

A3	1	2	3	4	5	6	7	8
----	---	---	---	---	---	---	---	---

POWER BOARD EXTENDED BIDIRECTIONAL

PAGE		CIRCUIT	
2	CONVERTER INTERFACE TO PDB_II AND GDCB CHG-RELAY & RELAY DRIVER	E2PROM #4 GATE DRIVER ENABLE	
3	INVERTER INTERFACE TO PDB_II ERROR MERRING: DRIVER OCT ERROR MERRING: GATE DRIVER POWER FAIL	E2PROM #2 GATE DRIVER ENABLE PTC TEMPERATURE MEASUREMEN	
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- 17	ADD-ON: NETS BY PAGE		
18- 28	ADD-ON: CREF PART REPORT		
29- 38	LAYOUT DRAWINGS		





PART NUMBER:	GBA26800MX
TEST REQUIREMENT:	GBA26800MX_TR
BASIC DATA:	GBA26800MX_BD
BARE BOARD:	GBA610ADB
PCB CODE:	BXADB1--

DRAWING
ABBREV=PBX_BIDI
TITLE=PBX_BIDI
LAST MODIFIED=Wed Jul 16 13:42:21 2014

SOME WIRES ARE ASSIGNED WITH PROPERTY:
LAYOUT OPTIMIZE=T (TRUE)

ATTENTION MUST BE PAID TO OPTIMIZE ALL WIRES
MARKED WITH THE VISIBLE VALUE "T".

ALTERNATIVELY
ASSEMBLED AS CONVERTER
OR
ASSEMBLED AS INVERTER

APPLICATION REGENERATIVE DRIVE	FUNCTIONALITY		
	CONVERTER	INVERTER	IGBT GATE RESISTOR [OHM]
GBA26800MX1 (OVFR2A-412) ASSIGNED WITH PROPERTY: ASSEMBLY_SEC1=NO			2/12
GBA26800MX2 (OVFR2A-412) ASSIGNED WITH PROPERTY: ASSEMBLY_SEC2=NO			2/12
GBA26800MX3 (OVFR2A-416) ASSIGNED WITH PROPERTY: ASSEMBLY_SEC3=NO			3.92/3.92
GBA26800MX4 (OVFR2A-416) ASSIGNED WITH PROPERTY: ASSEMBLY_SEC4=NO			3.92/3.92

COLORED CIRCUIT DIAGRAM TO ACCENT THE
NET-SPACINGS CONCERNING EN-81.
COLOR WITH ASSOCIATED NET-SPACING PROPERTIES

BLACK:	NO_TYPE	24_VOLT	NOT USED COLORS	YELLOW
PURPLE:	24_VOLT_SE			SALMON
RED:	24_VOLT_SW			PINK
GRAY:	PE	SENSOR		AQUA
GREEN:	HI_DC_PLUS			MONO
BLUE:	HI_DC_MINUS			
BROWN:	HI_DC_MID	AC_LINE		
PEACH:	AC_LINE			
ORANGE:	RUP	SVP		TWP
VIOLET:	IN_LOW			
SKYBLUE:	OPTOCOUPERS, TRAFOS AND ALTERNATIV ASSEMBLED JUMPER REQUIRED FOR GALVANIC INSULATION			

Changes					
2013-01-18	G(B)A	REDESIGNED FOR 160A-DRIVE,	ALL PAGES UPDATED	CN376610	A. TUTAT
2013-12-02	SMPS-SENSE:	RC-SNUBBER,	RC-FILTER	I SENSE	CN453423
	SMPS-DRIVER:	SECONDARY SIDE	CAP	100UF POPULATED	A. TUTAT
2014-07-14	DC-LINK-LED	CIRCUIT	NOT ASSEMBLED,	C249 CHANGED IN GAA226KG1	CN570338
					I. ATALMIS
DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING					

DEVICE TYPE FOR DESIGN REFERENCE ONLY: REFER TO BOM FOR MANUFACTURING

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CIRCUIT DIAGRAM FOR

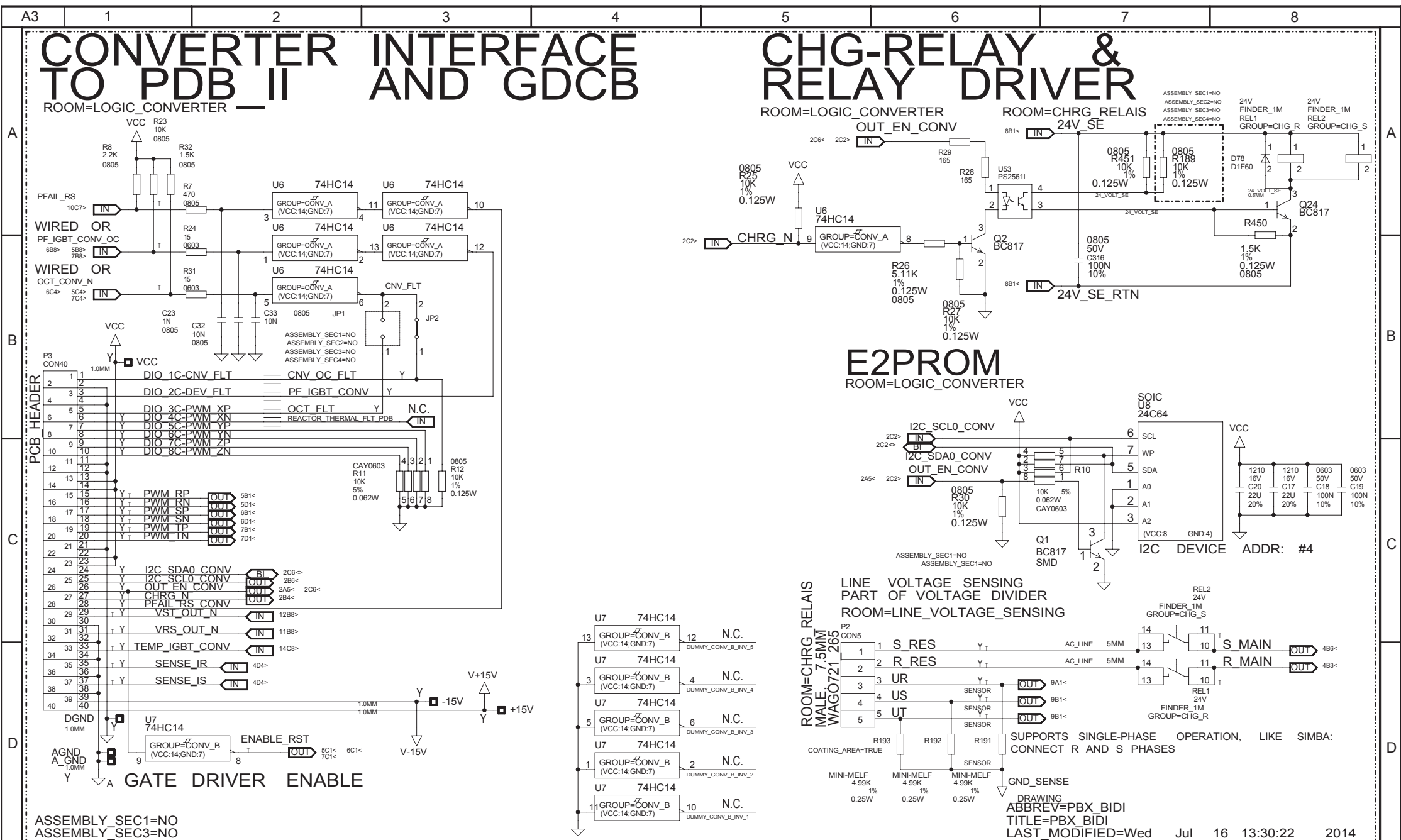
PBX BIDI

CAD GENERATED
CADENCE-CONCEPT

DWG GBA26800MX

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	A. Tutst	ORIGINAL DATE 2010-04-13
CHK	M. Dehmlow	
APPD	M. Dehmlow	
AUTH	CA47A-000528	



Changes

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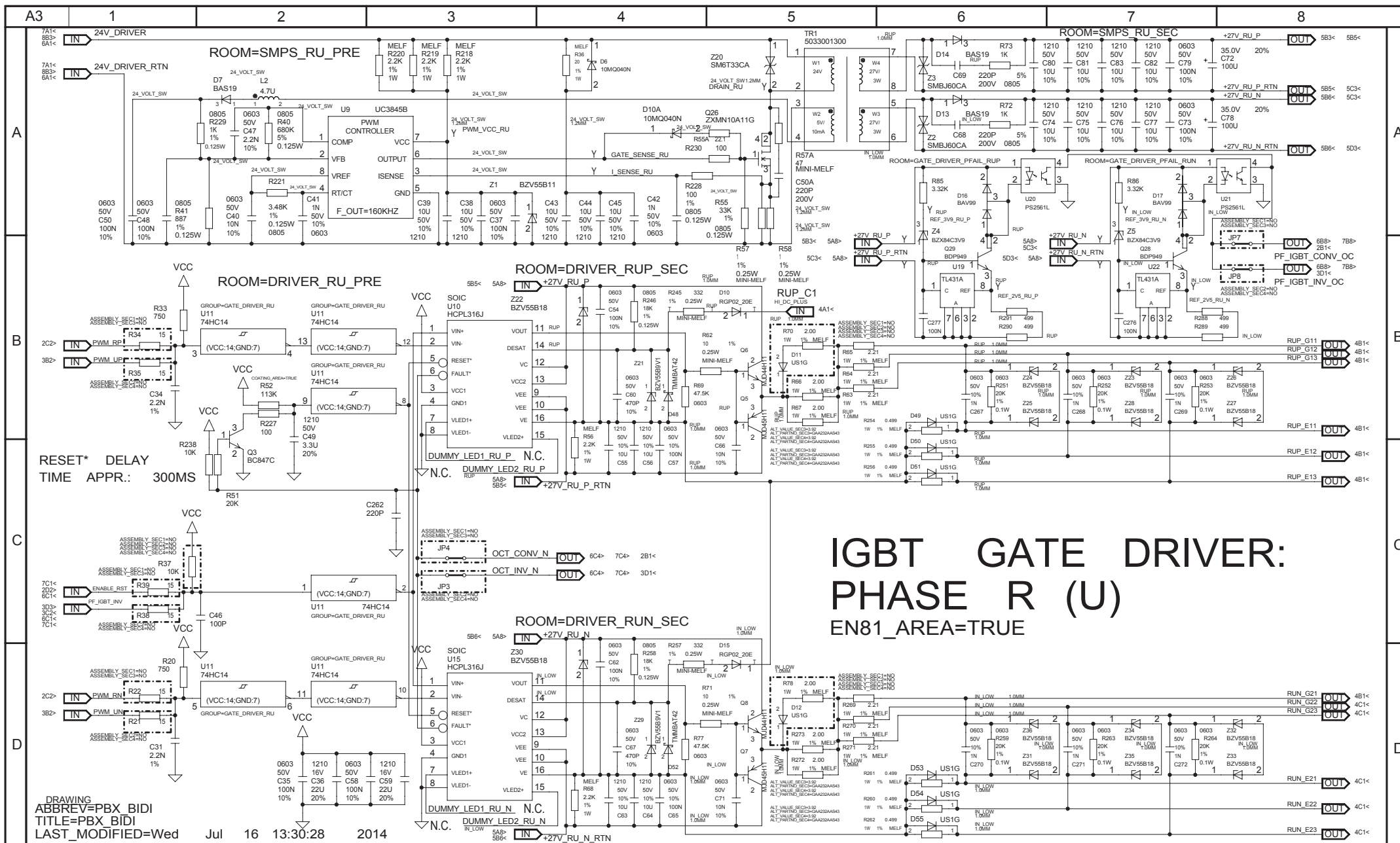
DRAWN A. Tuttle	ORIGINAL DATE
------------------------	---------------

CHK	M. Dehniow	2010-04-13
-----	------------	------------

APPD	M. Dehmig	SHEETS
		SHEET 1

T	AUTH	CA47A-000528	SHEET 2
---	------	--------------	---------

AUTH	CA47A-000528	SHEET 4
------	--------------	---------



Changes

2013-12-02 SMPS-DRIVER: SECONDARY SIDE CAP 100UF POPULATED

CN453423

A.TUTAT

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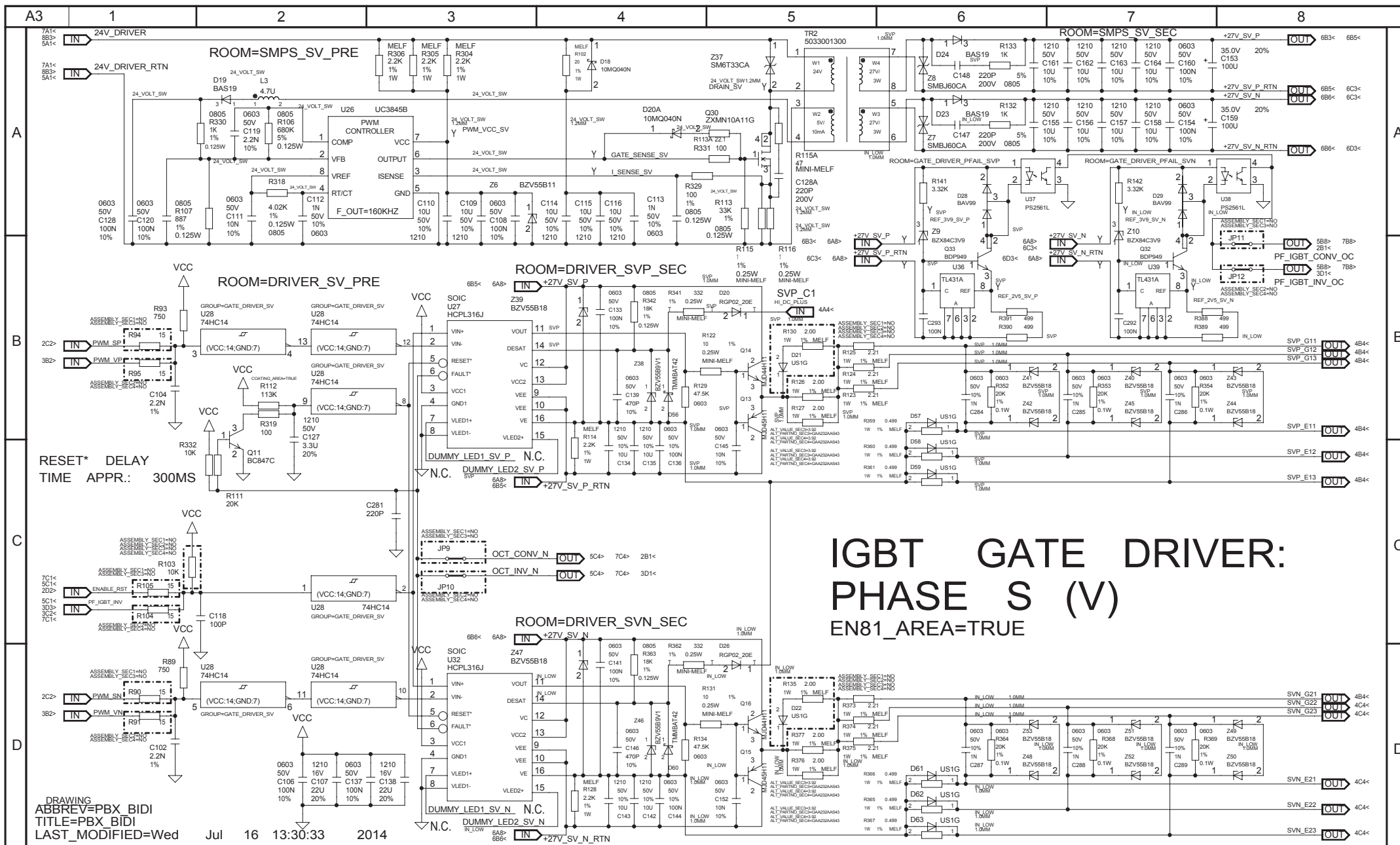
DRAWN **A. Tutat** ORIGINAL DATE

CHK **M. Dehmow** 2010-04-13

APPD **M. Dehmow** SHEETS

AUTH **CA47A-000528** SHEET **5**

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING



Changes

2013-12-02 SMPS-DRIVER: SECONDARY SIDE CAP 100UF POPULATED

CN453423

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CIRCUIT DIAGRAM FOR

PBX_BIDI

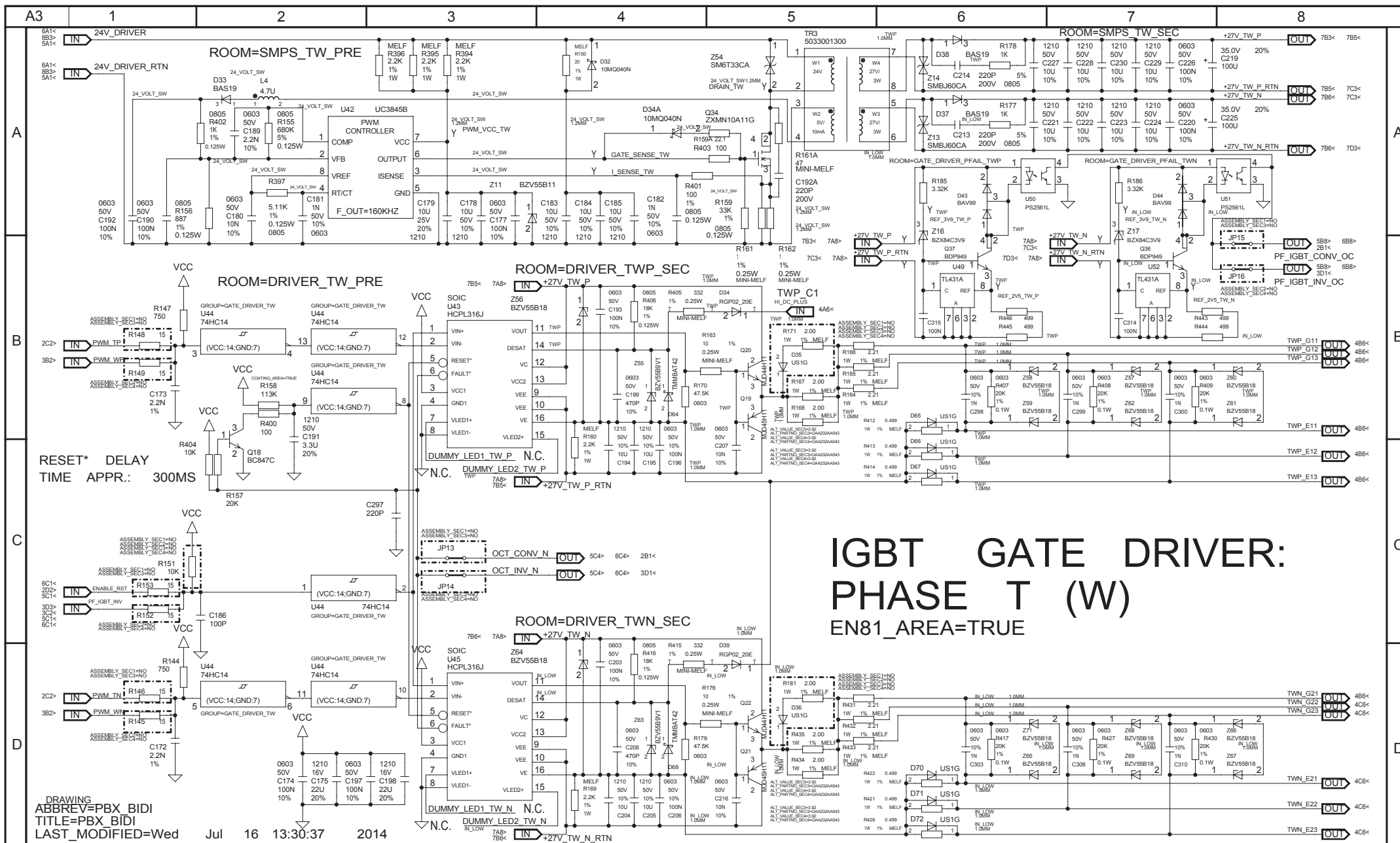
CAD GENERATED
CADENCE-CONCEPT

DWG **GBA26800MX**

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN A. Tutat	ORIGINAL DATE
CHK M. Dehmow	2010-04-13
APPD M. Dehmow	SHEETS
AUTH CA47A-000528	SHEET 6

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Changes

2013-12-02 SMPS-DRIVER: SECONDARY SIDE CAP 100UF POPULATED

CN453423

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CIRCUIT DIAGRAM FOR

PBX_BIDI

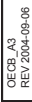
CAD GENERATED
CADENCE-CONCEPT

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DRAWN A. Tutat	ORIGINAL DATE
CHK M. Dehmow	2010-04-13
APPD M. Dehmow	SHEETS
AUTH CA47A-000528	SHEET 7


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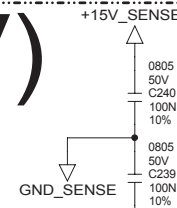
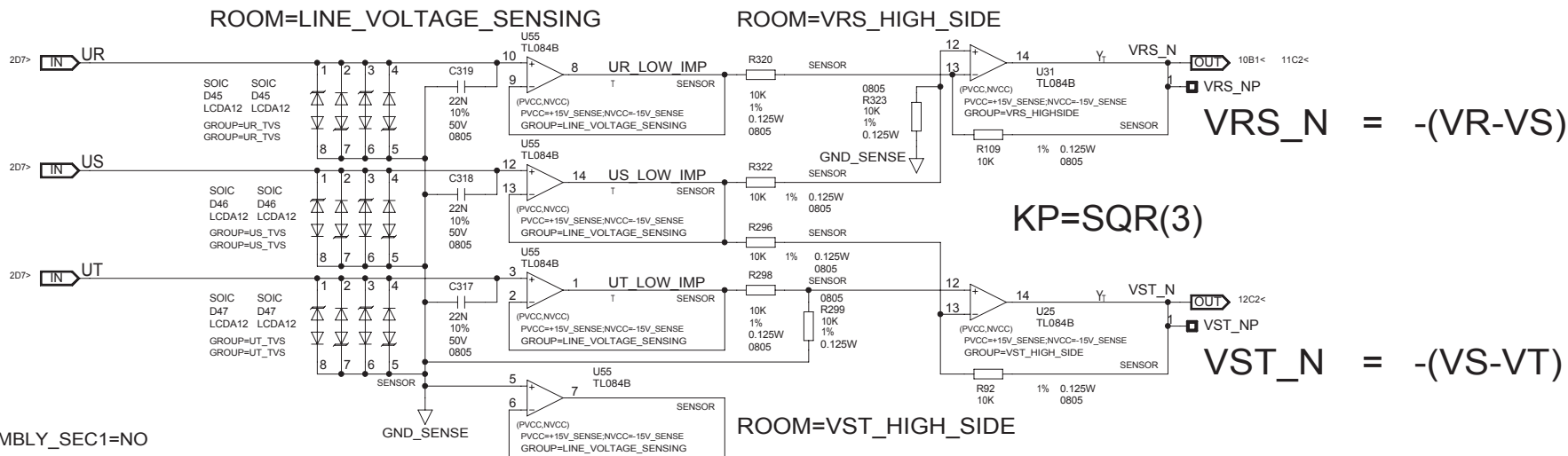
**Otis**
A United Technologies Company

<p>CIRCUIT DIAGRAM FOR</p> <p>PBX_BIDI</p> <p>CAD GENERATED CADENCE-CONCEPT</p>	DWG GBA26800MX	
	OTIS ENGINEERING CENTER BERLIN, GERMANY	
	DRAWN A. Tüht	ORIGINAL DATE
	CHK M. Dehmow	2010-04-13
	APPD M. Dehmow	SHEETS
AUTH CA47A-000528	SHEET 8	

LINE VOLTAGE SENSING (CONV)

STAR- TO DELTA-CONNECTION

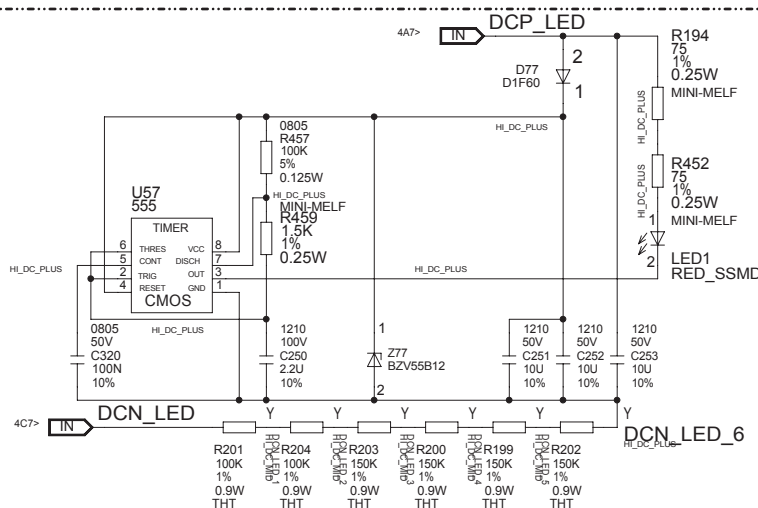
COATING_AREA=TRUE



KP=SQR(3)

FLASHING DC-LINK LED

ROOM=DC_LINK_LED



DRAWING

ABBREV=PBX_BIDI

TITLE=PBX_BIDI

LAST_MODIFIED=Wed Jul 16 13:46:36 2014

Changes

DATE	DESCRIPTION	BY	REASON
2014-07-14	DC-LINK-LED CIRCUIT NOT ASSEMBLED	CN570338	I. ATALMIS

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

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CIRCUIT DIAGRAM FOR

PBX_BIDI

CAD GENERATED
CADENCE-CONCEPT

DWG GBA26800MX

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN A. Tulev ORIGINAL DATE

CHK M. Dehmlow 2010-04-13

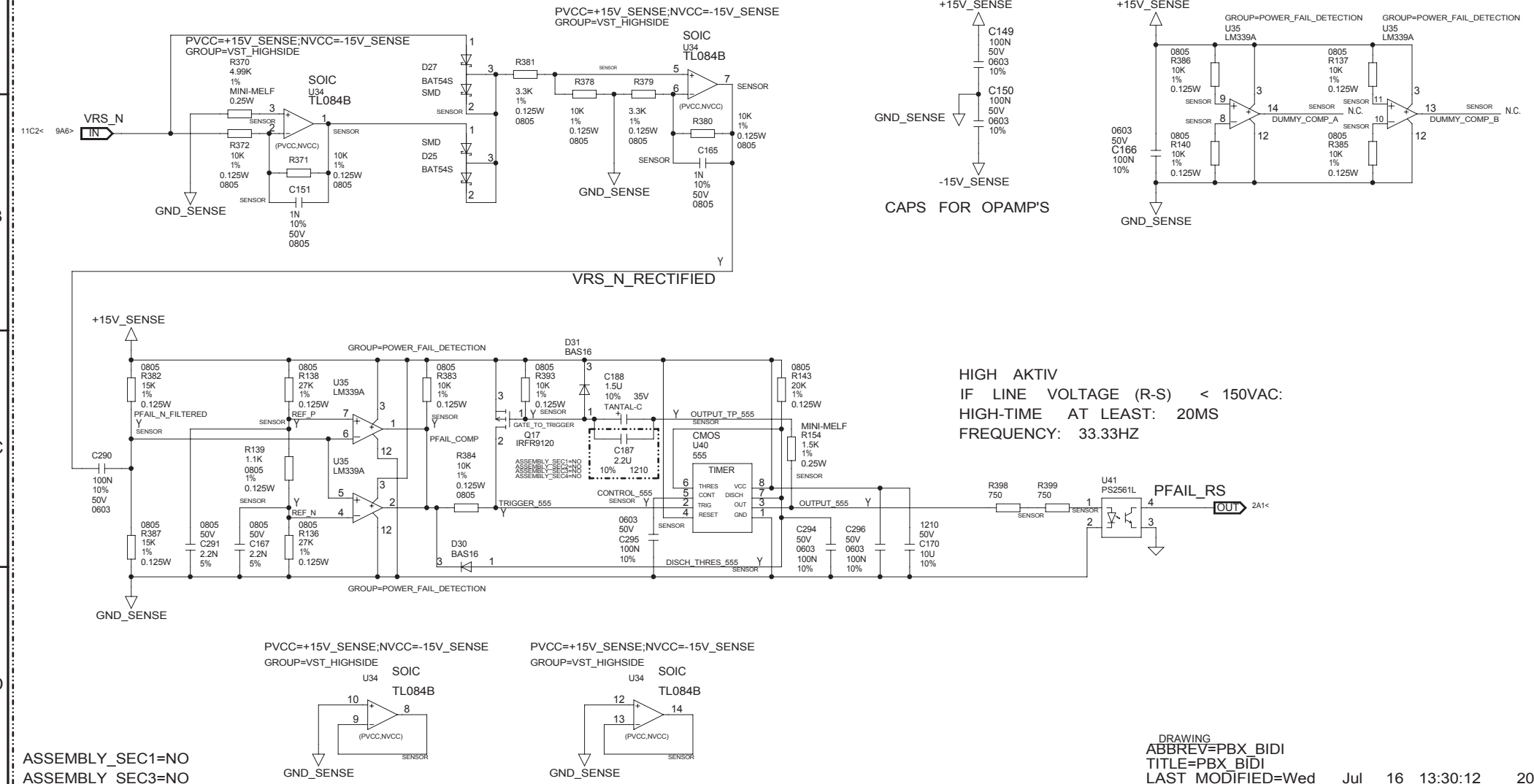
APPD M. Dehmlow SHEETS

AUTH CA47A-000528 SHEET 9

POWER FAIL MONITORING CIRCUIT (CONV)

ROOM=POWER_FAIL_MONITORING
COATING_AREA=TRUE

```
ASSEMBLY_SEC3=NO
ASSEMBLY_SEC3=NO
```



HIGH AKTIV
IF LINE VOLTAGE (R-S) < 150VAC:
HIGH-TIME AT LEAST: 20MS
FREQUENCY: 33.33HZ

```
ASSEMBLY_SEC1=NO
ASSEMBLY_SEC3=NO
```

DRAWING
ABBREV=PBX_BIDI
TITLE=PBX_BIDI
LAST_MODIFIED=Wed Jul 16 13:30:12 2014

Changes

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CIRCUIT DIAGRAM FOR

PBX_BIDI

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DWG GBA26800MX

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BERLIN, GERMANY

DRAWN	A. Tutat	ORIGINAL DATE
CHK	M. Dehniow	
APPD	M. Dehniow	SHEETS SHEET 10
AUTH	CA47A-000528	

VRS PHASE TO PHASE INSULATION (CONV)

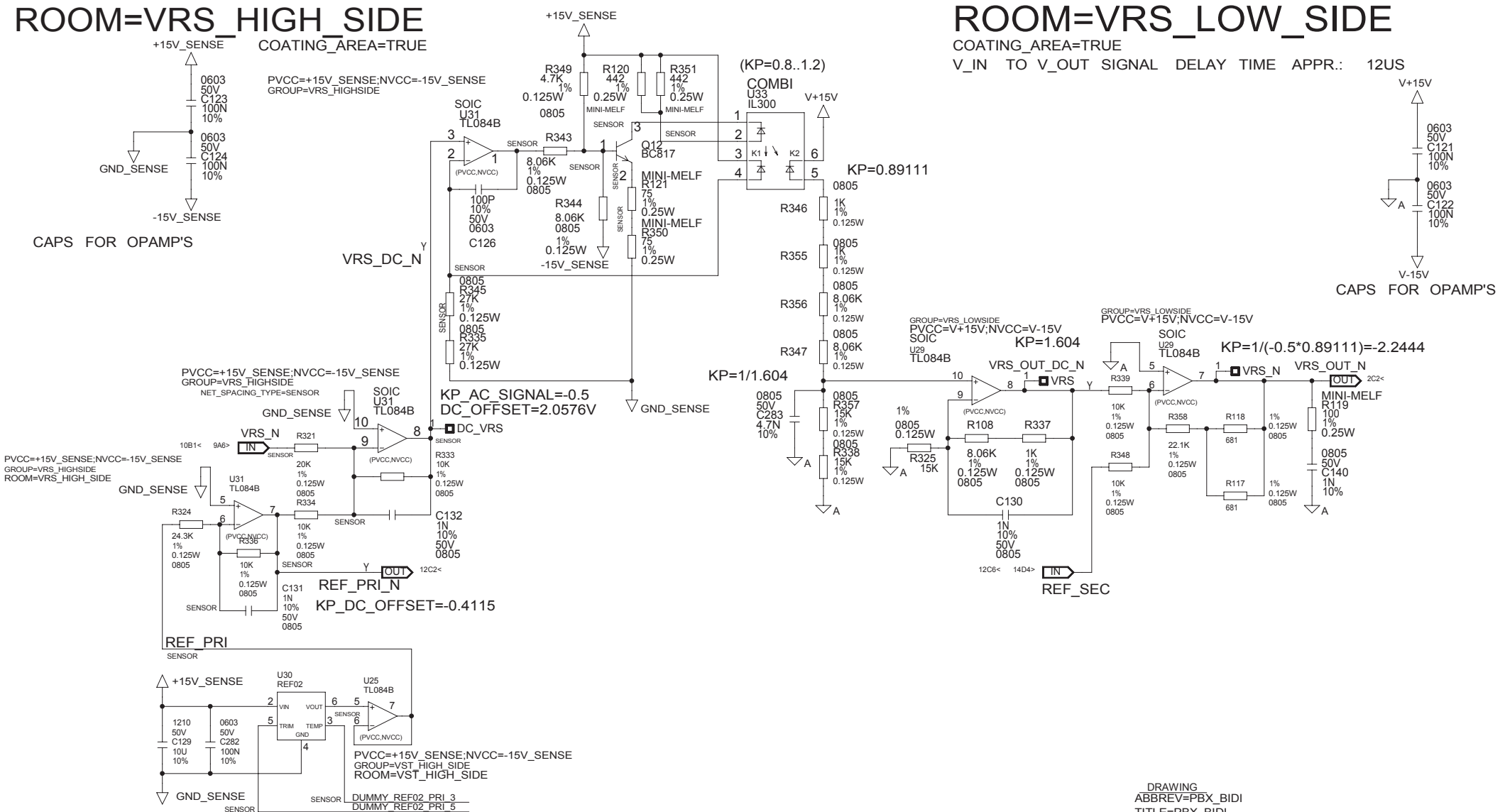
ROOM=VRS_HIGH_SIDE

ROOM=VRS_LOW_SIDE

COATING_AREA=TRUE

COATING_AREA=TRUE

V_IN TO V_OUT SIGNAL DELAY TIME APPR.: 12US



ASSEMBLY_SEC1=NO
ASSEMBLY_SEC3=NO

DRAWING
ABBREV=PBX_BIDI
TITLE=PBX_BIDI
LAST_MODIFIED=Wed Jul 16 13:30:06 2014

Changes

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CIRCUIT DIAGRAM FOR

PBX_BIDI

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CADENCE-CONCEPT

DWG GBA26800MX

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	A. Tulev	ORIGINAL DATE
CHK	M. Dehmlow	2010-04-13
APPD	M. Dehmlow	SHEETS
AUTH	CA47A-000528	SHEET 11

DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING

VST PHASE TO PHASE INSULATION (CONV)

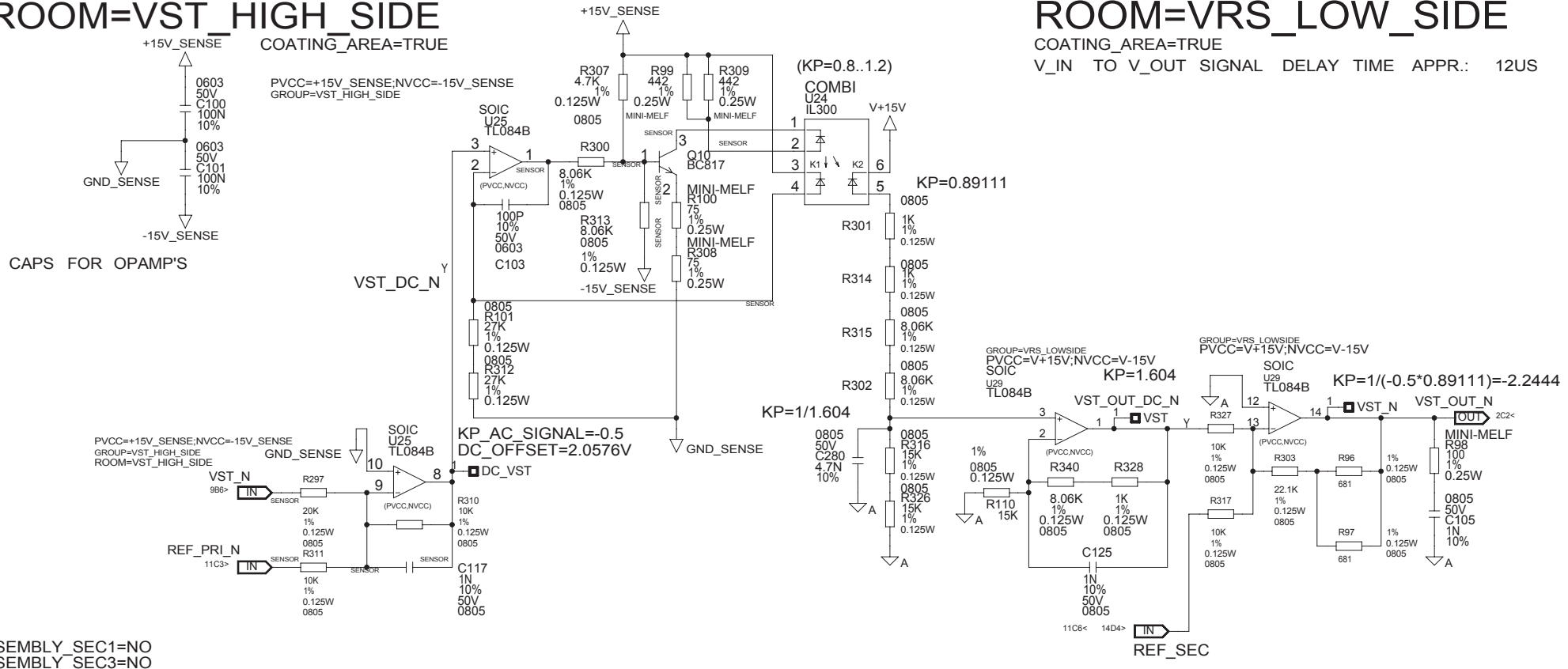
ROOM=VST_HIGH_SIDE

ROOM=VRS_LOW_SIDE

COATING_AREA=TRUE

COATING_AREA=TRUE

V_IN TO V_OUT SIGNAL DELAY TIME APPR.: 12US



Changes

CIRCUIT DIAGRAM FOR

PBX_BIDI



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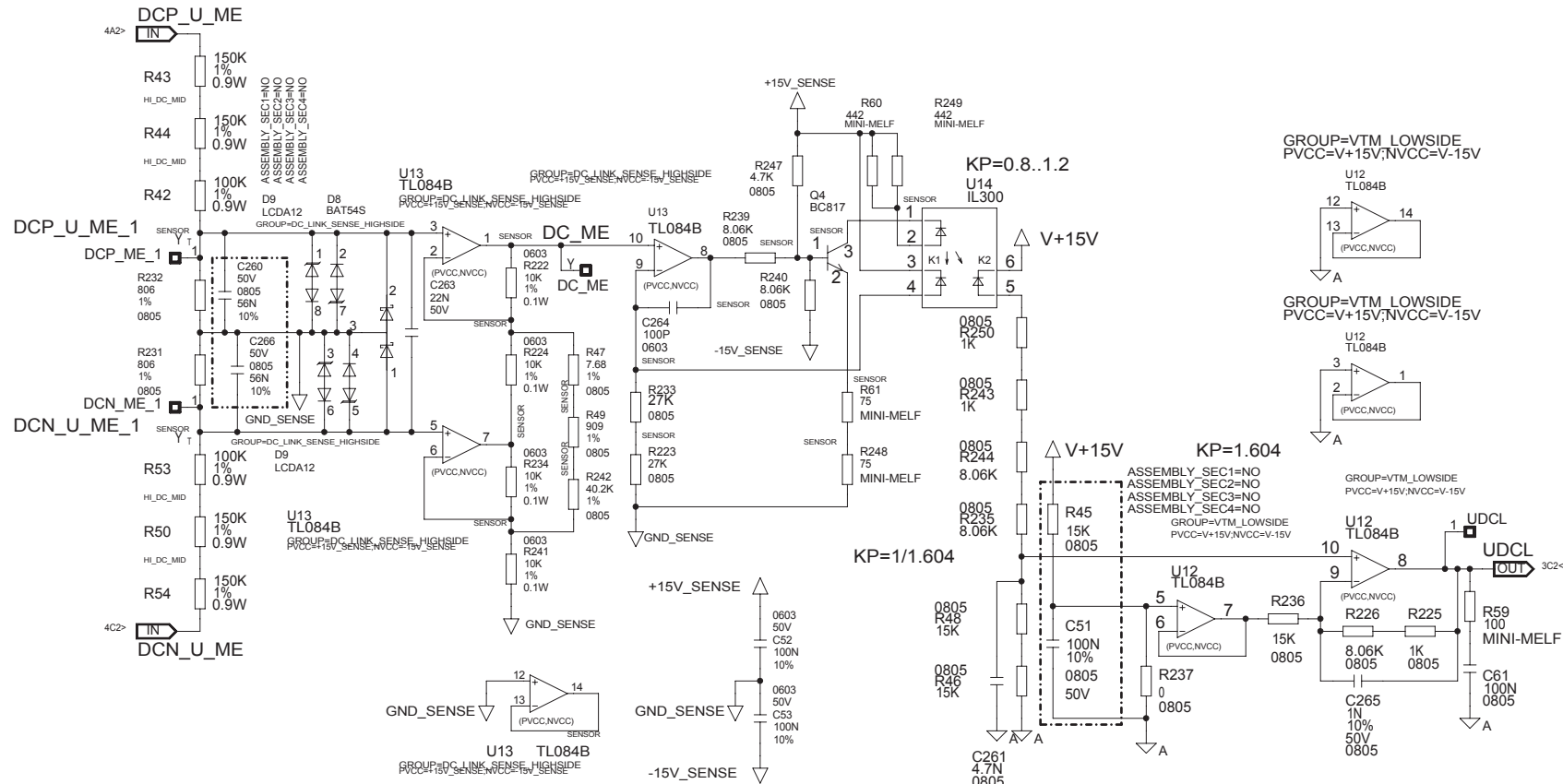
DC LINK VOLTAGE MEASUREMENT (INV)

DC_LINK VOLTAGE

0V..1000V

DIVIATED TO

0V..5V, WITH KP=0.89111: 0V..4.4555V

ROOM=DC_LINK_MEASURE_HIGH_SIDE
COATING_AREA=TRUEROOM=DC_LINK_MEASURE_LOW_SIDE
COATING_AREA=TRUE

HIGH SIDE VOLTAGE DIVIDER

 $KP=(1K612/(800K+1K612))$ $KP=0.002011$

DIFFERENTIAL AMPLIFIER

 $KP=2(1+10K/41K11668)$ $KP=2.4864$

ANALOG INSULATOR

 $KP=48K12/54K$ $KP=0.89111$ $I_PIN_4=I_PIN_5$

LOW SIDE VOLTAGE DIVIDER + AMPLIFIER

 $KP=1$ ASSEMBLY_SEC2=NO
ASSEMBLY_SEC4=NO $KP=0.002011*2.4864$ $KP=0.005$ DRAWING
ABBREV=PBX_BIDI
TITLE=PBX_BIDI
LAST_MODIFIED=Wed Jul 16 13:30:03 2014

Changes

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CIRCUIT DIAGRAM FOR

PBX_BIDI

CAD GENERATED
CADENCE-CONCEPT

DWG GBA26800MX

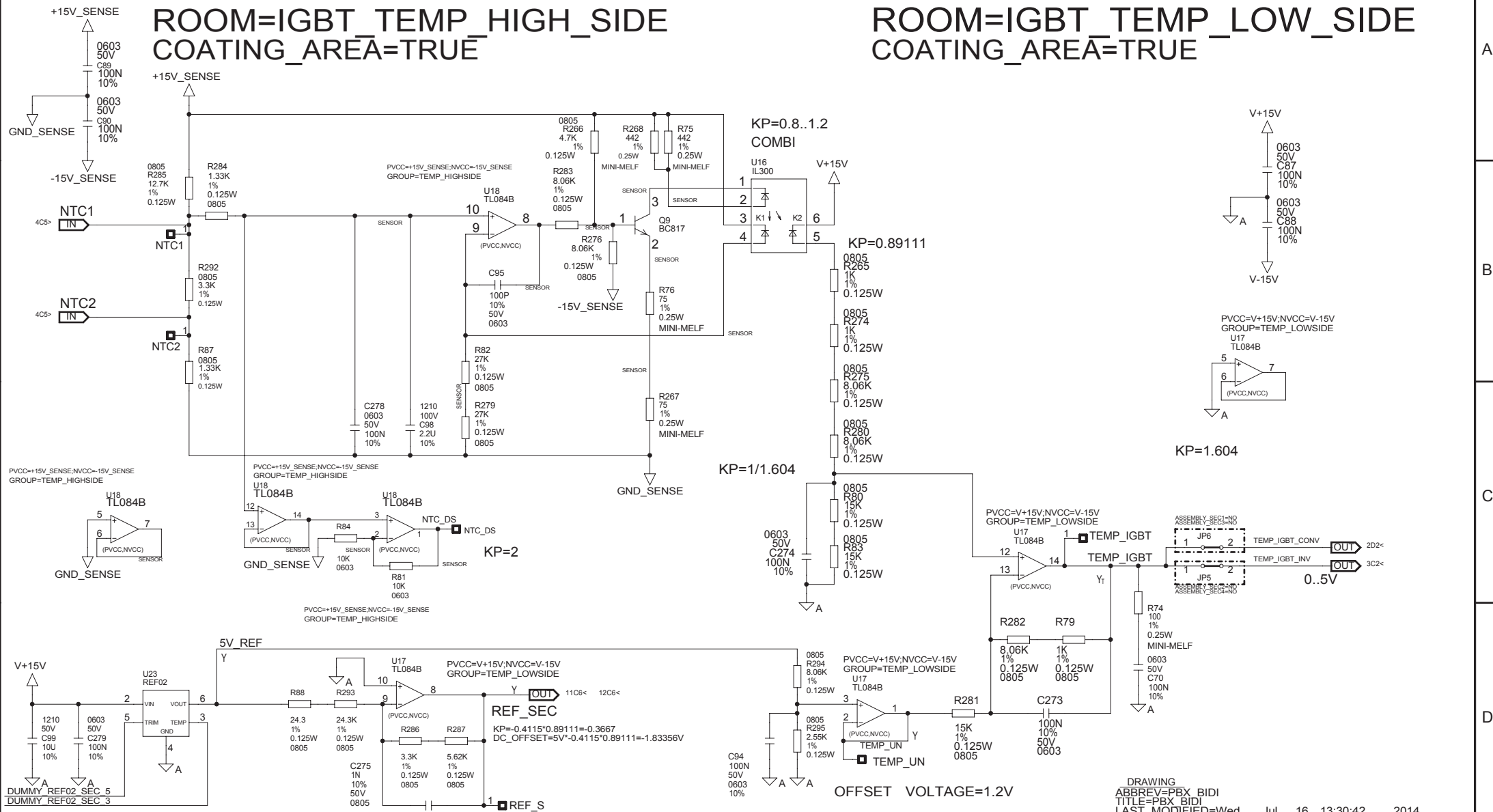
OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	A. Tuxel	ORIGINAL DATE
CHK	M. Dehmlow	2010-04-13
APPD	M. Dehmlow	SHEETS
AUTH	CA47A-000528	SHEET 13

A3	1	2	3	4	5	6	7	8
IGBT TEMPERATURE MEASUREMENT								

```
ROOM=IGBT_TEMP_HIGH_SIDE
COATING AREA=TRUE
```

ROOM=IGBT_TEMP_LOW_SIDE
COATING AREA=TRUE



DRAWING
ABBREV=PBX BIDI
TITLE=PBX BIDI
LAST_MODIFIED=Wed Jul 16 13:30:42 2014

Changes

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CIRCUIT DIAGRAM FOR

PBX BIDI


CAD GENERATED
CADENCE-CONCEPT

DWG GBA26800MX

OTIS ENGINEERING CENTER
BERLIN, GERMANY


DRAWN	A. Tutat	ORIGINAL DATE
CHK	M. Dehmow	2010-04-13
APPD	M. Dehmow	35 SHEETS
AUTH	CA47A.000628	SHEET 14

A3		1		2		3		4		5		6		7		8	
A	Title: Basenet Report Design: pbx_bidi Date: Jun 7 7:16:52 2012																
	Base nets and synonyms for proj_lib.PBX_BIDI(@proj_lib.pbx_bidi(sch_1))																
	Base Signal		Synonyms		Location([Zone][dir])												
	+27V_RU_N		+27V_RU_N - @proj_lib.PBX_BIDI		5A8>		5B6<		5C3<								
	+27V_RU_N_RTN		+27V_RU_N_RTN - @proj_lib.PBX_BIDI		5A8>		5B6<		5D3<								
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	+27V_TW_P_RTN		+27V_TW_P_RTN - @proj_lib.PBX_BIDI		7A8>		7B5<		7C3<								
	5V_REF		5V_REF - @proj_lib.PBX_BIDI		14D2												
	24V_ADC		24V_ADC - @proj_lib.PBX_BIDI		3D7												
	24V_DRIVER		24V_DRIVER - @proj_lib.PBX_BIDI		8B3>		5A1<		6A1<		7A1<						
	24V_DRIVER_RTN		24V_DRIVER_RTN - @proj_lib.PBX_BIDI		8B3>		5A1<		6A1<		7A1<						
	24V_SE		24V_SE - @proj_lib.PBX_BIDI		2A6<		8B1<		8B1<								
C	24V_SENSE		24V_SENSE - @proj_lib.PBX_BIDI		3A2>		8D1<										
	24V_SENSE_RTN		24V_SENSE_RTN - @proj_lib.PBX_BIDI		3A2>		8D1<										
	24V_SE_RTN		24V_SE_RTN - @proj_lib.PBX_BIDI		2B6<		8B1<		8B1<								
	24V_SMPS_SENSE		24V_SMPS_SENSE - @proj_lib.PBX_BIDI		8B2												
	24V_SMPS_SENSE_RTN		24V_SMPS_SENSE_RTN - @proj_lib.PBX_BIDI		8D4												
	24V_SW		24V_SW - @proj_lib.PBX_BIDI		8A1												
	24V_SW_RTN		24V_SW_RTN - @proj_lib.PBX_BIDI		8A1												
	CHRG_N		CHRG_N - @proj_lib.PBX_BIDI		2C2>		2B4<										
	CNV_FLT		CNV_FLT - @proj_lib.PBX_BIDI		2B3												
	CNV_OC_FLT		CNV_OC_FLT - @proj_lib.PBX_BIDI		2B2												
D	CONTROL_555		CONTROL_555 - @proj_lib.PBX_BIDI		10C3												
	DCN_DIS		DCN_DIS - @proj_lib.PBX_BIDI		4C2>		4A7<										
	DCN_LED		DCN_LED - @proj_lib.PBX_BIDI		4C7>		9D3<										
	DCN_LED_1		DCN_LED_1 - @proj_lib.PBX_BIDI		9D3												
	DCN_LED_2		DCN_LED_2 - @proj_lib.PBX_BIDI		9D4												
	DCN_LED_3		DCN_LED_3 - @proj_lib.PBX_BIDI		9D4												
	DCN_LED_4		DCN_LED_4 - @proj_lib.PBX_BIDI		9D4												
	DCN_LED_5		DCN_LED_5 - @proj_lib.PBX_BIDI		9D4												
	DCN_LED_6		DCN_LED_6 - @proj_lib.PBX_BIDI		9D5												
	DCN_U_ME		DCN_U_ME - @proj_lib.PBX_BIDI		4C2>		13C2<										
DCN_U_ME_1		DCN_U_ME_1 - @proj_lib.PBX_BIDI		13C1													
DCP_DIS		DCP_DIS - @proj_lib.PBX_BIDI		4A2>		4A7<											
DCP_LED		DCP_LED - @proj_lib.PBX_BIDI		4A7>		9C4<											
DCP_U_ME		DCP_U_ME - @proj_lib.PBX_BIDI		4A2>		13A2<											
DCP_U_ME_1		DCP_U_ME_1 - @proj_lib.PBX_BIDI		13B1													
DC_ME		DC_ME - @proj_lib.PBX_BIDI		13B3													
DIO_2C-DEV_FLT		DIO_2C-DEV_FLT - @proj_lib.PBX_BIDI		2B1													
PF_IGBT_CONV		PF_IGBT_CONV - @proj_lib.PBX_BIDI		2B2													
DIO_3C-PWM_XP		DIO_3C-PWM_XP - @proj_lib.PBX_BIDI		2B1													
DIO_4C-PWM_XN																	
DIO_5C-PWM_YP																	
DIO_6C-PWM_YN																	
DIO_7C-PWM_ZP																	
DIO_8C-PWM_ZN																	
DISCH_THRES_555																	
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DUMMY_CONV_B_INV_1																	
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DUMMY_INV_A_INV_1																	
DUMMY_INV_A_INV_2																	
DUMMY_INV_A_INV_3																	
DUMMY_LED1_RU_N																	
DUMMY_LED1_RU_P																	
DUMMY_LED1_SV_N																	
DUMMY_LED1_SV_P																	
DUMMY_LED1_TW_N																	
DUMMY_LED1_TW_P																	
OCT_FLT - @proj_lib.PBX_BIDI																	
DIO_4C-PWM_XN - @proj_lib.PBX_BIDI																	
REACTOR_THERMAL_FLT_PDB - @proj_lib.PBX_BIDI																	
DIO_5C-PWM_YP - @proj_lib.PBX_BIDI																	
DIO_6C-PWM_YN - @proj_lib.PBX_BIDI																	
DIO_7C-PWM_ZP - @proj_lib.PBX_BIDI																	
DIO_8C-PWM_ZN - @proj_lib.PBX_BIDI																	
DISCH_THRES_555 - @proj_lib.PBX_BIDI																	
DRAIN_RU - @proj_lib.PBX_BIDI																	
DRAIN_SV - @proj_lib.PBX_BIDI																	
DRAIN_TW - @proj_lib.PBX_BIDI																	
DUMMY_50POL_1 - @proj_lib.PBX_BIDI																	
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DUMMY_CONV_B_INV_3 - @proj_lib.PBX_BIDI																	
DUMMY_CONV_B_INV_4 - @proj_lib.PBX_BIDI																	
DUMMY_CONV_B_INV_5 - @proj_lib.PBX_BIDI																	
DUMMY_INV_A_INV_1 - @proj_lib.PBX_BIDI																	
DUMMY_INV_A_INV_2 - @proj_lib.PBX_BIDI																	
DUMMY_INV_A_INV_3 - @proj_lib.PBX_BIDI																	
DUMMY_LED1_RU_N - @proj_lib.PBX_BIDI																	
DUMMY_LED1_RU_P - @proj_lib.PBX_BIDI																	
DUMMY_LED1_SV_N - @proj_lib.PBX_BIDI																	
DUMMY_LED1_SV_P - @proj_lib.PBX_BIDI																	
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A		DUMMY_LED2_RU_N	@proj_lib.PBX_BIDI DUMMY_LED2_RU_N -		5D3					OCT_INV_N	OCT_INV_N - @proj_lib.PBX_BIDI	5C4>	6C4>	7C4>	3D1<		
		DUMMY_LED2_RU_P	@proj_lib.PBX_BIDI DUMMY_LED2_RU_P -		5C3					OLOAD_DUMMY	OLOAD_DUMMY - @proj_lib.PBX_BIDI	3C1					
		DUMMY_LED2_SV_N	@proj_lib.PBX_BIDI DUMMY_LED2_SV_N -		6D3					OUTPUT_555	OUTPUT_555 - @proj_lib.PBX_BIDI	10C4					
		DUMMY_LED2_SV_P	@proj_lib.PBX_BIDI DUMMY_LED2_SV_P -		6C3					OUTPUT_TP_555	OUTPUT_TP_555 - @proj_lib.PBX_BIDI	10C4					
		DUMMY_LED2_TW_N	@proj_lib.PBX_BIDI DUMMY_LED2_TW_N -		7D3					OUT_EN_CONV	OUT_EN_CONV - @proj_lib.PBX_BIDI	2C2>	2A5<	2C6<			
		DUMMY_LED2_TW_P	@proj_lib.PBX_BIDI DUMMY_LED2_TW_P -		7C3					OUT_EN_INV	OUT_EN_INV - @proj_lib.PBX_BIDI	3B2>	3A6<				
		DUMMY_OTI	@proj_lib.PBX_BIDI DUMMY_OTI - @proj_lib.PBX_BIDI		3D8					PE_RU	PE_RU - @proj_lib.PBX_BIDI	4C2					
		DUMMY_REF02_PRI_3	@proj_lib.PBX_BIDI DUMMY_REF02_PRI_3 -		11D2					PE_SV	PE_SV - @proj_lib.PBX_BIDI	4C5					
		DUMMY_REF02_PRI_5	@proj_lib.PBX_BIDI DUMMY_REF02_PRI_5 -		11D2					PE_TW	PE_TW - @proj_lib.PBX_BIDI	4C8					
		DUMMY_REF02_SEC_3	@proj_lib.PBX_BIDI DUMMY_REF02_SEC_3 -		14D1					PFAIL_COMP	PFAIL_COMP - @proj_lib.PBX_BIDI	10C3					
B		DUMMY_REF02_SEC_5	@proj_lib.PBX_BIDI DUMMY_REF02_SEC_5 -		14D1				PFAIL_N_FILTERED	PFAIL_N_FILTERED -	10C1						
		DUMMY_RU_NTC1	@proj_lib.PBX_BIDI DUMMY_RU_NTC1 - @proj_lib.PBX_BIDI		4C2					@proj_lib.PBX_BIDI							
		DUMMY_RU_NTC2	@proj_lib.PBX_BIDI DUMMY_RU_NTC2 - @proj_lib.PBX_BIDI		4C2					PFAIL_RS	PFAIL_RS - @proj_lib.PBX_BIDI	10C7>	2A1<				
		DUMMY_SMPS_EN	@proj_lib.PBX_BIDI DUMMY_SMPS_EN - @proj_lib.PBX_BIDI		3B6					PFAIL_RS_CONV	PFAIL_RS_CONV - @proj_lib.PBX_BIDI	2C1					
		DUMMY_TEMP_TEMP	@proj_lib.PBX_BIDI DUMMY_TEMP_TEMP -		3C5					PF_IGBT_CONV_OC	PF_IGBT_CONV_OC -	5B8>	6B8>	7B8>	2B1<		
		DUMMY_TEMP_TRIM	@proj_lib.PBX_BIDI DUMMY_TEMP_TRIM -		3C4					@proj_lib.PBX_BIDI							
		DUMMY_TW_NTC1	@proj_lib.PBX_BIDI DUMMY_TW_NTC1 - @proj_lib.PBX_BIDI		4C8					PF_IGBT_INV	PF_IGBT_INV - @proj_lib.PBX_BIDI	3D3>	3C2<	5C1<	6C1<	7C1<	
		DUMMY_TW_NTC2	@proj_lib.PBX_BIDI DUMMY_TW_NTC2 - @proj_lib.PBX_BIDI		4C8					PF_IGBT_INV_OC	PF_IGBT_INV_OC - @proj_lib.PBX_BIDI	5B8>	6B8>	7B8>	3D1<		
		ENABLE_RST	@proj_lib.PBX_BIDI ENABLE_RST - @proj_lib.PBX_BIDI		2D2>	5C1<	6C1<	7C1<		PTC_1	PTC_1 - @proj_lib.PBX_BIDI	3D4					
		GATE_SENSE_RU	@proj_lib.PBX_BIDI GATE_SENSE_RU - @proj_lib.PBX_BIDI		5A4					PTC_6	PTC_6 - @proj_lib.PBX_BIDI	3D4					
C		GATE_SENSE_SV	@proj_lib.PBX_BIDI GATE_SENSE_SV - @proj_lib.PBX_BIDI		6A4				PTC_23	PTC_23 - @proj_lib.PBX_BIDI	3D4						
		GATE_SENSE_TW	@proj_lib.PBX_BIDI GATE_SENSE_TW - @proj_lib.PBX_BIDI		7A4				PTC_45	PTC_45 - @proj_lib.PBX_BIDI	3D4						
		GATE_TO_TRIGGER	@proj_lib.PBX_BIDI GATE_TO_TRIGGER -		10C3					PTC_ADC	PTC_ADC - @proj_lib.PBX_BIDI	3D7					
		I2C_SCL0_CONV	@proj_lib.PBX_BIDI I2C_SCL0_CONV - @proj_lib.PBX_BIDI		2C2>	2B6<				PWM_RN	PWM_RN - @proj_lib.PBX_BIDI	2C2>	5D1<				
		I2C_SCL0_INV	@proj_lib.PBX_BIDI I2C_SCL0_INV - @proj_lib.PBX_BIDI		3B2>	3A6<	3C7<			PWM_RP	PWM_RP - @proj_lib.PBX_BIDI	2C2>	5B1<				
		I2C_SDA0_CONV	@proj_lib.PBX_BIDI I2C_SDA0_CONV - @proj_lib.PBX_BIDI		2C2<>	2C6<>				PWM_SN	PWM_SN - @proj_lib.PBX_BIDI	2C2>	6D1<				
		I2C_SDA0_INV	@proj_lib.PBX_BIDI I2C_SDA0_INV - @proj_lib.PBX_BIDI		3A6<>	3B2<>	3C7<>			PWM_SP	PWM_SP - @proj_lib.PBX_BIDI	2C2>	6B1<				
		ISENSE	@proj_lib.PBX_BIDI ISENSE - @proj_lib.PBX_BIDI		8C5					PWM_TN	PWM_TN - @proj_lib.PBX_BIDI	2C2>	7D1<				
		I_RU	@proj_lib.PBX_BIDI I_RU - @proj_lib.PBX_BIDI		4D3					PWM_TP	PWM_TP - @proj_lib.PBX_BIDI	2C2>	7B1<				
		I_SENSE_PWM_CONTROLL	@proj_lib.PBX_BIDI I_SENSE_PWM_CONTROLLER -		8D5					PWM_UN	PWM_UN - @proj_lib.PBX_BIDI	3B2>	5D1<				
D		ER	@proj_lib.PBX_BIDI ER - @proj_lib.PBX_BIDI		5A4				PWM_UP	PWM_UP - @proj_lib.PBX_BIDI	3B2>	5B1<					
		I_SENSE_RU	@proj_lib.PBX_BIDI I_SENSE_RU - @proj_lib.PBX_BIDI		6A4					PWM_VCC_RU	PWM_VCC_RU - @proj_lib.PBX_BIDI	5A3					
		I_SENSE_SV	@proj_lib.PBX_BIDI I_SENSE_SV - @proj_lib.PBX_BIDI		7A4					PWM_VCC_SV	PWM_VCC_SV - @proj_lib.PBX_BIDI	6A3					
		I_SENSE_TW	@proj_lib.PBX_BIDI I_SENSE_TW - @proj_lib.PBX_BIDI		4D3					PWM_VCC_TW	PWM_VCC_TW - @proj_lib.PBX_BIDI	7A3					
		I_SV	@proj_lib.PBX_BIDI I_SV - @proj_lib.PBX_BIDI		4D3					PWM_VN	PWM_VN - @proj_lib.PBX_BIDI	3B2>	6D1<				
		I_W	@proj_lib.PBX_BIDI I_W - @proj_lib.PBX_BIDI		4D3					PWM_VP	PWM_VP - @proj_lib.PBX_BIDI	3B2>	6B1<				
		NTC1	@proj_lib.PBX_BIDI NTC1 - @proj_lib.PBX_BIDI		4C5>	14B1<				PWM_WN	PWM_WN - @proj_lib.PBX_BIDI	3B2>	7D1<				
		NTC2	@proj_lib.PBX_BIDI NTC2 - @proj_lib.PBX_BIDI		4C5>	14B1<				PWM_WP	PWM_WP - @proj_lib.PBX_BIDI	3B2>	7B1<				
		NTC_DS	@proj_lib.PBX_BIDI NTC_DS - @proj_lib.PBX_BIDI		14C3					REF_2V5_RU_N	REF_2V5_RU_N - @proj_lib.PBX_BIDI	5B7					
		OCT_CONV_N	@proj_lib.PBX_BIDI OCT_CONV_N - @proj_lib.PBX_BIDI		5C4>	6C4>	7C4>	2B1<		REF_2V5_RU_P	REF_2V5_RU_P - @proj_lib.PBX_BIDI	5B6					
	OCT_INV	@proj_lib.PBX_BIDI OCT_INV - @proj_lib.PBX_BIDI		3D3>	3C2<				REF_2V5_SV_N	REF_2V5_SV_N - @proj_lib.PBX_BIDI	6B7						
Changes				WARNING				CIRCUIT DIAGRAM FOR				DWG GBA26800MX					
				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.				PBX_BIDI				OTIS ENGINEERING CENTER BERLIN, GERMANY					
				UNPUBLISHED WORK (C) OTIS ELEVATOR COMPANY ALL RIGHTS RESERVED.								DRAWN A. Tutat					
												ORIGINAL DATE					
												CHK M. Dehmlow					
												2010-04-13					
												APPD M. Dehmlow					
												SHEETS					
												AUTH CA47A-000528					
												SHEET 16					
DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING				 A United Technologies Company				CAD GENERATED CADENCE-CONCEPT									


A3		1		2		3		4		5		6		7		8	
A		RUN	RUN - @proj_lib.PBX_BIDI		4C1					TWN_E22	TWN_E22 - @proj_lib.PBX_BIDI		7D8>	4C6<			
		RUN_E21	RUN_E21 - @proj_lib.PBX_BIDI		5D8>	4C1<				TWN_E23	TWN_E23 - @proj_lib.PBX_BIDI		7D8>	4C6<			
		RUN_E22	RUN_E22 - @proj_lib.PBX_BIDI		5D8>	4C1<				TWN_G21	TWN_G21 - @proj_lib.PBX_BIDI		7D8>	4B6<			
		RUN_E23	RUN_E23 - @proj_lib.PBX_BIDI		5D8>	4C1<				TWN_G22	TWN_G22 - @proj_lib.PBX_BIDI		7D8>	4C6<			
		RUN_G21	RUN_G21 - @proj_lib.PBX_BIDI		5D8>	4B1<				TWN_G23	TWN_G23 - @proj_lib.PBX_BIDI		7D8>	4C6<			
		RUN_G22	RUN_G22 - @proj_lib.PBX_BIDI		5D8>	4C1<				TWO	TWO - @proj_lib.PBX_BIDI		4B8				
		RUN_G23	RUN_G23 - @proj_lib.PBX_BIDI		5D8>	4C1<				TWP	TWP - @proj_lib.PBX_BIDI		4A6				
		RUO	RUO - @proj_lib.PBX_BIDI		4B3					TWP_C1	TWP_C1 - @proj_lib.PBX_BIDI		4A6<	7B5<			
		RUP	RUP - @proj_lib.PBX_BIDI		4A1					TWP_E11	TWP_E11 - @proj_lib.PBX_BIDI		7B8>	4B6<			
		RUP_C1	RUP_C1 - @proj_lib.PBX_BIDI		4A1<	5B5<				TWP_E12	TWP_E12 - @proj_lib.PBX_BIDI		7C8>	4B6<			
B		RUP_E11	RUP_E11 - @proj_lib.PBX_BIDI		5B8>	4B1<				TWP_E13	TWP_E13 - @proj_lib.PBX_BIDI		7C8>	4B6<			
		RUP_E12	RUP_E12 - @proj_lib.PBX_BIDI		5C8>	4B1<				TWP_G11	TWP_G11 - @proj_lib.PBX_BIDI		7B8>	4B6<			
		RUP_E13	RUP_E13 - @proj_lib.PBX_BIDI		5C8>	4B1<				TWP_G12	TWP_G12 - @proj_lib.PBX_BIDI		7B8>	4B6<			
		RUP_G11	RUP_G11 - @proj_lib.PBX_BIDI		5B8>	4B1<				TWP_G13	TWP_G13 - @proj_lib.PBX_BIDI		7B8>	4B6<			
		RUP_G12	RUP_G12 - @proj_lib.PBX_BIDI		5B8>	4B1<				UDCL	UDCL - @proj_lib.PBX_BIDI		13C7>	3C2<			
		RUP_G13	RUP_G13 - @proj_lib.PBX_BIDI		5B8>	4B1<				UR	UR - @proj_lib.PBX_BIDI		2D7>	9A1<			
		R_MAIN	R_MAIN - @proj_lib.PBX_BIDI		2D8>	4B3<				UR_LOW_IMP	UR_LOW_IMP - @proj_lib.PBX_BIDI		9A3				
		R_RES	R_RES - @proj_lib.PBX_BIDI		2D6					US	US - @proj_lib.PBX_BIDI		2D7>	9B1<			
		SENSE_IR	SENSE_IR - @proj_lib.PBX_BIDI		4D4>	2D2<				US_LOW_IMP	US_LOW_IMP - @proj_lib.PBX_BIDI		9B3				
		SENSE_IS	SENSE_IS - @proj_lib.PBX_BIDI		4D4>	2D2<				UT	UT - @proj_lib.PBX_BIDI		2D7>	9B1<			
C		SENSE_IU	SENSE_IU - @proj_lib.PBX_BIDI		4D4>	3C2<				UT_LOW_IMP	UT_LOW_IMP - @proj_lib.PBX_BIDI		9B3				
		SENSE_IV	SENSE_IV - @proj_lib.PBX_BIDI		4D4>	3C2<				V+15V	V+15V - @proj_lib.PBX_BIDI		13B5	13C5			
		SENSE_IW	SENSE_IW - @proj_lib.PBX_BIDI		4D4>	3C2<				VCC_PWM_CONTROLLER	VCC_PWM_CONTROLLER - @proj_lib.PBX_BIDI		8C4				
		SENSE_PWM_CONTROLLER_SUPPLY	SENSE_PWM_CONTROLLER_SUPPLY - @proj_lib.PBX_BIDI		8B3					VRS_DC_N	VRS_DC_N - @proj_lib.PBX_BIDI		11B2				
		SMPS_SENSE_DRAIN	SMPS_SENSE_DRAIN - @proj_lib.PBX_BIDI		8C5					VRS_N	VRS_N - @proj_lib.PBX_BIDI		9A6>	10B1<	11C2<		
		SMPS_SENSE_GATE	SMPS_SENSE_GATE - @proj_lib.PBX_BIDI		8C5					VRS_N_RECTIFIED	VRS_N_RECTIFIED - @proj_lib.PBX_BIDI		10B3				
		SVN	SVN - @proj_lib.PBX_BIDI		4C4					VRS_OUT_DC_N	VRS_OUT_DC_N - @proj_lib.PBX_BIDI		11B6				
		SVN_E21	SVN_E21 - @proj_lib.PBX_BIDI		6D8>	4C4<				VRS_OUT_N	VRS_OUT_N - @proj_lib.PBX_BIDI		11B8>	2C2<			
		SVN_E22	SVN_E22 - @proj_lib.PBX_BIDI		6D8>	4C4<				VST_DC_N	VST_DC_N - @proj_lib.PBX_BIDI		12B2				
		SVN_E23	SVN_E23 - @proj_lib.PBX_BIDI		6D8>	4C4<				VST_N	VST_N - @proj_lib.PBX_BIDI		9B6>	12C2<			
D		SVN_G21	SVN_G21 - @proj_lib.PBX_BIDI		6D8>	4B4<				VST_OUT_DC_N	VST_OUT_DC_N - @proj_lib.PBX_BIDI		12B6				
		SVN_G22	SVN_G22 - @proj_lib.PBX_BIDI		6D8>	4C4<				VST_OUT_N	VST_OUT_N - @proj_lib.PBX_BIDI		12B8>	2C2<			
		SVN_G23	SVN_G23 - @proj_lib.PBX_BIDI		6D8>	4C4<											
		SVO	SVO - @proj_lib.PBX_BIDI		4B6												
		SVP	SVP - @proj_lib.PBX_BIDI		4A4												
		SVP_C1	SVP_C1 - @proj_lib.PBX_BIDI		4A4<	6B5<											
		SVP_E11	SVP_E11 - @proj_lib.PBX_BIDI		6B8>	4B4<											
		SVP_E12	SVP_E12 - @proj_lib.PBX_BIDI		6C8>	4B4<											
		SVP_E13	SVP_E13 - @proj_lib.PBX_BIDI		6C8>	4B4<											
		SVP_G11	SVP_G11 - @proj_lib.PBX_BIDI		6B8>	4B4<											
E		SVP_G12	SVP_G12 - @proj_lib.PBX_BIDI		6B8>	4B4<											
		SVP_G13	SVP_G13 - @proj_lib.PBX_BIDI		6B8>	4B4<											
		SW_TEMP_SENSOR	SW_TEMP_SENSOR - @proj_lib.PBX_BIDI		3B7												
		S_MAIN	S_MAIN - @proj_lib.PBX_BIDI		2D8>	4B6<											
		S_RES	S_RES - @proj_lib.PBX_BIDI		2D6												
		TEMP_IGBT	TEMP_IGBT - @proj_lib.PBX_BIDI		14C6												
		TEMP_IGBT_CONV	TEMP_IGBT_CONV - @proj_lib.PBX_BIDI		14C8>	2D2<											
		TEMP_IGBT_INV	TEMP_IGBT_INV - @proj_lib.PBX_BIDI		14C8>	3C2<											
		TEMP_UN	TEMP_UN - @proj_lib.PBX_BIDI		14D5												
		TRIGGER_555	TRIGGER_555 - @proj_lib.PBX_BIDI		10C3												
F		TWN	TWN - @proj_lib.PBX_BIDI		4C6												
		TWN_E21	TWN_E21 - @proj_lib.PBX_BIDI		7D8>	4C6<											

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				PBX_BIDI			
					OTIS ENGINEERING CENTER BERLIN, GERMANY		
						DRAWN A. Tutat	ORIGINAL DATE
						CHK M. Dehmlow	2010-04-13
APPD M. Dehmlow	SHEETS						
		AUTH CA47A-000528	SHEET 17				


DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING	<div> Otis A United Technologies Company</div>	CAD GENERATED CADENCE-CONCEPT
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A3		1		2		3		4		5		6		7		8	
A	<div>Title: Cref Part Report Design: pbx_bidi Date: Jun 7 7:16:52 2012</div> <div><div><div>+15VMP_THTpbx_bidi[2D3]</div><div>-15VMP_THTpbx_bidi[2D3]</div><div>5V_HL2MP_THTpbx_bidi[3B8]</div><div>24V_HL2MP_THTpbx_bidi[3A4]</div><div>24V_SENSEMP_THTpbx_bidi[3A3]</div><div>24V_SENSE_MP_THTpbx_bidi[3A3]</div><div>RTN</div><div>AGNDMP_THTpbx_bidi[2D1]</div><div>A_GNDMP_THTpbx_bidi[2D1]</div><div>C1C_0603pbx_bidi[3B8]</div><div>C2C_0603pbx_bidi[3C8]</div><div>C3C_1210pbx_bidi[3C8]</div><div>C4C_1210pbx_bidi[3B5]</div><div>C5C_1210pbx_bidi[3B5]</div><div>C6C_0603pbx_bidi[3B5]</div><div>C7C_1210pbx_bidi[3B5]</div><div>C8C_1210pbx_bidi[3B5]</div><div>C9C_0603pbx_bidi[3B5]</div><div>C10C_0603pbx_bidi[3C6]</div><div>C11C_1210pbx_bidi[3C5]</div><div>C12C_1210pbx_bidi[3C6]</div><div>C13C_0603pbx_bidi[3C6]</div><div>C14C_1210pbx_bidi[3D7]</div><div>C15C_0603pbx_bidi[3D6]</div><div>C16C_0805pbx_bidi[3C6]</div><div>C17C_1210pbx_bidi[2C8]</div><div>C18C_0603pbx_bidi[2C8]</div><div>C19C_0603pbx_bidi[2C8]</div><div>C20C_1210pbx_bidi[2C8]</div><div>C21CAP_THTpbx_bidi[8C2]</div><div>C22C_1210pbx_bidi[8C2]</div><div>C23C_0805pbx_bidi[2B2]</div><div>C24C_0603pbx_bidi[3D7]</div><div>C25C_0603pbx_bidi[3D5]</div><div>C26C_1210pbx_bidi[3D5]</div><div>C27C_0603pbx_bidi[3C5]</div><div>C28C_0603pbx_bidi[3D5]</div><div>C29C_1210pbx_bidi[3D5]</div><div>C30C_1210pbx_bidi[3D5]</div><div>C31C_0603pbx_bidi[5D1]</div><div>C32C_0805pbx_bidi[2B2]</div><div>C33C_0805pbx_bidi[2B2]</div><div>C34C_0603pbx_bidi[5B1]</div><div>C35C_0603pbx_bidi[5D2]</div><div>C36C_1210pbx_bidi[5D2]</div><div>C37C_0603pbx_bidi[5A3]</div><div>C38C_1210pbx_bidi[5A3]</div><div>C39C_1210pbx_bidi[5A3]</div><div>C40C_0603pbx_bidi[5A2]</div><div>C41C_0603pbx_bidi[5A2]</div></div></div> <div><div>C42C_0603pbx_bidi[5A4]</div><div>C43C_1210pbx_bidi[5A4]</div><div>C44C_1210pbx_bidi[5A4]</div><div>C45C_1210pbx_bidi[5A4]</div><div>C46C_0603pbx_bidi[5C2]</div><div>C47C_0603pbx_bidi[5A2]</div><div>C48C_0603pbx_bidi[5A1]</div><div>C49C_1210pbx_bidi[5B2]</div><div>C50C_0603pbx_bidi[5A1]</div><div>C51C_0805pbx_bidi[13C5]</div><div>C52C_0603pbx_bidi[13C4]</div><div>C53C_0603pbx_bidi[13D4]</div><div>C54C_0603pbx_bidi[5B4]</div><div>C55C_1210pbx_bidi[5C4]</div><div>C56C_1210pbx_bidi[5C4]</div><div>C57C_0603pbx_bidi[5C4]</div><div>C58C_0603pbx_bidi[5D3]</div><div>C59C_1210pbx_bidi[5D3]</div><div>C60C_0603pbx_bidi[5B4]</div><div>C61C_0805pbx_bidi[13D7]</div><div>C62C_0603pbx_bidi[5D4]</div><div>C63C_1210pbx_bidi[5D4]</div><div>C64C_1210pbx_bidi[5D4]</div><div>C65C_0603pbx_bidi[5D4]</div><div>C66C_0603pbx_bidi[5C5]</div><div>C67C_0603pbx_bidi[5D4]</div><div>C68C_0805pbx_bidi[5A6]</div><div>C69C_0805pbx_bidi[5A6]</div><div>C70C_0603pbx_bidi[14D7]</div><div>C71C_0603pbx_bidi[5D5]</div><div>C72CAP_THTpbx_bidi[5A7]</div><div>C73C_0603pbx_bidi[5A7]</div><div>C74C_1210pbx_bidi[5A6]</div><div>C75C_1210pbx_bidi[5A7]</div><div>C76C_1210pbx_bidi[5A7]</div><div>C77C_1210pbx_bidi[5A7]</div><div>C78CAP_THTpbx_bidi[5A7]</div><div>C79C_0603pbx_bidi[5A7]</div><div>C80C_1210pbx_bidi[5A6]</div><div>C81C_1210pbx_bidi[5A7]</div><div>C82C_1210pbx_bidi[5A7]</div><div>C83C_1210pbx_bidi[5A7]</div><div>C84C_0603pbx_bidi[4C1]</div><div>C85C_1210pbx_bidi[4C1]</div><div>C86C_1210pbx_bidi[4C1]</div><div>C87C_0603pbx_bidi[14B7]</div><div>C88C_0603pbx_bidi[14B7]</div><div>C89C_0603pbx_bidi[14A1]</div><div>C90C_0603pbx_bidi[14A1]</div><div>C91C_0603pbx_bidi[4D1]</div><div>C92C_1210pbx_bidi[4D1]</div><div>C93C_1210pbx_bidi[4D1]</div><div>C94C_0603pbx_bidi[14D5]</div><div>C95C_0603pbx_bidi[14B3]</div><div>C96C_THTpbx_bidi[4B1]</div></div>																
	B																
C																	
D																	

OECB_A3 REV 2004-09-06	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 GBA26800MX OTIS ENGINEERING CENTER BERLIN, GERMANY			
	DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING				 Otis A United Technologies Company				CAD GENERATED CADENCE-CONCEPT				DRAWN A. Tutat ORIGINAL DATE			
													CHK M. Dehmlow 2010-04-13			
													APPD M. Dehmlow SHEETS			
													AUTH CA47A-000528 SHEET 18			

A3		1	2	3	4	5	6	7	8		
A	C97	C_THT	pbx_bidi[4B1]		C152	C_0603	pbx_bidi[6D5]				
	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]				
B	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]				
C	C117	C_0805	pbx_bidi[12C3]		C172	C_0603	pbx_bidi[7D1]				
	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]				
D	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]				
	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]				
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 GBA26800MX OTIS ENGINEERING CENTER BERLIN, GERMANY DRAWN A. Tutat ORIGINAL DATE CHK M. Dehmlow 2010-04-13 APPD M. Dehmlow SHEETS AUTH CA47A-000528 SHEET 19	
DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING				 Otis A United Technologies Company				CAD GENERATED CADENCE-CONCEPT			

A3		1	2	3	4	5	6	7	8	
A	B	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]
		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]					


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	DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING				
		 A United Technologies Company	CAD GENERATED CADENCE-CONCEPT	DRAWN A. Tutat CHK M. Dehmlow APPD M. Dehmlow AUTH CA47A-000528	ORIGINAL DATE 2010-04-13
					SHEETS SHEET 20

A3		1	2	3	4	5	6	7	8		
A		C317	C_0805	pbx_bidi[9B3]		D45	LCDA12_SOIC	pbx_bidi[9B2	9B2]	A	
		C318	C_0805	pbx_bidi[9B3]		D46	LCDA12_SOIC	pbx_bidi[9B2	9B2]		
		C319	C_0805	pbx_bidi[9A3]		D47	LCDA12_SOIC	pbx_bidi[9B2	9B2]		
		C320	C_0805	pbx_bidi[9D3]		D48	TMMBAT42_MELF	pbx_bidi[5B4]			
		C462	C_0805	pbx_bidi[5A5]		D49	US1G_SMD	pbx_bidi[5B6]			
		C464	C_0805	pbx_bidi[8C6]		D50	US1G_SMD	pbx_bidi[5C6]			
		C468	C_0805	pbx_bidi[6A5]		D51	US1G_SMD	pbx_bidi[5C6]			
		C472	C_0805	pbx_bidi[7A5]		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]			
B		CS3	LA200P_THT	pbx_bidi[4D3]		D55	US1G_SMD	pbx_bidi[5D6]		B	
		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]			
		D4	BAT54S_SMD	pbx_bidi[3D4]		D59	US1G_SMD	pbx_bidi[6C6]			
		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]			
C		D10	RGPO2_20E_THT	pbx_bidi[5B5]		D65	US1G_SMD	pbx_bidi[7B6]		C	
		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]			
		D14	BAS19_SMD	pbx_bidi[5A6]		D69	BYG22D_SMD	pbx_bidi[8D7]			
		D15	RGPO2_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]			
D		D20	RGPO2_20E_THT	pbx_bidi[6B5]		D75	BYG22D_SMD	pbx_bidi[8B5]		D	
		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]			
		D24	BAS19_SMD	pbx_bidi[6A6]		D79	10MQ040N_SMD	pbx_bidi[5A4]			
		D25	BAT54S_SMD	pbx_bidi[10B3]		D465	10MQ040N_SMD	pbx_bidi[6A4]			
		D26	RGPO2_20E_THT	pbx_bidi[6D5]		D469	10MQ040N_SMD	pbx_bidi[7A4]			
		D27	BAT54S_SMD	pbx_bidi[10A3]		DCN_ME_1	MP_THT	pbx_bidi[13C2]			
		D28	BAV99_SMD	pbx_bidi[6A6]		DCP_ME_1	MP_THT	pbx_bidi[13B2]			
		D29	BAV99_SMD	pbx_bidi[6A7]		DC_ME	MP_THT	pbx_bidi[13B3]			
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DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING					 Otis A United Technologies Company			CAD GENERATED CADENCE-CONCEPT		DRAWN A. Tutat ORIGINAL DATE CHK M. Dehmlow 2010-04-13 APPD M. Dehmlow SHEETS AUTH CA47A-000528 SHEET 21	


A3		1	2	3	4	5	6	7	8					
A		JP4	JUMPER_0603	pbx_bidi[5C3]		Q16	MJD44H11_SMD	pbx_bidi[6D5]		A				
		JP5	JUMPER_0603	pbx_bidi[14C7]		Q17	IRFR9120_SMD	pbx_bidi[10C3]						
		JP6	JUMPER_0603	pbx_bidi[14C7]		Q18	BC847C_SMD	pbx_bidi[7B2]			B			
		JP7	JUMPER_0603	pbx_bidi[5B8]		Q19	MJD45H11_SMD	pbx_bidi[7B5]						
		JP8	JUMPER_0603	pbx_bidi[5B8]		Q20	MJD44H11_SMD	pbx_bidi[7B5]						
		JP9	JUMPER_0603	pbx_bidi[6C3]		Q21	MJD45H11_SMD	pbx_bidi[7D5]						
		JP10	JUMPER_0603	pbx_bidi[6C3]		Q22	MJD44H11_SMD	pbx_bidi[7D5]						
		JP11	JUMPER_0603	pbx_bidi[6B8]		Q23	IRFS23N15D_D2PAK	pbx_bidi[8C6]						
		JP12	JUMPER_0603	pbx_bidi[6B8]		Q24	BC817_SMD	pbx_bidi[2A8]						
		JP13	JUMPER_0603	pbx_bidi[7C3]		Q25	BC817_SMD	pbx_bidi[3A7]						
		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]						
		B		L2	L_SMD	pbx_bidi[5A2]		Q35	SEMIX453GB12E4S_THT			pbx_bidi[4B7]		B
				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_SSMD			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]						
C		NTC1	MP_THT	pbx_bidi[14B1]		R8	R_0805	pbx_bidi[2A1]		C				
		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 G-PIN	pbx_bidi[3B1]		R15	R_0805	pbx_bidi[3D7]						
		P6	CON6_WAGO733_336	pbx_bidi[3D3]		R16	R_0603	pbx_bidi[3D5]						
		PTC_ADC	MP_THT	pbx_bidi[3D6]		R17	R_0603	pbx_bidi[3D5]						
D		Q1	BC817_SMD	pbx_bidi[2C7]		R18	R_0603	pbx_bidi[3D5]		D				
		Q2	BC817_SMD	pbx_bidi[2B6]		R19	R_THT	pbx_bidi[4A8]						
		Q3	BC847C_SMD	pbx_bidi[5B2]		R20	R_0603	pbx_bidi[5D1]						
		Q4	BC817	pbx_bidi[13B4]		R21	R_0603	pbx_bidi[5D1]						
		Q5	MJD45H11_SMD	pbx_bidi[5B5]		R22	R_0603	pbx_bidi[5D1]						
		Q6	MJD44H11_SMD	pbx_bidi[5B5]		R23	R_0805	pbx_bidi[2A1]						
		Q7	MJD45H11_SMD	pbx_bidi[5D5]		R24	R_0603	pbx_bidi[2B2]						
		Q8	MJD44H11_SMD	pbx_bidi[5D5]		R25	R_0805	pbx_bidi[2A5]						
		Q9	BC817	pbx_bidi[14B4]		R26	R_0805	pbx_bidi[2B6]						
		Q10	BC817	pbx_bidi[12A4]		R27	R_0805	pbx_bidi[2B6]						
		Q11	BC847C_SMD	pbx_bidi[6B2]		R28	R_MINI-MELF	pbx_bidi[2A6]						
		Q12	BC817	pbx_bidi[11A4]		R29	R_MINI-MELF	pbx_bidi[2A6]						
		Q13	MJD45H11_SMD	pbx_bidi[6B5]		R30	R_0805	pbx_bidi[2C6]						
		Q14	MJD44H11_SMD	pbx_bidi[6B5]		R31	R_0603	pbx_bidi[2B2]						
		Q15	MJD45H11_SMD	pbx_bidi[6D5]		R32	R_0805	pbx_bidi[2A1]						
					Q33			R_0603	pbx_bidi[5B1]					


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			OTIS ENGINEERING CENTER BERLIN, GERMANY		
			DRAWN	A. Tutat	ORIGINAL DATE
			CHK	M. Dehmloew	2010-04-13
DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING			APPD	M. Dehmloew	SHEETS
			AUTH	CA47A-000528	SHEET 22


OEGB_A3
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A3		1		2		3		4		5		6		7		8			
A	R34	R_0603	pbx_bidj[5B1]												A				
	R35	R_0603	pbx_bidj[5B1]																
	R36	R_MELF	pbx_bidj[5A4]																
	R37	R_0603	pbx_bidj[5C1]																
	R38	R_0603	pbx_bidj[5C1]																
	R39	R_0603	pbx_bidj[5C1]																
	R40	R_0805	pbx_bidj[5A2]																
	R41	R_0805	pbx_bidj[5A2]																
	R42	R_THT	pbx_bidj[13B2]																
	R43	R_THT	pbx_bidj[13B2]																
B	R44	R_THT	pbx_bidj[13B2]												B				
	R45	R_0805	pbx_bidj[13C5]																
	R46	R_0805	pbx_bidj[13D5]																
	R47	R_0805	pbx_bidj[13C3]																
	R48	R_0805	pbx_bidj[13C5]																
	R49	R_0805	pbx_bidj[13C3]																
	R50	R_THT	pbx_bidj[13C2]																
	R51	R_0603	pbx_bidj[5C2]																
	R52	R_0805	pbx_bidj[5B2]																
	R53	R_THT	pbx_bidj[13C2]																
C	R54	R_THT	pbx_bidj[13C2]												C				
	R55	R_0805	pbx_bidj[5A5]																
	R56	R_MELF	pbx_bidj[5C4]																
	R57	R_MINI-MELF	pbx_bidj[5A5]																
	R58	R_MINI-MELF	pbx_bidj[5A5]																
	R59	R_MINI-MELF	pbx_bidj[13C7]																
	R60	R_MINI-MELF	pbx_bidj[13B5]																
	R61	R_MINI-MELF	pbx_bidj[13C4]																
	R62	R_MINI-MELF	pbx_bidj[5B5]																
	R63	R_MELF	pbx_bidj[5B5]																
D	R64	R_MELF	pbx_bidj[5B5]												D				
	R65	R_MELF	pbx_bidj[5B5]																
	R66	R_MELF	pbx_bidj[5B5]																
	R67	R_MELF	pbx_bidj[5B5]																
	R68	R_MELF	pbx_bidj[5D4]																
	R69	R_0603	pbx_bidj[5B4]																
	R70	R_MELF	pbx_bidj[5B5]																
	R71	R_MINI-MELF	pbx_bidj[5D5]																
	R72	R_MINI-MELF	pbx_bidj[5A6]																
	R73	R_MINI-MELF	pbx_bidj[5A6]																
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 GBA26800MX OTIS ENGINEERING CENTER BERLIN, GERMANY	
DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING				 Otis A United Technologies Company												CAD GENERATED CADENCE-CONCEPT		DRAWN A. Tutat ORIGINAL DATE 2010-04-13 SHEETS AUTH CA47A-000528 SHEET 23	

A3		1	2	3	4	5	6	7	8	
A	R144	R_0603	pbx_bidi[7D1]		R199	R_THT	pbx_bidi[9D4]		A	
	R145	R_0603	pbx_bidi[7D1]		R200	R_THT	pbx_bidi[9D4]			
	R146	R_0603	pbx_bidi[7D1]		R201	R_THT	pbx_bidi[9D3]			
	R147	R_0603	pbx_bidi[7B1]		R202	R_THT	pbx_bidi[9D5]			
	R148	R_0603	pbx_bidi[7B1]		R203	R_THT	pbx_bidi[9D4]			
	R149	R_0603	pbx_bidi[7B1]		R204	R_THT	pbx_bidi[9D4]			
	R150	R_MELF	pbx_bidi[7A4]		R205	R_0603	pbx_bidi[3D6]			
	R151	R_0603	pbx_bidi[7C1]		R206	R_0805	pbx_bidi[3D7]			
	R152	R_0603	pbx_bidi[7C1]		R207	R_0805	pbx_bidi[3D7]			
	R153	R_0603	pbx_bidi[7C1]		R208	R_0603	pbx_bidi[3D7]			
R154	R_MINI-MELF	pbx_bidi[10C4]		R209	R_0603	pbx_bidi[3C5]		B		
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]		C		
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]				
R170	R_0603	pbx_bidi[7B4]		R225	R_0805	pbx_bidi[13C7]				
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]		D		
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]		D		
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]				
R189	R_0805	pbx_bidi[2A7]		R244	R_0805	pbx_bidi[13C5]				
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]				
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DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING				 Otis A United Technologies Company			CAD GENERATED CADENCE-CONCEPT		DRAWN A. Tutat ORIGINAL DATE CHK M. Dehmlow 2010-04-13 APPD M. Dehmlow SHEETS AUTH CA47A-000528 SHEET 24	

A3		1	2	3	4	5	6	7	8		
A	R254	R_MELF	pbx_bidi[5B6]		R309	R_MINI-MELF	pbx_bidi[12A4]				
	R255	R_MELF	pbx_bidi[5C6]		R310	R_0805	pbx_bidi[12C3]				
	R256	R_MELF	pbx_bidi[5C6]		R311	R_0805	pbx_bidi[12C2]				
	R257	R_MINI-MELF	pbx_bidi[5D4]		R312	R_0805	pbx_bidi[12B3]				
	R258	R_0805	pbx_bidi[5D4]		R313	R_0805	pbx_bidi[12B4]				
	R259	R_0603	pbx_bidi[5D6]		R314	R_0805	pbx_bidi[12B5]				
	R260	R_MELF	pbx_bidi[5D6]		R315	R_0805	pbx_bidi[12B5]				
	R261	R_MELF	pbx_bidi[5D6]		R316	R_0805	pbx_bidi[12C5]				
	R262	R_MELF	pbx_bidi[5D6]		R317	R_0805	pbx_bidi[12C6]				
	R263	R_0603	pbx_bidi[5D7]		R318	R_0805	pbx_bidi[6A2]				
B	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]				
C	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]				
D	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]				
								D			
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]					
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DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING				 Otis A United Technologies Company				CAD GENERATED CADENCE-CONCEPT			

A3		1		2		3		4		5		6		7		8	
A	B	R364	R_0603	pbx_bidi[6D6]	R419	R_0805	pbx_bidi[8C8]	A									
		R365	R_MELF	pbx_bidi[6D6]	R420	R_0805	pbx_bidi[8D7]										
		R366	R_MELF	pbx_bidi[6D6]	R421	R_MELF	pbx_bidi[7D6]										
		R367	R_MELF	pbx_bidi[6D6]	R422	R_MELF	pbx_bidi[7D6]										
		R368	R_0603	pbx_bidi[6D7]	R423	R_0805	pbx_bidi[8D8]										
		R369	R_0603	pbx_bidi[6D7]	R424	R_0805	pbx_bidi[8C8]										
		R370	R_MINI-MELF	pbx_bidi[10B2]	R425	R_0805	pbx_bidi[8C7]										
		R371	R_0805	pbx_bidi[10B2]	R426	R_MELF	pbx_bidi[7D6]										
		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]										
	C	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]										
B	D	R388	R_0805	pbx_bidi[6B7]	R443	R_0805	pbx_bidi[7B7]	B									
		R389	R_0805	pbx_bidi[6B7]	R444	R_0805	pbx_bidi[7B7]										
		R390	R_0805	pbx_bidi[6B6]	R445	R_0805	pbx_bidi[7B6]										
		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]										
	C	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]	R460	R_MINI-MELF	pbx_bidi[5A5]										
		R406	R_0805	pbx_bidi[7B4]	R461	R_MINI-MELF	pbx_bidi[5A5]										
		R407	R_0603	pbx_bidi[7B6]	R463	R_MINI-MELF	pbx_bidi[8C6]										
		R408	R_0603	pbx_bidi[7B7]	R466	R_MINI-MELF	pbx_bidi[6A5]										
		R409	R_0603	pbx_bidi[7B7]	R467	R_MINI-MELF	pbx_bidi[6A5]										
		R410	R_MINI-MELF	pbx_bidi[8C3]	R470	R_MINI-MELF	pbx_bidi[7A5]										
		R411	R_MINI-MELF	pbx_bidi[8D3]	R471	R_MINI-MELF	pbx_bidi[7A5]										
D	R412	R_MELF	pbx_bidi[7B6]	REF_S	MP_THT	pbx_bidi[14D3]	C										
	R413	R_MELF	pbx_bidi[7C6]	REL1	RELAY_RT_FINDER_1M	pbx_bidi[2D7]											
	R414	R_MELF	pbx_bidi[7C6]	REL2	RELAY_RT_FINDER_1M	pbx_bidi[2C7]											
	R415	R_MINI-MELF	pbx_bidi[7D4]	S+15V	MP_THT	pbx_bidi[8B8]											
	R416	R_0805	pbx_bidi[7D4]	S-15V	MP_THT	pbx_bidi[8B8]											
	R417	R_0603	pbx_bidi[7D6]	SGND	MP_THT	pbx_bidi[8B8]											
	R418	R_0805	pbx_bidi[8D8]	S_GND	MP_THT	pbx_bidi[8B8]											
	C	D							D								
A																	

A3		1	2		3		4		5		6		7		8													
A	B	TEMP_IGBT	MP_THT	pbx_bidi[14C6]					U46	PS2561L_SOIC	pbx_bidi[8C6]																	
		TEMP_UN	MP_THT	pbx_bidi[14D5]					U47	TL431A_SOIC	pbx_bidi[8D8]																	
		TR1	5033001300	pbx_bidi[5A5]					U48	UC3845B_SOIC	pbx_bidi[8C4]																	
		TR2	5033001300_SMD	pbx_bidi[6A5]					U49	TL431A_SOIC	pbx_bidi[7B6]																	
		TR3	5033001300	pbx_bidi[7A5]					U50	PS2561L_SOIC	pbx_bidi[7A6]																	
		TR4	SL02060312	pbx_bidi[8B6]					U51	PS2561L_SOIC	pbx_bidi[7A8]																	
		U1	LM3103_TSSOP	pbx_bidi[3B7]					U52	TL431A_SOIC	pbx_bidi[7B7]																	
		U2	ADUM1251_SOIC	pbx_bidi[3C8]					U53	PS2561L_SOIC	pbx_bidi[2A6]																	
		U3	AD7417_TSSOP	pbx_bidi[3D8]					U54	24C64_SOIC	pbx_bidi[3A7]																	
		U4	LMC7101_SMD	pbx_bidi[3D6]					U55	TL084B_SOIC	pbx_bidi[9C3]	9B3	9B3	9A3]														
		U5	REF02_SOIC	pbx_bidi[3C5]					U56	74HC14_SOIC	pbx_bidi[3D2]	3D2	3A4	3D2	3A4	3A4]												
		U6	74HC14_SOIC	pbx_bidi[2B2]	2B5	2B3	2B2	2A2	2A3]	U57	555_CMOS	pbx_bidi[9D3]																
		U7	74HC14_SOIC	pbx_bidi[2D4]	2D4	2D1	2C4	2D4	2D4]	UDCL	MP_THT	pbx_bidi[13C7]																
		U8	24C64_SOIC	pbx_bidi[2C7]						VCC	MP_THT	pbx_bidi[2B1]																
		U9	UC3845B_SOIC	pbx_bidi[5A3]						VRS	MP_THT	pbx_bidi[11B6]																
		U10	HCPL316J_SOIC	pbx_bidi[5B3]						VRS_N	MP_THT	pbx_bidi[11B7]																
		U11	74HC14_SOIC	pbx_bidi[5B2]	5D2	5C2	5B2	5D2	5B2]	VRS_NP	MP_THT	pbx_bidi[9A6]																
		U12	TL084B_SOIC	pbx_bidi[13C7]	13C7	13B7	13C6]			VST	MP_THT	pbx_bidi[12B6]																
		U13	TL084B_SOIC	pbx_bidi[13B4]	13C3	13D3	13B3]			VST_N	MP_THT	pbx_bidi[12B7]																
		C	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[14D5]	14D3	14B7	14C6]			Z3	SMBJ60CA_SMD	pbx_bidi[5A6]																	
U18	TL084B_SOIC		pbx_bidi[14C3]	14B3	14C1	14C2]			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[12C3]	12A3]					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[6C2]	6B2	6B2	6B2	6D2	6D2]	Z16	BZX84C3V9_SMD	pbx_bidi[7A6]																	
U29	TL084B_SOIC		pbx_bidi[11B7]	11B6]					Z17	BZX84C3V9_SMD	pbx_bidi[7A7]																	
U29	TL084B_SOIC		pbx_bidi[12B7]	12B6]					Z18	SMBJ36CA_SMD	pbx_bidi[8A1]																	
D	U30		REF02_SOIC	pbx_bidi[11D2]						Z19	SMBJ36CA_SMD	pbx_bidi[8C1]																
	U31	TL084B_SOIC	pbx_bidi[9A5]						Z20	SM6T33CA_SMD	pbx_bidi[5A5]																	
	U31	TL084B_SOIC	pbx_bidi[11A3]	11C3	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[10A4]	10B2	10D4	10D2]			Z24	BZV55B18_SMD	pbx_bidi[5B6]																	
	U35	LM339A_SOIC	pbx_bidi[10B7]	10C2	10C2	10B8]			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	7D2	7C2	7B2]	Z34	BZV55B18_SMD	pbx_bidi[5D7]																	
	U45	HCPL316J_SOIC	pbx_bidi[7D3]						Z35	BZV55B18_SMD	pbx_bidi[5D7]																	
	Changes								WARNING								CIRCUIT DIAGRAM FOR				DWG GBA26800MX							
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								 Otis A United Technologies Company																CHK M. Dehmlow 2010-04-13				
DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING																								APPD M. Dehmlow SHEETS				
																								AUTH CA47A-000528 SHEET 27				

A3		1	2	3	4	5	6	7	8	
A	Z36	BZV55B18_SMD	pbx_bidi[5D6]							A
	Z37	SM6T33CA_SMD	pbx_bidi[6A5]							
	Z38	BZV55B9V1_SMD	pbx_bidi[6B4]							
	Z39	BZV55B18_SMD	pbx_bidi[6B4]							
	Z40	BZV55B18_SMD	pbx_bidi[6B7]							
	Z41	BZV55B18_SMD	pbx_bidi[6B6]							
	Z42	BZV55B18_SMD	pbx_bidi[6B6]							
	Z43	BZV55B18_SMD	pbx_bidi[6B8]							
	Z44	BZV55B18_SMD	pbx_bidi[6B8]							
	Z45	BZV55B18_SMD	pbx_bidi[6B7]							
B	Z46	BZV55B9V1_SMD	pbx_bidi[6D4]							B
	Z47	BZV55B18_SMD	pbx_bidi[6D4]							
	Z48	BZV55B18_SMD	pbx_bidi[6D6]							
	Z49	BZV55B18_SMD	pbx_bidi[6D8]							
	Z50	BZV55B18_SMD	pbx_bidi[6D8]							
	Z51	BZV55B18_SMD	pbx_bidi[6D7]							
	Z52	BZV55B18_SMD	pbx_bidi[6D7]							
	Z53	BZV55B18_SMD	pbx_bidi[6D6]							
	Z54	SM6T33CA_SMD	pbx_bidi[7A5]							
	Z55	BZV55B9V1_SMD	pbx_bidi[7B4]							
C	Z56	BZV55B18_SMD	pbx_bidi[7B4]							C
	Z57	BZV55B18_SMD	pbx_bidi[7B7]							
	Z58	BZV55B18_SMD	pbx_bidi[7B6]							
	Z59	BZV55B18_SMD	pbx_bidi[7B6]							
	Z60	BZV55B18_SMD	pbx_bidi[7B8]							
	Z61	BZV55B18_SMD	pbx_bidi[7B8]							
	Z62	BZV55B18_SMD	pbx_bidi[7B7]							
	Z63	BZV55B9V1_SMD	pbx_bidi[7D4]							
	Z64	BZV55B18_SMD	pbx_bidi[7D4]							
	Z65	BZV55B18_SMD	pbx_bidi[7D6]							
D	Z66	BZV55B18_SMD	pbx_bidi[7D8]							D
	Z67	BZV55B18_SMD	pbx_bidi[7D8]							
	Z68	BZV55B18_SMD	pbx_bidi[7D7]							
	Z69	BZV55B18_SMD	pbx_bidi[7D7]							
	Z70	SMBJ30CA	pbx_bidi[8B6]							
	Z71	BZV55B18_SMD	pbx_bidi[7D6]							
	Z72	SMBJ90CA_SMD	pbx_bidi[8B7]							
	Z73	BZG05C4V7_SMD	pbx_bidi[8B5]							
	Z74	BZV55C3V3_SMD	pbx_bidi[8D5]							
	Z75	SMBJ90CA_SMD	pbx_bidi[8B7]							
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 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</div> <div>ALL RIGHTS RESERVED.</div> <div> Otis A United Technologies Company</div>				CIRCUIT DIAGRAM FOR PBX_BIDI		DWG GBA26800MX OTIS ENGINEERING CENTER BERLIN, GERMANY	
DRAWN A. Tutat ORIGINAL DATE 2010-04-13										
DEVICE TYPE FOR DESIGN REFERENCE ONLY; REFER TO BOM FOR MANUFACTURING							CAD GENERATED CADENCE-CONCEPT		APPD M. Dehmlow SHEETS	
AUTH CA47A-000528 SHEET 28										

OECB_A3
REV 2004-09-06

PCB LAYOUT

PBX_BIDI

CADENCE ALLEGRO
CAD GENERATED

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ALL DIMENSIONS METRIC

CHANGES

Redesigne	CN376610	I.Atalmis	2013-01-18
DC-LINK-LED CIRCUIT NOT ASSEMBLED	CN570338	I.Atalmis	2014-07-14

SMD-Lageplan

Part-No. GBA26800MX1

Scale 1:1

DWG GBA26800MX

OTIS ENGINEERING CENTER
BERLIN, GERMANY

DRAWN	S. KOEPPEN	ORIGINAL DATE
CHK	A. TUTAT	2010-04-13
APPD	M. DEHMLow	SHEETS
AUTH	CA47A-000528	SHEET 30

D

C

B

A

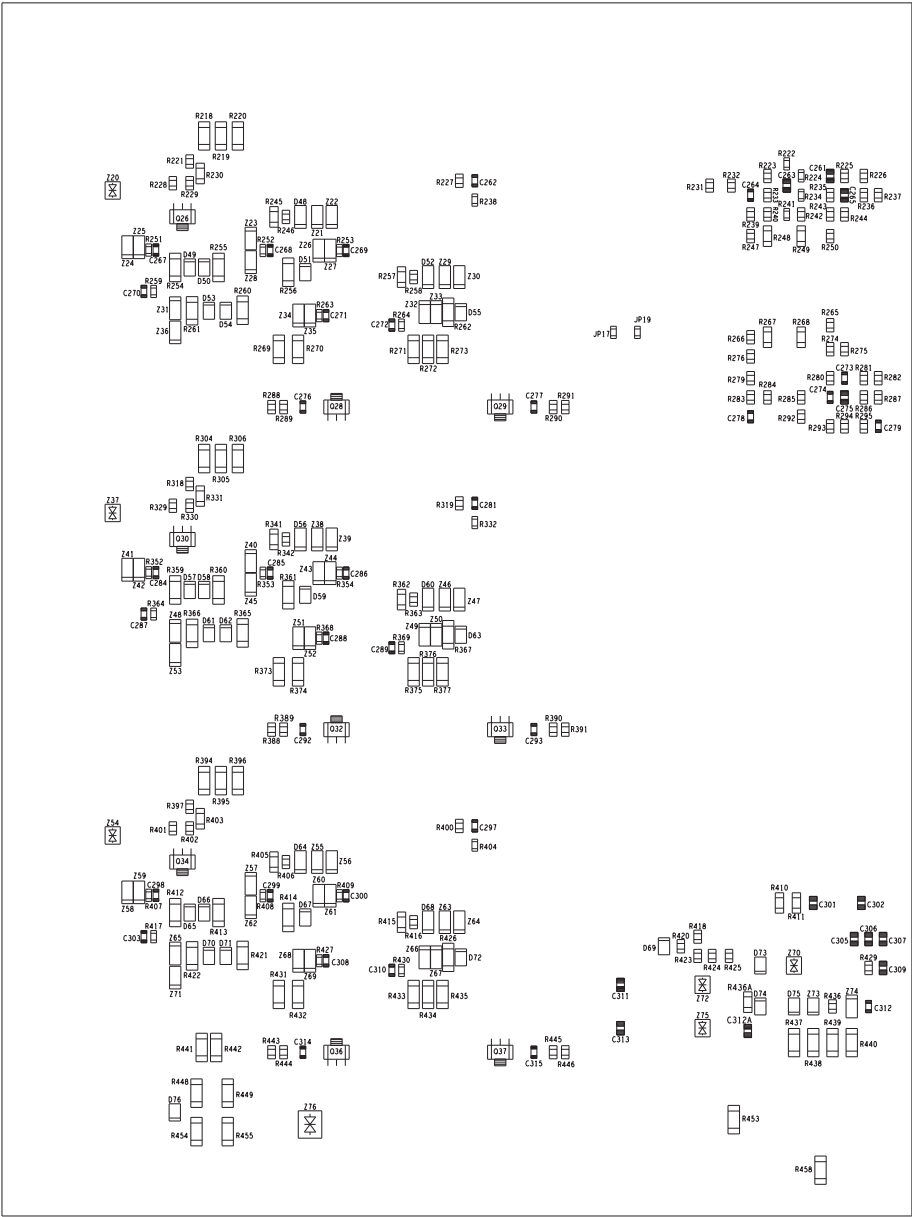
D

C

B

A

BOTTOM VIEW
Sicht auf
Loetseite



ALL DIMENSIONS METRIC

CHANGES			
Redesigne	CN376610	I.Atlamis	2013-01-18
DC-LINK-LED CIRCUIT NOT ASSEMBLED	CN570338	I.Atlamis	2014-07-14

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PCB LAYOUT

PBX_BIDI

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CAD GENERATED

SMD-Lageplan	
Part-No. Teil-Nr.	GBA26800MX3
Scale Massstab	1 : 1
DWG GBA26800MX	
OTIS ENGINEERING CENTER BERLIN, GERMANY	
DRAWN S. KOEPPEN	ORIGINAL DATE
CHK A. TUTAT	2010-04-13
APPD M. DEHMLOW	SHEETS
AUTH CA47A-000528	SHEET 34

