

COMPUTER CONTROL SYSTEM FOR SULPHUREX PLANT

90.CAB.1

(DESMET BALLESTRA'S SUPPLY)

INDEX - WIRING DIAGRAMS

TERMINAL STRIPS

	The master version of this document is stored as a digital file in a database. Approval process is digitally managed and no signature is visible on the document. L'originale del presente documento risiede in un database digitale. Il processo di approvazione è gestito via software e le firme non sono visibili sul documento.						
Drawing supplier 08039ED01	Rev. 2						
Drawing 1E35-85-001	Sheets 1 of 66	2	ISSUE AFTER TEST	LOGOFIVE	31.03.2010		
Plant SULPHUREX		1	ISSUE FOR CONSTRUCTION	LOGOFIVE	12.01.2010		
		0	ISSUE FOR APPROVAL	LOGOFIVE	22.12.2009		
	Rev.		Issue description	Author	Date		

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067	PART LIST	x				

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 desmet ballestra	08039ED01	Rev. 2	Plant SULPHUREX				
				2	ISSUE AFTER TEST	LOGOFIVE	31.03.2010
Drawing 1E35-85-001	Sheet 2	Drawing's title INDEX		1	ISSUE FOR CONSTRUCTION	LOGOFIVE	12.01.2010
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			Revision	Issue description		Author	Date

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2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE: 1E3585001-003

SULPHUREX PLANT



SPARE SHEET

drawing's title:

Doc. 08039ED01

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Job: 1E35 dwg. 1E35.85.001

sheet 3
4 n.sh

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2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE: 1E3585001-004

SULPHUREX PLANT



SPARE SHEET

drawing's title:

Doc. 08039ED01

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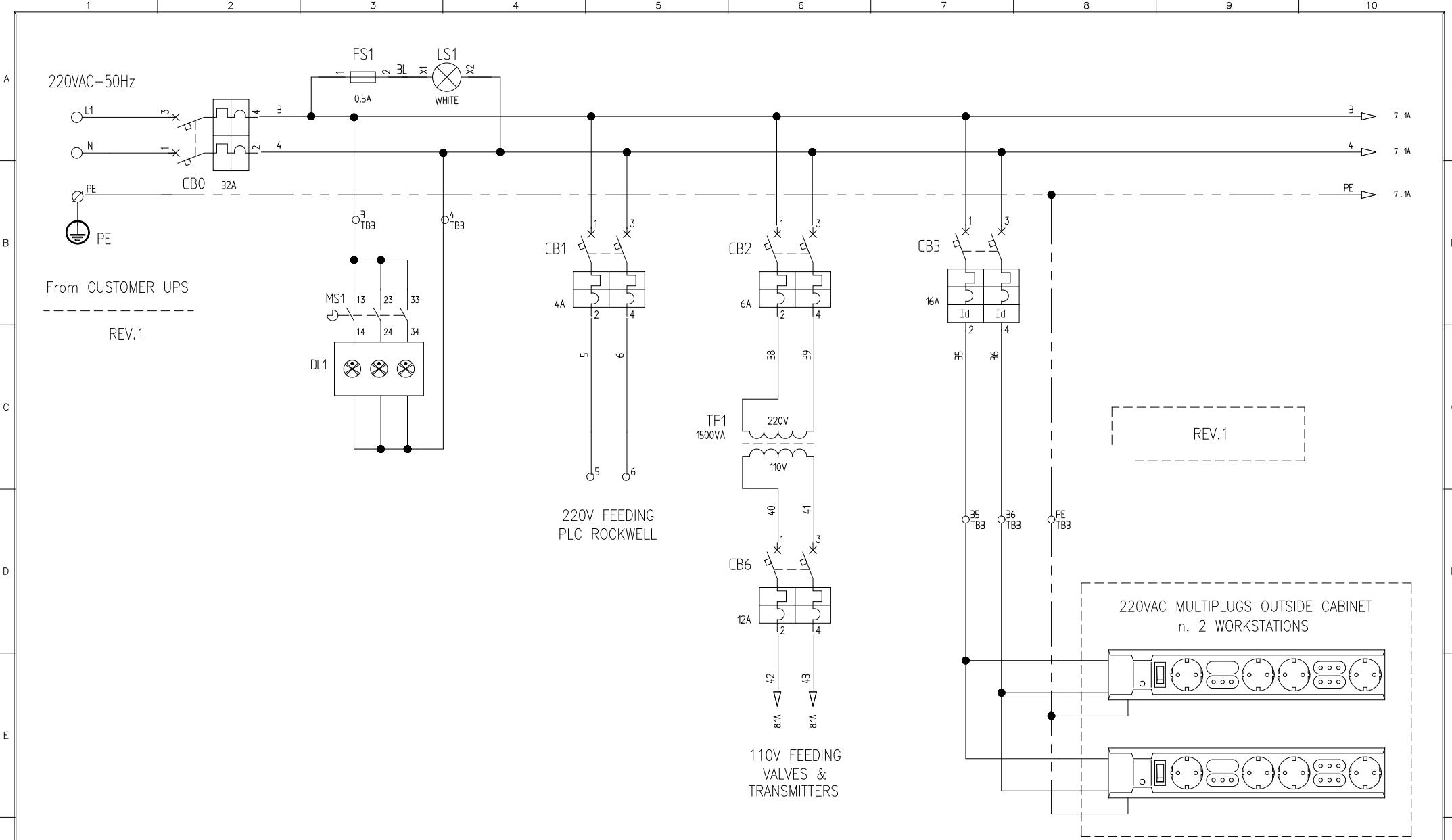
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Job: 1E35 dwg. 1E35.85.001

sheet 4

5

n.sh



1	ISSUE FOR CONSTRUCTION	01/2010	GC	date 12/2009
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SULPHUREX PLANT



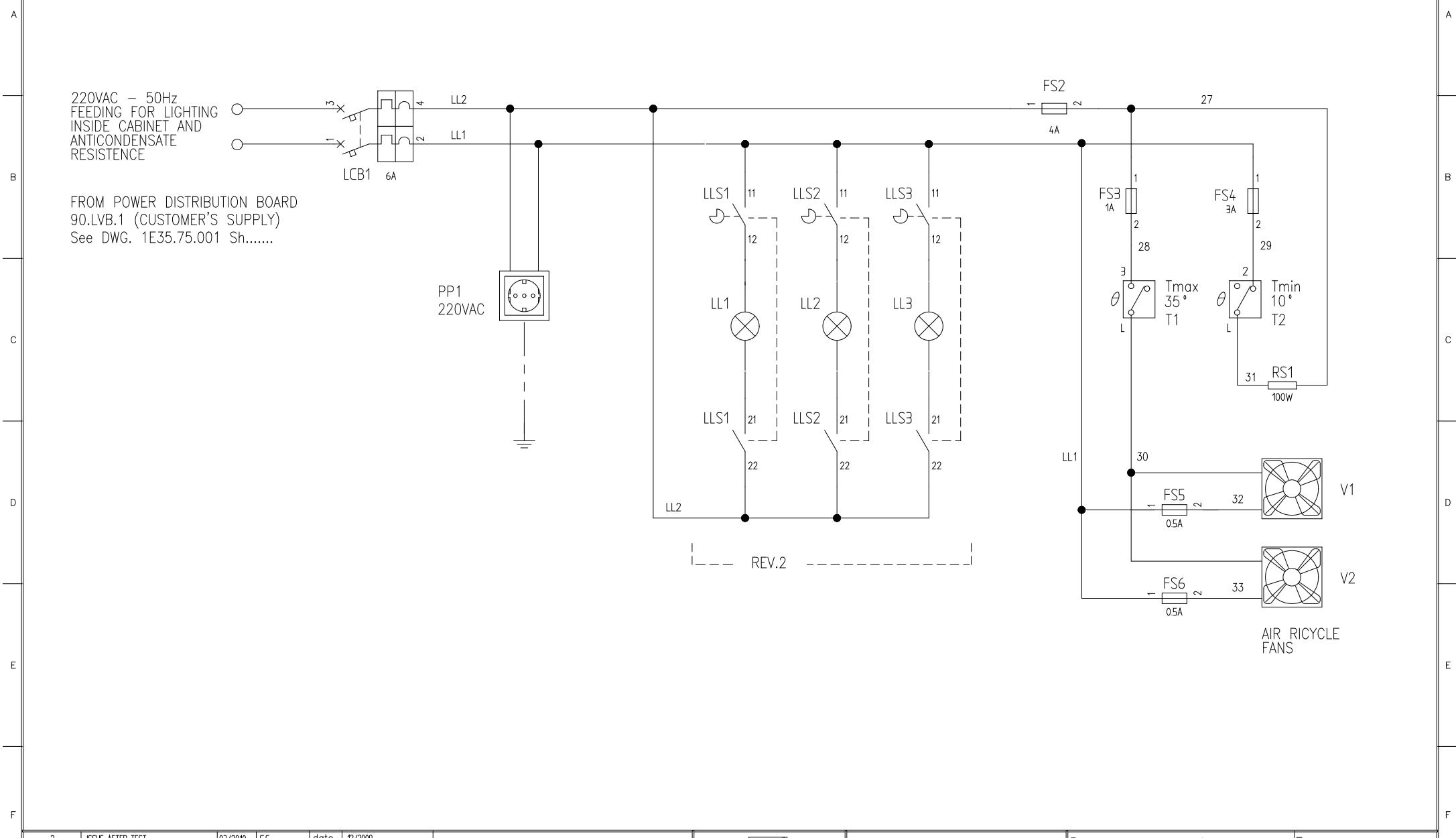
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drawing's title:

Doc. 08039ED01

Job: 1E35 dwg. 1E35.85.001

sheet 5
6 n.sh

1 2 3 4 5 6 7 8 9 10



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SULPHUREX PLANT



CABINET SERVICES

drawing's title:

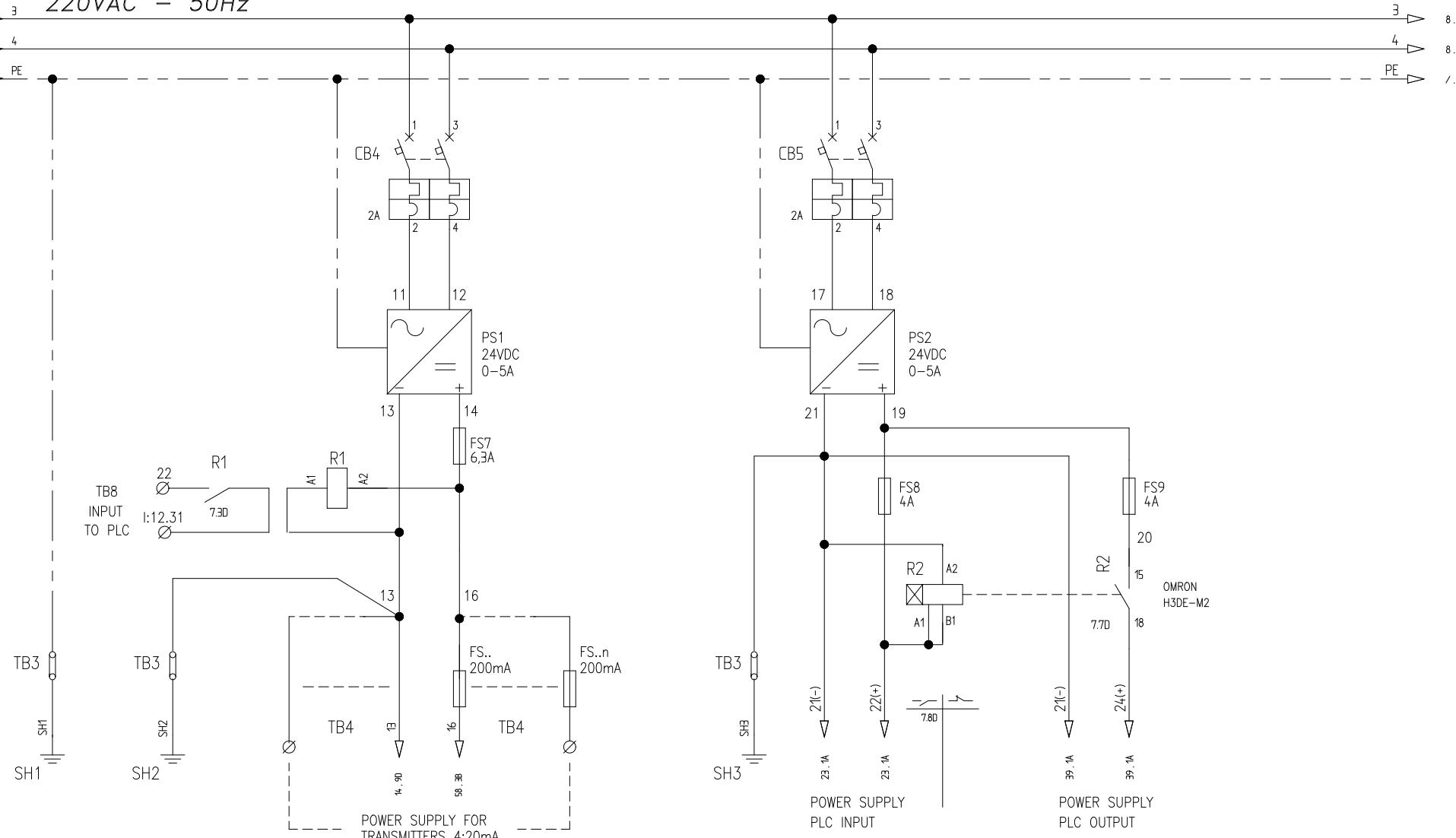
Doc. 08039ED01

Job: 1E35 dwg. 1E35.85.001

sheet 6
7 n.sh

1 2 3 4 5 6 7 8 9 10

220VAC - 50Hz



UNI A3					date 12/2009				Doc. 08039ED01	=
					desig. GC				Job: 1E35	+
0	ISSUE FOR APPROVAL	12/2009	GC	check CM					dwg. 1E35.85.001	
Rev.	Revision	Date	Name	stand. SPAC9.1					sheet 8	n.sh

2 It. DIN 6771/Teil 5 1 2 3 4 5 6 7 8 9 10 FILE: 1E3585001-007

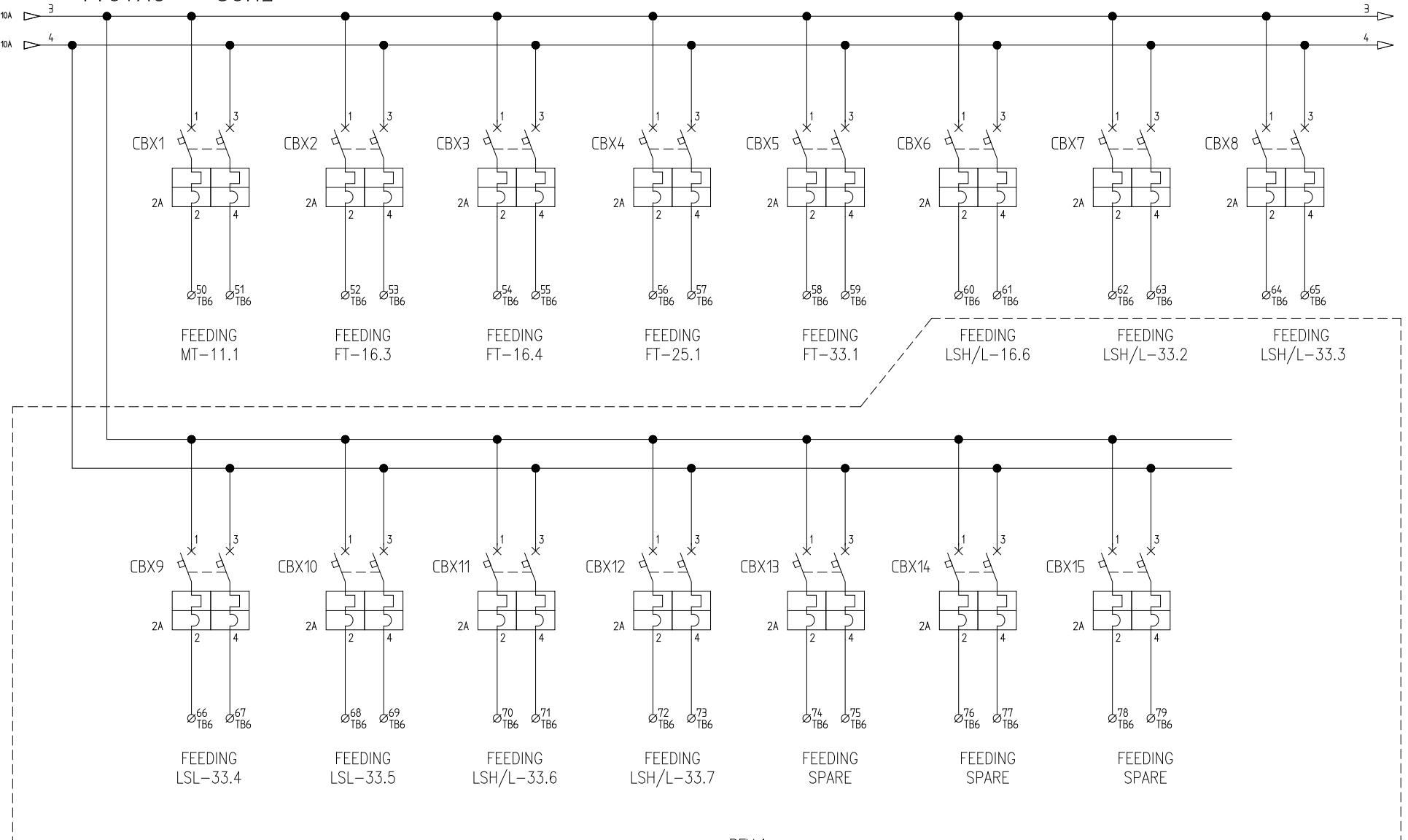
SULPHUREX PLANT

desmet ballestra

POWER DISTRIBUTION drawing's title:

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

110VAC - 50Hz



REV.1

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SULPHUREX PLANT



FEEDING INSTRUMENTS
drawing's title:

Doc. 08039ED01

Job: 1E35 dwg. 1E35.85.001

sheet 8
9 n.sh
FILE: 1E3585001-008

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2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE: 1E3585001-009

SULPHUREX PLANT



SPARE SHEET

drawing's title:

Doc. 08039ED01

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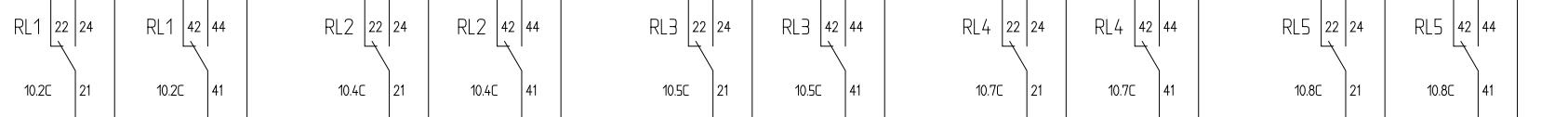
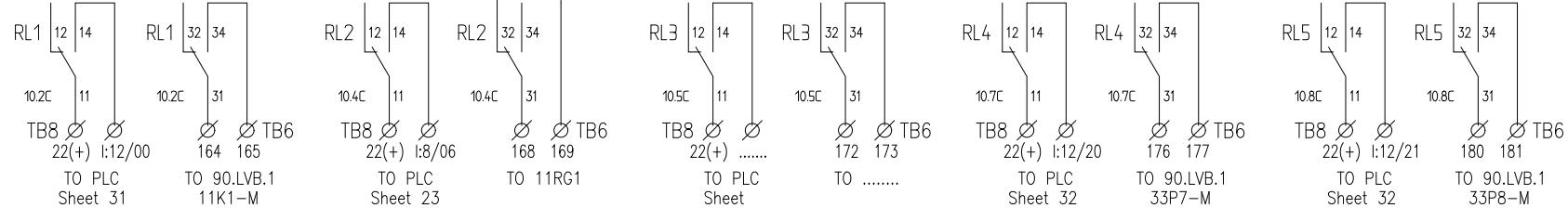
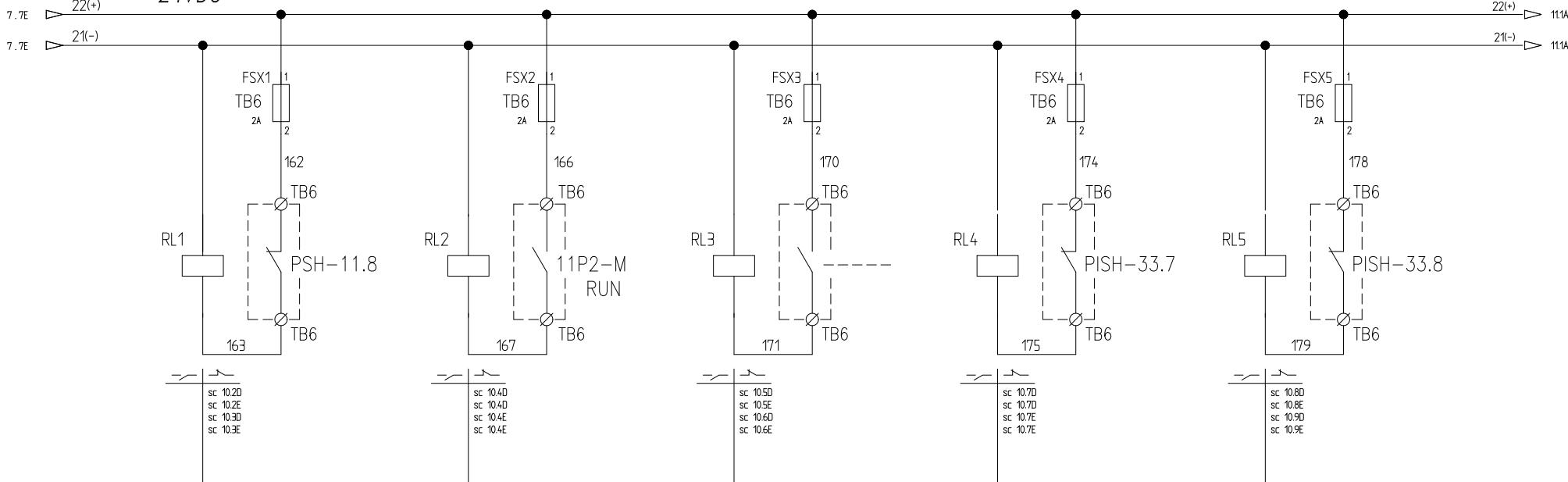
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Job: 1E35 dwg. 1E35.85.001

sheet 9
10 n.sh

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

24VDC



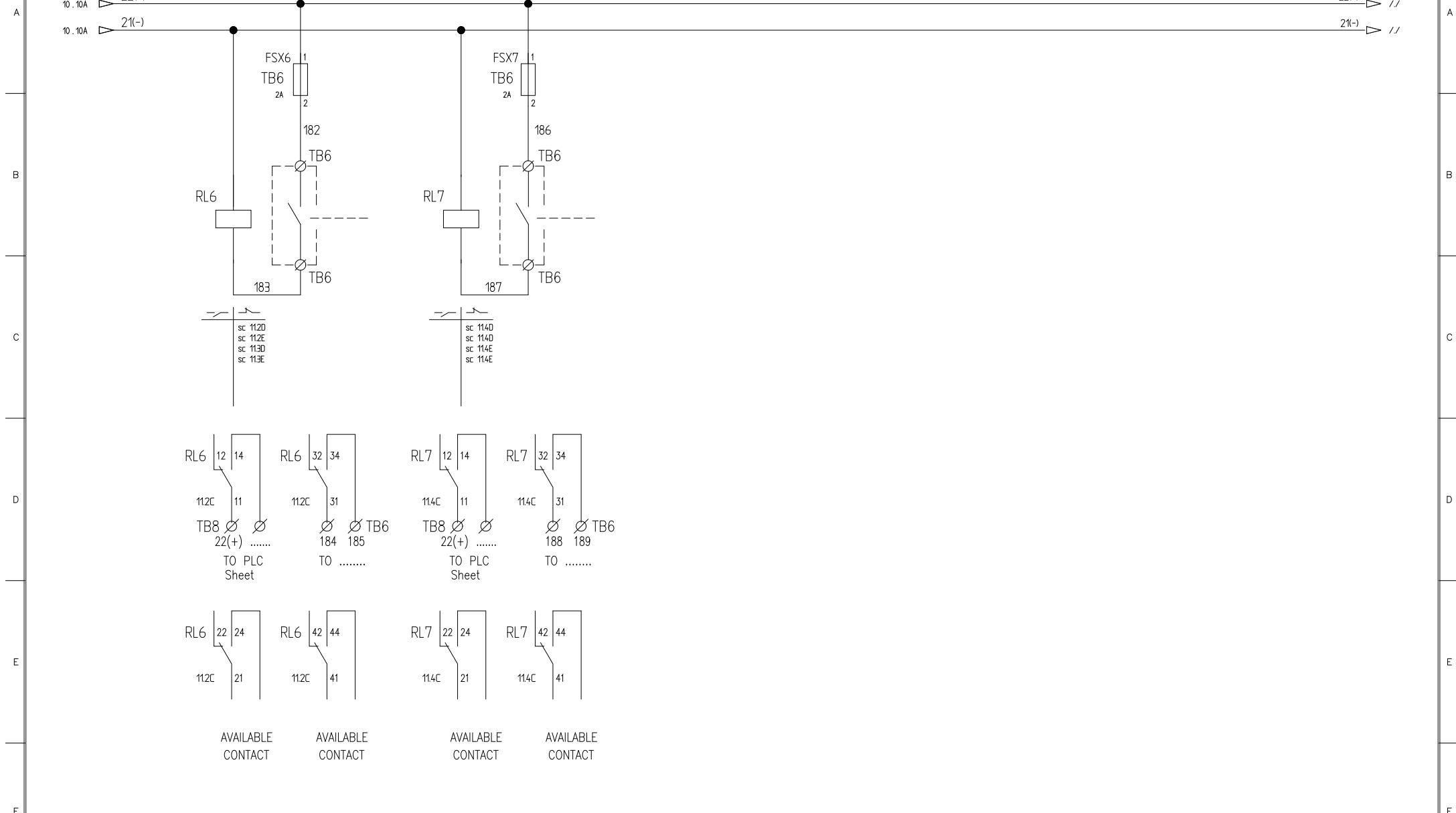
AVAILABLE CONTACT AVAILABLE CONTACT

UNI A3	ISSUE FOR CONSTRUCTION	01/2010	GC	date 12/2009		SULPHUREX PLANT		HARDWARE INTERLOCKS	Doc. 08039ED01	=
1	ISSUE FOR APPROVAL	12/2009	GC	check CM					Job: 1E35	+
0	Revision	Date	Name	stand SPAC9.1					dwg. 1E35.85.001	sheet 10 11 n.sh

2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | FILE: 1E3585001-010

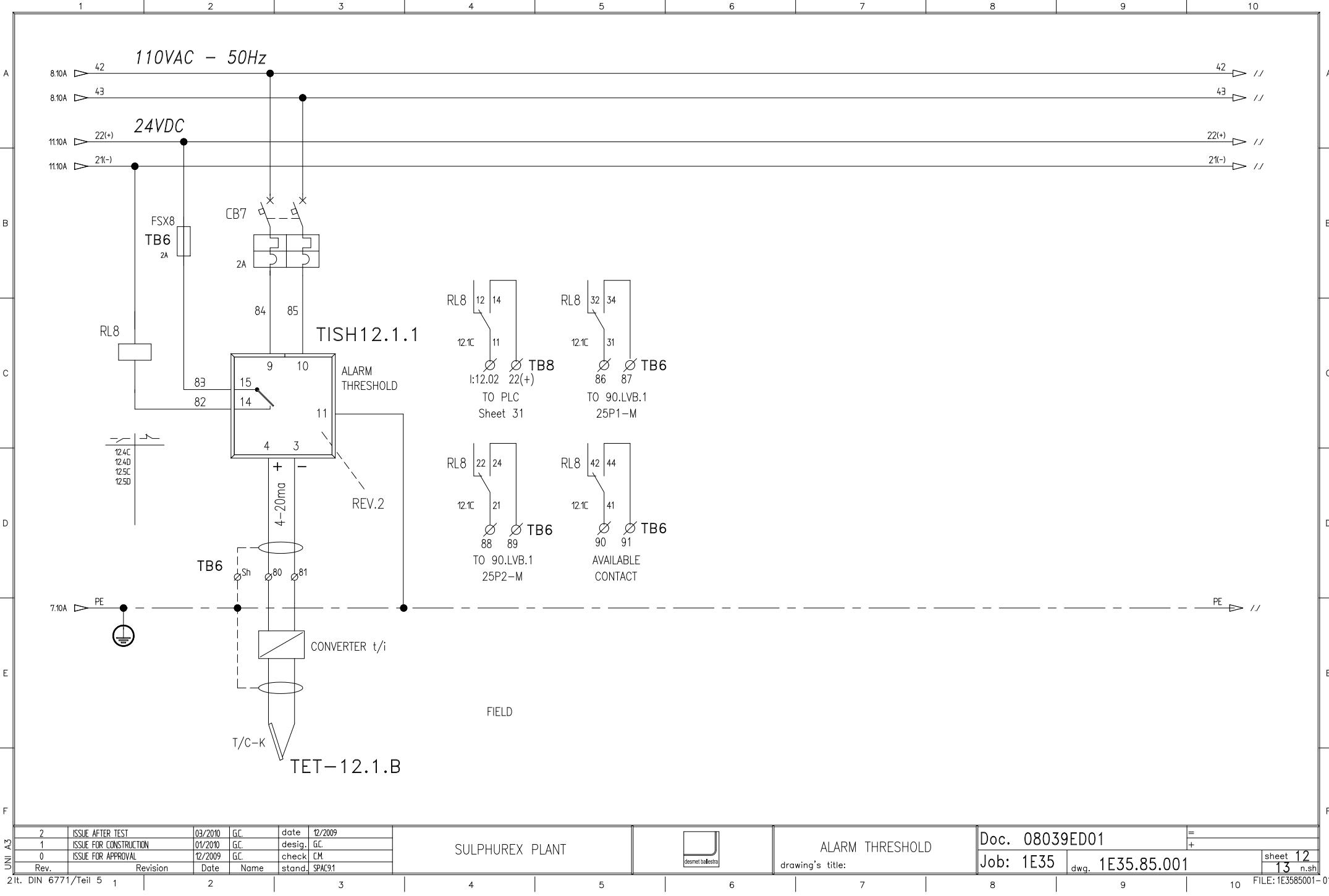
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

24VDC



1	ISSUE FOR CONSTRUCTION	01/2010	GC	date 12/2009	desig. GC		SULPHUREX PLANT	hardware interlocks	Doc. 08039ED01	=
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Rev.	Revision	Date	Name	stand. SPAC9.1	stand.		drawing's title:	dwg. 1E35.85.001	sheet 11	

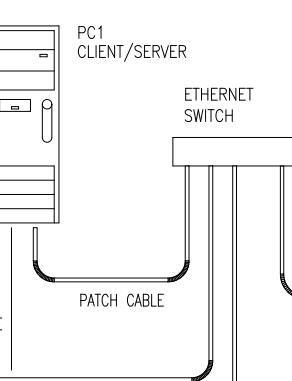
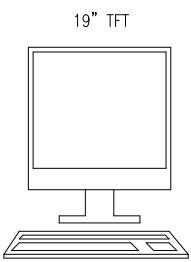
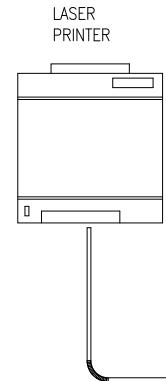
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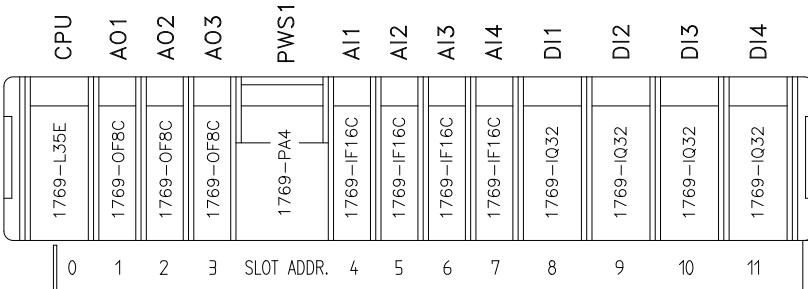
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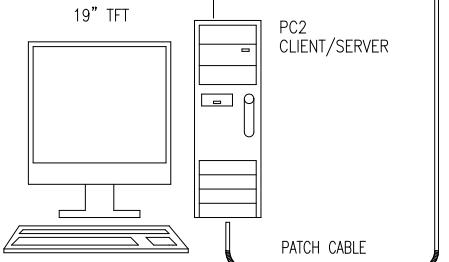
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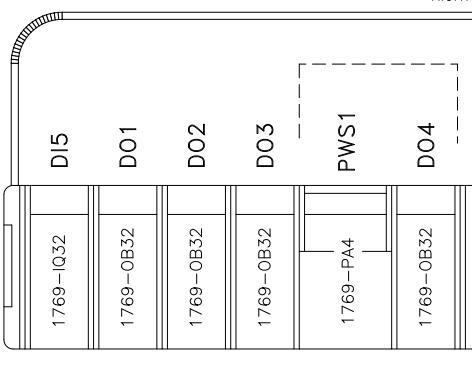
BANK 1



1769-CRL1 1 FT. BUS EXP. CABLE
RIGHT-TO-LEFT



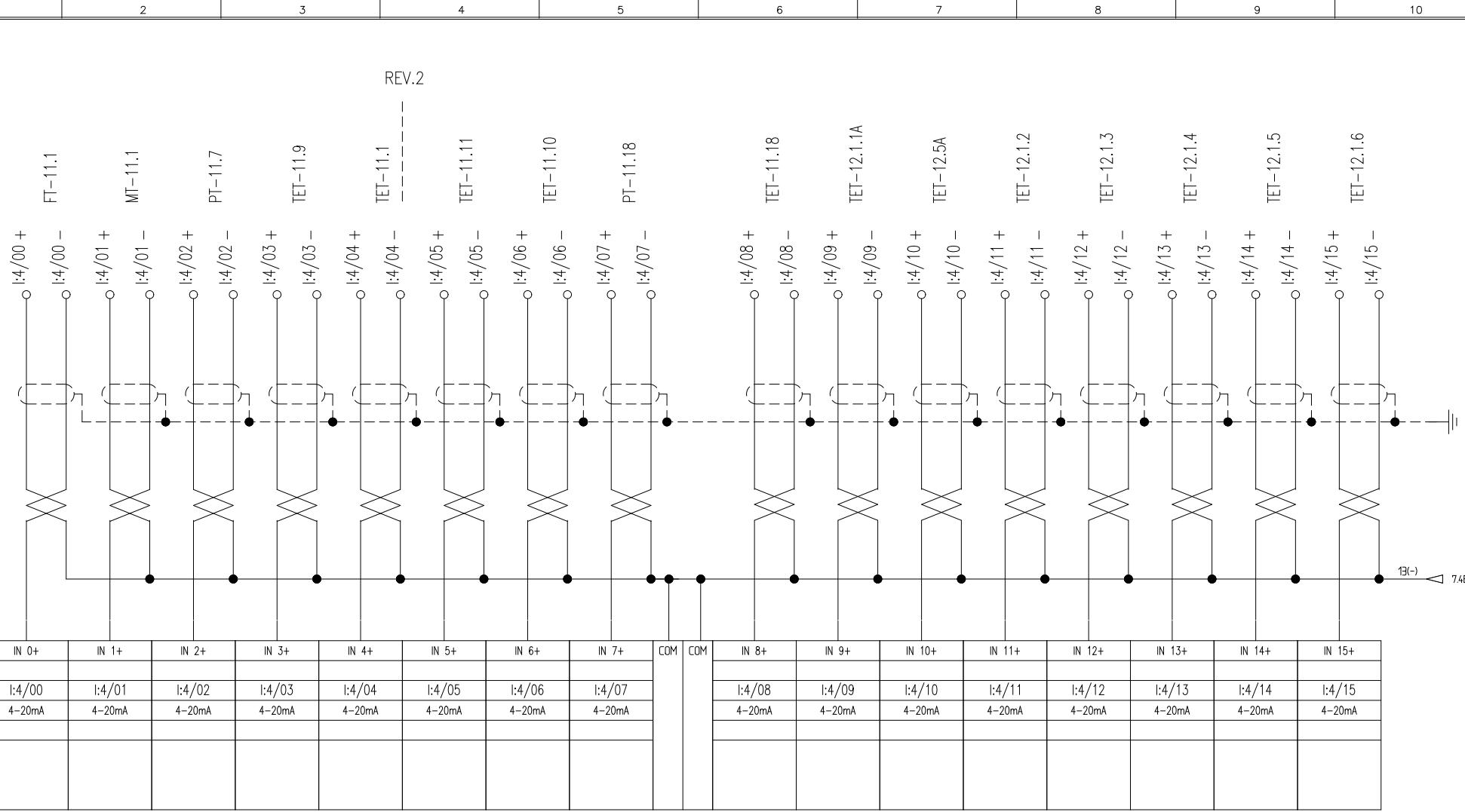
BANK 2



1769-ECR
END CAP RIGHT

REV.2

2	ISSUE AFTER TEST	03/2010	G.C.	date 12/2009	SULPHUREX PLANT	desmet ballstra	Doc. 08039ED01	=
0	ISSUE FOR APPROVAL	12/2009	G.C.	check CM			Job: 1E35	+
Rev.	Revision	Date	Name	stand. SPAC9.1			dwg. 1E35.85.001	sheet 13 14 n.sh



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Teil 5	1	0	stand.	SPAC9.1

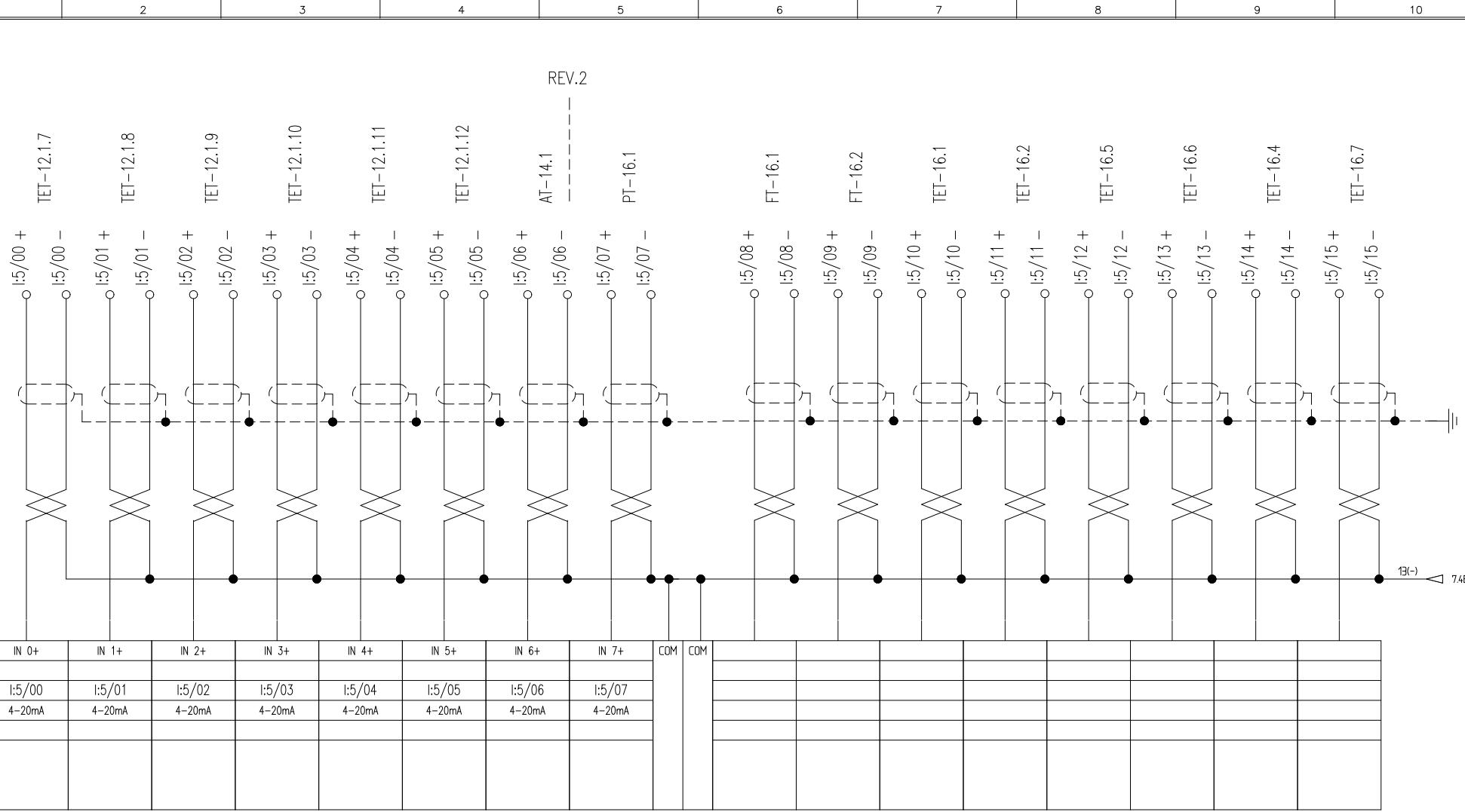
SULPHUREX PLANT



ANALOG INPUT AI1

Doc. 08039ED01

Job: 1E35 1E35 85 00



UNI A3	2	ISSUE AFTER TEST	03/2010	GC	date	12/2009
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	Rev.	Revision	Date	Name	stand.	SPAC91
21	DIN 6771/Teil 5					

SULPHUREX PLANT



ANALOG INPUT AI2

Doc. 08039ED01

Job: 1E35 1E35 85 001

sheet 15
16 n.sh
FILE: 1E3585001-015

1 2 3 4 5 6 7 8 9 10

TB4

REV.2

:6/00 + LT-16.1(+)
 :6/00 - LT-16.1(-)

FT-16.3

FT-16.4

:6/01 +
 :6/01 -

FT-16.1

FT-16.4

:6/02 +
 :6/02 -

FT-16.4

:6/03 +
 :6/03 -

DT-16.1

:6/04 +
 :6/04 -

LT-16.4

:6/05 +
 :6/05 -

TET-16.11

:6/06 +
 :6/06 -

TET-16.15

:6/07 +
 :6/07 -

FT-25.1

REV.2

:6/08 + LT-25.1
 :6/08 - LT-25.1

:6/09 +
 :6/09 -

TET-25.1

TET-25.2

PT-33.10

PT-33.1

TET-33.10

TET-33.9

TET-33.1

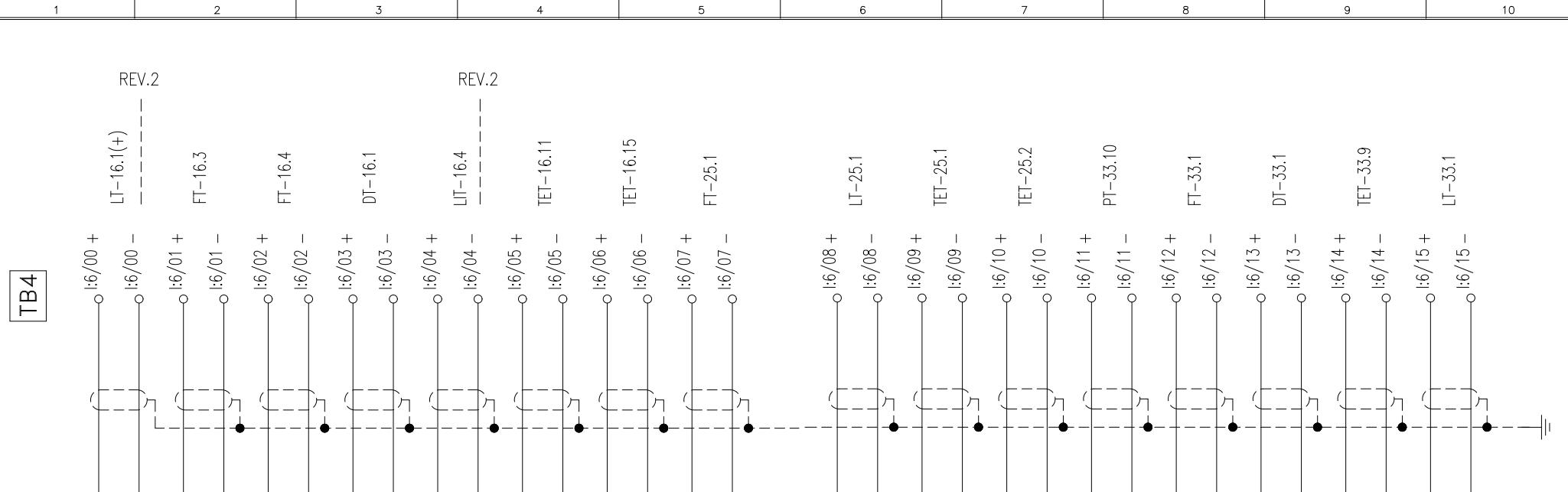
TET-33.1

TET-33.1

TET-33.1

TET-33.1

TET-33.1



IN 0+	IN 1+	IN 2+	IN 3+	IN 4+	IN 5+	IN 6+	IN 7+	COM	COM	IN 8+	IN 9+	IN 10+	IN 11+	IN 12+	IN 13+	IN 14+	IN 15+
:6/00	:6/01	:6/02	:6/03	:6/04	:6/05	:6/06	:6/07			:6/08	:6/09	:6/10	:6/11	:6/12	:6/13	:6/14	:6/15
4-20mA			4-20mA														

AI3

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SULPHUREX PLANT



ANALOG INPUT AI3

drawing's title:

Doc. 08039ED01

Job: 1E35 dwg. 1E35.85.001

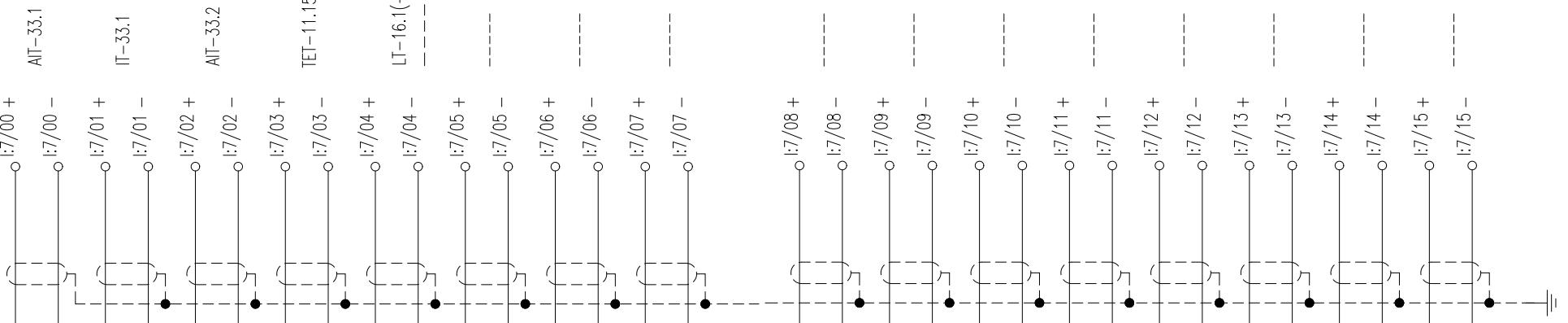
sheet 16
17 n.sh

2it. DIN 6771/Teil 5 1 2 3 4 5 6 7 8 9 10 FILE: 1E3585001-016

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REV.2

TB4



IN 0+	IN 1+	IN 2+	IN 3+	IN 4+	IN 5+	IN 6+	IN 7+	COM	COM	IN 8+	IN 9+	IN 10+	IN 11+	IN 12+	IN 13+	IN 14+	IN 15+
1/7/00	1/7/01	1/7/02	1/7/03	1/7/04	1/7/05	1/7/06	1/7/07			1/7/08	1/7/09	1/7/10	1/7/11	1/7/12	1/7/13	1/7/14	1/7/15
4-20mA			4-20mA														

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SULPHUREX PLANT

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ANALOG INPUT AI4
drawing's title:

Doc. 08039ED01 =
Job: 1E35 +
dwg. 1E35.85.001 sheet 17
n.sh 18

FILE: 1E3585001-017

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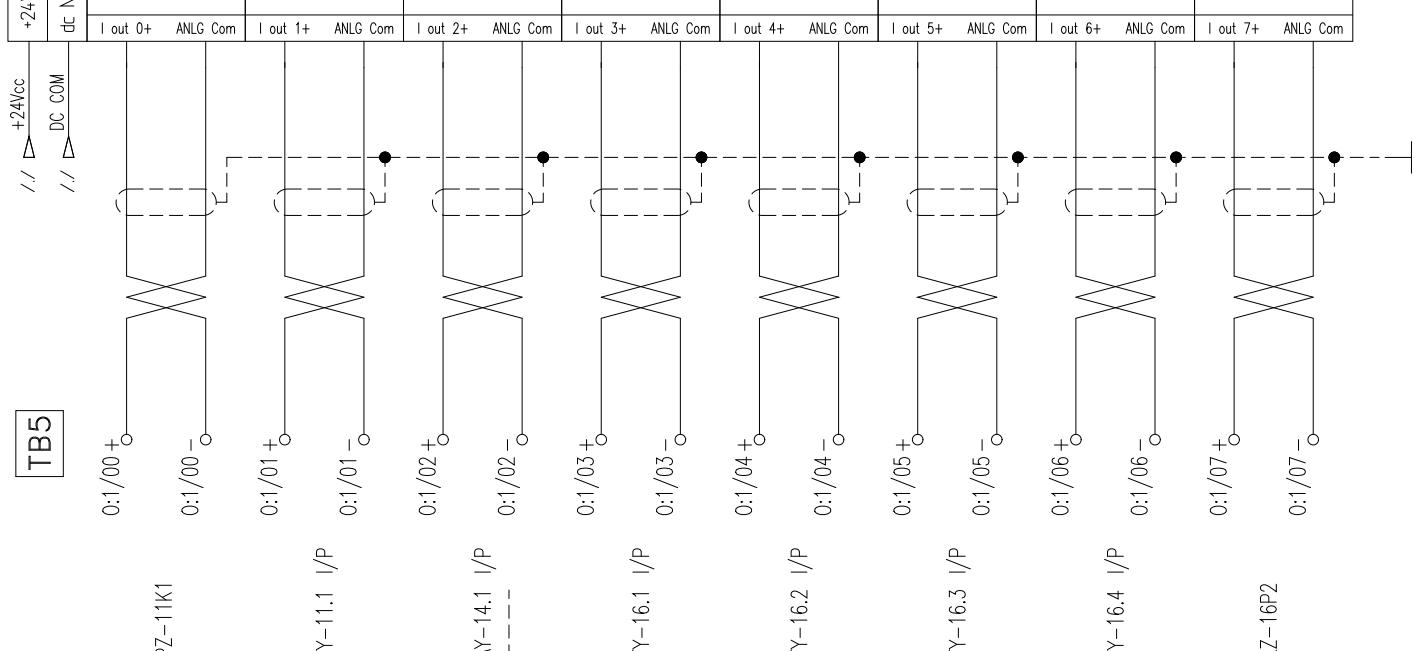
F

AO1

FREQUENCY
CONVERTER
FOR 11K1-M

FREQUENCY
CONVERTER
FOR 16P2-M

+24Vdc		dc NEUT		dc COM		+24Vcc	
4-20ma							
0:1/00	0:1/01	0:1/02	0:1/03	0:1/04	0:1/05	0:1/06	0:1/07
I out 0+ ANLG Com	I out 1+ ANLG Com	I out 2+ ANLG Com	I out 3+ ANLG Com	I out 4+ ANLG Com	I out 5+ ANLG Com	I out 6+ ANLG Com	I out 7+ ANLG Com



REV.2

PZ-11K1

TY-11.1 I/P

AY-14.1 I/P

FY-16.1 I/P

FY-16.2 I/P

FY-16.3 I/P

TY-16.4 I/P

LZ-16P2

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SULPHUREX PLANT



ANALOG OUTPUT AO1
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sheet 18
19 n.sh

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Rev. Revision Date Name stand SPAC9.1

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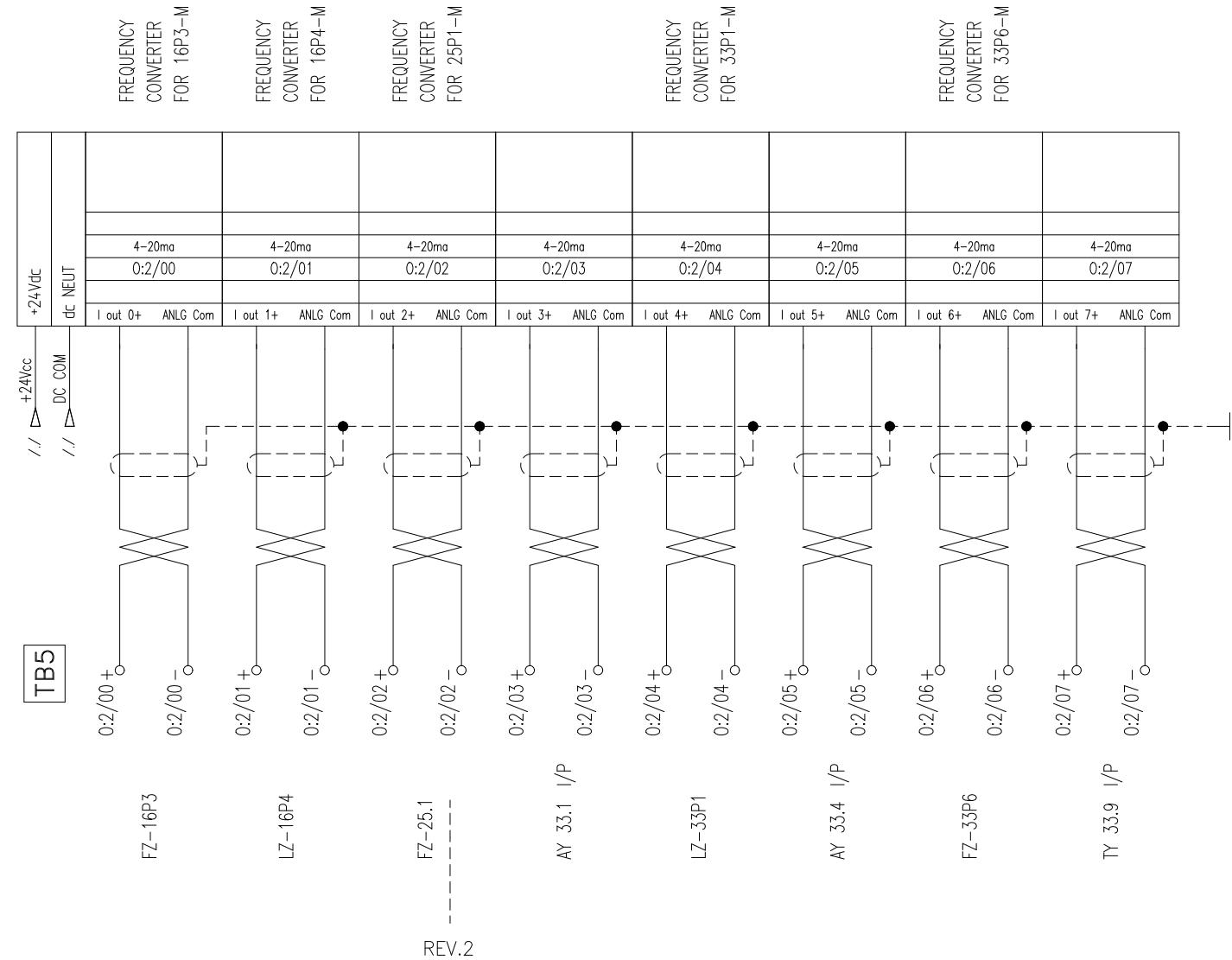
E

E

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AO2



2	ISSUE AFTER TEST	03/2010	G.C.	date	12/2009
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0	ISSUE FOR APPROVAL	12/2009	G.C.	check	CM

Rev. Revision Date Name stand. SPAC9.1

SULPHUREX PLANT



ANALOG OUTPUT AO2
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Doc. 08039ED01

Job: 1E35 dwg. 1E35.85.001

sheet 19
20 n.sh

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

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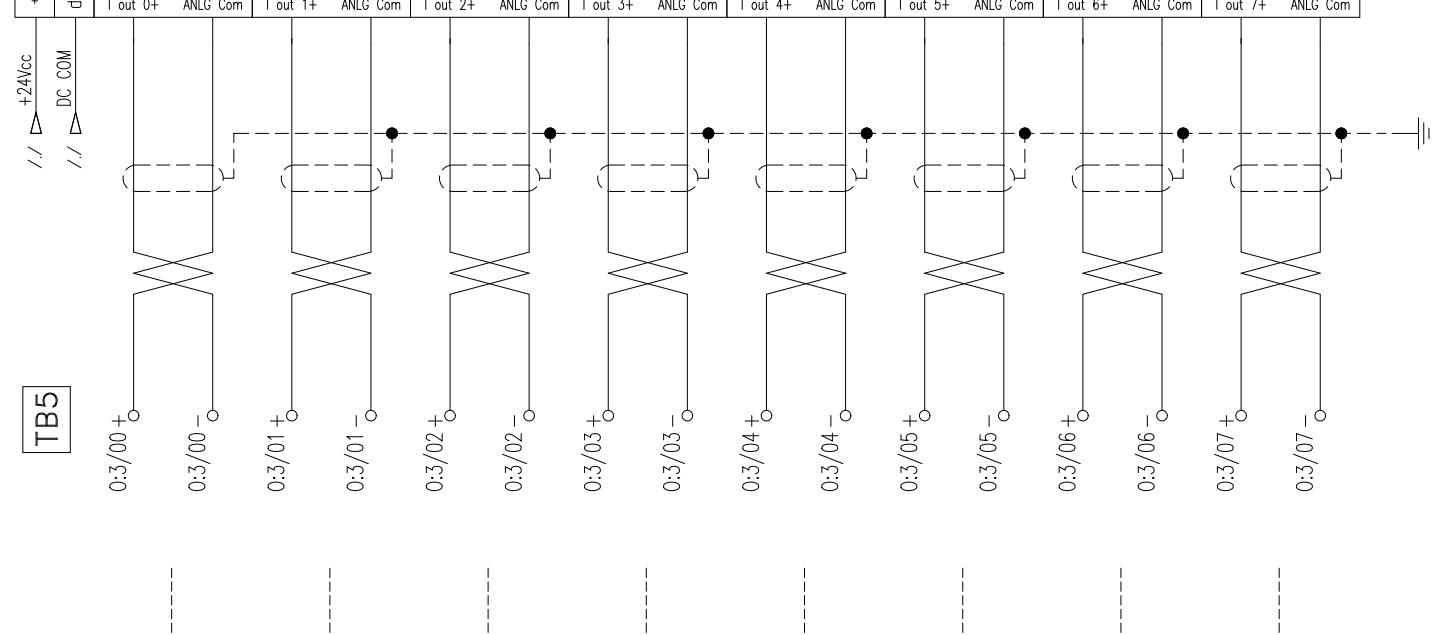
E

F

F

A03

+24Vdc		dc NEUT									
4-20ma											
0:3/00		0:3/01		0:3/02		0:3/03		0:3/04		0:3/05	
I out 0+	ANLG Com	I out 1+	ANLG Com	I out 2+	ANLG Com	I out 3+	ANLG Com	I out 4+	ANLG Com	I out 5+	ANLG Com
I out 6+	ANLG Com	I out 7+	ANLG Com								



TB5

UNI A3					date 12/2009		SULPHUREX PLANT		ANALOG OUTPUT A03	Doc. 08039ED01	=
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ANALOG OUTPUT A03
drawing's title:

Job: 1E35 dwg. 1E35.85.001

sheet 20
21 n.sh

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

A

A

B

B

C

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SULPHUREX PLANT



SPARE SHEET

drawing's title:

Doc. 08039ED01

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+

Job: 1E35 dwg. 1E35.85.001

sheet 21
22 n.sh

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

A

A

B

B

C

C

D

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E

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F

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SULPHUREX PLANT



SPARE SHEET

drawing's title:

Doc. 08039ED01

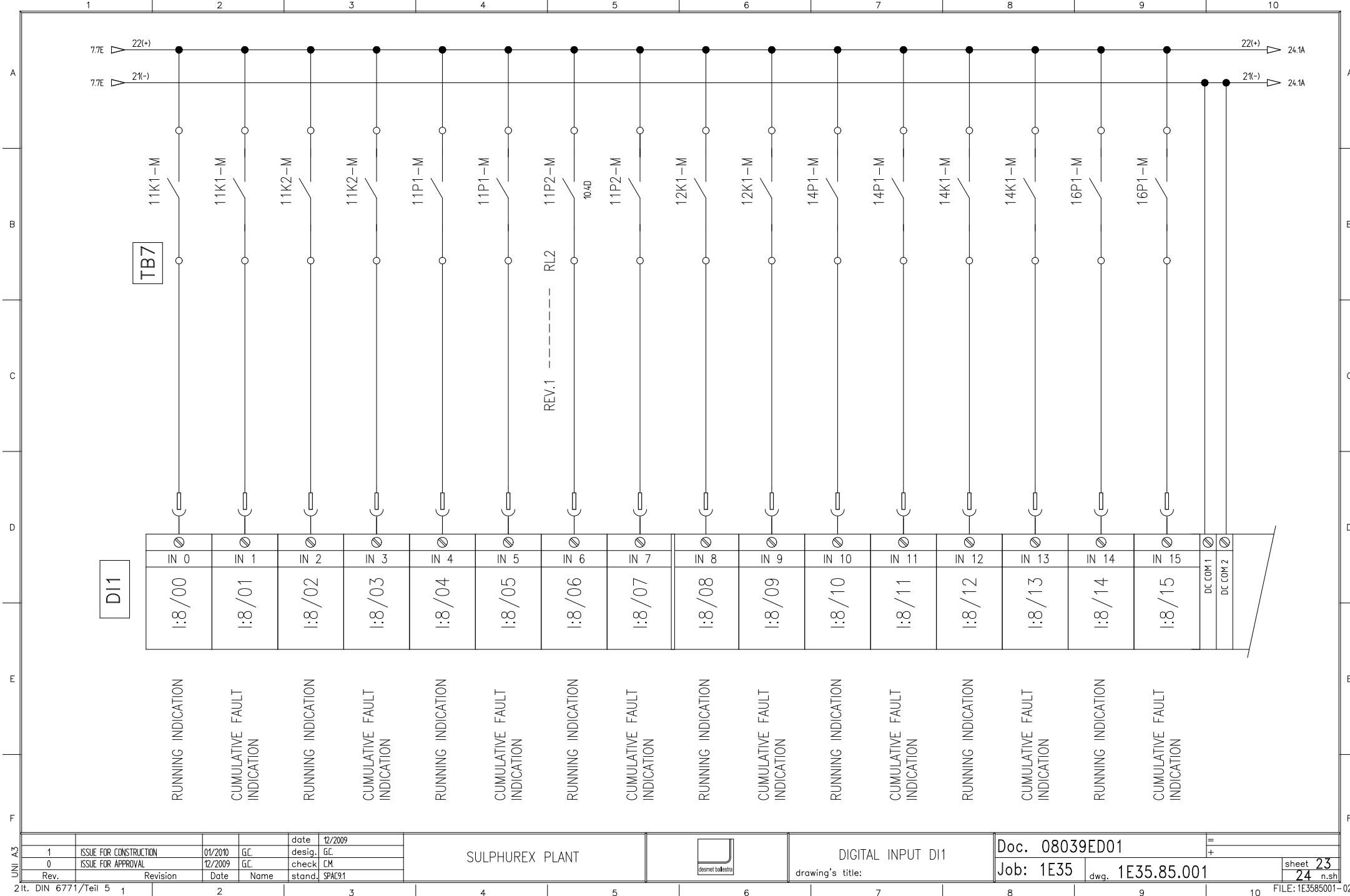
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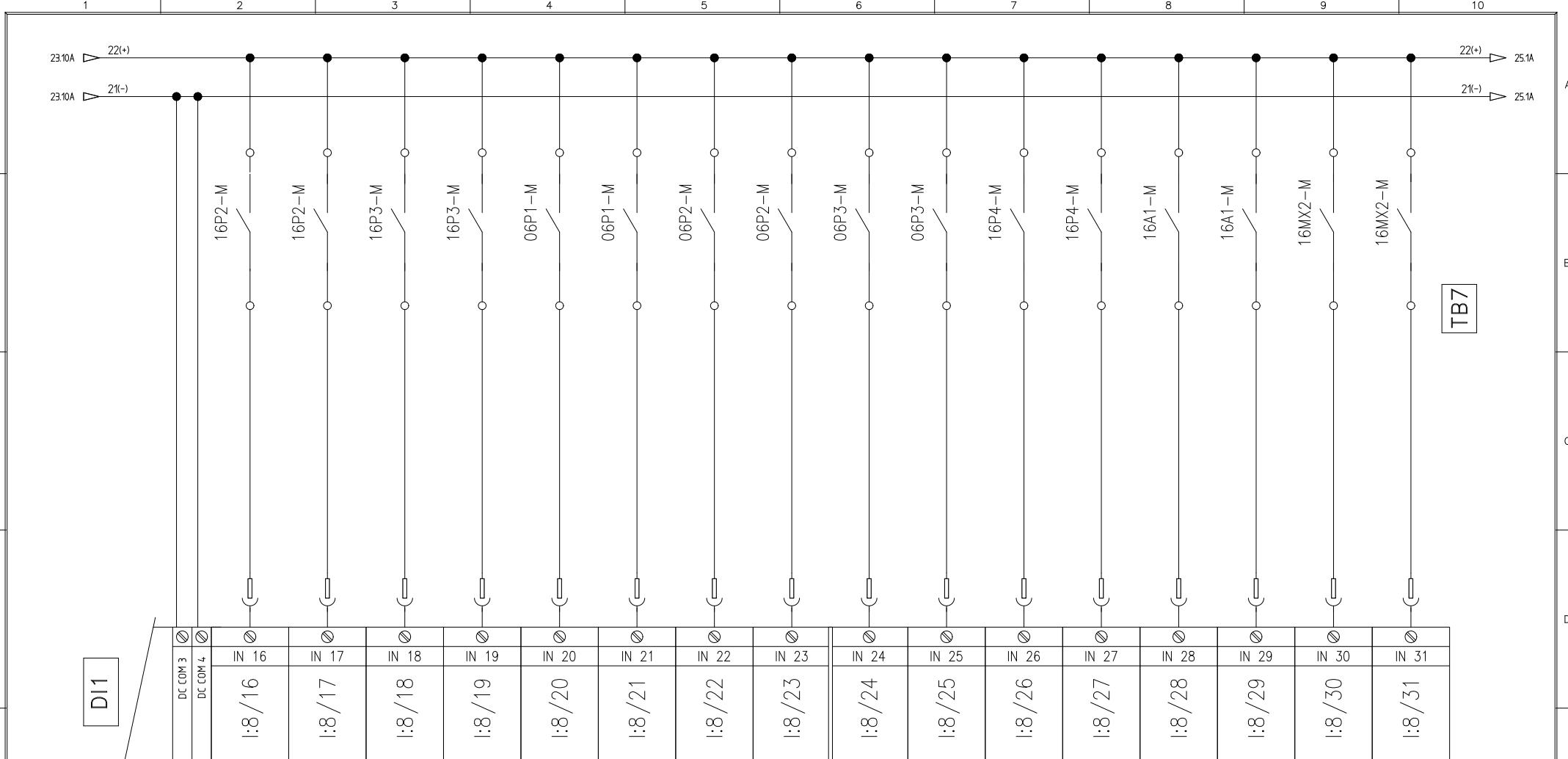
+

Job: 1E35 dwg. 1E35.85.001

sheet 22

23 n.sh

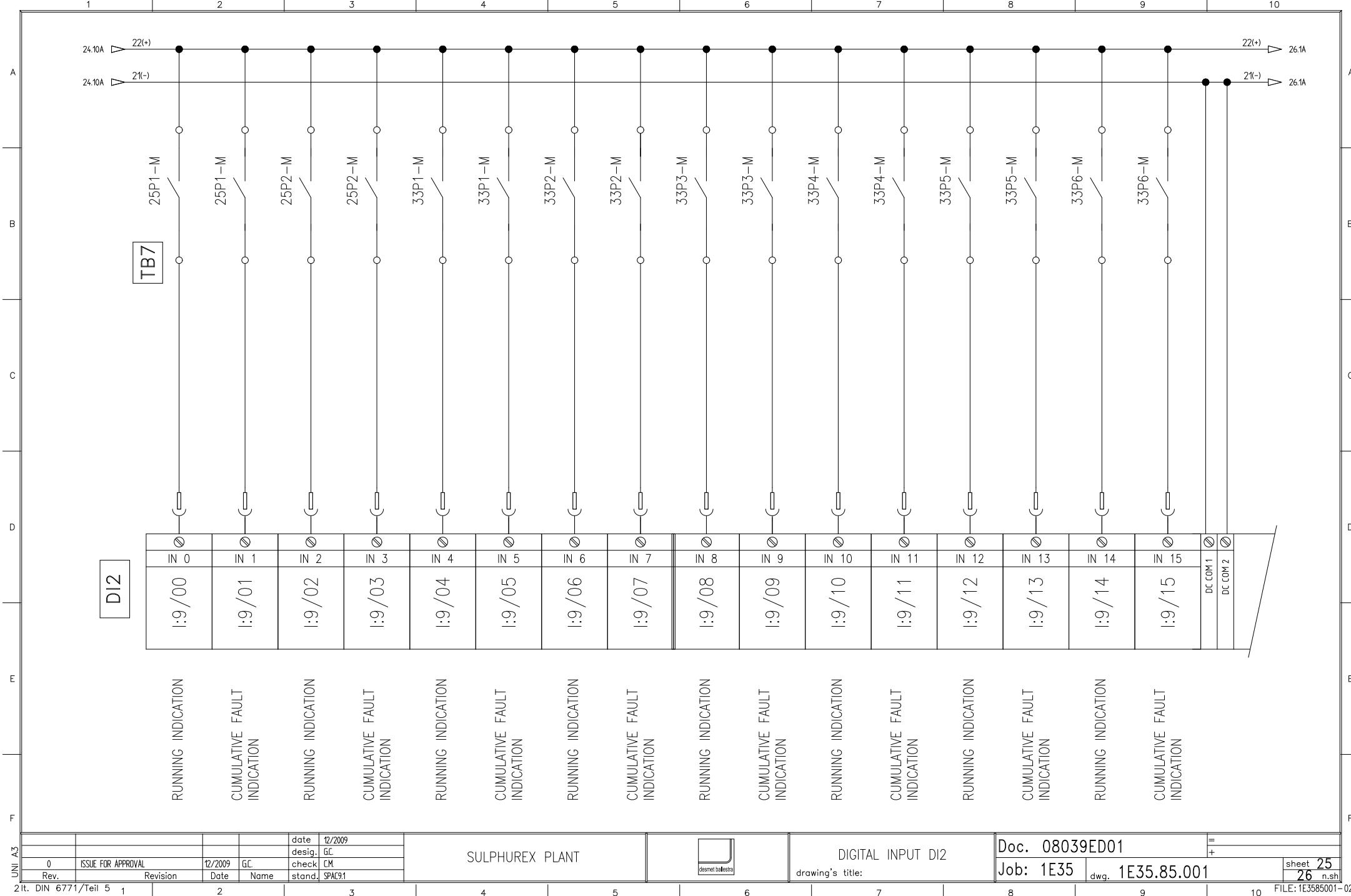


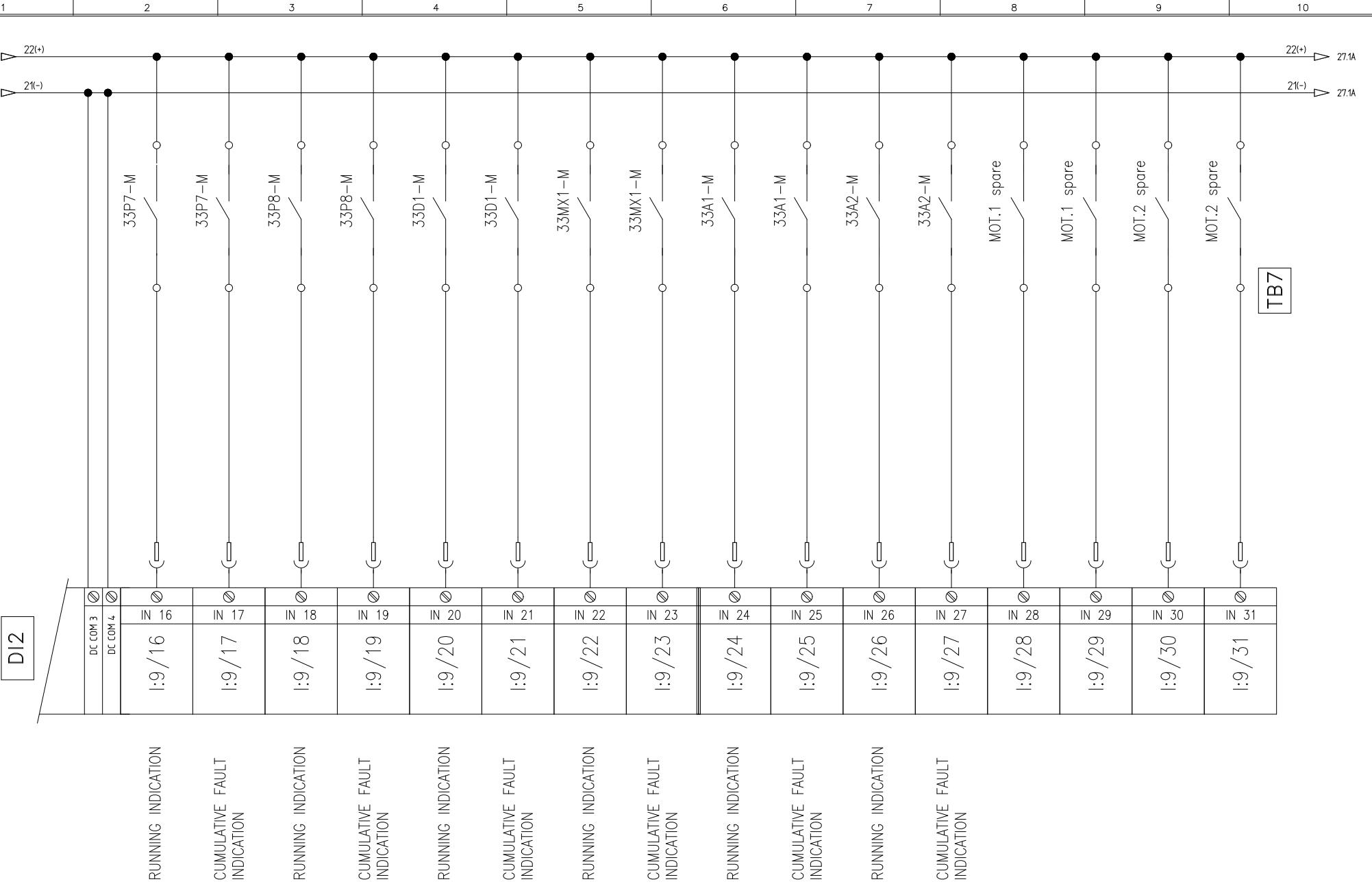


UNI A3				date 12/2009						SULPHUREX PLANT		desmet ballestra		DIGITAL INPUT DI1		Doc. 08039ED01		=	
0	ISSUE FOR APPROVAL	12/2009	GC	check CM		Rev.	Revision	Date	Name	stand. SPAC9.1									

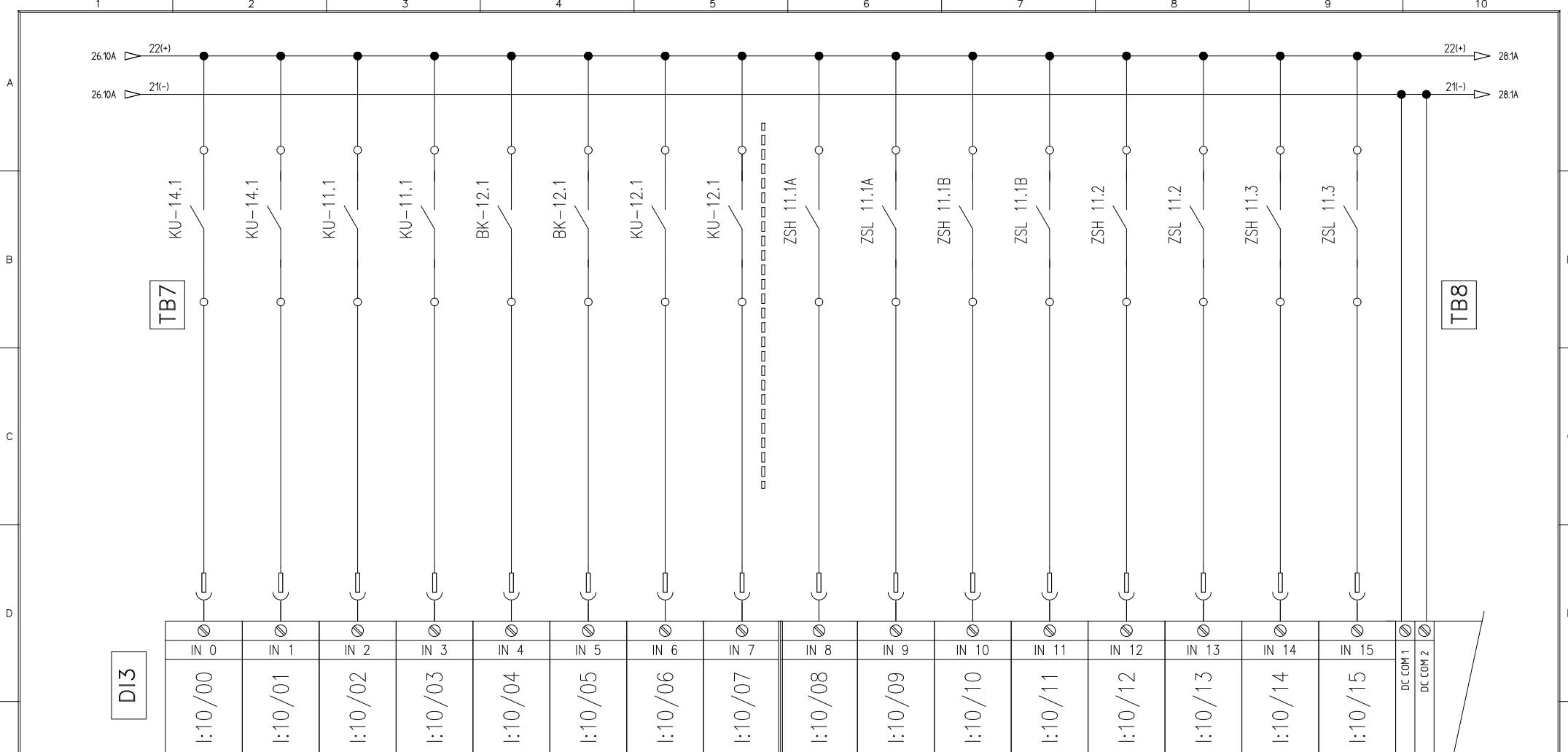
2lt. DIN 6771/Teil 5 1 2 3 4 5 6 7 8 9 10 FILE: 1E3585001-024

TB7

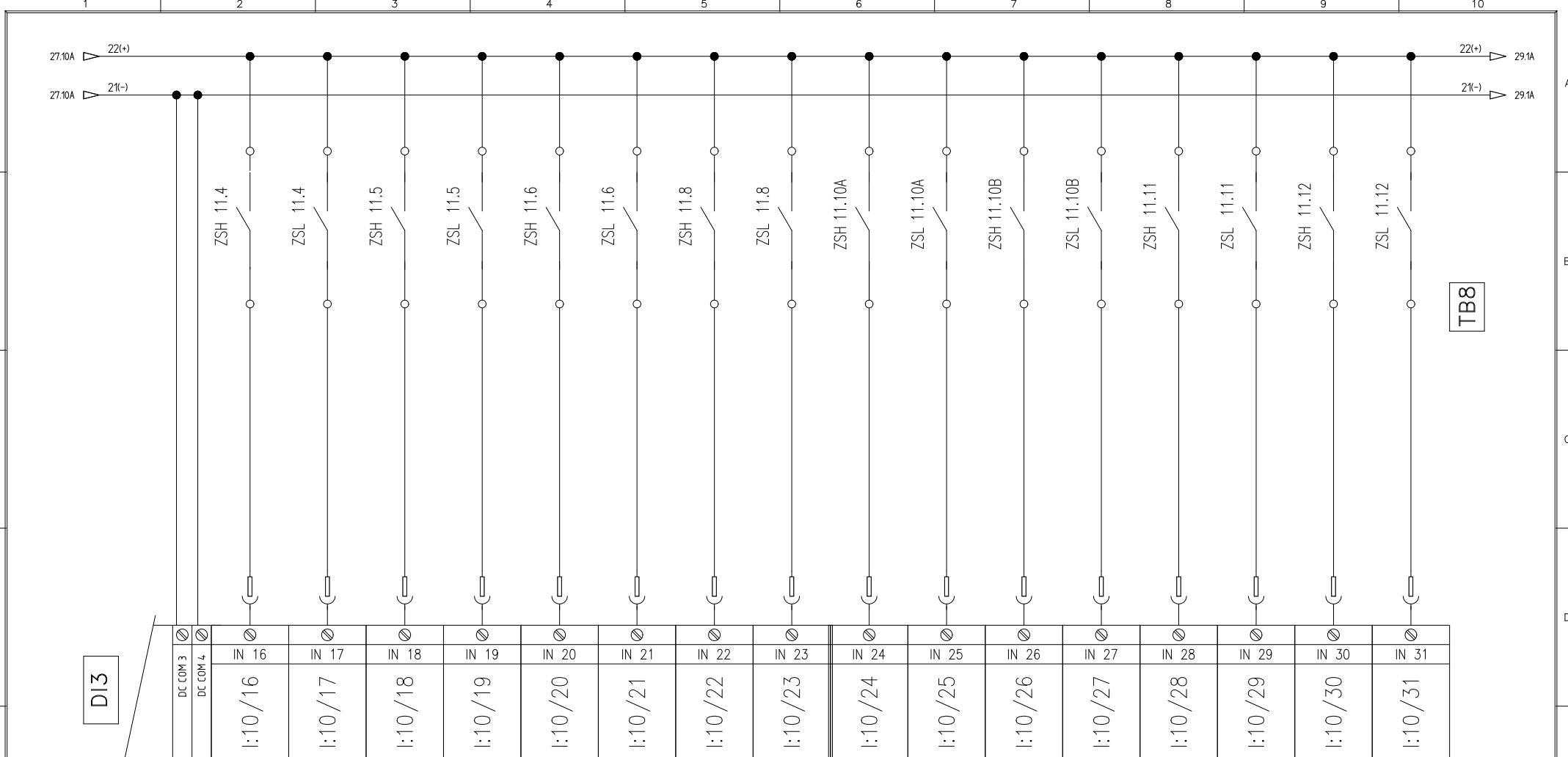




0	ISSUE FOR APPROVAL	12/2009	date	12/2009	desig.	GC	SULPHUREX PLANT	desmet ballestra	DIGITAL INPUT DI2	Doc. 08039ED01	=	
Rev.	Revision	Date	Name	check CM	stand.	SPAC9.1		drawing's title:	Job: 1E35	dwg. 1E35.85.001	+	
2 It.	DIN 6771/Teil 5	1	2	3	4	5	6	7	8	9	10	sheet 26 27 n.sh



0	ISSUE FOR APPROVAL	12/2009	date 12/2009	desig. GC	check CM	stand. SPAC9.1	SULPHUREX PLANT	desmet ballistra	DIGITAL INPUT DI3	Doc. 08039ED01	=
Rev.	Revision	Date	Name	stand.						Job: 1E35	+
										dwg. 1E35.85.001	sheet 27 28 n.sh



VALVE OPEN POSITION

KV-11.4

VALVE CLOSED POSITION

VALVE OPEN POSITION

KV-11.5

VALVE CLOSED POSITION

VALVE OPEN POSITION

KV-11.6

VALVE CLOSED POSITION

VALVE OPEN POSITION

KV-11.8

VALVE CLOSED POSITION

VALVE OPEN POSITION

KV-11.10A

VALVE CLOSED POSITION

VALVE OPEN POSITION

KV-11.10B

VALVE CLOSED POSITION

VALVE OPEN POSITION

KV-11.11

VALVE CLOSED POSITION

VALVE OPEN POSITION

KV-11.12

VALVE CLOSED POSITION

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UNI A3										
0	ISSUE FOR APPROVAL	12/2009	date 12/2009	desig. GC	check CM					
Rev.	Revision	Date	Name	stand. SPAC9.1	stand.					
2 It. DIN 6771/Teil 5 1										

SULPHUREX PLANT

desmet ballestra

DIGITAL INPUT DI3

drawing's title:

Doc. 08039ED01

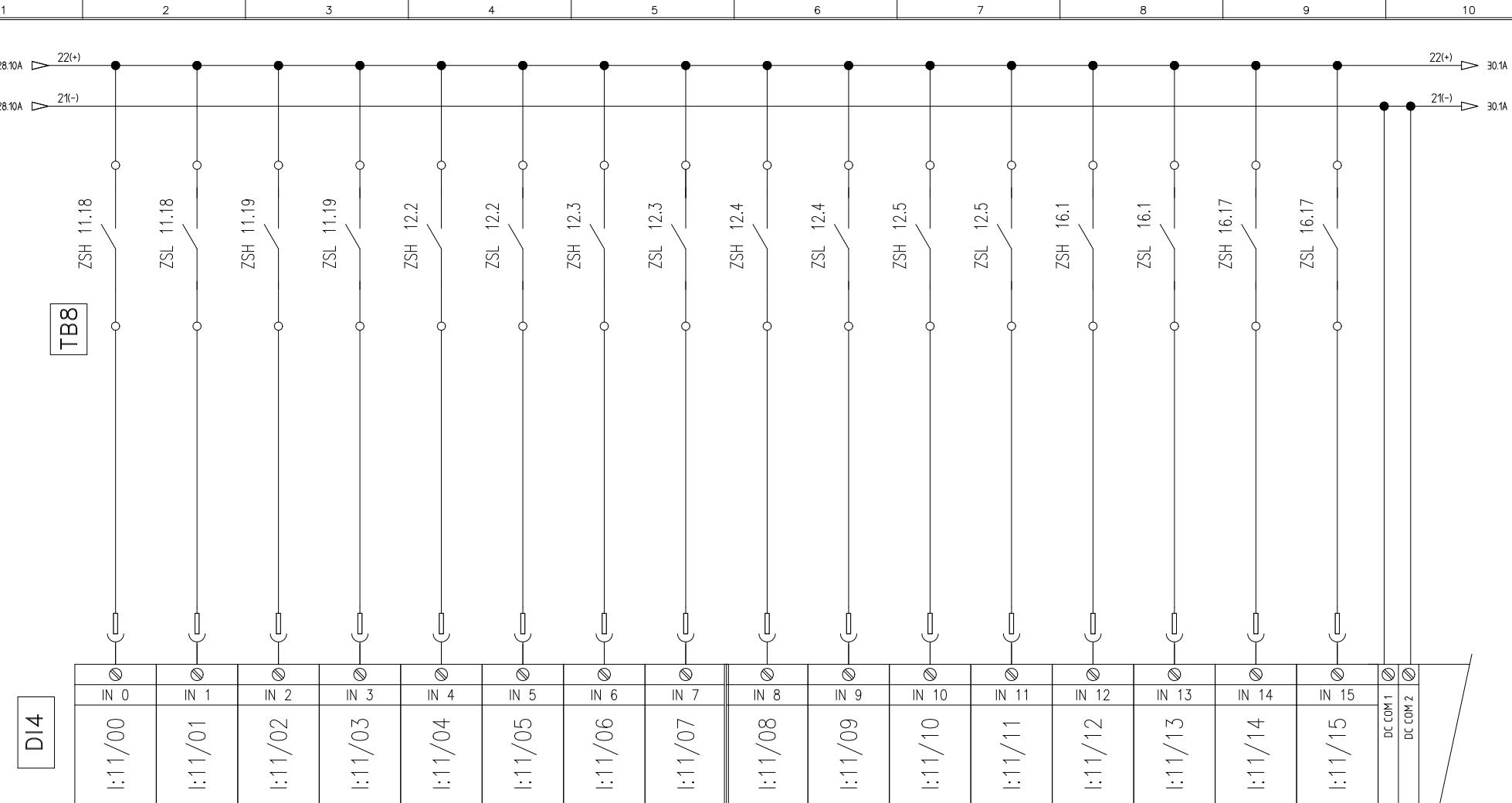
Job: 1E35

dwg. 1E35.85.001

= +

sheet 28
29 n.sh

FILE: 1E3585001-028



VALVE OPEN
POSITION
KV-11.18
VALVE CLOSED
POSITION

VALVE OPEN
POSITION
KV-11.19
VALVE CLOSED
POSITION

VALVE OPEN
POSITION
KV-12.2
VALVE CLOSED
POSITION

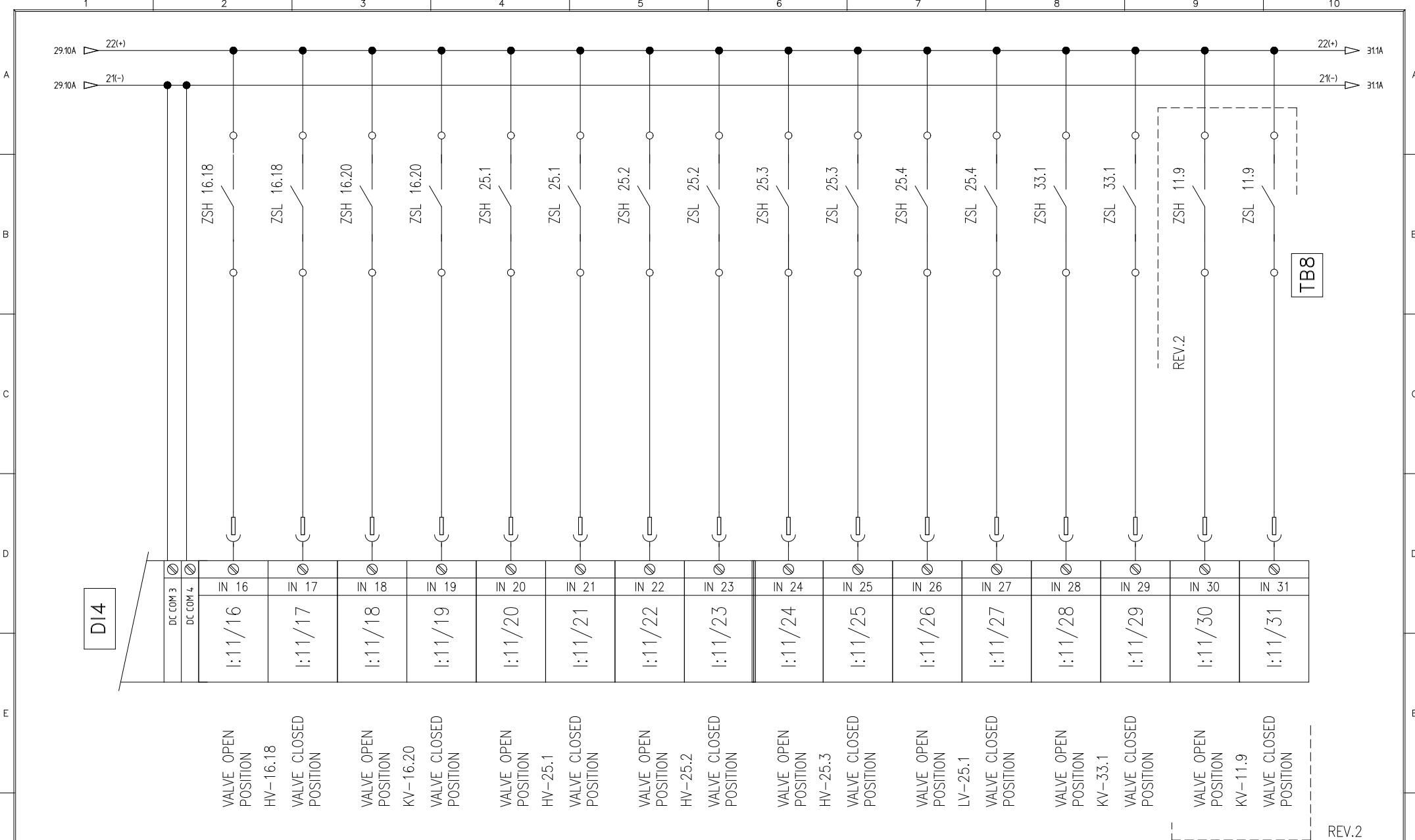
VALVE OPEN
POSITION
KV-12.3
VALVE CLOSED
POSITION

VALVE OPEN
POSITION
KV-12.4
VALVE CLOSED
POSITION

VALVE OPEN
POSITION
KV-12.5
VALVE CLOSED
POSITION

VALVE OPEN
POSITION
KV-16.1
VALVE CLOSED
POSITION

VALVE OPEN
POSITION
KV-16.17
VALVE CLOSED
POSITION



UNI A3	2	ISSUE AFTER TEST	09/2010	GC	date	12/2009
	0	ISSUE FOR APPROVAL	12/2009	GC	check	CM
	Rev.	Revision	Date	Name	stand.	SPAC9.1

SULPHUREX PLANT

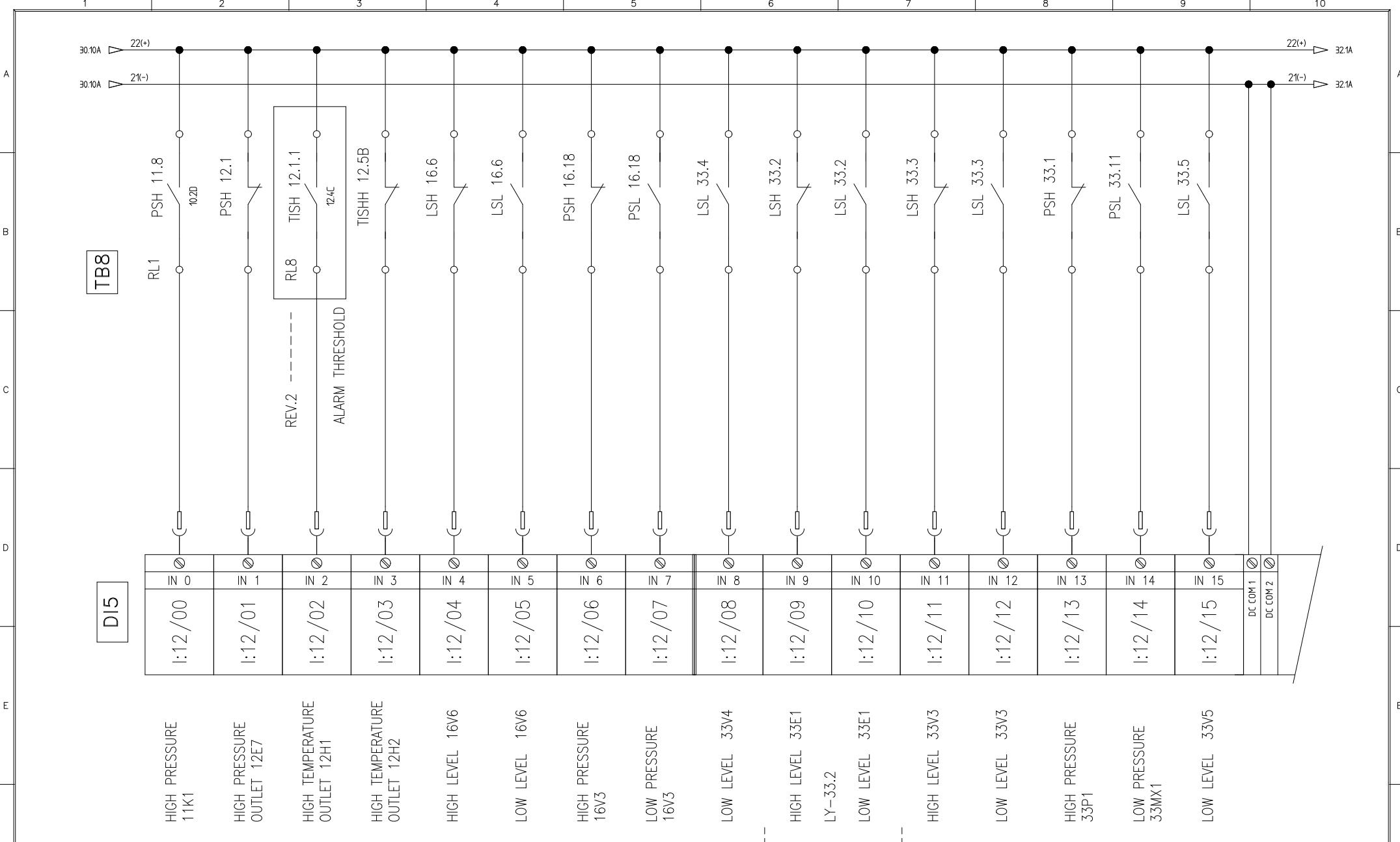


DIGITAL INPUT DI4

Doc. 08039ED01

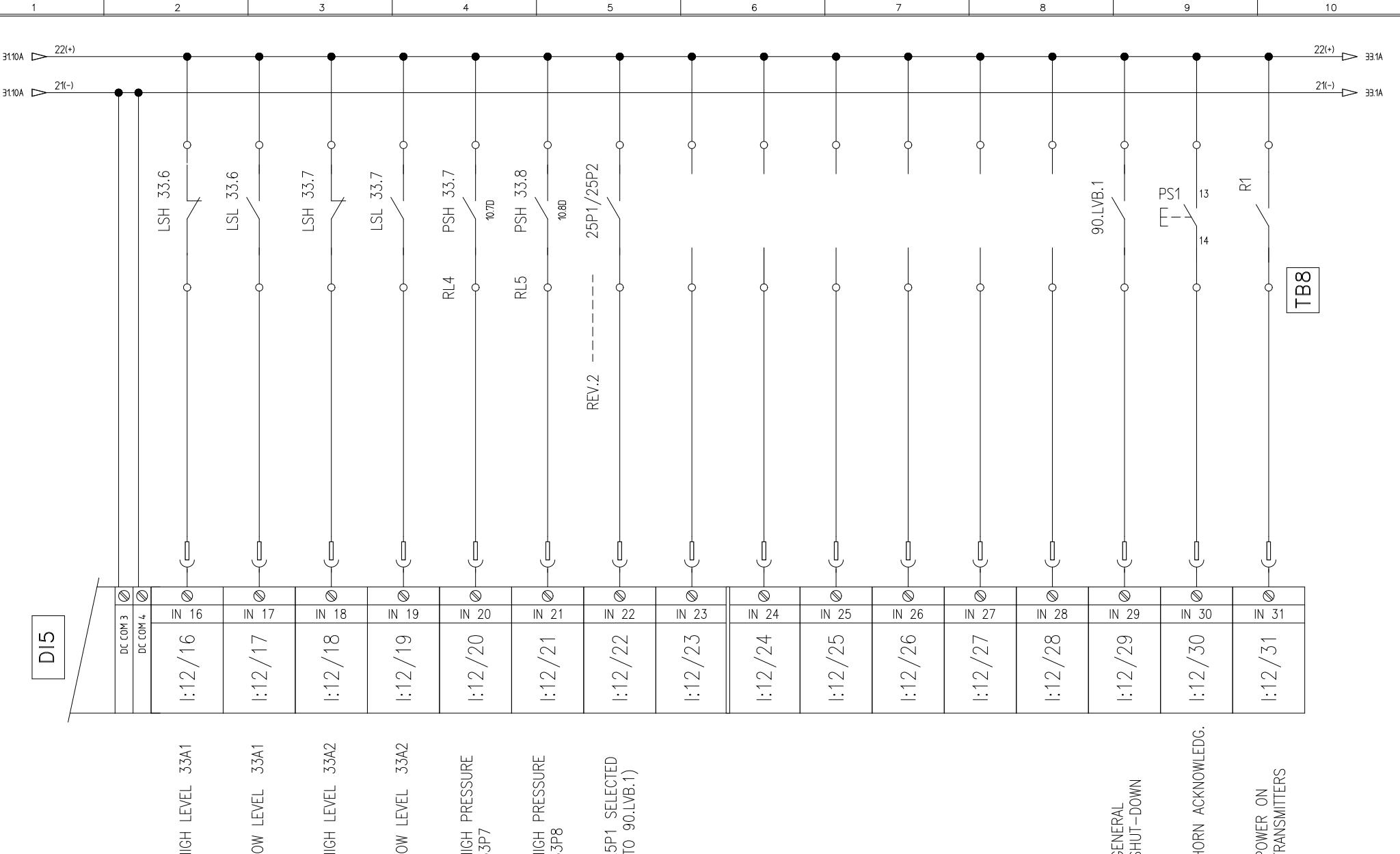
Job: 1E35 1E35 85 0

REV.2



2	ISSUE AFTER TEST	03/2010	GC	date	12/2009	SULPHUREX PLANT	desmet ballstra	DIGITAL INPUT DI5 drawing's title:	Doc. 08039ED01 Job: 1E35 dwg. 1E35.85.001	=
1	ISSUE FOR CONSTRUCTION	01/2010	GC	desig.	GC					+
0	ISSUE FOR APPROVAL	12/2009	GC	check	CM					sheet 31
Rev.	Revision	Date	Name	stand.	SPAC9.1					32 n.sh
2it. DIN 6771/Teil 5 1										FILE: 1E3585001-031

DI5



2	ISSUE AFTER TEST	03/2010	GC	date	12/2009
1	ISSUE FOR CONSTRUCTION	01/2010	GC	desig.	GC
0	ISSUE FOR APPROVAL	12/2009	GC	check	CM
Rev.	Revision	Date	Name	stand.	SPAC9.1

SULPHUREX PLANT



DIGITAL INPUT DI5

drawing's title:

Doc. 08039ED01

Job: 1E35 dwg. 1E35.85.001

POWER ON
TRANSMITTERSGENERAL
SHUT-DOWN

HORN ACKNOWLEDG.

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			date	12/2009
			desig.	GC
0	ISSUE FOR APPROVAL	12/2009	check	CM
Rev.	Revision	Date	Name	stand.

SULPHUREX PLANT



SPARE SHEET

Doc 08039ED01

Job: 1E35 1E35 85 001

sheet 33

2 lt. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:IE3585001-033

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NEXT SHEET : 39

UNI A3					date	12/2009	
					desig.	GC	
0	ISSUE FOR APPROVAL		12/2009	GC	check	CM	
Rev.	Revision	Date	Name	stand.	SPAC9.1		

2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE: 1E3585001-034

SULPHUREX PLANT



SPARE SHEET

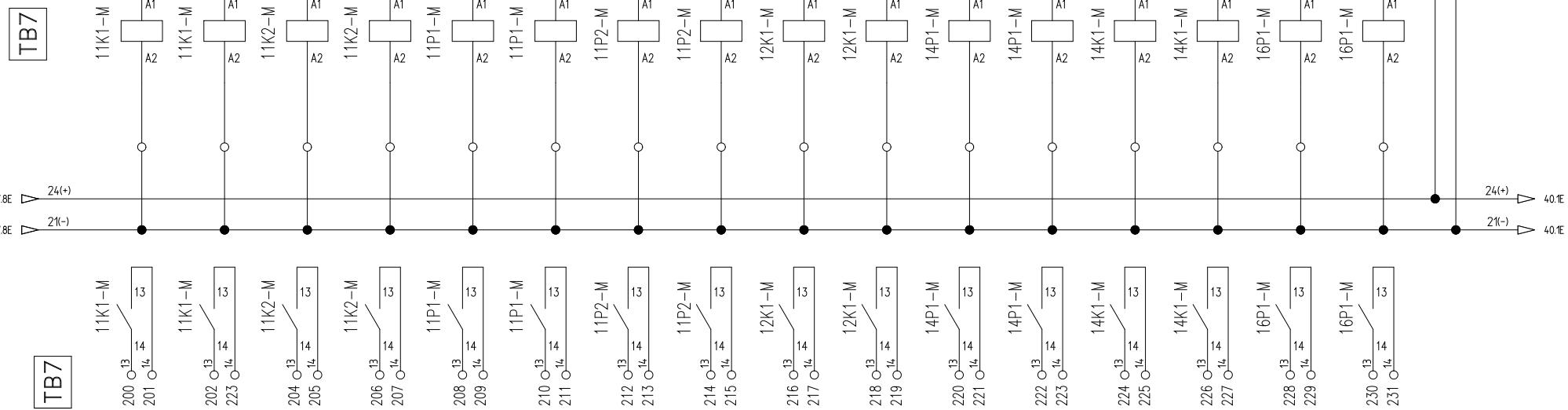
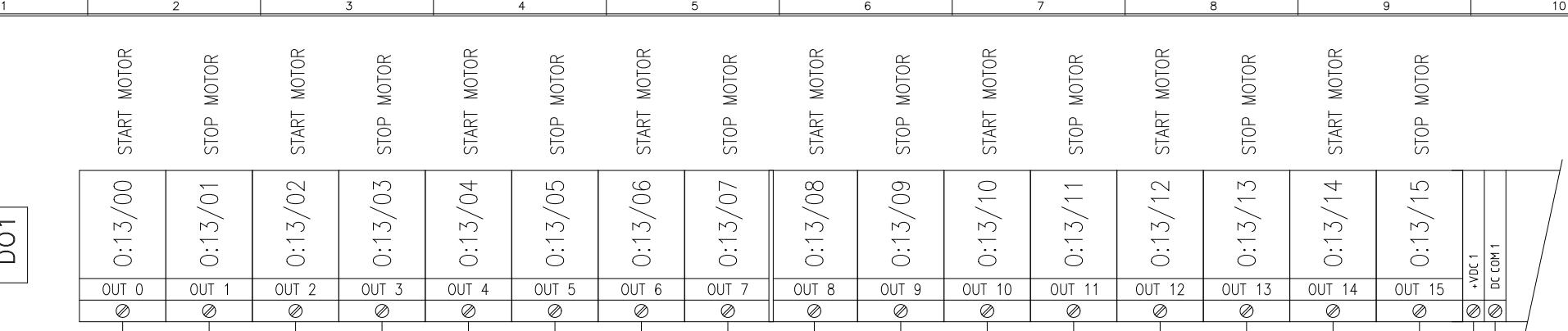
drawing's title:

Doc. 08039ED01

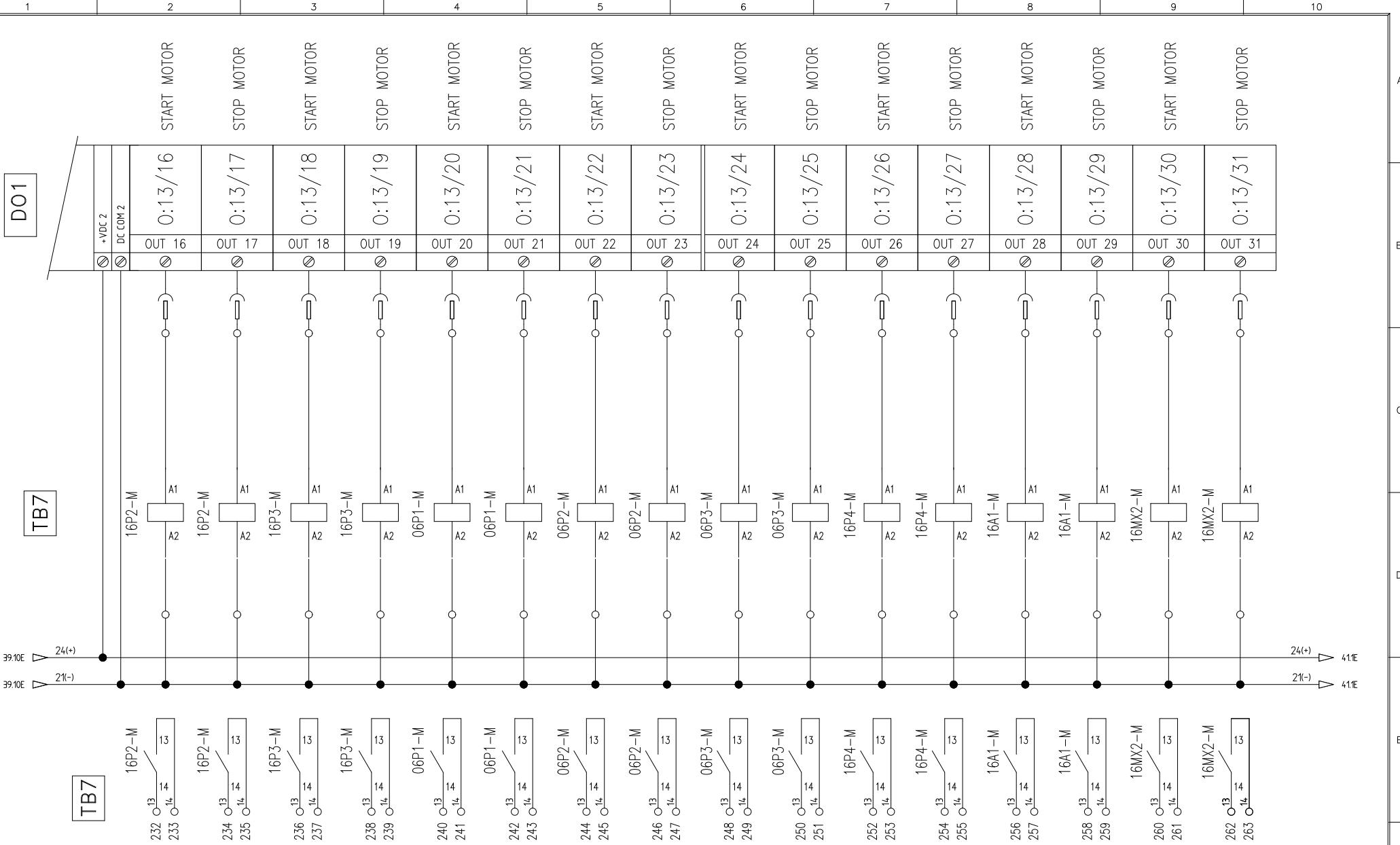
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Job: 1E35 dwg. 1E35.85.001

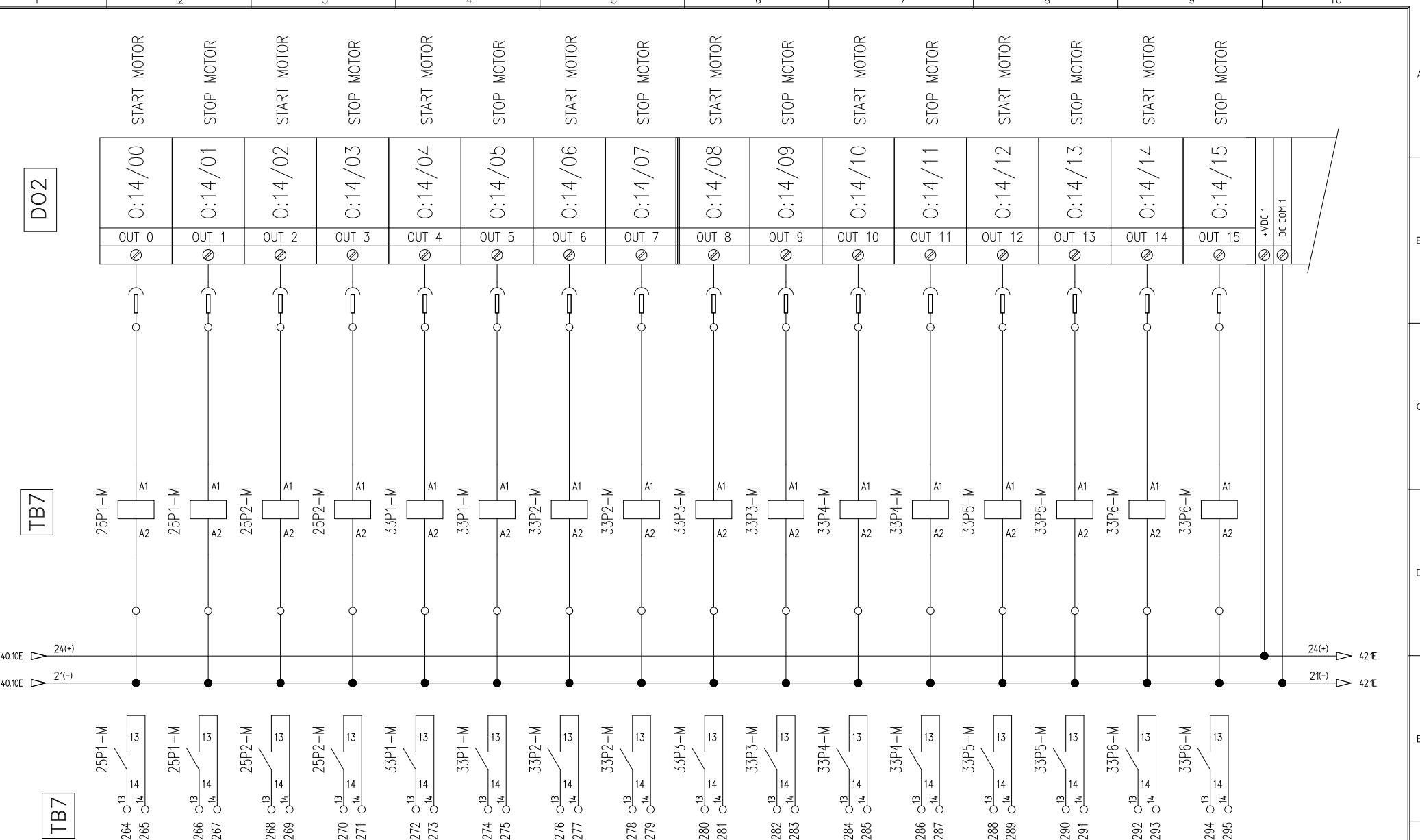
sheet 34
39 n.sh



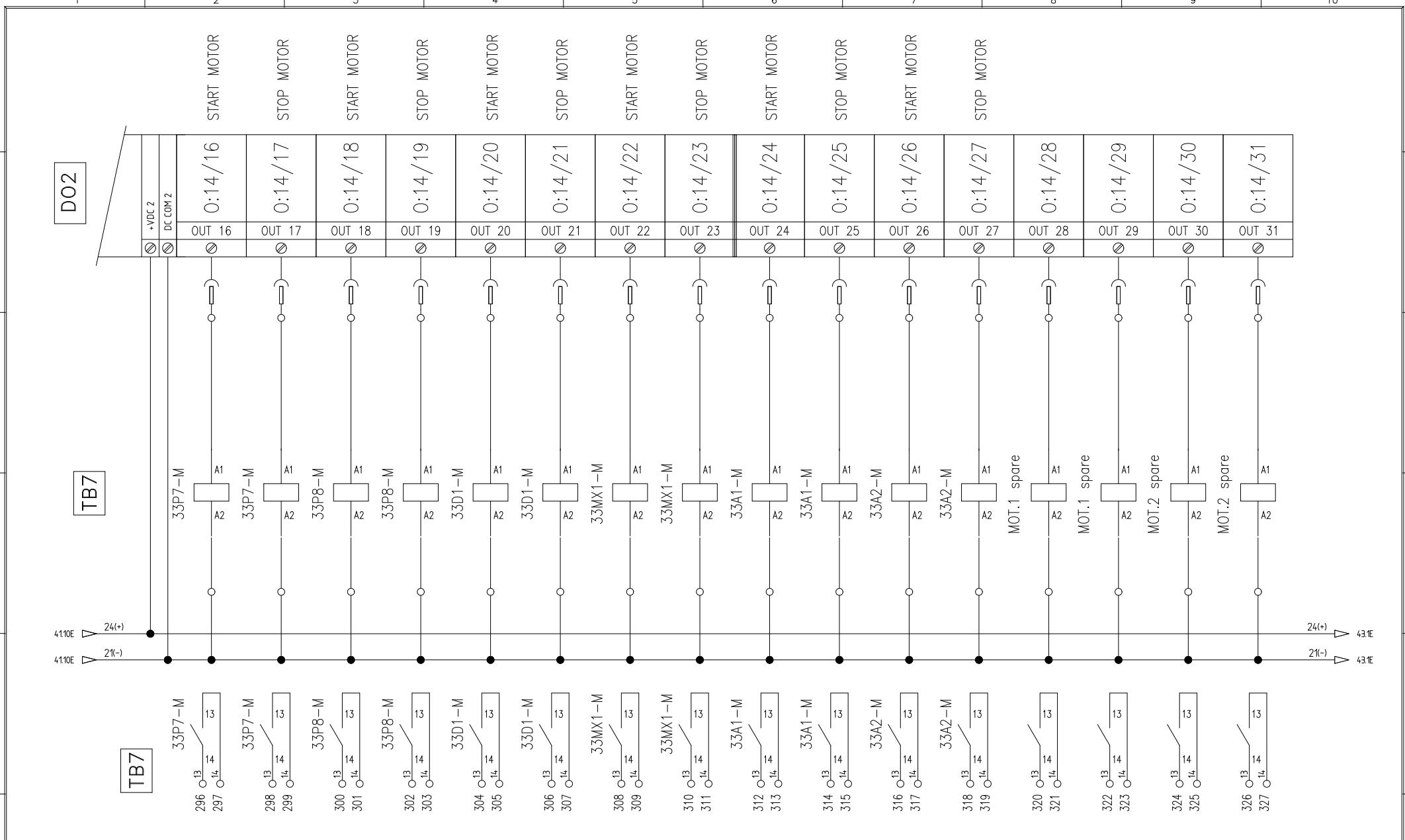
UNI A3	0	ISSUE FOR APPROVAL	date 12/2009	desig. GE	SULPHUREX PLANT	desmet ballestra	DIGITAL OUTPUT DO1	Doc. 08039ED01	=
Rev.	Revision	Date	Name	check CM stand. SPAC9.1	drawing's title:		Job: 1E35	dwg. 1E35.85.001	+ sheet 39 n.sh 40



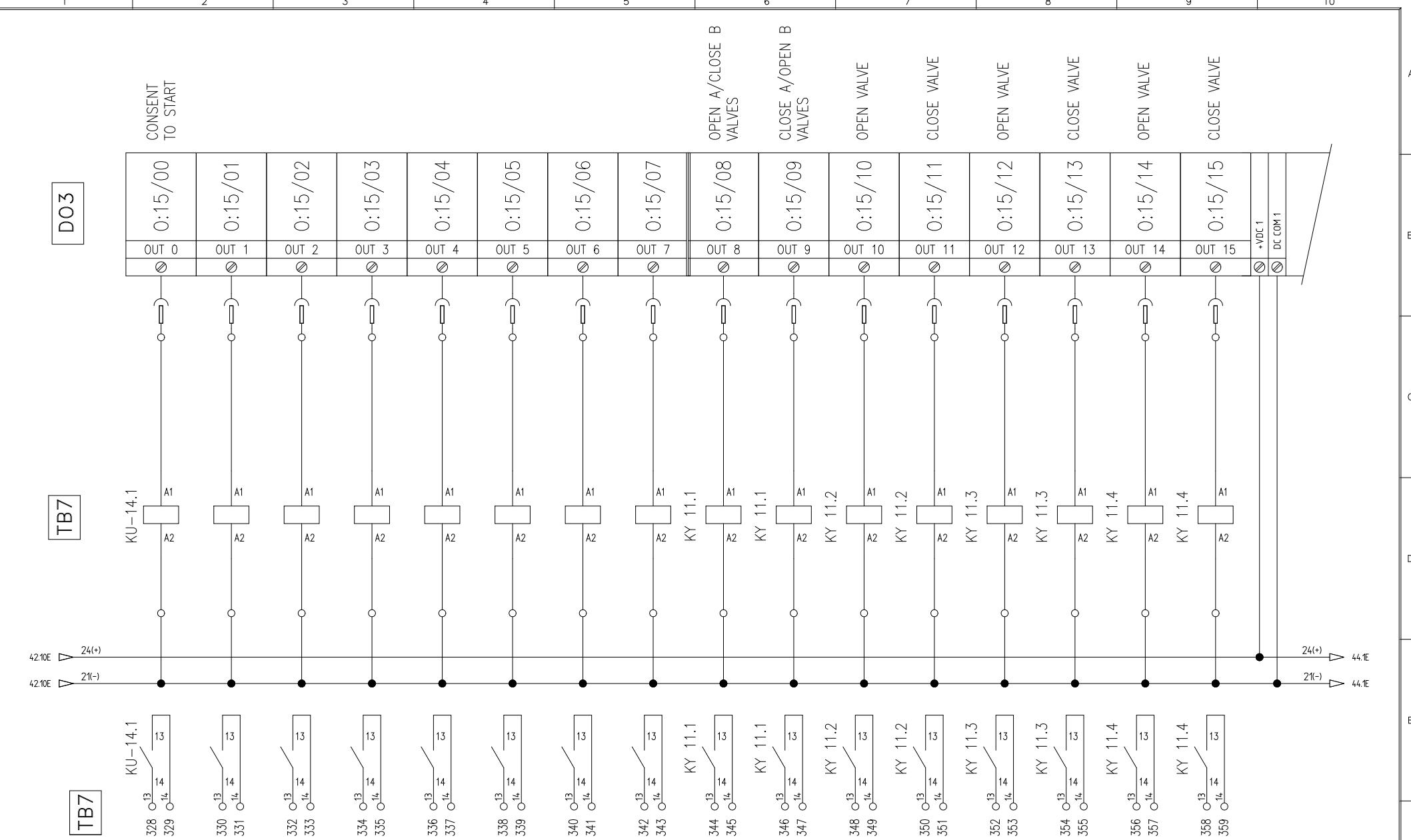
0	ISSUE FOR APPROVAL	12/2009	date	12/2009	desig.	GC	check	CM	stand.	SPAC9.1
Rev.	Revision	Date	Name	stand.						
SULPHUREX PLANT										
desmet ballastra										
2 It. DIN 6771/Teil 5 1							DIGITAL OUTPUT DO1		Doc. 08039ED01	=
							drawing's title:		Job: 1E35	+
									dwg. 1E35.85.001	
										sheet 40 41 n.sh



UNI A3				date 12/2009	SULPHUREX PLANT	 desmet ballast	DIGITAL OUTPUT D02 drawing's title:	Doc. 08039ED01	=	
				desig. GC					+	
0	ISSUE FOR APPROVAL	12/2009	G.C.	check CM				Job: 1E35	sheet 41	
Rev.	Revision	Date	Name	stand: SPAE91				dwg. 1E35.85.001	42 n.sh	
2 lt. DIN 6771/Teil 5	1	2	3	4	5	6	7	8	9	10 FILE:1E3585001-04



UNI A3	0	ISSUE FOR APPROVAL	date 12/2009	desig. GC	SULPHUREX PLANT	digital output D02	Doc. 08039ED01	=
Rev.	Revision	Date	Name	check CM stand. SPAC9.1		drawing's title:	Job: 1E35	+
2it. DIN 6771/Teil 5 1							dwg. 1E35.85.001	sheet 42 43 n.sh
								FILE: 1E3585001-042



UNI A3				date	12/2009
				desig.	GC
	0	ISSUE FOR APPROVAL	12/2009	GC	check CM
Rev.	Revision	Date	Name	stand.	SPAC9.1
2 lt.	DIN 6771/Teil 5	1	2	3	7

SULPHUREX PLANT

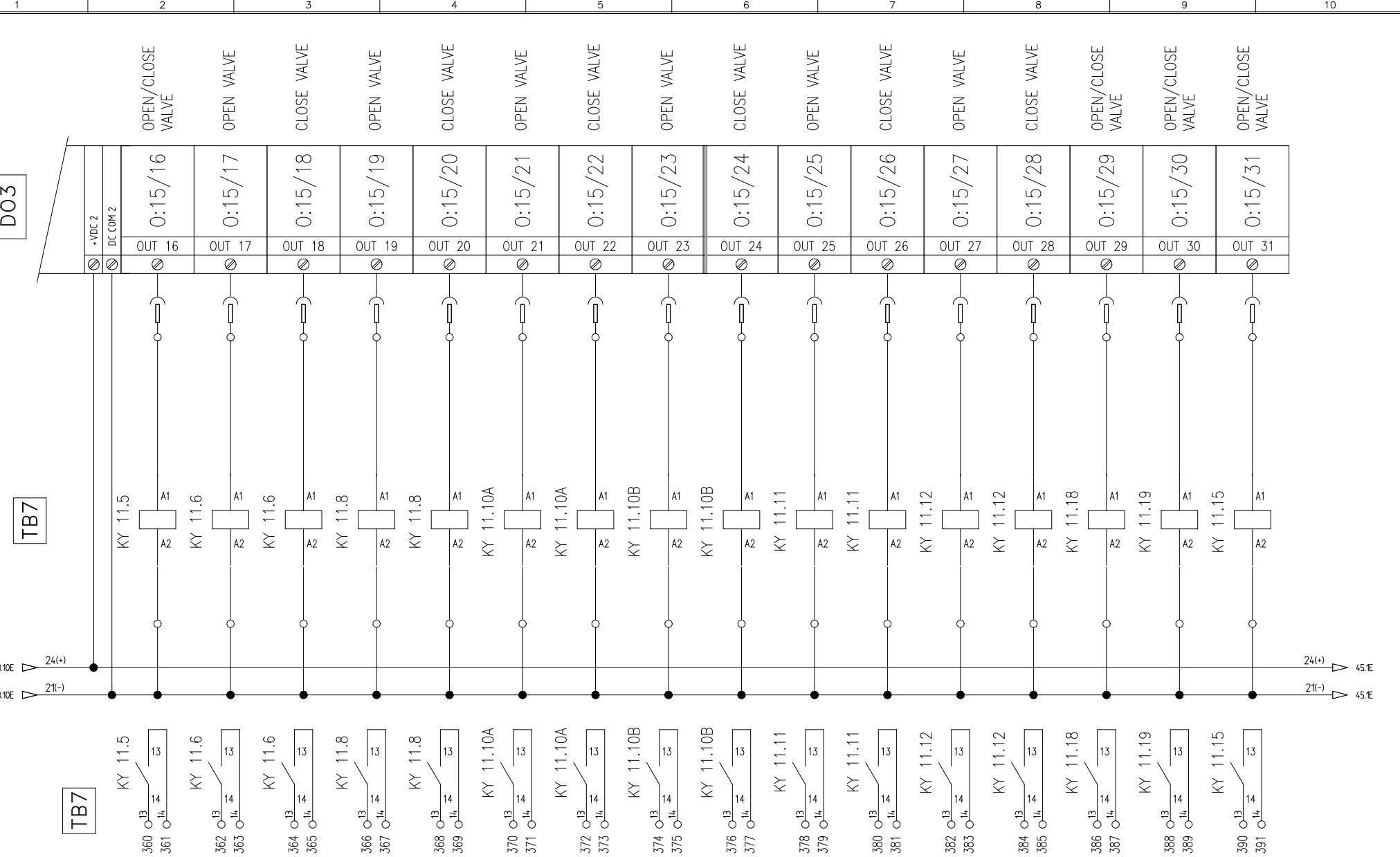


DIGITAL OUTPUT D03

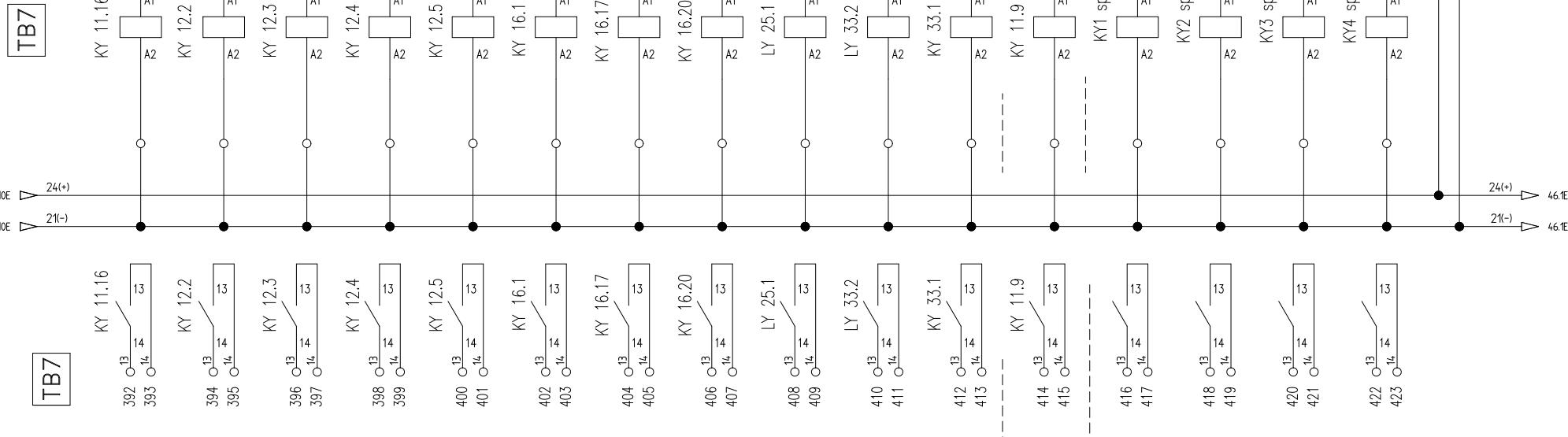
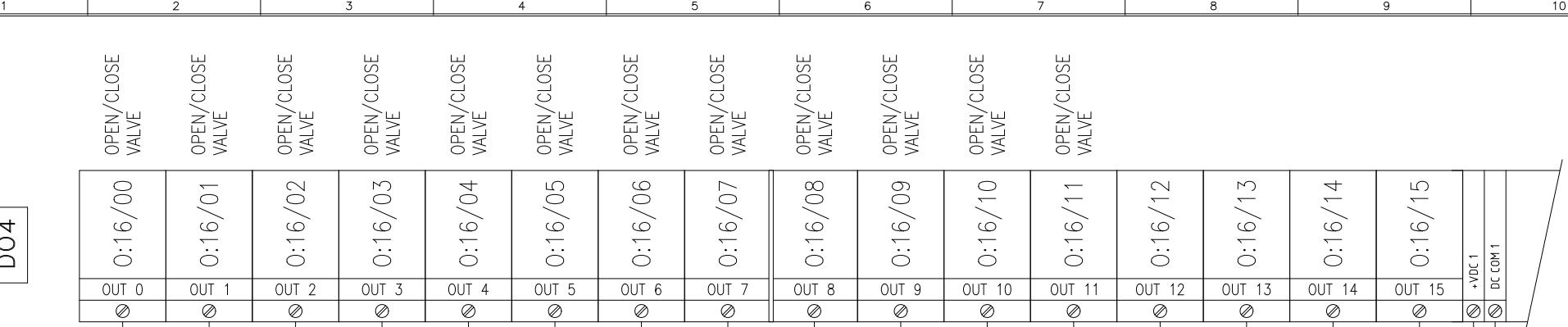
Doc. 08039FD01

Job: 1E35 1E35 85 001

sheet 43
44 n.sh
FILE: 1E3585001-043

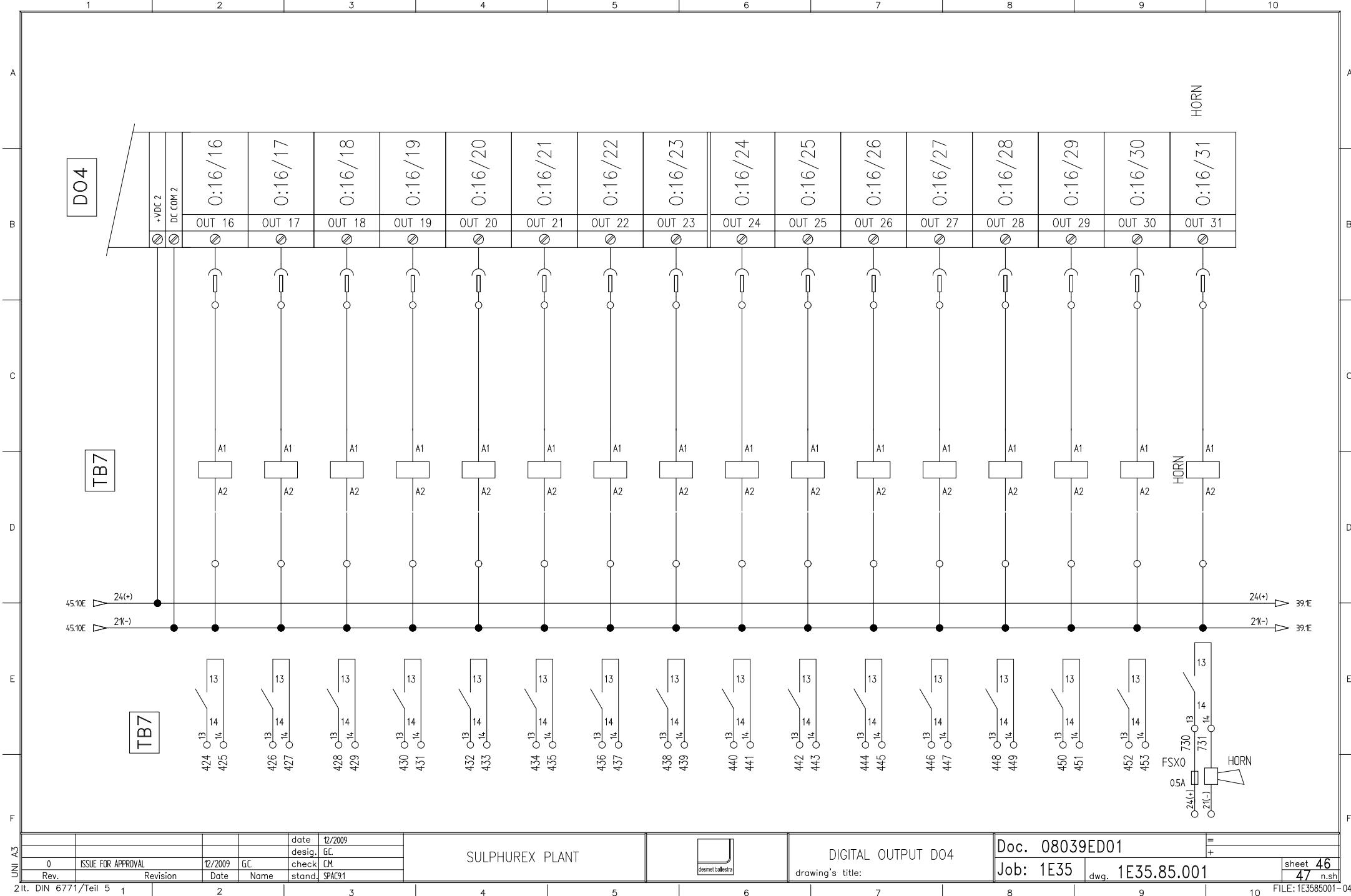


0	ISSUE FOR APPROVAL	12/2009	date	12/2009	desig.	GC	check	CM	doc.	08039ED01	=
Rev.	Revision	Date	Name	stand.	check	CM	stand.	SPAC9.1	Job:	1E35	+
SULPHUREX PLANT											
2 It. DIN 6771/Teil 5 1	2	3	4	5	6	7	8	9	10	FILE: 1E3585001-044	sheet 44 45 n.sh



REV.2

2	ISSUE AFTER TEST	03/2010	G.C.	date 12/2009	SULPHUREX PLANT		DIGITAL OUTPUT DO4	Doc. 08039ED01	=
0	ISSUE FOR APPROVAL	12/2009	G.C.	check CM			drawing's title:	Job: 1E35	+
Rev.	Revision	Date	Name	stand. SPAC9.1				dwg. 1E35.85.001	sheet 45 46 n.sh
2it. DIN 6771/Teil 5 1									FILE:1E3585001-045



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UNI A3					date	12/2009
					desig.	GC
0	ISSUE FOR APPROVAL	12/2009	GC	check	CM	
Rev.	Revision	Date	Name	stand.	SPAC9.1	

2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:1E3585001-047

SULPHUREX PLANT



SPARE SHEET

drawing's title:

Doc. 08039ED01

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Job: 1E35

dwg. 1E35.85.001

sheet 47
48
n.sh

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UNI A3					date	12/2009
					desig.	GC
0	ISSUE FOR APPROVAL	12/2009	GC	check	CM	
Rev.	Revision	Date	Name	stand.	SPAC9.1	

2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:1E3585001-048

SULPHUREX PLANT



SPARE SHEET

drawing's title:

Doc. 08039ED01

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Job: 1E35 dwg. 1E35.85.001

sheet 48
49 n.sh

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10



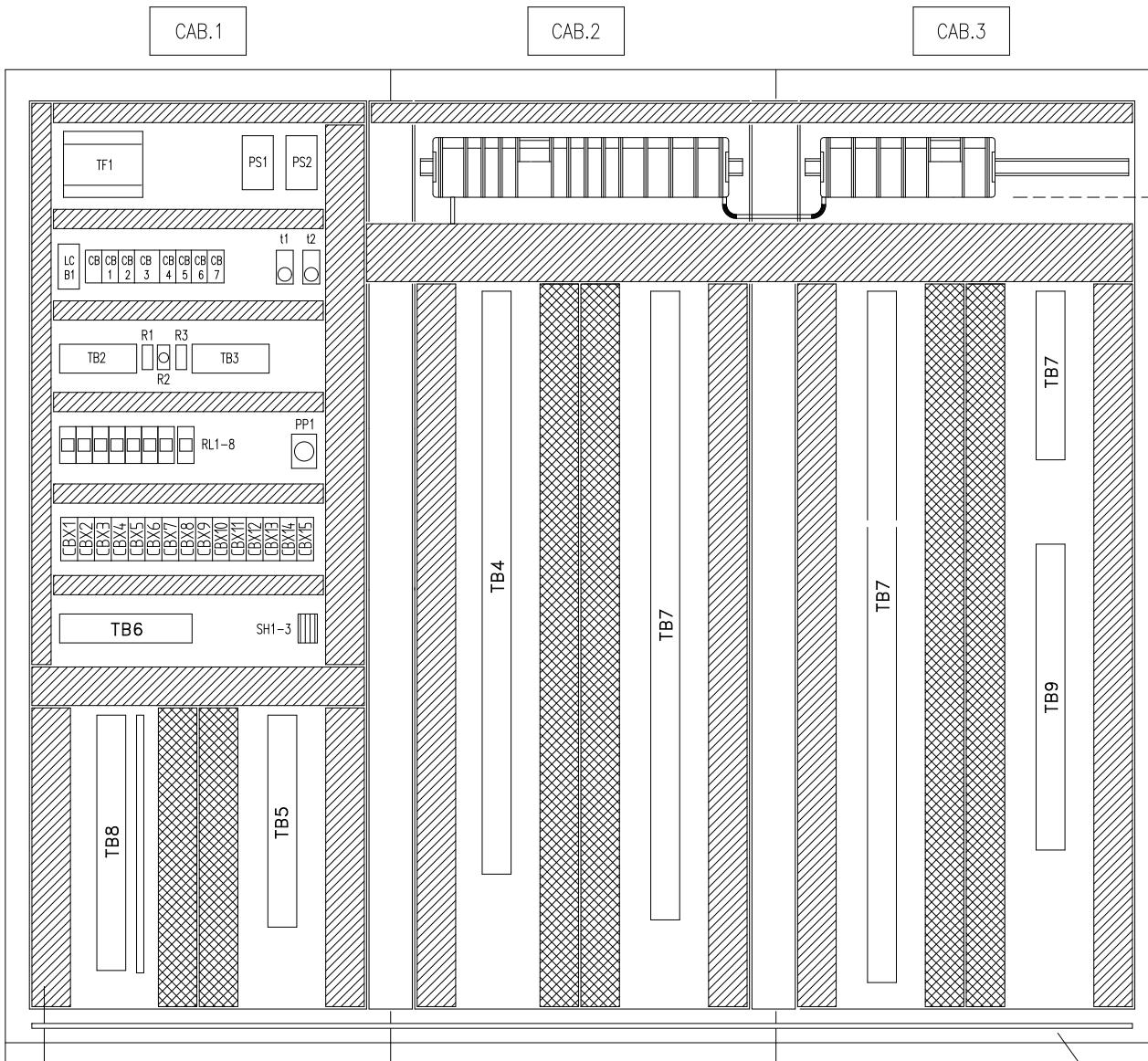
WIRE DUCT
INTERNAL WIRING



WIRE DUCT
SIGNAL FROM/TO FIELD

TERMINAL BLOCK

- TB4 : ANALOG INPUT
- TB5 : ANALOG OUTPUT
- TB7 : DIGITAL I/O
MOTORS & VALVES
- TB8 : DIGITAL INPUT
- TB9 : FEEDING VALVES 110V
- TB6 : FEED. INSTRUMENTS
& INTERLOCKS



2	ISSUE AFTER TEST	03/2010	GC	date	12/2009
1	ISSUE FOR CONSTRUCTION	01/2010	GC	desig.	GC
0	ISSUE FOR APPROVAL	12/2009	GC	check	CM
Rev.	Revision	Date	Name	stand.	SPAC9.1

SULPHUREX PLANT



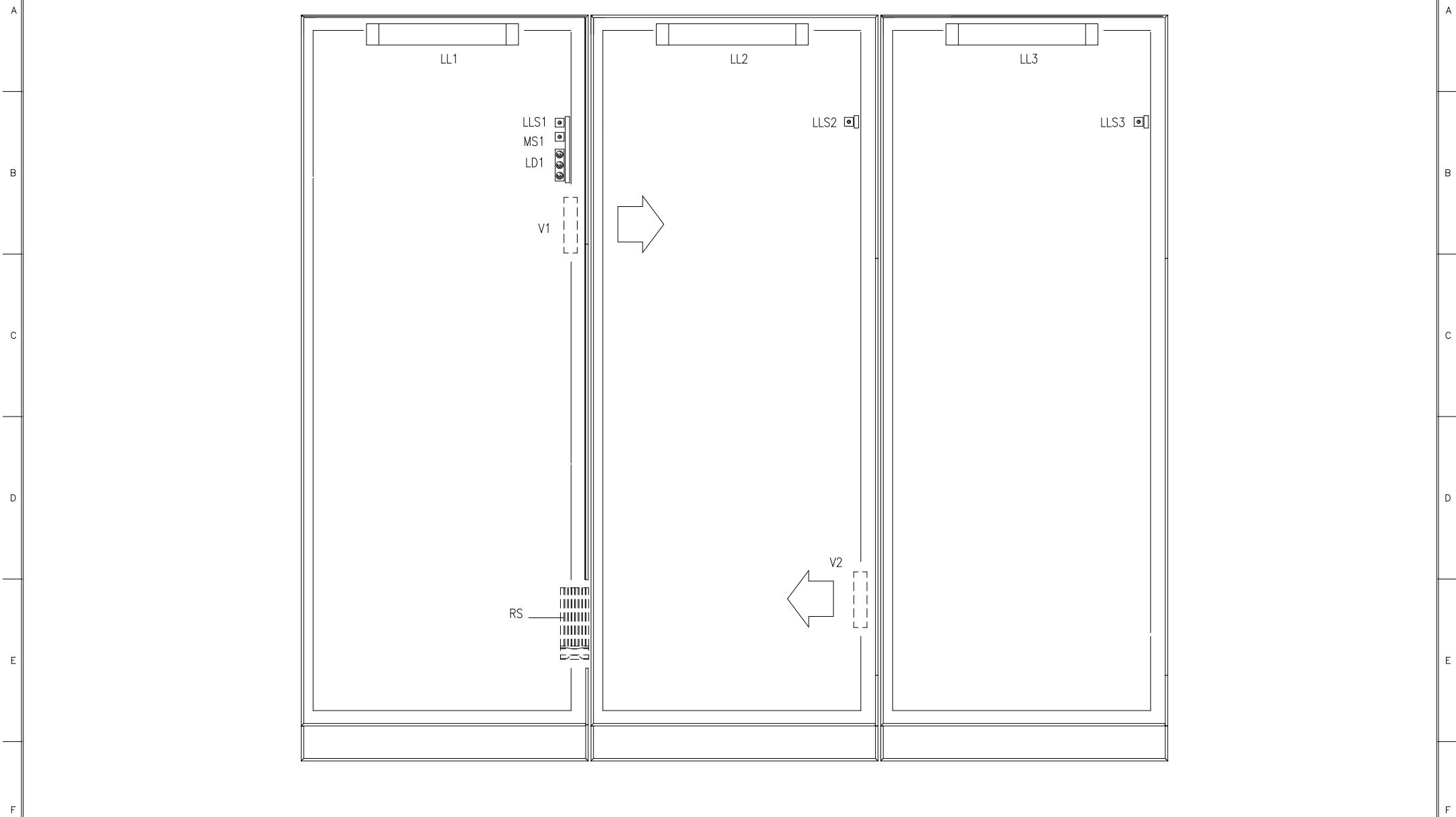
LAYOUT CABINET
drawing's title:

Doc. 08039ED01

Job: 1E35 dwg. 1E35.85.001

sheet 49
50 n.sh

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10



UNI A3											
0	ISSUE FOR APPROVAL	12/2009	date	12/2009	desig.	GC					
Rev.	Revision	Date	Name	check	CM	stand.	SPAC9.1	doc. no.	08039ED01	=	

SULPHUREX PLANT

desmet ballestra

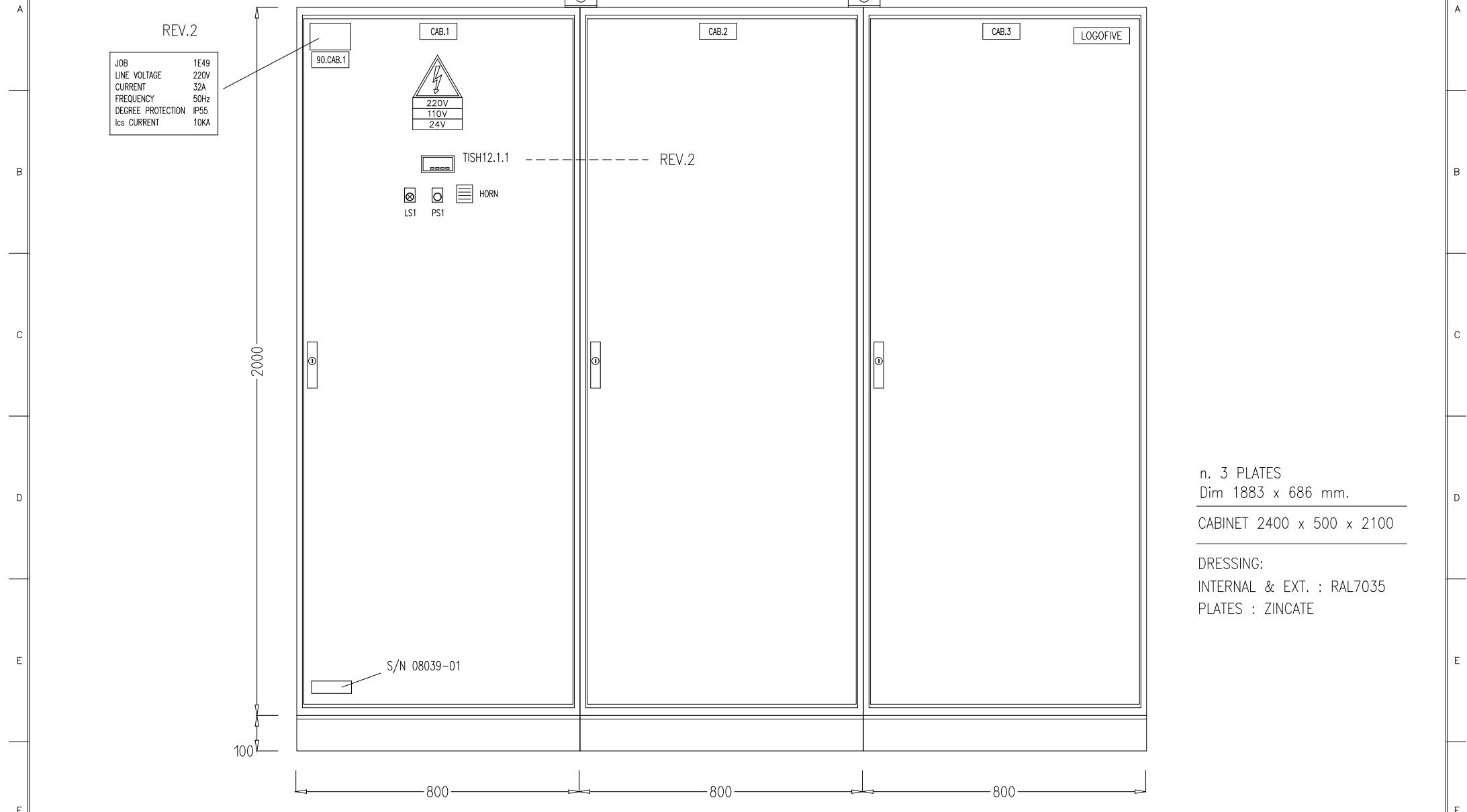
LAYOUT CABINET

drawing's title:

Doc. 08039ED01 =
Job: 1E35 +
dwg. 1E35.85.001 sheet 50
51 n.sh

FILE: 1E3585001-050

1 2 3 4 5 6 7 8 9 10



2	ISSUE AFTER TEST	03/2010	GC	date	12/2009
1	ISSUE FOR CONSTRUCTION	01/2010	GC	desig.	GC
0	ISSUE FOR APPROVAL	12/2009	GC	check	CM
Rev.	Revision	Date	Name	stand.	SPAC9.1

SULPHUREX PLANT



AYOUT CABINET
drawing's title:

Doc. 08039ED01

Job: 1E35 dwg. 1E35.85.001

sheet 51
52 n.sh

2it. DIN 6771/Teil 5 1 2 3 4 5 6 7 8 9 10 FILE: 1E3585001-052

1 2 3 4 5 6 7 8 9 10

DIGITAL I/O MOTORS
TERMINAL BLOCK

TB7 (CAB.2)

21	○	232	21	○	200
13.16	○	233	13.00	○	201
21	○	234	21	○	202
13.17	○	235	13.01	○	203
22	○	8.16	16P2-M	22	○
○	○	8.17	○	○	○
21	○	236	21	○	204
13.18	○	237	13.02	○	205
21	○	238	21	○	206
13.19	○	239	13.03	○	207
22	○	8.18	16P3-M	22	○
○	○	8.19	○	○	○
21	○	240	21	○	208
13.20	○	241	13.04	○	209
21	○	242	21	○	210
13.21	○	243	13.05	○	211
22	○	8.20	06P1-M	22	○
○	○	8.21	○	○	○
21	○	244	21	○	212
13.22	○	245	13.06	○	213
21	○	246	21	○	214
13.23	○	247	13.07	○	215
22	○	8.22	06P2-M	22	○
○	○	8.23	○	○	○
21	○	248	21	○	216
13.24	○	249	13.08	○	217
21	○	250	21	○	218
13.25	○	251	13.09	○	219
22	○	8.24	06P3-M	22	○
○	○	8.25	○	○	○
21	○	252	21	○	220
13.26	○	253	13.10	○	221
21	○	254	21	○	222
13.27	○	255	13.11	○	223
22	○	8.26	16P4-M	22	○
○	○	8.27	○	○	○
21	○	256	21	○	224
13.28	○	257	13.12	○	225
21	○	258	21	○	226
13.29	○	259	13.13	○	227
22	○	8.28	16A1-M	22	○
○	○	8.29	○	○	○
21	○	260	21	○	228
13.30	○	261	13.14	○	229
21	○	262	21	○	230
13.31	○	263	13.15	○	231
22	○	8.30	16W2-M	22	○
○	○	8.31	○	○	○

UNI A3	date 12/2009	desig. GE	SULPHUREX PLANT	desmet balestra	TERMINAL BLOCK MOTORS TB7	Doc. 08039ED01	=
0	ISSUE FOR APPROVAL	12/2009	GE	check CM	drawing's title:	Job: 1E35	+
Rev.	Revision	Date	Name	stand. SPAC9.1		dwg. 1E35.85.001	sheet 52 53 n.sh

2it. DIN 6771/Teil 5 1 2 3 4 5 6 7 8 9 10 FILE:1E3585001-052

1 2 3 4 5 6 7 8 9 10

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21	○	○	296			21	○	○	264			14.16	○	○	297			14.00	○	○	265	
21	○	○	298			21	○	○	266			14.17	○	○	299	33P7-M		14.01	○	○	267	
22	○	○	9.16	○	○	22	○	○	9.00	○	○		○	○	9.17	○	○	14.02	○	○	268	
21	○	○	300			21	○	○	269			14.18	○	○	301			14.03	○	○	270	
21	○	○	302			22	○	○	271			14.19	○	○	303	33P8-M		14.04	○	○	272	
22	○	○	9.18	○	○	21	○	○	273				○	○	9.19	○	○	14.05	○	○	274	
21	○	○	304			21	○	○	275			14.20	○	○	305			14.06	○	○	276	
21	○	○	306			22	○	○	277			14.21	○	○	307	33D1-M		14.07	○	○	278	
22	○	○	9.20	○	○	21	○	○	279				○	○	9.21	○	○	14.08	○	○	280	
21	○	○	308			22	○	○	281			14.22	○	○	309			14.09	○	○	282	
21	○	○	310			21	○	○	283			14.23	○	○	311	33MX1-M		14.10	○	○	284	
22	○	○	9.22	○	○	22	○	○	285				○	○	9.23	○	○	14.11	○	○	286	
21	○	○	312			21	○	○	287			14.24	○	○	313			22	○	○	288	
21	○	○	314			21	○	○	289			14.25	○	○	315	33A1-M		14.12	○	○	289	
22	○	○	9.24	○	○	21	○	○	290				○	○	9.25	○	○	14.13	○	○	291	
21	○	○	316			22	○	○	291			14.26	○	○	317			21	○	○	292	
21	○	○	318			21	○	○	293			14.27	○	○	319	33A2-M		14.14	○	○	293	
22	○	○	9.26	○	○	22	○	○	294				○	○	9.27	○	○	14.15	○	○	294	
21	○	○	320			21	○	○	295			14.28	○	○	321			21	○	○	295	
21	○	○	322			21	○	○	296			14.29	○	○	323	MOT.1 spare		14.16	○	○	296	
22	○	○	9.28	○	○	22	○	○	297				○	○	9.29	○	○	14.30	○	○	297	
21	○	○	324			21	○	○	298			14.31	○	○	325			14.17	○	○	298	
21	○	○	326			22	○	○	299				○	○	9.30	○	○	14.32	○	○	299	
22	○	○	9.31	○	○	22	○	○	300				○	○	9.31	○	○	14.33	○	○	300	

DIGITAL I/O MOTORS
TERMINAL BLOCK

TB7

(CAB.2)

(CAB.3)

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

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DIGITAL OUT VALVES
TERMINAL BLOCK

TB7 (CAB.3)

TO TB9 - 110VAC VALVES - Sheet 60

21	○	○	328
15.00	○	○	329
22	○	○	1000
	○	○	1001
	○	○	KU-14.1
22	○	○	1002
	○	○	1003
	○	○	KU-11.1
22	○	○	1004
	○	○	1005
	○	○	BK-12.1
22	○	○	1006
	○	○	1007
	○	○	KU-12.1
21	○	○	330
15.01	○	○	SPARE
21	○	○	331
15.02	○	○	332
21	○	○	333
15.03	○	○	334
21	○	○	335
15.04	○	○	337
21	○	○	338
15.05	○	○	339
21	○	○	340
15.06	○	○	341
21	○	○	342
15.07	○	○	343
21	○	○	344
15.08	○	○	KY 11.1
21	○	○	345
15.09	○	○	KY 11.2
21	○	○	346
15.10	○	○	KY 11.3
21	○	○	347
15.11	○	○	348
21	○	○	349
15.12	○	○	KY 11.4
21	○	○	350
15.13	○	○	351
21	○	○	352
15.14	○	○	353
21	○	○	354
15.15	○	○	355
21	○	○	356
15.29	○	○	357
21	○	○	358
15.30	○	○	359
21	○	○	KY 11.15
15.31	○	○	391

TO TB9 - 110VAC VALVES - Sheet 61

21	○	○	360
15.16	○	○	KY 11.5
21	○	○	362
15.17	○	○	363
21	○	○	KY 11.6
15.18	○	○	364
21	○	○	365
15.19	○	○	366
21	○	○	367
21	○	○	KY 11.8
15.20	○	○	368
21	○	○	369
15.21	○	○	370
21	○	○	371
21	○	○	KY 11.10A
15.22	○	○	372
21	○	○	373
21	○	○	374
15.23	○	○	375
21	○	○	KY 11.10B
15.24	○	○	376
21	○	○	377
15.25	○	○	378
21	○	○	379
21	○	○	KY 11.11
15.26	○	○	380
21	○	○	381
15.27	○	○	382
21	○	○	383
21	○	○	KY 11.12
15.28	○	○	384
21	○	○	385
15.29	○	○	386
21	○	○	KY 11.18
21	○	○	387
15.30	○	○	388
21	○	○	KY 11.19
15.31	○	○	389
21	○	○	390
15.31	○	○	KY 11.15

SULPHUREX PLANT



TERM. BLOCK OUT VALVES TB7
drawing's title:

Doc. 08039ED01

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Job: 1E35 dwg. 1E35.85.001

sheet 54
55
n.s.h.

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DIGITAL OUT VALVES
TERMINAL BLOCK

TB7 (CAB.3)

TO TB9 - 110VAC VALVES - Sheet 62

REV.2

21	○	392	KY 11.16
16.00	○	393	
21	○	394	KY 12.2
16.01	○	395	
21	○	396	KY 12.3
16.02	○	397	
21	○	398	KY 12.4
16.03	○	399	
21	○	400	KY 12.5
16.04	○	401	
21	○	402	KY 16.1
16.05	○	403	
21	○	404	KY 16.17
16.06	○	405	
21	○	406	KY 16.20
16.07	○	407	
21	○	408	LY 25.1
16.08	○	409	
21	○	410	LY 33.2
16.09	○	411	
21	○	412	KY 33.1
16.10	○	413	
21	○	414	KY 11.9
16.11	○	415	
21	○	416	KY1 spare
16.12	○	417	
21	○	418	KY2 spare
16.13	○	419	
21	○	420	KY3 spare
16.14	○	421	
21	○	422	KY4 spare
16.15	○	423	

SPARE

21 ○ 424
16.16 ○ 425
21 ○ 426
16.17 ○ 427
21 ○ 428
16.18 ○ 429
21 ○ 430
16.19 ○ 431
21 ○ 432
16.20 ○ 433
21 ○ 434
16.21 ○ 435
21 ○ 436
16.22 ○ 437
21 ○ 438
16.23 ○ 439
21 ○ 440
16.24 ○ 441
21 ○ 442
16.25 ○ 443
21 ○ 444
16.26 ○ 445
21 ○ 446
16.27 ○ 447
21 ○ 448
16.28 ○ 449
21 ○ 450
16.29 ○ 451
21 ○ 452 SPARE
16.30 ○ 453

SULPHUREX PLANT



TERM. BLOCK OUT VALVES TB7
drawing's title:

Doc. 08039ED01

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Job: 1E35 dwg. 1E35.85.001

sheet 55
56 n.sh

2	ISSUE AFTER TEST	03/2010	G.C.	date	12/2009	
0	ISSUE FOR APPROVAL	12/2009	G.C.	check	CM	
Rev.	Revision	Date	Name	stand.	SPAC9.1	

2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:1E3585001-055

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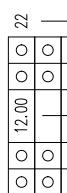
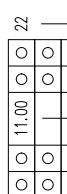
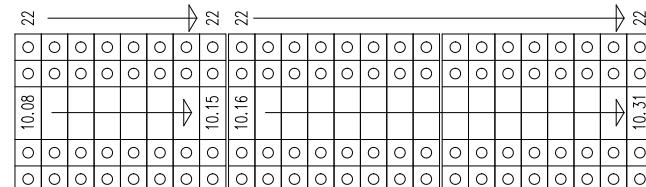
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DIGITAL INPUT
TERMINAL BLOCK

TB8 (CAB.1)

REV.2



2	ISSUE AFTER TEST	03/2010	G.C.	date	12/2009
0	ISSUE FOR APPROVAL	12/2009	G.C.	check	CM
Rev.	Revision	Date	Name	stand.	SPAC9.1

SULPHUREX PLANT



TERM. BLOCK DIGITAL IN TB8
drawing's title:

Doc. 08039ED01

Job: 1E35 dwg. 1E35.85.001

sheet 56
57 n.sh

2it. DIN 6771/Teil 5 1

10

FILE: 1E3585001-056

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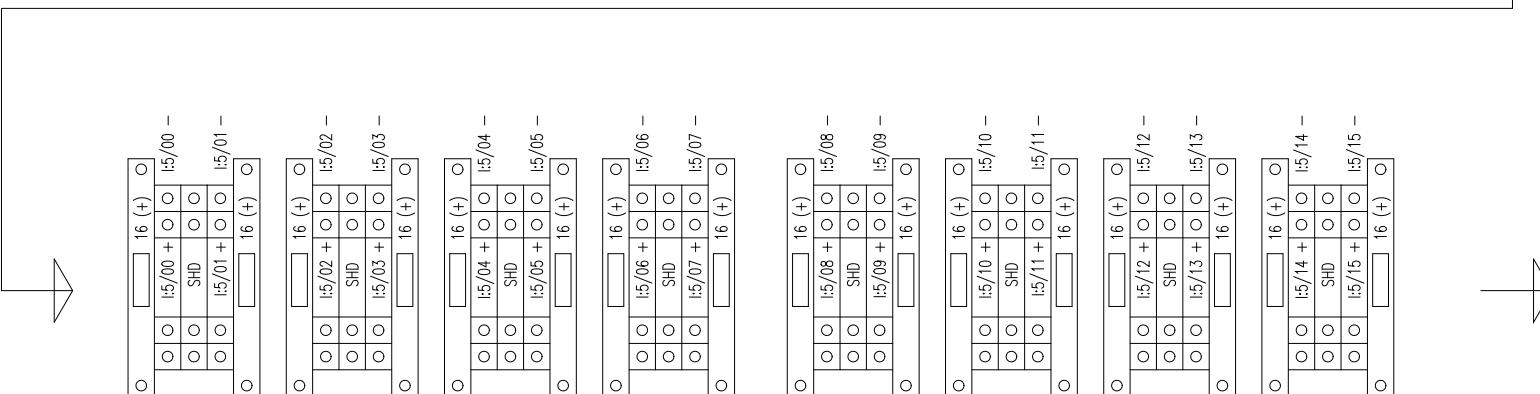
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UNI A3							
0	ISSUE FOR APPROVAL	12/2009	GC	check CM	date 12/2009	desig. GC	
Rev.	Revision	Date	Name	stand. SPAC9.1	stand. SPAC9.1	check CM	

2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:1E3585001-057

SULPHUREX PLANT



TERM. BLOCK ANALOG IN TB4
drawing's title:

Doc. 08039ED01

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Job: 1E35 dwg. 1E35.85.001

sheet 57
58 n.sh

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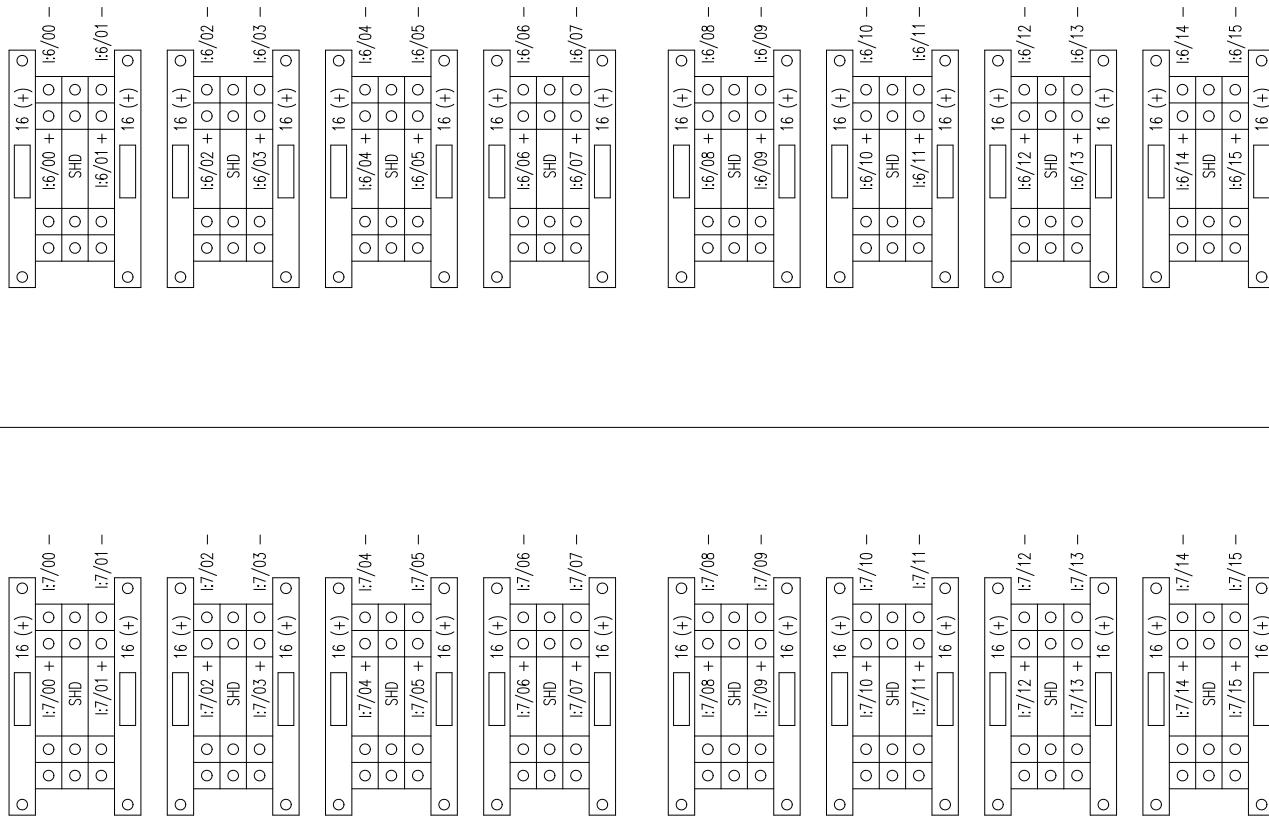
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ANALOG INPUT
TERMINAL BLOCK

TB4 (CAB.2)



UNI A3							
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Rev.	Revision	Date	Name	check CM	stand. SPAC9.1		

2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE: 1E3585001-058

SULPHUREX PLANT



TERM. BLOCK ANALOG IN TB4
drawing's title:

Doc. 08039ED01

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Job: 1E35 dwg. 1E35.85.001

sheet 58
59 n.sh

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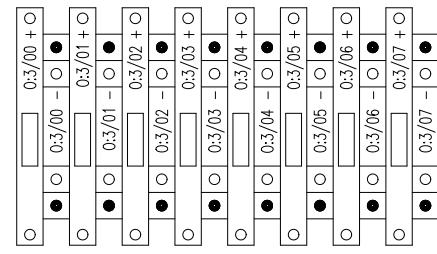
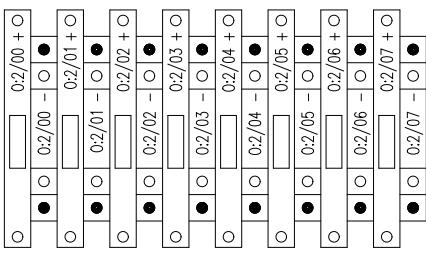
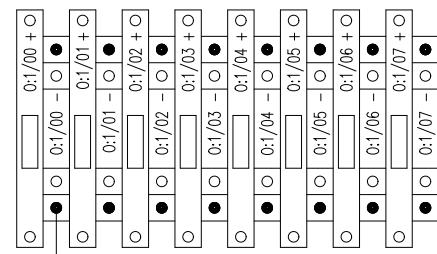
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ANALOG OUTPUT
TERMINAL BLOCK

TB5 (CAB.1)



UNI A3

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12/2009

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SPAC9.1

Rev.

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ISSUE FOR APPROVAL

Revision

Date

Name

SULPHUREX PLANT



TERM. BLOCK ANALOG OUT TB5
drawing's title:

Doc. 08039ED01

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Job: 1E35 dwg. 1E35.85.001

sheet 59

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n.sh

2it. DIN 6771/Teil 5 1

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FILE: 1E3585001-059

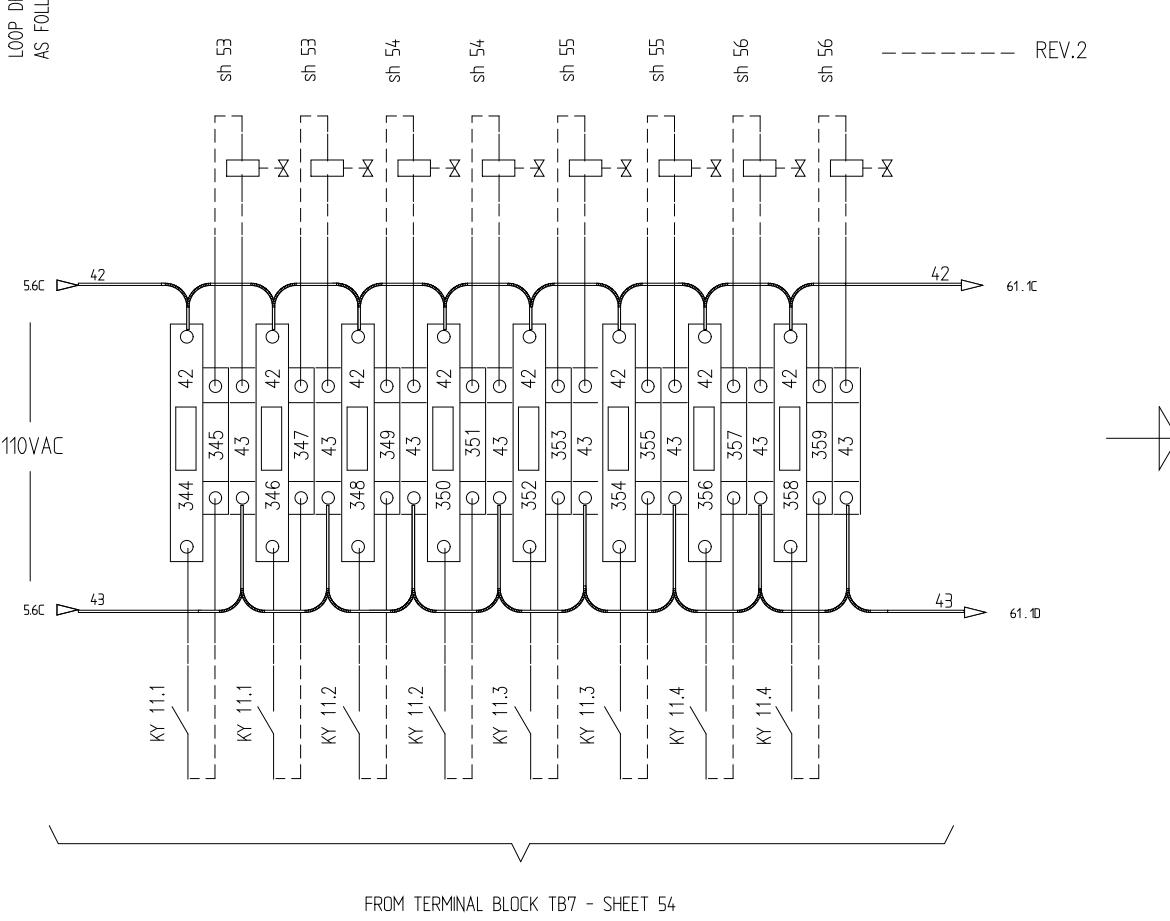
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

TERMINAL BLOCK
FEEDING VALVES

TB9 (CAB.3)

SEE DWG. 1E35.85.002
LOOP DRAWINGS
AS FOLLOW

110VAC FEEDING VALVES ON FIELD



FROM TERMINAL BLOCK TB7 - SHEET 54

2	ISSUE AFTER TEST	03/2010	G.C.	date	12/2009		SULPHUREX PLANT	desmet ballestra	TERMINAL BLOCK VALVES TB9	Doc. 08039ED01	=
0	ISSUE FOR APPROVAL	12/2009	G.C.	check	CM					Job: 1E35	+
Rev.	Revision	Date	Name	stand.	SPAC9.1					dwg. 1E35.85.001	sheet 60 61 n.sh

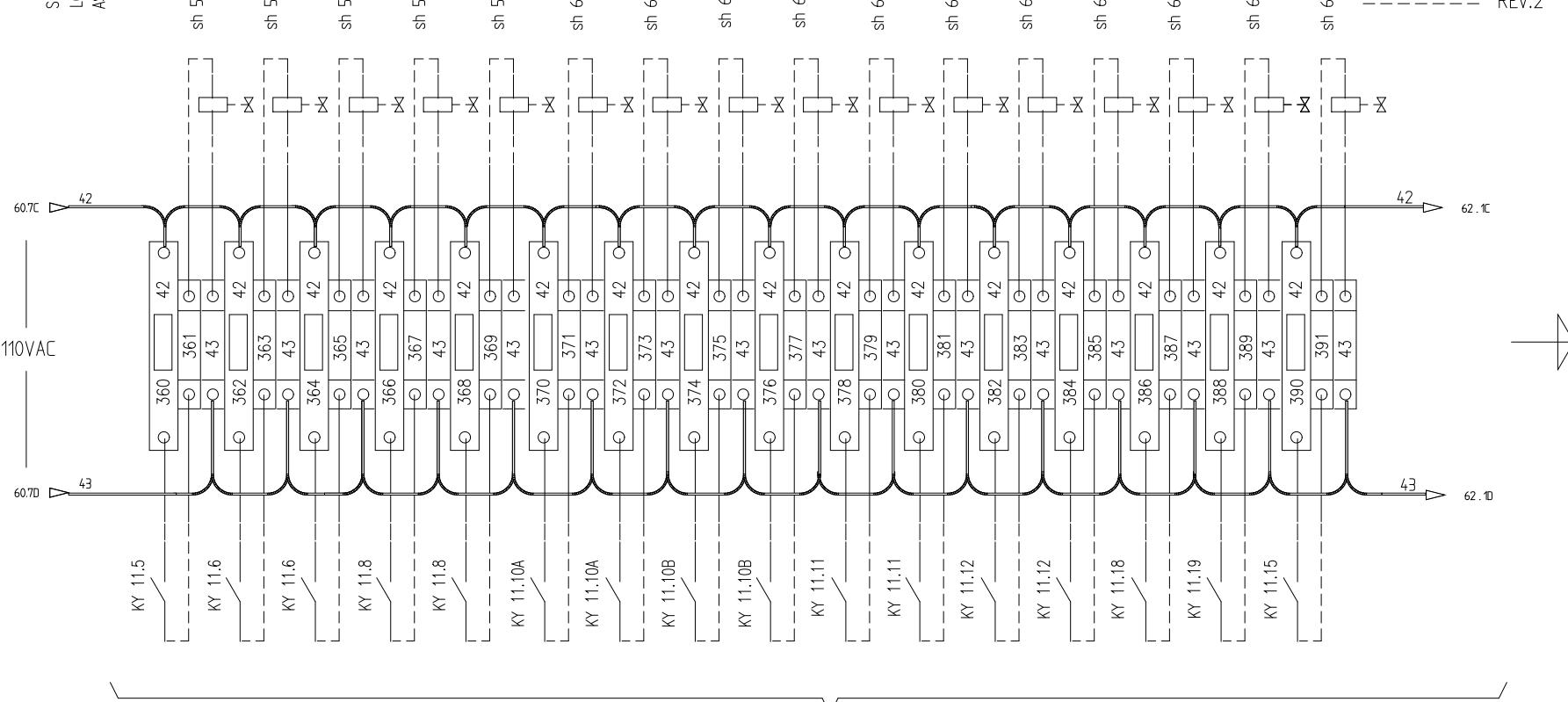
2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE: 1E3585001-060

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TERMINAL BLOCK
FEEDING VALVES

TB9 (CAB.3)

SEE DWG. 1E35.85.002
LOOP DRAWINGS
AS FOLLOW



2	ISSUE AFTER TEST	03/2010	G.C.	date 12/2009		SULPHUREX PLANT	desmet ballestra	TERMINAL BLOCK VALVES TB9 drawing's title:	Doc. 08039ED01 Job: 1E35 dwg. 1E35.85.001	=
0	ISSUE FOR APPROVAL	12/2009	G.C.	check CM						+
Rev.	Revision	Date	Name	stand. SPAC9.1						sheet 61 62 n.sh
2 It.	DIN 6771/Teil 5 1	2	2	2	2					FILE: 1E3585001-061

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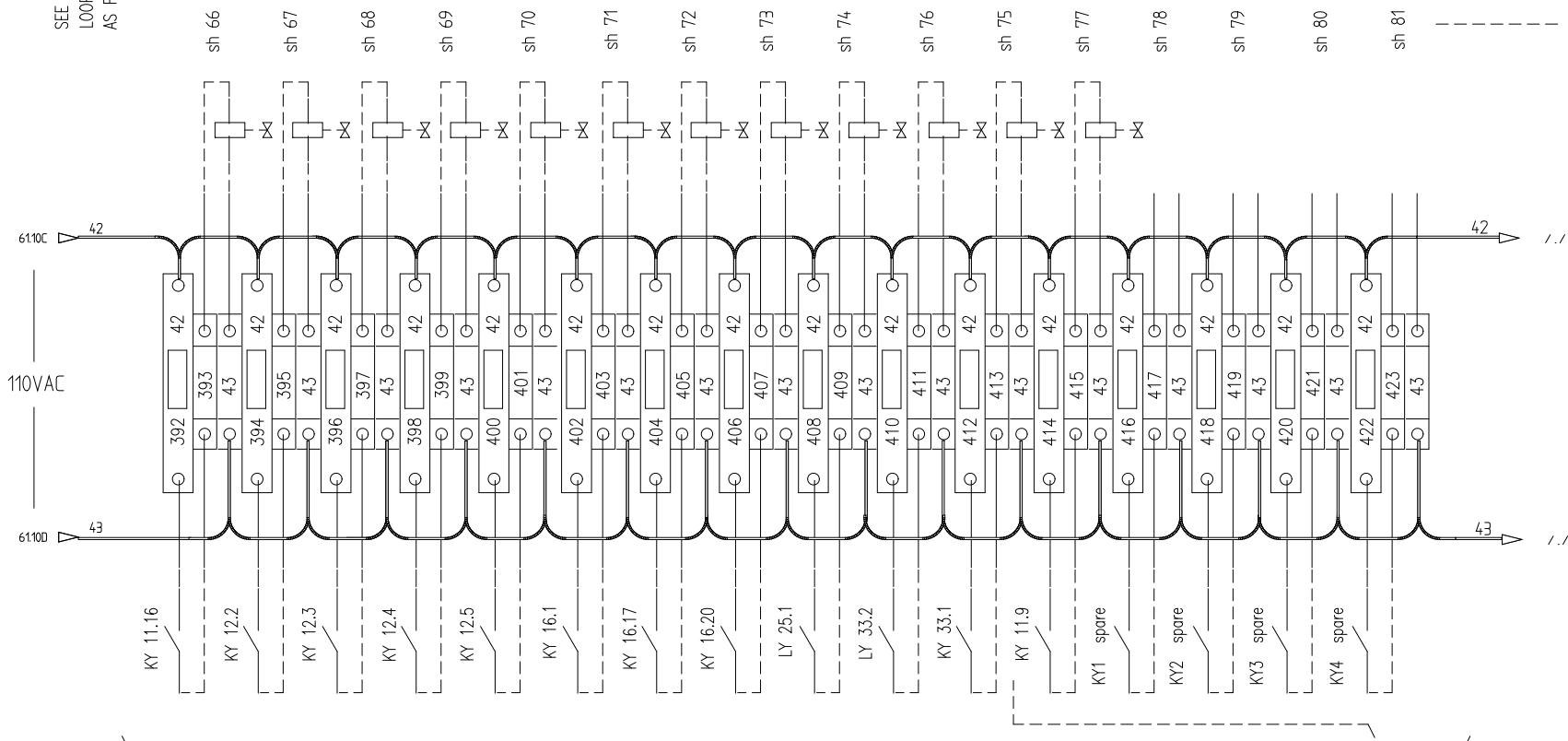
TERMINAL BLOCK
FEEDING VALVES

TB9 (CAB.3)

SEE DWG. 1E35.85.002
LOOP DRAWINGS
AS FOLLOW

110VAC FEEDING VALVES ON FIELD

REV.2



2	ISSUE AFTER TEST	03/2010	G.C.	date 12/2009		SULPHUREX PLANT	desmet ballestra	TERMINAL BLOCK VALVES TB9 drawing's title:	Doc. 08039ED01	=
0	ISSUE FOR APPROVAL	12/2009	G.C.	check CM					Job: 1E35	+
Rev.	Revision	Date	Name	stand. SPAC9.1					dwg. 1E35.85.001	sheet 62 63 n.sh

2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE: 1E3585001-062

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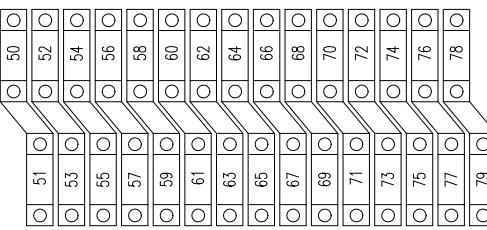
F

TERMINAL BLOCK
FEEDING INSTRUMENTS
& HARDWARE INTERLOCKS

TB6 (CAB.1)

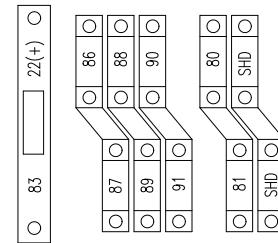
110VAC

FEEDING INSTRUMENTS

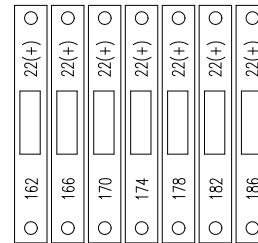


24VDC

TISH12.1.1



HARDWARE INTERLOCKS



REV.2

2	ISSUE AFTER TEST	03/2010	GC	date	12/2009
1	ISSUE FOR CONSTRUCTION	01/2010	GC	desig.	GC
0	ISSUE FOR APPROVAL	12/2009	GC	check	CM
Rev.	Revision	Date	Name	stand.	SPAC9.1

SULPHUREX PLANT



TERMINAL BLOCK TB6
drawing's title:

Doc. 08039ED01

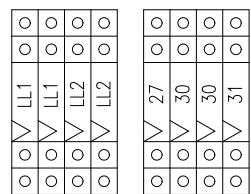
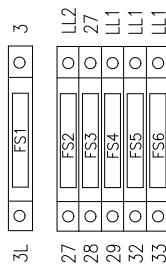
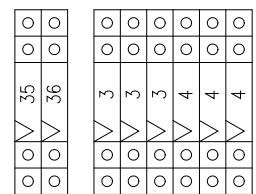
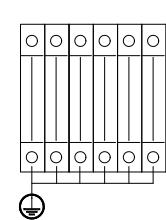
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Job: 1E35 dwg. 1E35.85.001

sheet 63
64 n.sh

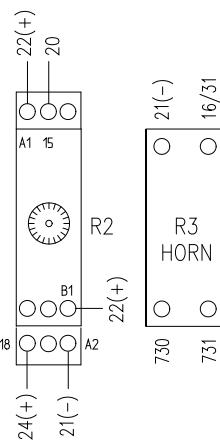
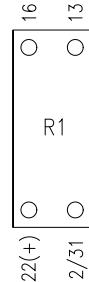
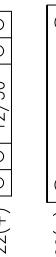
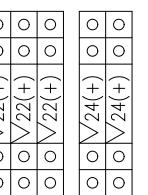
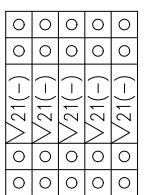
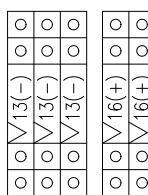
1 2 3 4 5 6 7 8 9 10

TERMINAL BLOCK (CAB.1)

220VAC TB3



24VDC TB2



UNI A3	2	ISSUE AFTER TEST	03/2010	GC	date	12/2000
	0	ISSUE FOR APPROVAL	12/2009	GC	desig.	GC
	Rev.	Revision	Date	Name	stand.	SPAC9

SULPHUREX PLANT



TERMINAL BLOCK TB2 – TB3

Doc. 08039ED01

Job: 1E35 1E35 85 001

sheet 64

FILE: 1E3585001-064

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

A	REF. DWG	Posit.	DESCRIPTION	CODE	SUPPLIER	Q.ty	NOTES	B
CAB1-CAB3	1	CABINET 2000x800x500 mm.	CQE.2085	COSTEL	3	3	RAL7035	
CAB1-CAB3	2	BASE H=100 mm.	ZE.851	COSTEL	3	3		
	3							
CBO	4	TWO-POLE CIRC. BREAKER 32A	1492-SP2 B320	ROCKWELL	1			
CBX1-CBX15	5	TWO-POLE CIRC. BREAKER 2A	1492-SP2 C020	ROCKWELL	18			
CB4, CB5, CB7	6							
CB2, LCB1	7	TWO-POLE CIRC. BREAKER 6A	1492-SP2 C060	ROCKWELL	2			
CB3	8	DIFF. 30mA	1492-RCD 2A40	ROCKWELL	1			
CB3	9	TWO-POLE CIRC. BREAKER 16A	1492-SP2 C160	ROCKWELL	1			
CB1	10	TWO-POLE CIRC. BREAKER 4A	1492-SP2 C040	ROCKWELL	1			
CB6	11	TWO-POLE CIRC. BREAKER 12A	1492-SP2 C130	ROCKWELL	1			
PS1, PS2	12	POWER-SUPPLY 24VDC-5A 90-264VAC	WEI 870867	WEIDMULLER	2			
	13	RELAY 24VDC	55.34.9.024.0040	FINDER	7			
LS1	14	WHITE LAMP	P9MLBD	GE POWER	1			
LS1	15	TRANSFORMER FOR LAMP 220/24V	P9PTNVN	GE POWER	1			
PB1	16	BLUE PUSHBUTTON	P9MPNLG	GE POWER	1			
PB1	17	1 L + 1 R CONTACT	P9B11VN	GE POWER	1			
DL1	18	FLASHING DEVICE 220V + LS	050ASL500	ELFIN	1			
PP1	19	PLUG 250V 16A	M1170	ABB	1			

NOTES

UNI A3	1	ISSUE FOR CONSTRUCTION	01/2010	GC	date 12/2009	desig. GE				
	0	ISSUE FOR APPROVAL	12/2009	GC	check CM					
		Rev.	Revision	Date	Name	stand.	SPAC9.1			

SULPHUREX PLANT

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PART LIST
drawing's title:

Doc. 08039ED01	=	
Job: 1E35	+	
dwg. 1E35.85.001		sheet 65
		66 n.sh

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A	REF. DWG	Posit.	DESCRIPTION	CODE	SUPPLIER	Q.ty	NOTES
		21	FUSE CARRIER TERMINAL WSI 6	WEI. 101100	WEIDMULLER	140	
B		22	PARALLEL FOUR-WAY DOUBLE TERMINAL WDK2,5V	WEI. 102230	WEIDMULLER	85	
		23	SEPARATED TWO-WAY DOUBLE TERMINAL WDK2,5	WEI. 102150	WEIDMULLER	320	
		24	GROUND TERMINAL WPE 4	WEI. 101010	WEIDMULLER	10	
		25	END TERMINAL WEW 35	WEI. 106120	WEIDMULLER	20	
		26	BAR SUPPORT SH2	WEI. 049492	WEIDMULLER	4	
C		27	DIN BAR FOR TERMINAL BLOCKS 2mt. DIN 35x15	WEI 023650	WEIDMULLER	8	
		28	RELAY 24V MODULE EGR EG2 NA	WEI. 013366	EEDS	129	
		29	NEUTRAL CONNECT. ANSU	WEI. 027250	WEIDMULLER	170	
		30	JUMPERS - 2 WQV-2,5/2	WEI. 105366	WEIDMULLER	40	
		31	JUMPERS - 32 WQV-2,5/32	WEI. 157760	WEIDMULLER	5	
D	RL1 - RL8	32	RELAY 24VDC - 4 CONTACT	55.34.9.024.0040	FINDER	8	
	T1, T2	33	THERMOSTAT 0-60°C 220V	LG 34847	LG	2	
	RS1	34	HEATING RESISTOR 110-240V 100W	LG 034801	LG	1	
	V1, V2	35	FAN 220V 20W	4715MS 23TB5.A	FANDIS	2	
	L1 - L3	36	NEON LAMP 220VAC - STY115WHL	GE 43534	GE	3	
E	LLS1 - LLS3	37	LIMIT SWITCH 3 N.C.	114FCT03	GE	3	
	R2	38	TIMER AC/DC 24/230V	H3DE-M2	OMRON	1	
	HORN	39	HORN 24VDC/AC BIP 84	42346	ELT	1	

NOTES

UNI A3	1	ISSUE FOR CONSTRUCTION	01/2010	GC	date 12/2009	desig. GE			Doc. 08039ED01	=
	0	ISSUE FOR APPROVAL	12/2009	GC	check CM			Job: 1E35	+	
		Revision	Date	Name	stand. SPAC9.1			dwg. 1E35.85.001	sheet 66	
									n.sh 67	

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A	REF. DWG	Posit.	DESCRIPTION	CODE	SUPPLIER	Q.ty	NOTES
		41	PROCESSOR-1.5MB MEM. with ENET/IP COMPACT-LOGIX	1769-L35E	ROCKWELL ALLEN & BRADLEY	1	
		42	8 CHANNEL ANALOG CURRENT OUTPUT	1769-OF8C	ROCKWELL ALLEN & BRADLEY	3	
B		43	16 CHANNEL ANALOG CURRENT/VOLTAGE INPUT	1769-IF16C	ROCKWELL ALLEN & BRADLEY	4	
		44	8 CHANNEL ANALOG CURRENT/VOLTAGE INPUT	1769-IF8	ROCKWELL ALLEN & BRADLEY	-	
		45	32 PT. 24 VDC SINKING/SOURCING INPUT	1769-IQ32	ROCKWELL ALLEN & BRADLEY	5	
		46	32 PT. 24 VDC SOURCING OUTPUT	1769-OB32	ROCKWELL ALLEN & BRADLEY	4	
C		47	POWER SUPPLY 120/240VAC INPUT	1769-PA4	ROCKWELL ALLEN & BRADLEY	2	
		48	3 FT RIGHT-TO-LEFT BUS EXP. CABLE	1769-CRL1	ROCKWELL ALLEN & BRADLEY	1	
		49	END CAP RIGHT	1769-ECR	ROCKWELL ALLEN & BRADLEY	1	
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NOTES

UNI A3				date 12/2009				Doc. 08039ED01	=	
				desig. GC					+	
0	ISSUE FOR APPROVAL	12/2009	GC	check CM				Job: 1E35	dwg. 1E35.85.001	sheet 67
Rev.	Revision	Date	Name	stand. SPAC9.1						n.sh
SULPHUREX PLANT										FILE: 1E3585001-067