_bidi[	10C2 ]								
		R84	R_0603	pbx_bidi[	14C2 ]	R139	R_0805	pbx_bidi[	10C2 ]								
		R85	R_MINI-MELF	pbx_bidi[	5A6 ]	R140	R_0805	pbx_bidi[	10B7 ]								
		R86	R_MINI-MELF	pbx_bidi[	5A7 ]	R141	R_MINI-MELF	pbx_bidi[	6A6 ]								
		R87	R_0805	pbx_bidi[	14B2 ]	R142	R_MINI-MELF	pbx_bidi[	6A7 ]								
		R88	R_0805	pbx_bidi[	14D2 ]	R143	R_0805	pbx_bidi[	10C4 ]								
		R89	R_0603	pbx_bidi[	6D1 ]	R144	R_0603	pbx_bidi[	7D1 ]								
		R90	R_0603	pbx_bidi[	6D1 ]	R145	R_0603	pbx_bidi[	7D1 ]								
		R91	R_0603	pbx_bidi[	6D1 ]	R146	R_0603	pbx_bidi[	7D1 ]								
		R92	R_0805	pbx_bidi[	9B5 ]	R147	R_0603	pbx_bidi[	7B1 ]								
		R93	R_0603	pbx_bidi[	6B1 ]	R148	R_0603	pbx_bidi[	7B1 ]								
		R94	R_0603	pbx_bidi[	6B1 ]	R149	R_0603	pbx_bidi[	7B1 ]								
		R95	R_0603	pbx_bidi[	6B1 ]	R150	R_MELF	pbx_bidi[	7A4 ]								
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						 Otis A United Technologies Company				CAD GENERATED CADENCE-CONCEPT				DRAWN A. Tutat ORIGINAL DATE 2009-12-08 SHEETS SHEET 24			

A3		1		2		3		4		5		6		7		8					
A	A	R151	R_0603	pbx_bidi[	7C1 ]	R206	R_0805	pbx_bidi[	3D7 ]	A											
		R152	R_0603	pbx_bidi[	7C1 ]	R207	R_0805	pbx_bidi[	3D7 ]												
		R153	R_0603	pbx_bidi[	7C1 ]	R208	R_0603	pbx_bidi[	3D7 ]			B									
		R154	R_MINI-MELF	pbx_bidi[	10C4 ]	R209	R_0603	pbx_bidi[	3C5 ]												
		R155	R_0805	pbx_bidi[	7A2 ]	R210	R_0603	pbx_bidi[	3C8 ]												
		R156	R_0805	pbx_bidi[	7A2 ]	R211	R_0603	pbx_bidi[	3C8 ]												
		R157	R_0603	pbx_bidi[	7C2 ]	R212	R_0805	pbx_bidi[	3D5 ]												
		R158	R_0805	pbx_bidi[	7B2 ]	R213	R_0805	pbx_bidi[	3D5 ]												
		R159	R_0805	pbx_bidi[	7A5 ]	R214	R_0805	pbx_bidi[	3D5 ]												
		R160	R_MELF	pbx_bidi[	7C4 ]	R215	R_0603	pbx_bidi[	3C6 ]												
		R161	R_MINI-MELF	pbx_bidi[	7A5 ]	R216	R_MELF	pbx_bidi[	8B2 ]												
		R162	R_MINI-MELF	pbx_bidi[	7A5 ]	R217	R_MELF	pbx_bidi[	8B2 ]												
		R163	R_MINI-MELF	pbx_bidi[	7B5 ]	R218	R_MELF	pbx_bidi[	5A3 ]												
		R164	R_MELF	pbx_bidi[	7B5 ]	R219	R_MELF	pbx_bidi[	5A3 ]												
		R165	R_MELF	pbx_bidi[	7B5 ]	R220	R_MELF	pbx_bidi[	5A3 ]												
		R166	R_MELF	pbx_bidi[	7B5 ]	R221	R_0805	pbx_bidi[	5A2 ]												
		R167	R_MELF	pbx_bidi[	7B5 ]	R222	R_0603	pbx_bidi[	13B3 ]												
		R168	R_MELF	pbx_bidi[	7B5 ]	R223	R_0805	pbx_bidi[	13C4 ]												
		R169	R_MELF	pbx_bidi[	7D4 ]	R224	R_0603	pbx_bidi[	13C3 ]												
		B	B	R170	R_0603	pbx_bidi[	7B4 ]	R225	R_0805					pbx_bidi[	13C7 ]	B					
R171	R_MELF			pbx_bidi[	7B5 ]	R226	R_0805	pbx_bidi[	13C6 ]												
R172	R_0805			pbx_bidi[	8D3 ]	R227	R_0805	pbx_bidi[	5B2 ]												
R173	R_0805			pbx_bidi[	8D3 ]	R228	R_0805	pbx_bidi[	5A4 ]												
R174	R_0805			pbx_bidi[	8C6 ]	R229	R_0805	pbx_bidi[	5A2 ]												
R175	R_0805			pbx_bidi[	8C7 ]	R230	R_MINI-MELF	pbx_bidi[	5A5 ]												
R176	R_MINI-MELF			pbx_bidi[	7D5 ]	R231	R_0805	pbx_bidi[	13C2 ]												
R177	R_MINI-MELF			pbx_bidi[	7A6 ]	R232	R_0805	pbx_bidi[	13B2 ]												
R178	R_MINI-MELF			pbx_bidi[	7A6 ]	R233	R_0805	pbx_bidi[	13C4 ]												
R179	R_0603			pbx_bidi[	7D4 ]	R234	R_0603	pbx_bidi[	13C3 ]												
R180	R_MINI-MELF			pbx_bidi[	8B7 ]	R235	R_0805	pbx_bidi[	13C5 ]												
R181	R_MELF			pbx_bidi[	7D5 ]	R236	R_0805	pbx_bidi[	13C6 ]												
R182	R_MINI-MELF			pbx_bidi[	8C7 ]	R237	R_0805	pbx_bidi[	13D6 ]												
R183	R_MINI-MELF			pbx_bidi[	8C5 ]	R238	R_0603	pbx_bidi[	5C2 ]												
R184	R_MINI-MELF			pbx_bidi[	8C5 ]	R239	R_0805	pbx_bidi[	13B4 ]												
R185	R_MINI-MELF			pbx_bidi[	7A6 ]	R240	R_0805	pbx_bidi[	13B4 ]												
R186	R_MINI-MELF			pbx_bidi[	7A7 ]	R241	R_0603	pbx_bidi[	13C3 ]												
R187	R_0603			pbx_bidi[	3D1 ]	R242	R_0805	pbx_bidi[	13C3 ]												
R188	R_0805			pbx_bidi[	3C1 ]	R243	R_0805	pbx_bidi[	13C5 ]												
C	C			R189	R_0805	pbx_bidi[	2A7 ]	R244	R_0805	pbx_bidi[	13C5 ]	C									
		R190	RP4_CAY0603	pbx_bidi[	3A7 ]	R245	R_MINI-MELF	pbx_bidi[	5B4 ]												
		R191	R_MINI-MELF	pbx_bidi[	2D6 ]	R246	R_0805	pbx_bidi[	5B4 ]												
		R192	R_MINI-MELF	pbx_bidi[	2D6 ]	R247	R_0805	pbx_bidi[	13B4 ]												
		R193	R_MINI-MELF	pbx_bidi[	2D6 ]	R248	R_MINI-MELF	pbx_bidi[	13C4 ]												
		R194	R_MINI-MELF	pbx_bidi[	9C5 ]	R249	R_MINI-MELF	pbx_bidi[	13B5 ]												
		R195	R_0805	pbx_bidi[	3C3 ]	R250	R_0805	pbx_bidi[	13B5 ]												
		R196	R_0805	pbx_bidi[	3A6 ]	R251	R_0603	pbx_bidi[	5B6 ]												
		R197	R_0603	pbx_bidi[	3D1 ]	R252	R_0603	pbx_bidi[	5B7 ]												
		R198	R_0805	pbx_bidi[	3D1 ]	R253	R_0603	pbx_bidi[	5B7 ]												
		R199	R_THT	pbx_bidi[	9D4 ]	R254	R_MELF	pbx_bidi[	5B6 ]												
		R200	R_THT	pbx_bidi[	9D4 ]	R255	R_MELF	pbx_bidi[	5C6 ]												
		R201	R_THT	pbx_bidi[	9D3 ]	R256	R_MELF	pbx_bidi[	5C6 ]												
		R202	R_THT	pbx_bidi[	9D5 ]	R257	R_MINI-MELF	pbx_bidi[	5D4 ]												
		R203	R_THT	pbx_bidi[	9D4 ]	R258	R_0805	pbx_bidi[	5D4 ]												
		R204	R_THT	pbx_bidi[	9D4 ]	R259	R_0603	pbx_bidi[	5D6 ]												
		R205	R_0603	pbx_bidi[	3D6 ]	R260	R_MELF	pbx_bidi[	5D6 ]												
		D	D																		
				Changes				WARNING THIS WORK AND THE INFORMATION IT CONTAINS ARE THE PROPERTY OF OTIS ELEVATOR COMPANY (OTIS). IT IS DELIVERED TO OTHERS ON THE EXPRESS CONDITION THAT IT WILL BE USED ONLY FOR OR ON BEHALF OF OTIS ; THAT NEITHER IT OR NOR THE INFORMATION IT CONTAINS WILL BE REPRODUCED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF OTIS ; AND THAT ON DEMAND IT AND ANY COPIES WILL BE PROMPTLY RETURNED TO OTIS.  UNPUBLISHED WORK (C) OTIS ELEVATOR COMPANY ALL RIGHTS RESERVED.						CIRCUIT DIAGRAM FOR  PBX_BIDI   CAD GENERATED CADENCE-CONCEPT				DWG G2A26800MX OTIS ENGINEERING CENTER BERLIN, GERMANY DRAWN A. Tutat ORIGINAL DATE CHK M. Dehmlow 2009-12-08 APPD M. Dehmlow SHEETS AUTH CA47A-000528 SHEET 25			

A3		1	2	3	4	5	6	7	8		
A		R261	R_MELF	pbx_bidi[	5D6 ]	R316	R_0805	pbx_bidi[	12C5 ]	A	
		R262	R_MELF	pbx_bidi[	5D6 ]	R317	R_0805	pbx_bidi[	12C6 ]		
		R263	R_0603	pbx_bidi[	5D7 ]	R318	R_0805	pbx_bidi[	6A2 ]		
		R264	R_0603	pbx_bidi[	5D7 ]	R319	R_0805	pbx_bidi[	6B2 ]		
		R265	R_0805	pbx_bidi[	14B5 ]	R320	R_0805	pbx_bidi[	9A4 ]		
		R266	R_0805	pbx_bidi[	14A4 ]	R321	R_0805	pbx_bidi[	11C2 ]		
		R267	R_MINI-MELF	pbx_bidi[	14C4 ]	R322	R_0805	pbx_bidi[	9B4 ]		
		R268	R_MINI-MELF	pbx_bidi[	14A4 ]	R323	R_0805	pbx_bidi[	9B5 ]		
		R269	R_MELF	pbx_bidi[	5D5 ]	R324	R_0805	pbx_bidi[	11C2 ]		
		R270	R_MELF	pbx_bidi[	5D5 ]	R325	R_0805	pbx_bidi[	11C5 ]		
		R271	R_MELF	pbx_bidi[	5D5 ]	R326	R_0805	pbx_bidi[	12C5 ]		
		R272	R_MELF	pbx_bidi[	5D5 ]	R327	R_0805	pbx_bidi[	12B6 ]		
		R273	R_MELF	pbx_bidi[	5D5 ]	R328	R_0805	pbx_bidi[	12C6 ]		
		R274	R_0805	pbx_bidi[	14B5 ]	R329	R_0805	pbx_bidi[	6A4 ]		
		R275	R_0805	pbx_bidi[	14C5 ]	R330	R_0805	pbx_bidi[	6A2 ]		
		R276	R_0805	pbx_bidi[	14B4 ]	R331	R_MINI-MELF	pbx_bidi[	6A5 ]		
		R277	R_MELF	pbx_bidi[	4D2 ]	R332	R_0603	pbx_bidi[	6C2 ]		
		R278	R_MELF	pbx_bidi[	4C2 ]	R333	R_0805	pbx_bidi[	11C3 ]		
		R279	R_0805	pbx_bidi[	14C3 ]	R334	R_0805	pbx_bidi[	11C2 ]		
		R280	R_0805	pbx_bidi[	14C5 ]	R335	R_0805	pbx_bidi[	11B3 ]		
		R281	R_0805	pbx_bidi[	14D6 ]	R336	R_0805	pbx_bidi[	11C2 ]		
		R282	R_0805	pbx_bidi[	14D6 ]	R337	R_0805	pbx_bidi[	11C6 ]		
		R283	R_0805	pbx_bidi[	14B4 ]	R338	R_0805	pbx_bidi[	11C5 ]		
		R284	R_0805	pbx_bidi[	14B2 ]	R339	R_0805	pbx_bidi[	11B6 ]		
		R285	R_0805	pbx_bidi[	14B2 ]	R340	R_0805	pbx_bidi[	12C6 ]		
		R286	R_0805	pbx_bidi[	14D3 ]	R341	R_MINI-MELF	pbx_bidi[	6B4 ]		
		R287	R_0805	pbx_bidi[	14D3 ]	R342	R_0805	pbx_bidi[	6B4 ]		
		R288	R_0805	pbx_bidi[	5B7 ]	R343	R_0805	pbx_bidi[	11A3 ]		
		R289	R_0805	pbx_bidi[	5B7 ]	R344	R_0805	pbx_bidi[	11B4 ]		
		R290	R_0805	pbx_bidi[	5B6 ]	R345	R_0805	pbx_bidi[	11B3 ]		
		R291	R_0805	pbx_bidi[	5B6 ]	R346	R_0805	pbx_bidi[	11B5 ]		
		R292	R_0805	pbx_bidi[	14B2 ]	R347	R_0805	pbx_bidi[	11B5 ]		
		R293	R_0805	pbx_bidi[	14D2 ]	R348	R_0805	pbx_bidi[	11C6 ]		
		R294	R_0805	pbx_bidi[	14D5 ]	R349	R_0805	pbx_bidi[	11A4 ]		
		R295	R_0805	pbx_bidi[	14D5 ]	R350	R_MINI-MELF	pbx_bidi[	11B4 ]		
		R296	R_0805	pbx_bidi[	9B4 ]	R351	R_MINI-MELF	pbx_bidi[	11A4 ]		
		R297	R_0805	pbx_bidi[	12C2 ]	R352	R_0603	pbx_bidi[	6B6 ]		
		R298	R_0805	pbx_bidi[	9B4 ]	R353	R_0603	pbx_bidi[	6B7 ]		
		R299	R_0805	pbx_bidi[	9B4 ]	R354	R_0603	pbx_bidi[	6B7 ]		
		R300	R_0805	pbx_bidi[	12A3 ]	R355	R_0805	pbx_bidi[	11B5 ]		
		R301	R_0805	pbx_bidi[	12B5 ]	R356	R_0805	pbx_bidi[	11B5 ]		
		R302	R_0805	pbx_bidi[	12B5 ]	R357	R_0805	pbx_bidi[	11C5 ]		
		R303	R_0805	pbx_bidi[	12C7 ]	R358	R_0805	pbx_bidi[	11C7 ]		
		R304	R_MELF	pbx_bidi[	6A3 ]	R359	R_MELF	pbx_bidi[	6B6 ]		
		R305	R_MELF	pbx_bidi[	6A3 ]	R360	R_MELF	pbx_bidi[	6C6 ]		
		R306	R_MELF	pbx_bidi[	6A3 ]	R361	R_MELF	pbx_bidi[	6C6 ]		
		R307	R_0805	pbx_bidi[	12A4 ]	R362	R_MINI-MELF	pbx_bidi[	6D4 ]		
		R308	R_MINI-MELF	pbx_bidi[	12B4 ]	R363	R_0805	pbx_bidi[	6D4 ]		
		R309	R_MINI-MELF	pbx_bidi[	12A4 ]	R364	R_0603	pbx_bidi[	6D6 ]		
		R310	R_0805	pbx_bidi[	12C3 ]	R365	R_MELF	pbx_bidi[	6D6 ]		
		R311	R_0805	pbx_bidi[	12C2 ]	R366	R_MELF	pbx_bidi[	6D6 ]		
		R312	R_0805	pbx_bidi[	12B3 ]	R367	R_MELF	pbx_bidi[	6D6 ]		
		R313	R_0805	pbx_bidi[	12B4 ]	R368	R_0603	pbx_bidi[	6D7 ]		
		R314	R_0805	pbx_bidi[	12B5 ]	R369	R_0603	pbx_bidi[	6D7 ]		
		R315	R_0805	pbx_bidi[	12B5 ]	R370	R_MINI-MELF	pbx_bidi[	10B2 ]		
		Changes				WARNING THIS WORK AND THE INFORMATION IT CONTAINS ARE THE PROPERTY OF OTIS ELEVATOR COMPANY (OTIS). IT IS DELIVERED TO OTHERS ON THE EXPRESS CONDITION THAT IT WILL BE USED ONLY FOR OR ON BEHALF OF OTIS ; THAT NEITHER IT OR NOR THE INFORMATION IT CONTAINS WILL BE REPRODUCED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF OTIS ; AND THAT ON DEMAND IT AND ANY COPIES WILL BE PROMPTLY RETURNED TO OTIS.  UNPUBLISHED WORK (C) OTIS ELEVATOR COMPANY ALL RIGHTS RESERVED.		CIRCUIT DIAGRAM FOR		DWG G2A26800MX	
						 Otis A United Technologies Company		PBX_BIDI		OTIS ENGINEERING CENTER BERLIN, GERMANY	
						CAD GENERATED CADENCE-CONCEPT		DRAWN A. Tutat		ORIGINAL DATE	
								CHK M. Dehmlow		2009-12-08	
								APPD M. Dehmlow		SHEETS	
								AUTH CA47A-000528		SHEET 26	

A3		1	2	3	4	5	6	7	8						
A	R371	R_0805	pbx_bidi[	10B2 ]	R426	R_MELF	pbx_bidi[	7D6 ]	A						
	R372	R_0805	pbx_bidi[	10B2 ]	R427	R_0603	pbx_bidi[	7D7 ]							
	R373	R_MELF	pbx_bidi[	6D5 ]	R428	R_0805	pbx_bidi[	8D4 ]							
	R374	R_MELF	pbx_bidi[	6D5 ]	R429	R_0805	pbx_bidi[	8C4 ]							
	R375	R_MELF	pbx_bidi[	6D5 ]	R430	R_0603	pbx_bidi[	7D7 ]							
	R376	R_MELF	pbx_bidi[	6D5 ]	R431	R_MELF	pbx_bidi[	7D5 ]							
	R377	R_MELF	pbx_bidi[	6D5 ]	R432	R_MELF	pbx_bidi[	7D5 ]							
	R378	R_0805	pbx_bidi[	10A3 ]	R433	R_MELF	pbx_bidi[	7D5 ]							
	R379	R_0805	pbx_bidi[	10A4 ]	R434	R_MELF	pbx_bidi[	7D5 ]							
	R380	R_0805	pbx_bidi[	10B4 ]	R435	R_MELF	pbx_bidi[	7D5 ]							
	R381	R_0805	pbx_bidi[	10A3 ]	R436	R_0805	pbx_bidi[	8D6 ]							
	R382	R_0805	pbx_bidi[	10C1 ]	R437	R_MELF	pbx_bidi[	8D5 ]							
	R383	R_0805	pbx_bidi[	10C3 ]	R438	R_MELF	pbx_bidi[	8D6 ]							
	R384	R_0805	pbx_bidi[	10C3 ]	R439	R_MELF	pbx_bidi[	8D6 ]							
	R385	R_0805	pbx_bidi[	10B7 ]	R440	R_MELF	pbx_bidi[	8D5 ]							
	R386	R_0805	pbx_bidi[	10A7 ]	R441	R_MELF	pbx_bidi[	8A2 ]							
	R387	R_0805	pbx_bidi[	10C1 ]	R442	R_MELF	pbx_bidi[	8B2 ]							
	R388	R_0805	pbx_bidi[	6B7 ]	R443	R_0805	pbx_bidi[	7B7 ]							
	R389	R_0805	pbx_bidi[	6B7 ]	R444	R_0805	pbx_bidi[	7B7 ]							
	B	R390	R_0805	pbx_bidi[	6B6 ]	R445	R_0805	pbx_bidi[		7B6 ]	B				
R391		R_0805	pbx_bidi[	6B6 ]	R446	R_0805	pbx_bidi[	7B6 ]							
R392		R_MELF	pbx_bidi[	4D2 ]	R447	R_MELF	pbx_bidi[	8D2 ]							
R393		R_0805	pbx_bidi[	10C3 ]	R448	R_MELF	pbx_bidi[	8A2 ]							
R394		R_MELF	pbx_bidi[	7A3 ]	R449	R_MELF	pbx_bidi[	8A2 ]							
R395		R_MELF	pbx_bidi[	7A3 ]	R450	R_0805	pbx_bidi[	2A8 ]							
R396		R_MELF	pbx_bidi[	7A3 ]	R451	R_0805	pbx_bidi[	2A7 ]							
R397		R_0805	pbx_bidi[	7A2 ]	R452	R_MINI-MELF	pbx_bidi[	9C5 ]							
R398		R_MINI-MELF	pbx_bidi[	10C6 ]	R453	R_MELF	pbx_bidi[	8D1 ]							
R399		R_MINI-MELF	pbx_bidi[	10C6 ]	R454	R_MELF	pbx_bidi[	8A2 ]							
R400		R_0805	pbx_bidi[	7B2 ]	R455	R_MELF	pbx_bidi[	8A2 ]							
R401		R_0805	pbx_bidi[	7A4 ]	R456	R_MELF	pbx_bidi[	8C2 ]							
R402		R_0805	pbx_bidi[	7A2 ]	R457	R_0805	pbx_bidi[	9C3 ]							
R403		R_MINI-MELF	pbx_bidi[	7A5 ]	R458	R_MELF	pbx_bidi[	8D1 ]							
R404		R_0603	pbx_bidi[	7C2 ]	R459	R_MINI-MELF	pbx_bidi[	9D3 ]							
R405		R_MINI-MELF	pbx_bidi[	7B4 ]	REF_S	MP_THT	pbx_bidi[	14D3 ]							
R406		R_0805	pbx_bidi[	7B4 ]	REL1	RELAY_RT_FINDER_1M	pbx_bidi[	2D7 2A8 ]							
R407		R_0603	pbx_bidi[	7B6 ]	REL2	RELAY_RT_FINDER_1M	pbx_bidi[	2C7 2A8 ]							
C		R408	R_0603	pbx_bidi[	7B7 ]	S+15V	MP_THT	pbx_bidi[	8B8 ]	C					
		R409	R_0603	pbx_bidi[	7B7 ]	S-15V	MP_THT	pbx_bidi[	8B8 ]						
	R410	R_MINI-MELF	pbx_bidi[	8C3 ]	SGND	MP_THT	pbx_bidi[	8B8 ]							
	R411	R_MINI-MELF	pbx_bidi[	8D3 ]	S_GND	MP_THT	pbx_bidi[	8B8 ]							
	R412	R_MELF	pbx_bidi[	7B6 ]	TEMP_IGBT	MP_THT	pbx_bidi[	14C6 ]							
	R413	R_MELF	pbx_bidi[	7C6 ]	TEMP_UN	MP_THT	pbx_bidi[	14D5 ]							
	R414	R_MELF	pbx_bidi[	7C6 ]	TR1	5033001300	pbx_bidi[	5A5 ]							
	R415	R_MINI-MELF	pbx_bidi[	7D4 ]	TR2	5033001300_SMD	pbx_bidi[	6A5 ]							
	R416	R_0805	pbx_bidi[	7D4 ]	TR3	5033001300	pbx_bidi[	7A5 ]							
	R417	R_0603	pbx_bidi[	7D6 ]	TR4	SL02060312	pbx_bidi[	8B6 ]							
	R418	R_0805	pbx_bidi[	8D8 ]	U1	LM3103_TSSOP	pbx_bidi[	3B7 ]							
	R419	R_0805	pbx_bidi[	8C8 ]	U2	ADUM1251_SOIC	pbx_bidi[	3C8 ]							
	R420	R_0805	pbx_bidi[	8D7 ]	U3	AD7417_TSSOP	pbx_bidi[	3D8 ]							
	R421	R_MELF	pbx_bidi[	7D6 ]	U4	LMC7101_SMD	pbx_bidi[	3D6 ]							
	R422	R_MELF	pbx_bidi[	7D6 ]	U5	REF02_SOIC	pbx_bidi[	3C5 ]							
	R423	R_0805	pbx_bidi[	8D8 ]	U6	74HC14_SOIC	pbx_bidi[	2A3 2B2 2A2 2B3 2B5 2B2 ]							
	R424	R_0805	pbx_bidi[	8C8 ]	U7	74HC14_SOIC	pbx_bidi[	2D4 2D4 2D4 2C4 2D4 2D1 ]							
	R425	R_0805	pbx_bidi[	8C7 ]	U8	24C64_SOIC	pbx_bidi[	2C7 ]							
	D										D				
Changes				WARNING THIS WORK AND THE INFORMATION IT CONTAINS ARE THE PROPERTY OF OTIS ELEVATOR COMPANY (OTIS). IT IS DELIVERED TO OTHERS ON THE EXPRESS CONDITION THAT IT WILL BE USED ONLY FOR OR ON BEHALF OF OTIS ; THAT NEITHER IT OR NOR THE INFORMATION IT CONTAINS WILL BE REPRODUCED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF OTIS ; AND THAT ON DEMAND IT AND ANY COPIES WILL BE PROMPTLY RETURNED TO OTIS.  UNPUBLISHED WORK (C) OTIS ELEVATOR COMPANY ALL RIGHTS RESERVED.				CIRCUIT DIAGRAM FOR  PBX_BIDI				DWG G2A26800MX OTIS ENGINEERING CENTER BERLIN, GERMANY			
				 Otis A United Technologies Company				CAD GENERATED CADENCE-CONCEPT				DRAWN A. Tutat		ORIGINAL DATE	
												CHK M. Dehmlow		2009-12-08	
												APPD M. Dehmlow		SHEETS	
												AUTH CA47A-000528		SHEET 27	

A3		1		2		3		4		5		6		7		8	
A	B	U9	UC3845B_SOIC	pbx_bidi[	5A3 ]	VRS	MP_THT	pbx_bidi[	11B6 ]	A	B	C	D				
		U10	HCPL316J_SOIC	pbx_bidi[	5B3 ]	VRS_N	MP_THT	pbx_bidi[	11B7 ]								
		U11	74HC14_SOIC	pbx_bidi[	5D2 5B2 5B2 5D2 5B2 5C2 ]	VRS_NP	MP_THT	pbx_bidi[	9A6 ]								
		U12	TL084B_SOIC	pbx_bidi[	13B7 13C7 13C7 13C6 ]	VST	MP_THT	pbx_bidi[	12B6 ]								
		U13	TL084B_SOIC	pbx_bidi[	13D3 13B3 13B4 13C3 ]	VST_N	MP_THT	pbx_bidi[	12B7 ]								
		U14	IL300_COMBI	pbx_bidi[	13B5 ]	VST_NP	MP_THT	pbx_bidi[	9B6 ]								
		U15	HCPL316J_SOIC	pbx_bidi[	5D3 ]	Z1	BZV55B11_SMD	pbx_bidi[	5A3 ]								
		U16	IL300_COMBI	pbx_bidi[	14B5 ]	Z2	SMBJ60CA_SMD	pbx_bidi[	5A6 ]								
		U17	TL084B_SOIC	pbx_bidi[	14D3 14C6 14B7 14D5 ]	Z3	SMBJ60CA_SMD	pbx_bidi[	5A6 ]								
		U18	TL084B_SOIC	pbx_bidi[	14B3 14C2 14C1 14C3 ]	Z4	BZX84C3V9_SMD	pbx_bidi[	5A6 ]								
		U19	TL431A_SOIC	pbx_bidi[	5B6 ]	Z5	BZX84C3V9_SMD	pbx_bidi[	5A7 ]								
		U20	PS2561L_SOIC	pbx_bidi[	5A6 ]	Z6	BZV55B11_SMD	pbx_bidi[	6A3 ]								
		U21	PS2561L_SOIC	pbx_bidi[	5A8 ]	Z7	SMBJ60CA_SMD	pbx_bidi[	6A6 ]								
		U22	TL431A_SOIC	pbx_bidi[	5B7 ]	Z8	SMBJ60CA_SMD	pbx_bidi[	6A6 ]								
		U23	REF02_SOIC	pbx_bidi[	14D1 ]	Z9	BZX84C3V9_SMD	pbx_bidi[	6A6 ]								
		U24	IL300_COMBI	pbx_bidi[	12A5 ]	Z10	BZX84C3V9_SMD	pbx_bidi[	6A7 ]								
		U25	TL084B_SOIC	pbx_bidi[	9B5 ]	Z11	BZV55B11_SMD	pbx_bidi[	7A3 ]								
		U25	TL084B_SOIC	pbx_bidi[	11D3 ]	Z12	SM6T22CA	pbx_bidi[	8D3 ]								
		U25	TL084B_SOIC	pbx_bidi[	12A3 12C3 ]	Z13	SMBJ60CA_SMD	pbx_bidi[	7A6 ]								
		U26	UC3845B_SOIC	pbx_bidi[	6A3 ]	Z14	SMBJ60CA_SMD	pbx_bidi[	7A6 ]								
		U27	HCPL316J_SOIC	pbx_bidi[	6B3 ]	Z15	BZX84C18_SMD	pbx_bidi[	8D5 ]								
		U28	74HC14_SOIC	pbx_bidi[	6B2 6D2 6B2 6C2 6D2 6B2 ]	Z16	BZX84C3V9_SMD	pbx_bidi[	7A6 ]								
		U29	TL084B_SOIC	pbx_bidi[	11B6 11B7 ]	Z17	BZX84C3V9_SMD	pbx_bidi[	7A7 ]								
		U29	TL084B_SOIC	pbx_bidi[	12B6 12B7 ]	Z18	SMBJ36CA_SMD	pbx_bidi[	8A1 ]								
		U30	REF02_SOIC	pbx_bidi[	11D2 ]	Z19	SMBJ36CA_SMD	pbx_bidi[	8C1 ]								
C	D	U31	TL084B_SOIC	pbx_bidi[	9A5 ]	Z20	SM6T33CA_SMD	pbx_bidi[	5A5 ]	C	D						
		U31	TL084B_SOIC	pbx_bidi[	11C3 11A3 11C2 ]	Z21	BZV55B9V1_SMD	pbx_bidi[	5B4 ]								
		U32	HCPL316J_SOIC	pbx_bidi[	6D3 ]	Z22	BZV55B18_SMD	pbx_bidi[	5B4 ]								
		U33	IL300_COMBI	pbx_bidi[	11A5 ]	Z23	BZV55B18_SMD	pbx_bidi[	5B7 ]								
		U34	TL084B_SOIC	pbx_bidi[	10D4 10A4 10B2 10D2 ]	Z24	BZV55B18_SMD	pbx_bidi[	5B6 ]								
		U35	LM339A_SOIC	pbx_bidi[	10C2 10C2 10B8 10B7 ]	Z25	BZV55B18_SMD	pbx_bidi[	5B6 ]								
		U36	TL431A_SOIC	pbx_bidi[	6B6 ]	Z26	BZV55B18_SMD	pbx_bidi[	5B8 ]								
		U37	PS2561L_SOIC	pbx_bidi[	6A6 ]	Z27	BZV55B18_SMD	pbx_bidi[	5B8 ]								
		U38	PS2561L_SOIC	pbx_bidi[	6A8 ]	Z28	BZV55B18_SMD	pbx_bidi[	5B7 ]								
		U39	TL431A_SOIC	pbx_bidi[	6B7 ]	Z29	BZV55B9V1_SMD	pbx_bidi[	5D4 ]								
		U40	555_CMOS	pbx_bidi[	10C4 ]	Z30	BZV55B18_SMD	pbx_bidi[	5D4 ]								
		U41	PS2561L_SOIC	pbx_bidi[	10C6 ]	Z31	BZV55B18_SMD	pbx_bidi[	5D6 ]								
		U42	UC3845B_SOIC	pbx_bidi[	7A3 ]	Z32	BZV55B18_SMD	pbx_bidi[	5D8 ]								
		U43	HCPL316J_SOIC	pbx_bidi[	7B3 ]	Z33	BZV55B18_SMD	pbx_bidi[	5D8 ]								
		U44	74HC14_SOIC	pbx_bidi[	7B2 7B2 7D2 7B2 7D2 7C2 ]	Z34	BZV55B18_SMD	pbx_bidi[	5D7 ]								
		U45	HCPL316J_SOIC	pbx_bidi[	7D3 ]	Z35	BZV55B18_SMD	pbx_bidi[	5D7 ]								
		U46	PS2561L_SOIC	pbx_bidi[	8C6 ]	Z36	BZV55B18_SMD	pbx_bidi[	5D6 ]								
		U47	TL431A_SOIC	pbx_bidi[	8D8 ]	Z37	SM6T33CA_SMD	pbx_bidi[	6A5 ]								
		U48	UC3845B_SOIC	pbx_bidi[	8C4 ]	Z38	BZV55B9V1_SMD	pbx_bidi[	6B4 ]								
		U49	TL431A_SOIC	pbx_bidi[	7B6 ]	Z39	BZV55B18_SMD	pbx_bidi[	6B4 ]								
		U50	PS2561L_SOIC	pbx_bidi[	7A6 ]	Z40	BZV55B18_SMD	pbx_bidi[	6B7 ]								
		U51	PS2561L_SOIC	pbx_bidi[	7A8 ]	Z41	BZV55B18_SMD	pbx_bidi[	6B6 ]								
		U52	TL431A_SOIC	pbx_bidi[	7B7 ]	Z42	BZV55B18_SMD	pbx_bidi[	6B6 ]								
		U53	PS2561L_SOIC	pbx_bidi[	2A6 ]	Z43	BZV55B18_SMD	pbx_bidi[	6B8 ]								
		U54	24C64_SOIC	pbx_bidi[	3A7 ]	Z44	BZV55B18_SMD	pbx_bidi[	6B8 ]								
U55		TL084B_SOIC	pbx_bidi[	9B3 9C3 9B3 9A3 ]	Z45	BZV55B18_SMD	pbx_bidi[	6B7 ]									
U56		74HC14_SOIC	pbx_bidi[	3A4 3D2 3A4 3A4 3D2 3D2 ]	Z46	BZV55B9V1_SMD	pbx_bidi[	6D4 ]									
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UDCL		MP_THT	pbx_bidi[	13C7 ]	Z48	BZV55B18_SMD	pbx_bidi[	6D6 ]									
VCC		MP_THT	pbx_bidi[	2B1 ]	Z49	BZV55B18_SMD	pbx_bidi[	6D8 ]									
Changes				WARNING THIS WORK AND THE INFORMATION IT CONTAINS ARE THE PROPERTY OF OTIS ELEVATOR COMPANY (OTIS). IT IS DELIVERED TO OTHERS ON THE EXPRESS CONDITION THAT IT WILL BE USED ONLY FOR OR ON BEHALF OF OTIS ; THAT NEITHER IT OR NOR THE INFORMATION IT CONTAINS WILL BE REPRODUCED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF OTIS ; AND THAT ON DEMAND IT AND ANY COPIES WILL BE PROMPTLY RETURNED TO OTIS.  UNPUBLISHED WORK (C) OTIS ELEVATOR COMPANY ALL RIGHTS RESERVED.				CIRCUIT DIAGRAM FOR  PBX_BIDI				DWG G2A26800MX OTIS ENGINEERING CENTER BERLIN, GERMANY					
				 Otis A United Technologies Company				CAD GENERATED CADENCE-CONCEPT				DRAWN A. Tutat ORIGINAL DATE 2009-12-08					
												CHK M. Dehmlow					
												APPD M. Dehmlow SHEETS					
												AUTH CA47A-000528 SHEET 28					

OCB A3  
REV 2004-09-06

A3	1	2	3	4	5	6	7	8
A	<div><div><div>Z50BZV55B18_SMDpbx_bidi[6D8]</div><div>Z51BZV55B18_SMDpbx_bidi[6D7]</div><div>Z52BZV55B18_SMDpbx_bidi[6D7]</div><div>Z53BZV55B18_SMDpbx_bidi[6D6]</div><div>Z54SM6T33CA_SMDpbx_bidi[7A5]</div><div>Z55BZV55B9V1_SMDpbx_bidi[7B4]</div><div>Z56BZV55B18_SMDpbx_bidi[7B4]</div><div>Z57BZV55B18_SMDpbx_bidi[7B7]</div><div>Z58BZV55B18_SMDpbx_bidi[7B6]</div><div>Z59BZV55B18_SMDpbx_bidi[7B6]</div><div>Z60BZV55B18_SMDpbx_bidi[7B8]</div><div>Z61BZV55B18_SMDpbx_bidi[7B8]</div><div>Z62BZV55B18_SMDpbx_bidi[7B7]</div><div>Z63BZV55B9V1_SMDpbx_bidi[7D4]</div><div>Z64BZV55B18_SMDpbx_bidi[7D4]</div><div>Z65BZV55B18_SMDpbx_bidi[7D6]</div><div>Z66BZV55B18_SMDpbx_bidi[7D8]</div><div>Z67BZV55B18_SMDpbx_bidi[7D8]</div><div>Z68BZV55B18_SMDpbx_bidi[7D7]</div><div>Z69BZV55B18_SMDpbx_bidi[7D7]</div><div>Z70SMBJ30CApbx_bidi[8B6]</div><div>Z71BZV55B18_SMDpbx_bidi[7D6]</div><div>Z72SMBJ90CA_SMDpbx_bidi[8B7]</div><div>Z73BZG05C4V7_SMDpbx_bidi[8B5]</div><div>Z74BZV55C3V3_SMDpbx_bidi[8D5]</div><div>Z75SMBJ90CA_SMDpbx_bidi[8B7]</div><div>Z76SM15T27CA_SMDpbx_bidi[3A4]</div><div>Z77BZV55B12_SMDpbx_bidi[9D4]</div></div></div>							A
	B							
C								C
D								D
	Changes			<div><div><div>THIS WORK AND THE INFORMATION IT CONTAINS ARE THE PROPERTY OF OTIS ELEVATOR COMPANY (OTIS). IT IS DELIVERED TO OTHERS ON THE EXPRESS CONDITION THAT IT WILL BE USED ONLY FOR OR ON BEHALF OF OTIS ; THAT NEITHER IT OR NOR THE INFORMATION IT CONTAINS WILL BE REPRODUCED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN CONSENT OF OTIS ; AND THAT ON DEMAND IT AND ANY COPIES WILL BE PROMPTLY RETURNED TO OTIS.</div><div>UNPUBLISHED WORK (C) OTIS ELEVATOR COMPANY ALL RIGHTS RESERVED.</div><div><div><div></div><div>Otis</div><div>A United Technologies Company</div></div></div></div></div>		CIRCUIT DIAGRAM FOR  PBX_BIDI          CAD GENERATED CADENCE-CONCEPT		<div>DWG G2A26800MX</div> <div>OTIS ENGINEERING CENTER BERLIN, GERMANY</div> <div><div>DRAWN A. Tutat</div><div>CHK M. Dehmlow</div><div>APPD M. Dehmlow</div><div>AUTH CA47A-000528</div></div> <div><div>ORIGINAL DATE</div><div>2009-12-08</div><div>SHEETS</div><div>SHEET 29</div></div>





	A2	8	7	6	5	4	3	2	1		
D	<div>BOTTOM VIEW Sicht auf Loetseite</div>										
C											
B											
A	<div>SMD-Lageplan</div> <div>Part-No. G2A26800MX1 Teil-Nr.</div> <div>Scale 1 : 1 Massstab</div> <div>DWG G2A26800MX</div> <div>OTIS ENGINEERING CENTER BERLIN, GERMANY</div> <div>DRAWN S. KOEPPEN ORIGINAL DATE 2009-12-08</div> <div>CHK A. TUTAT SHEETS</div> <div>APPD M. DEHMLOW SHEET 31</div> <div>AUTH CA47A-000528</div>										
ALL DIMENSIONS METRIC		CHANGES		<div>WARNING</div> <div>This work and the information it contains are the property of OTIS Elevator Company (OTIS). It is delivered to others on the express condition that it will be used only for, or on behalf of, OTIS; that neither it nor the information it contains will be reproduced or disclosed, in whole or in part, without the prior written consent of OTIS; and that on demand it and any copies will be promptly returned to OTIS.</div> <div>Unpublished work (C) OTIS Elevator Company 1998</div> <div>All rights reserved.</div>		PCB LAYOUT		PBX_BIDI		CADENCE ALLEGRO CAD GENERATED	

DEC9\_A2  
REV 1998-11-13

D

C

B

A

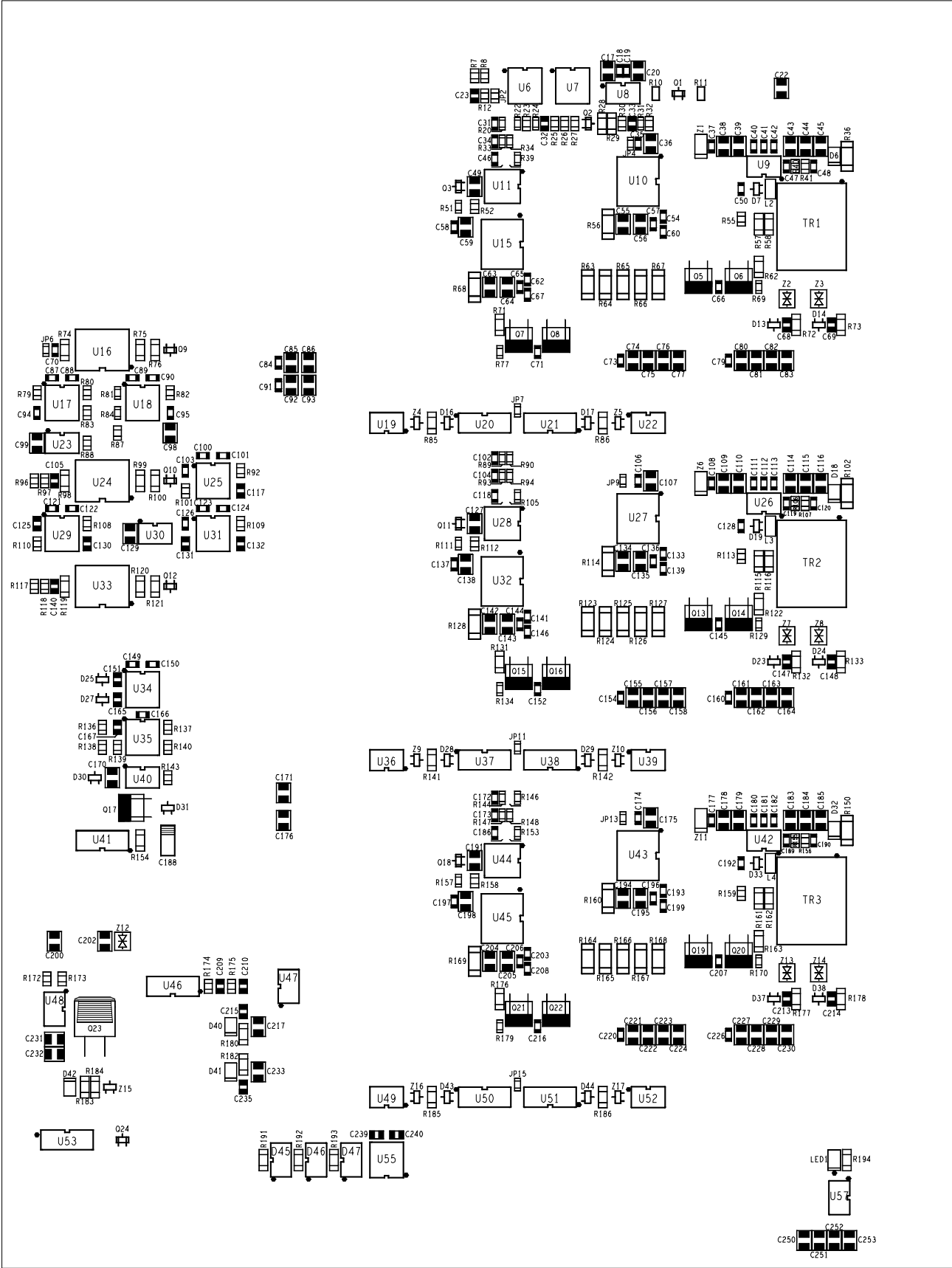
D

C

B

A

TOP VIEW  
Sicht auf  
Bestückungsseite



ALL DIMENSIONS METRIC

SMD-Lageplan

Part-No. G2A26800MX2  
Teil-Nr.

Scale  
Massstab 1 : 1

DWG G2A26800MX

OTIS ENGINEERING CENTER  
BERLIN, GERMANY

DRAWN S. KOEPPEN  
CHK A. TUTAT  
APPD M. DEHMLOW  
AUTH CA47A-000528

ORIGINAL DATE  
2009-12-08  
SHEETS  
SHEET 32

PCB LAYOUT  
PBX\_BIDI

CADENCE ALLEGRO  
CAD GENERATED

CHANGES

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D

C

B

A

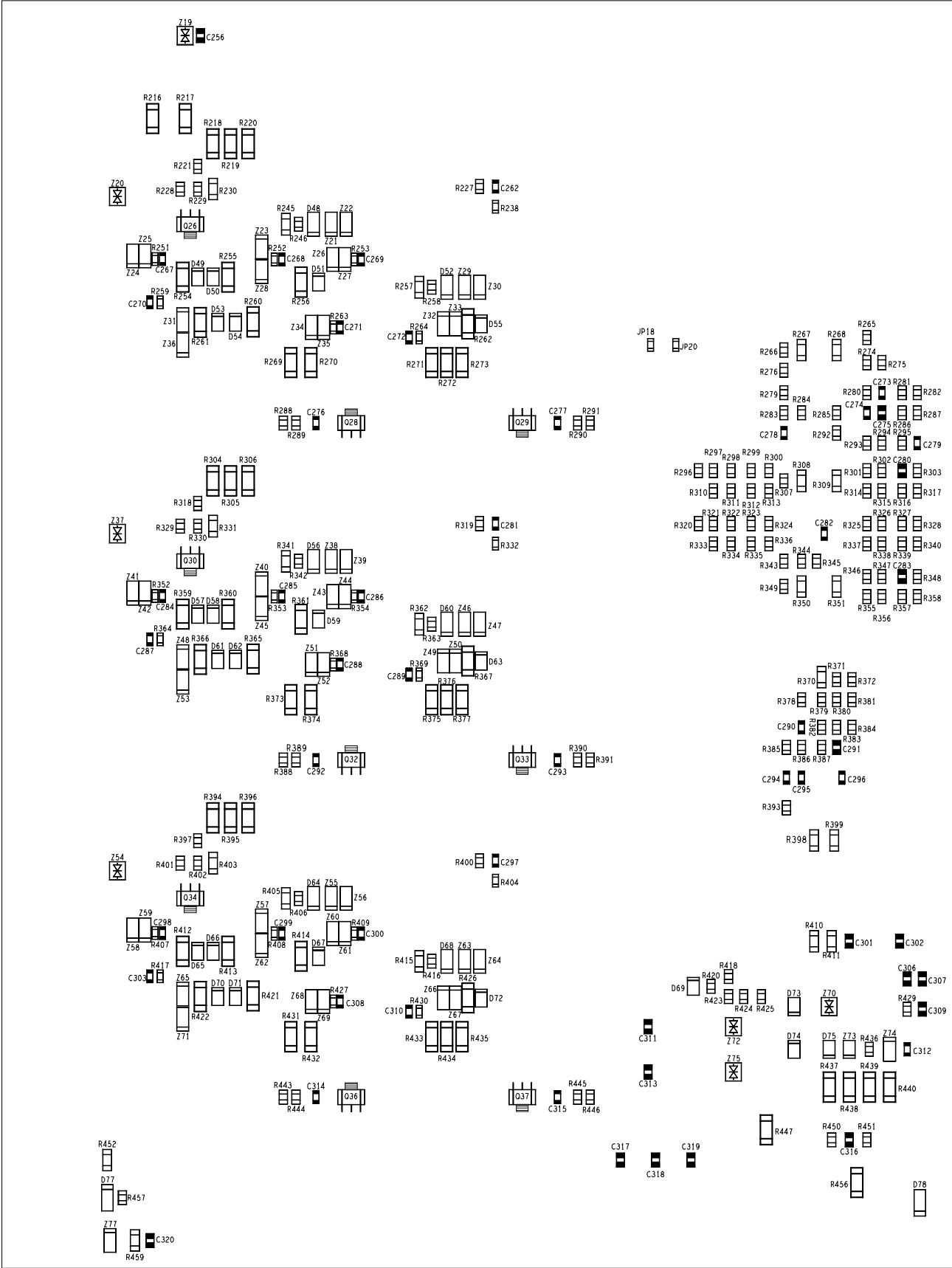
D

C

B

A

BOTTOM VIEW  
Sicht auf  
Loetseite



ALL DIMENSIONS METRIC

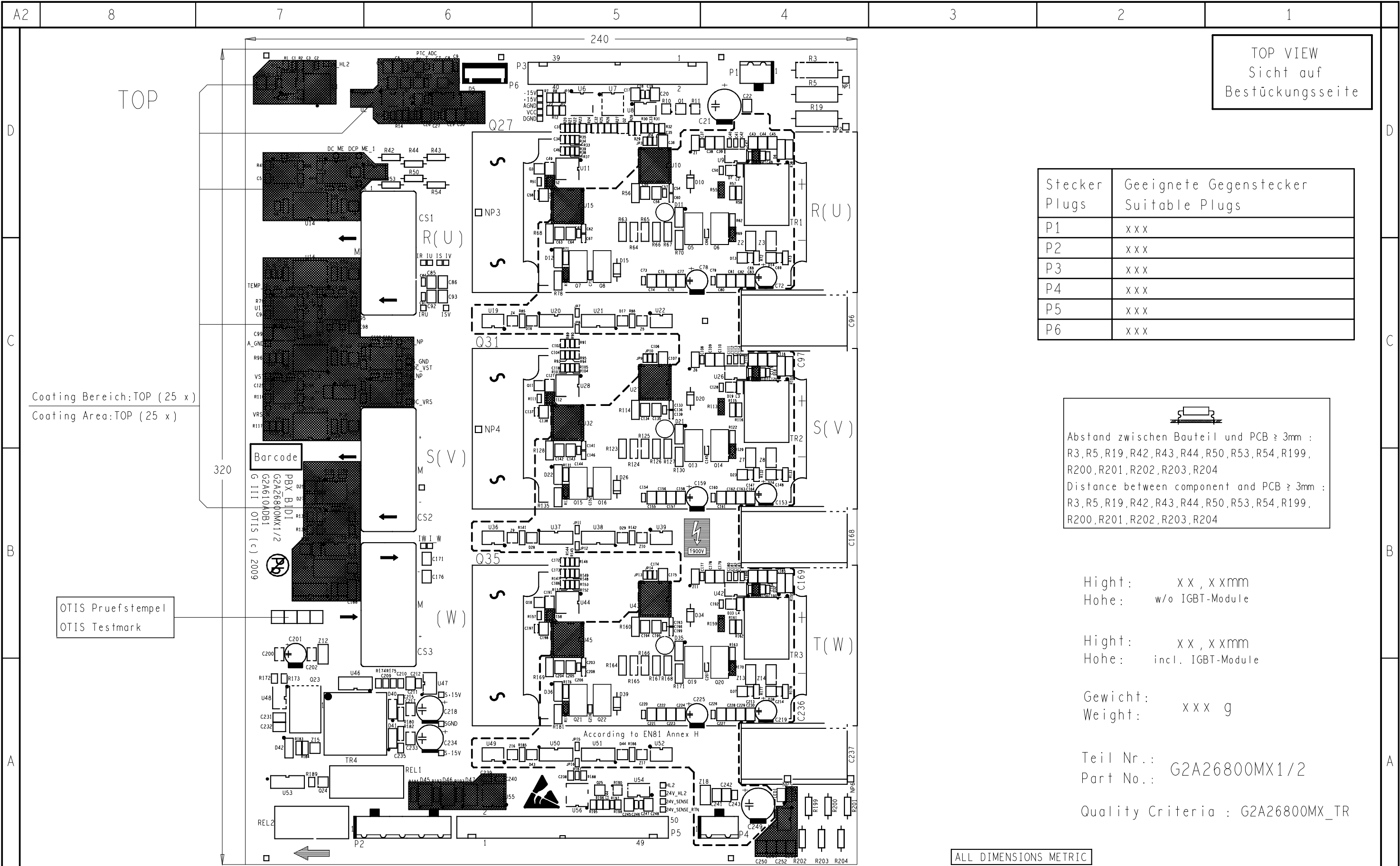
CHANGES

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PCB LAYOUT  
**PBX\_BIDI**  
CADENCE ALLEGRO  
CAD GENERATED

SMD-Lageplan		
Part-No. G2A26800MX2 Teil-Nr.		
Scale Massstab 1 : 1		
DWG G2A26800MX		
OTIS ENGINEERING CENTER BERLIN, GERMANY		
DRAWN	S. KOEPPEN	ORIGINAL DATE 2009-12-08
CHK	A. TUTAT	
APPD	M. DEHMLOW	SHEETS SHEET 33
AUTH	CA47A-000528	



Stecker Plugs	Geeignete Gegenstecker Suitable Plugs
P1	xxx
P2	xxx
P3	xxx
P4	xxx
P5	xxx
P6	xxx

Abstand zwischen Bauteil und PCB  $\geq 3\text{mm}$  :  
R3,R5,R19,R42,R43,R44,R50,R53,R54,R199,  
R200,R201,R202,R203,R204  
Distance between component and PCB  $\geq 3\text{mm}$  :  
R3,R5,R19,R42,R43,R44,R50,R53,R54,R199,  
R200,R201,R202,R203,R204

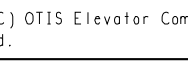
Hight:        x x , x xmm  
Hohe:        w/o IGBT-Module

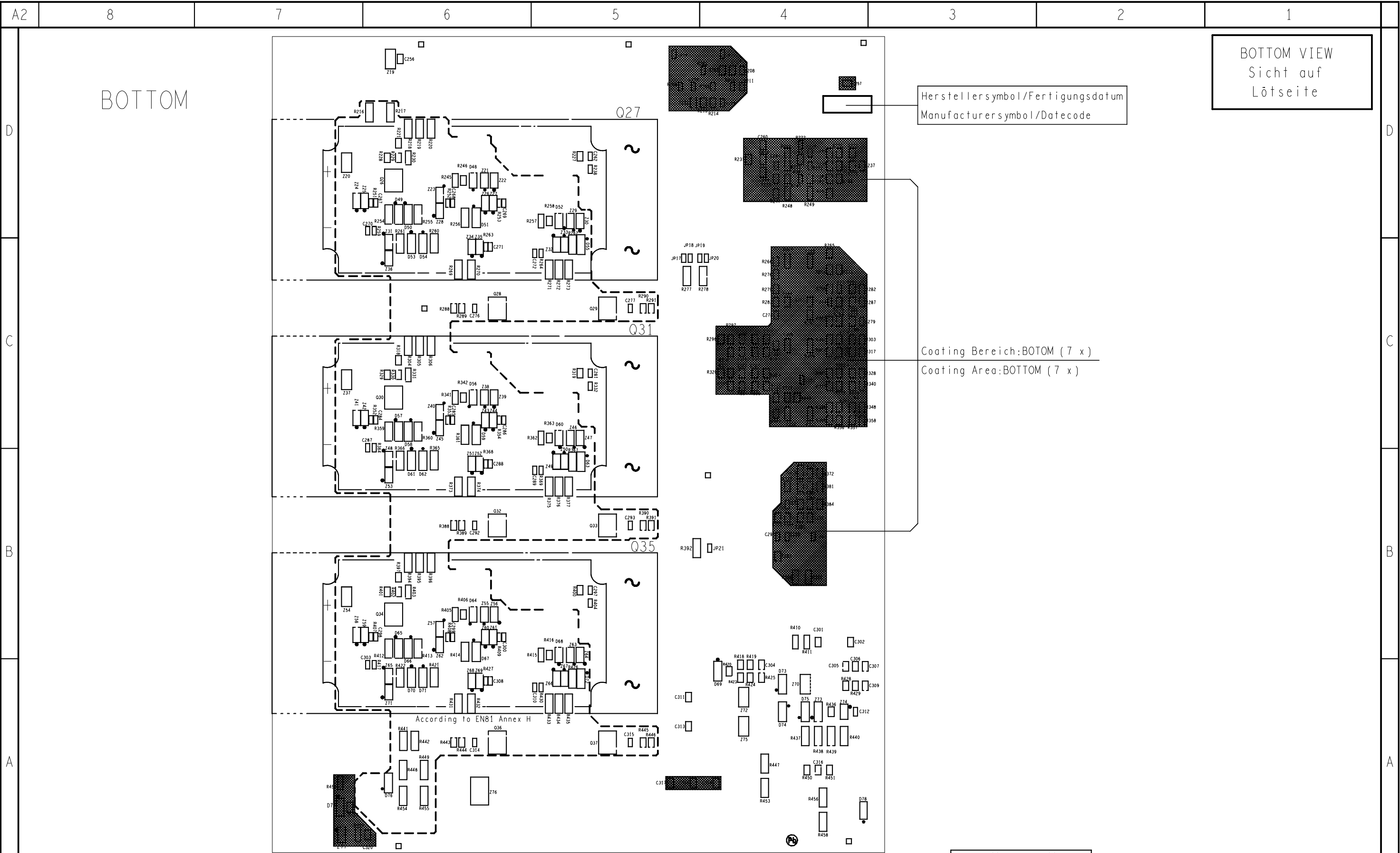
Hight:        x x , x xmm  
Hohe:        incl. IGBT-Module


Gewicht:        x x x g  
Weight:

Teil Nr.:  
Part No.: G2A26800MX1/2

Quality Criteria : G2A26800MX\_TR

OECB A2 REV 1998.11-13	CHANGES	<div>WARNING</div> <div>This work and the information it contains are the property of OTIS Elevator Company (OTIS). It is delivered to others on the express condition that it will be used only for, or on behalf of, OTIS; that neither it nor the information it contains will be reproduced or disclosed, in whole or in part, without the prior written consent of OTIS; and that on demand it and any copies will be promptly returned to OTIS.</div> <div>Unpublished work (C) OTIS Elevator Company 1998 All rights reserved.</div>	PCB LAYOUT	DWG	G2A26800MX	
			PBX_BIDI	OTIS ENGINEERING CENTER BERLIN, GERMANY		
				DRAWN S.KOEPPEN		ORIGINAL DATE
				CHK A.TUTAT		2009-12-08
				APPD M.DEHMLOW		SHEETS
		<div> A United Technologies Company</div>	CADENCE ALLEGRO	AUTH CA47A-000528	SHEET 34	
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						AUTH CA47A-000528		SHEET 35	
						CADENCE ALLEGRO CAD GENERATED			