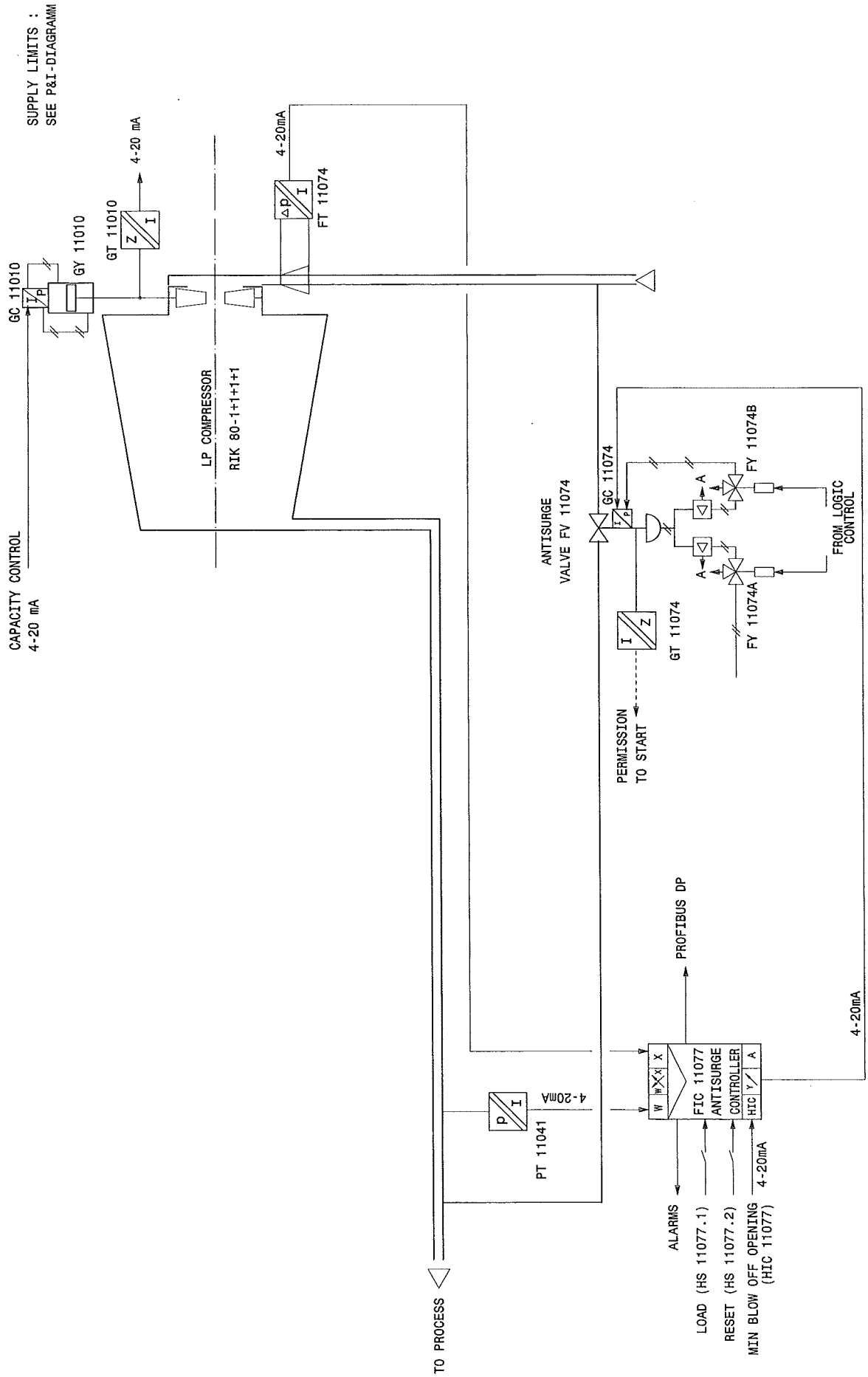


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ANTISURGE CONTROL		CONTROL SYSTEM PRINCIPLE DIAGRAM			MAN TURBO		4-837 017 468		SHT 05 OF: SEE SHEET 1	KOSAIR 2004	
ANTISURGE CONTROL		CONTROL SYSTEM PRINCIPLE DIAGRAM			MAN TURBO		4-837 017 468		SHT 05 OF: SEE SHEET 1	KOSAIR 2004	

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FIC 11077

PROTRONIC 550

POWER SUPPLY INPUT/OUTPUT BASE UNIT

L	N	PE
230VAC	0V	GND

1	2	3
+21VDC	+24V ext	BI001

4
BI002

5
BI003

6
BI004

7
0V

8	9	10	11	12
AI01 RTD	AI01 RTD	+AI01	-AI01	0V

13	14
+AI02	-AI02

15	16
+A001	-A001

+24 VDC

0 VDC

24 VDC

POWER SUPPLY

230 VAC

POWER SUPPLY

68.1

70.1

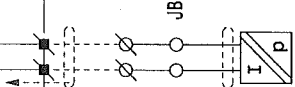
66.2

70.2

4-20mA

PANEL

FIELD / CUSTOMER CONTROL



6C 11074
E/P-CONVERTER
BLOW-OFF VALVE

HS 11077.2

CONTACT
CLOSED FOR RESET
SHIFTED RESPONSE LINE

HS 11077.1

OPEN FOR UNLOAD
CLOSED FOR LOAD

ANTISURGE
CONTROL

WIRING
BASIC UNIT

Date 10.05.2005
Name H. RINDLISB.
Cont. G. CUEVAT



4-837 017 468

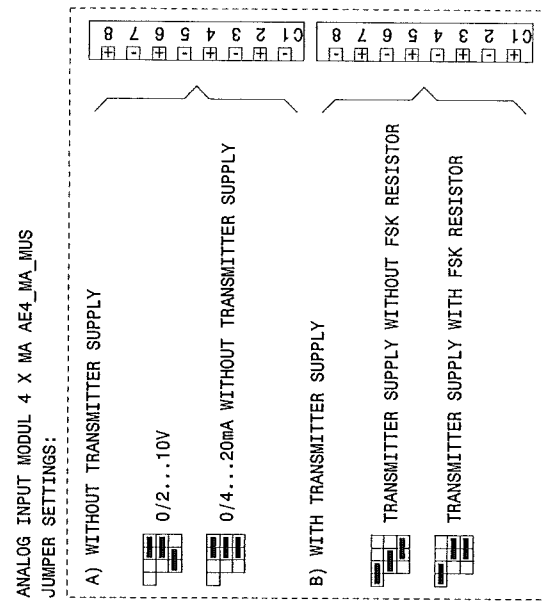
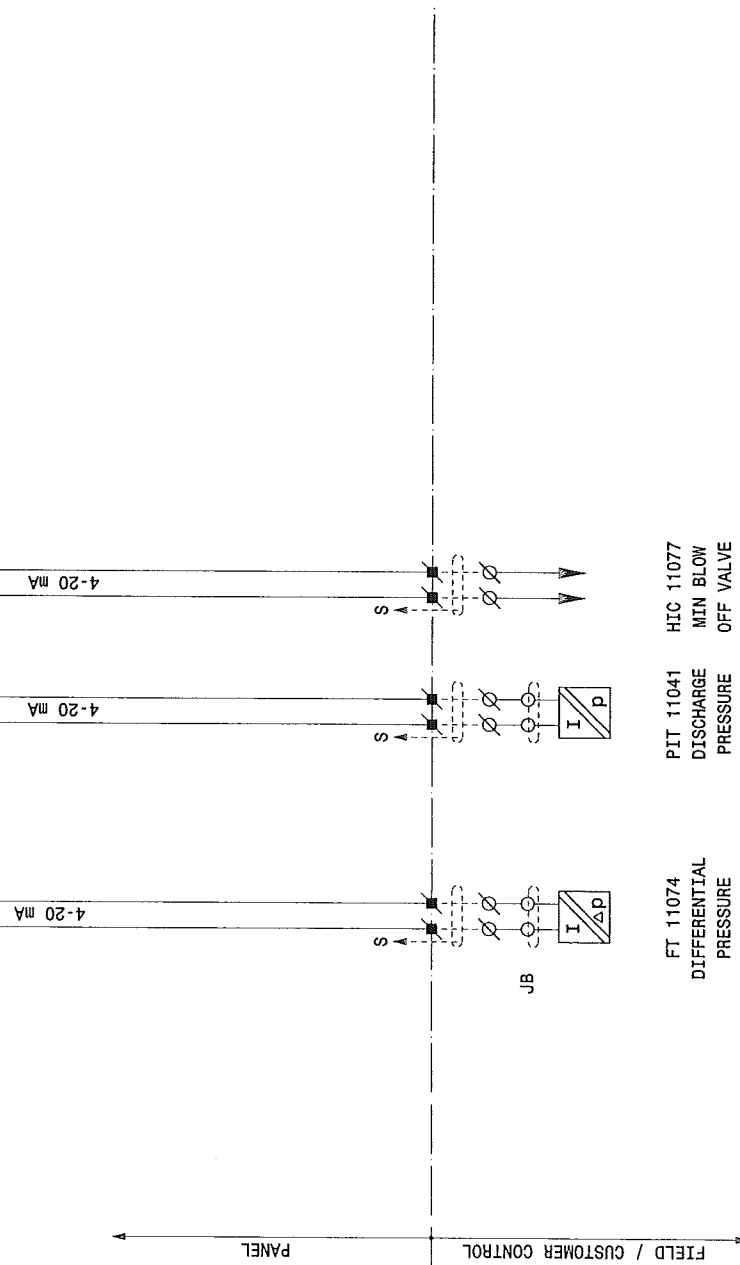
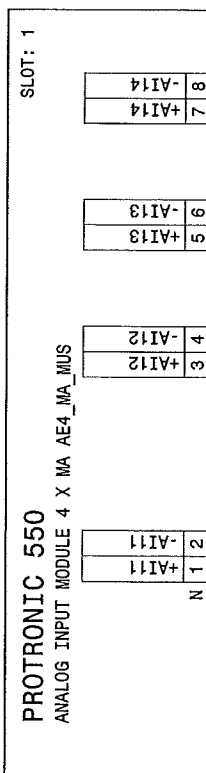
SHT 06
OF: SEE
SHEET 1

KOSATR 2004

R:\...\7100175

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FIG 11077



0

1

2

3

4

5

6

7

8

9

ANTISURGE
CONTROL

WIRING
ANALOG MODULES

Date 10.05.2005
Name H. RINDLISB.
Cont. G. CUENAT

4-837 017 468

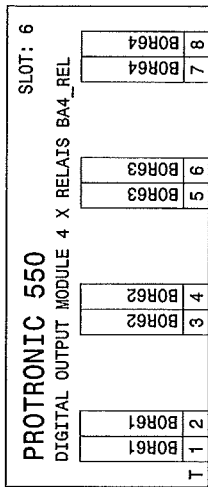
SHT 07
OF: SEE
SHEET 1

KOSAIR 2004

R:\...\7100175

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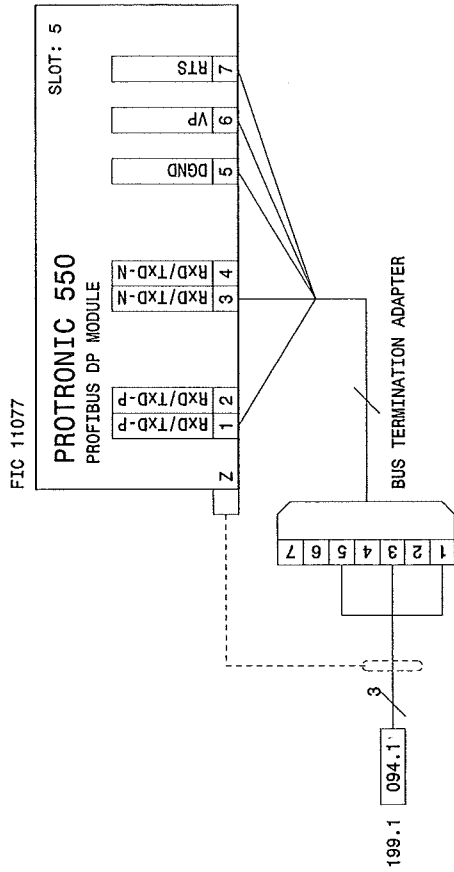
FIG 11077



YL 11077.2 YL 11077.3 YL 11077.1

ALARM	ALARM	ALARM
I/O	FAILURE	ALARM
FAILURE	(DCS)	CONTROLLER RESPONSE LINE
(DCS)	SHIFTED	
	(DCS)	

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ANTISURGE
CONTROL

WIRING
INTERFACE MODULES

Date	10.05.2005
Name	H. RINDLISB.
Cont.	G. CUENAT



4-837 017 468

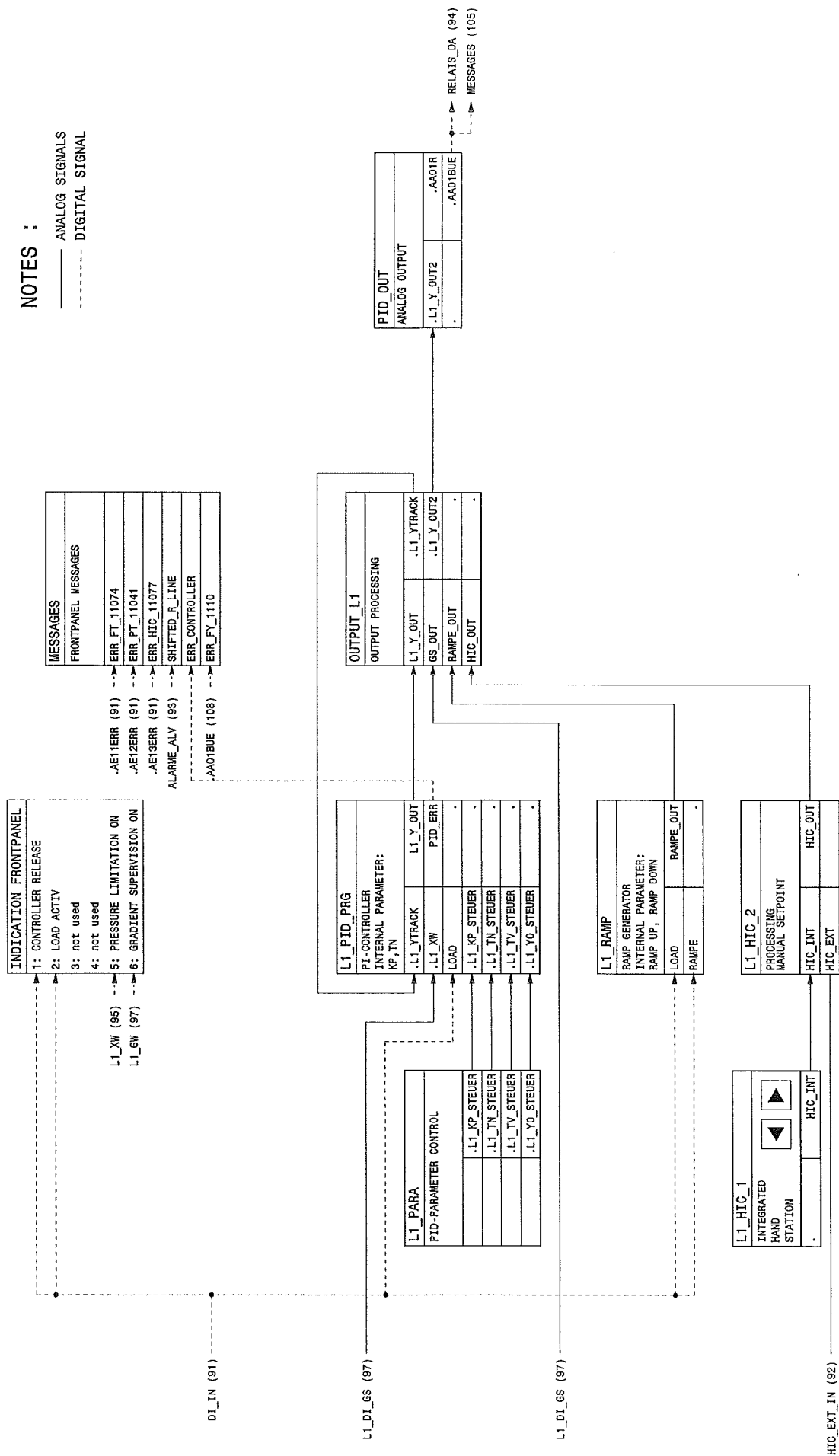
SHT 09
OF: SEE
SHEET 1

KOSAIR 2004

NOTES :
 _____ ANALOG SIGNALS
 ----- DIGITAL SIGNALS



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R:\...\7100175

ANTISURGE CONTROL

WIRING INTERFACE MODULES

Date 10.05.2005
Name H. RINDLISB.
Cont. G. CUENAT

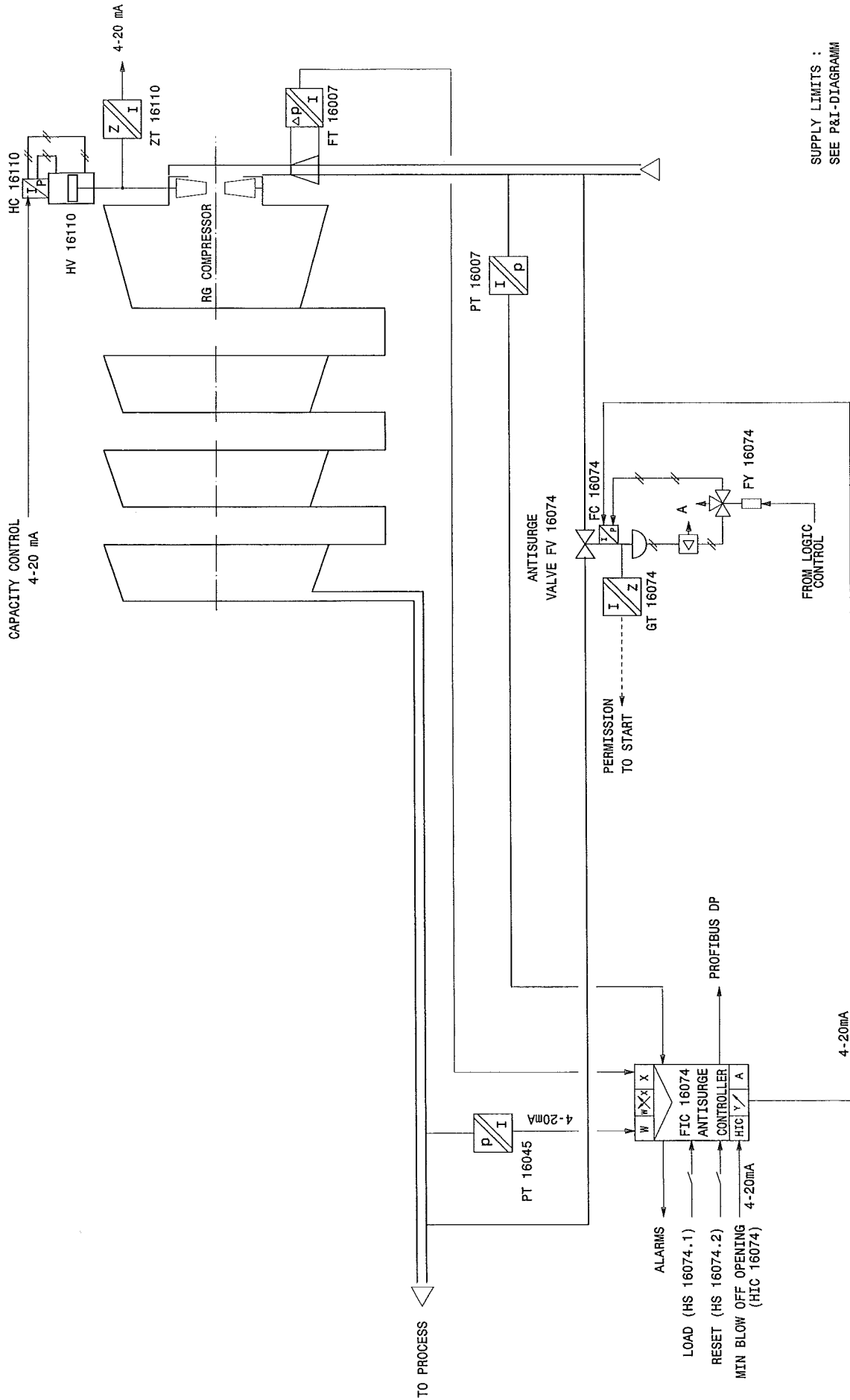


4-837 017 468

SHT 11
OF: SEE
SHEET 1

KOSAIR 2004

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ANTISURGE
CONTROL

CONTROL SYSTEM
PRINCIPLE DIAGRAM

Date 10.05.2005
Name H. RINDLISB.
Cont. G. CUENAT



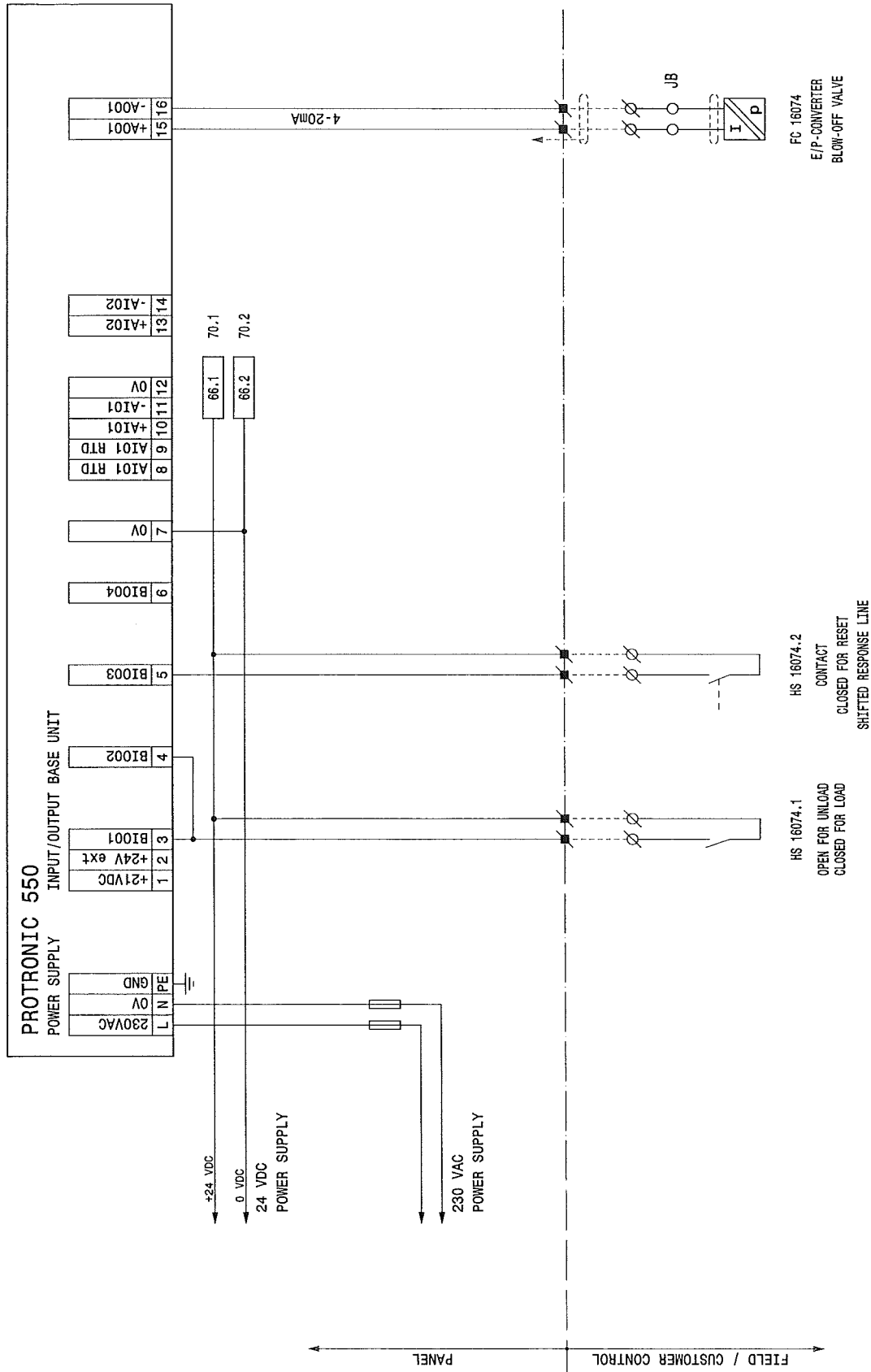
4-837 017 468

SHT 15
OF : SEE
SHEET 1

KOSB00ST 2004

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FIC 16074



ANTISURGE
CONTROL

WIRING
BASIC UNIT

Date 10.05.2005
Name H. RINDLISB.
Cont. G. CUENAT



4-837 017 468

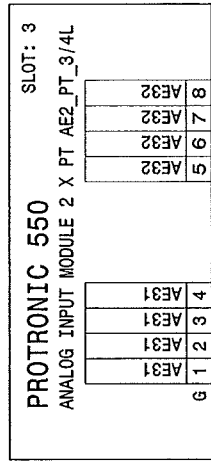
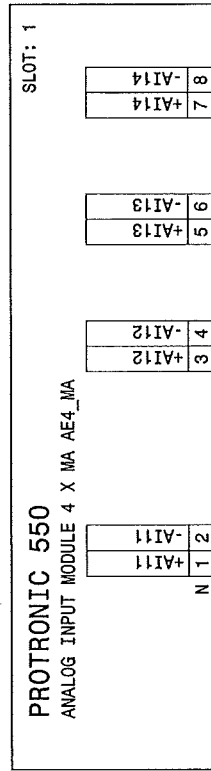
SHT 16
OF: SEE
SHEET 1

KOSB00ST 2004

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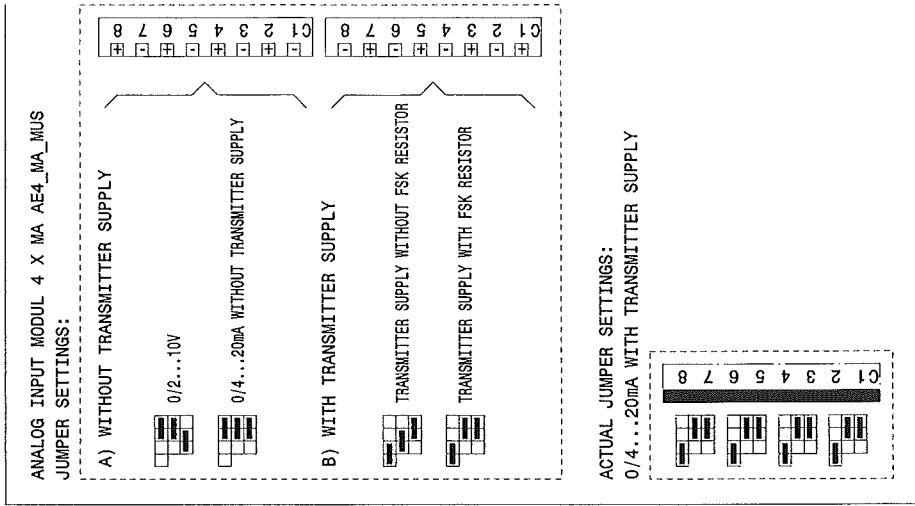
FIC 16074

FIC 16074



PANEL

FIELD / CUSTOMER CONTROL



FT 16007
DIFFERENTIAL
PRESSURE

PT 16045
DISCHARGE
PRESSURE

HIC 16074
MIN BLOW
OFF VALVE
OPENING
(DCS)

PT 16007
SUCTION
PRESSURE

TE 16007
SUCTION
TEMPERATURE

TE 16045
DISCHARGE
TEMPERATURE

ANTISURGE
CONTROL

WIRING
ANALOG MODULES

Date 10.05.2005
Name H. RINDLISB.
Cont. G. CUENAT



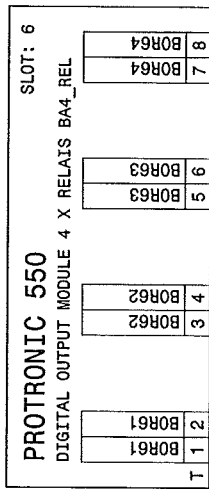
4-837 017 468

SHT 17
OF: SEE
SHEET 1

KOSBOOST 2004

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FIG 16074



PANEL

FIELD / CUSTOMER CONTROL

YL 16074.2 YL 16074.3 YL 16074.1

ALARM	ALARM	ALARM
I/O	CONTROLLER RESPONSE LINE	
FAILURE	FAILURE	SHIFTED
(DCS)	(DCS)	(DCS)

0 1 2 3 4 5 6 7 8 9

ANTISURGE
CONTROL

WIRING
DIGITAL MODULES

Date	10.05.2005
Name	H. RINDLISB.
Cont.	G. CUENAT



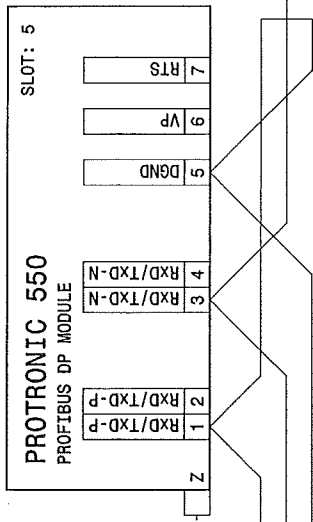
4-837 017 468

SHT 18
OF: SEE
SHEET 1

KOSB00ST 2004

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FIC 16074



3

199.1 094.1

PANEL

FIELD / CUSTOMER CONTROL

PROFIBUS SIGNALS
TO CUSTOMER CONTROL

0 1 2 3 4 5 6 7 8 9

ANTISURGE
CONTROL

WIRING
INTERFACE MODULES

Date: 10.05.2005
Name: H. RINDLSP.
Cont.: G. CUENAT

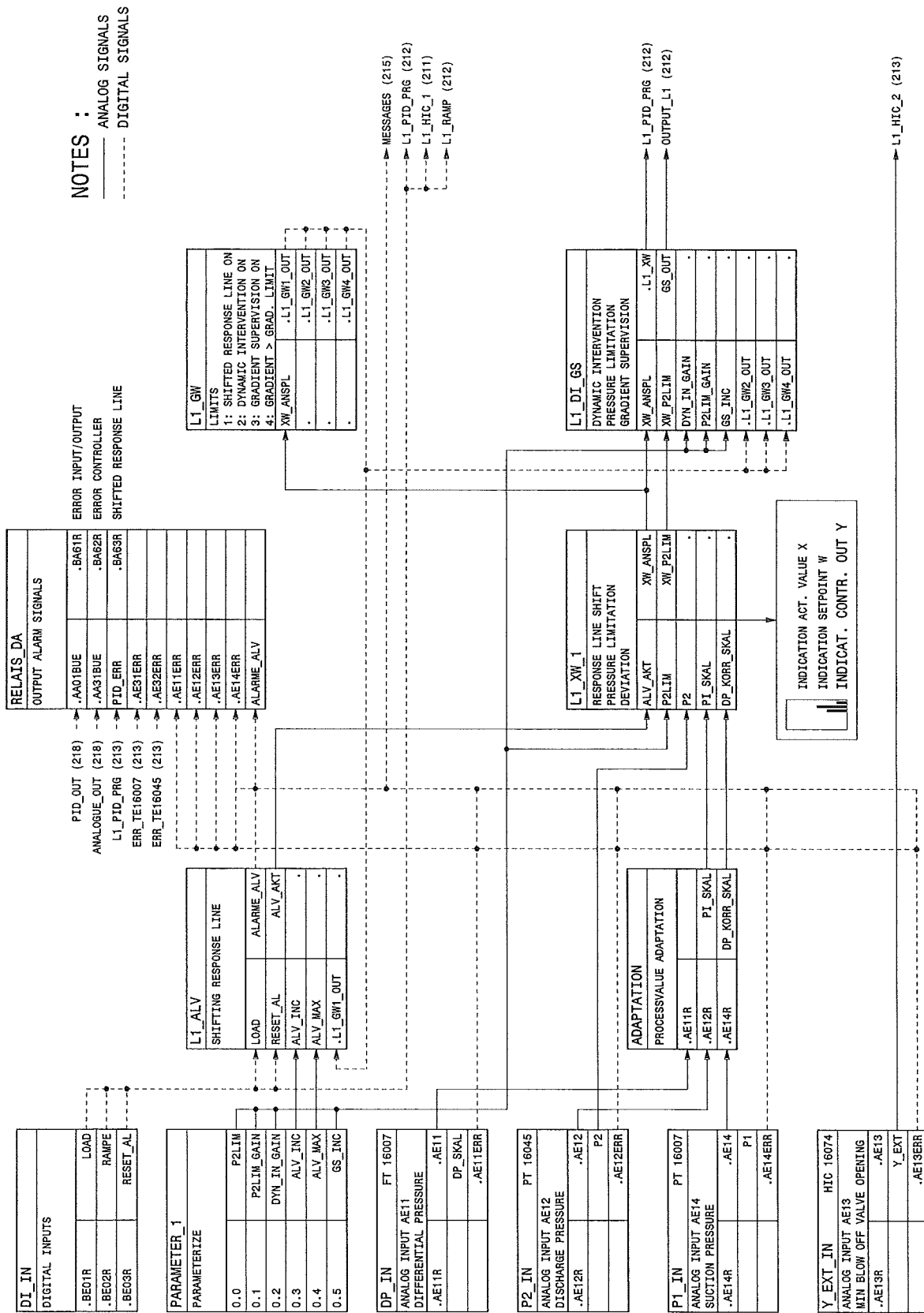


4-837 017 468

SHT 19
OF: SEE
SHEET 1

KOSB00ST 2004

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R:\...\7100175

ANTISURGE
CONTROL

LOGIC BLOCK
DIAGRAM

Date 10.05.2005
Name H. RINDLISB.
Cont. G. CUENAT



4-837 017 468

SHT 20
OF: SEE
SHEET 1

KOSBOOST 2004

ANTI
CONT