

COMPUTER CONTROL SYSTEM FOR SABIZ PLANT

90.CAB.2

(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 08039ED03	Rev. 2						
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Plant SABIZ		1	ISSUE FOR CONSTRUCTION	LOGOFIVE	20.12.2010		
		0	ISSUE FOR APPROVAL	LOGOFIVE	22.11.2010		
	Rev.		Issue description	Author	Date		

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087	ANALOG INPUT AI3	x	x	x		
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	Drawing 1E35-85-1001	Sheet 2	Drawing's title INDEX	1	ISSUE FOR CONSTRUCTION	LOGOFIVE
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2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:1E35851001-004

SABIZ PLANT



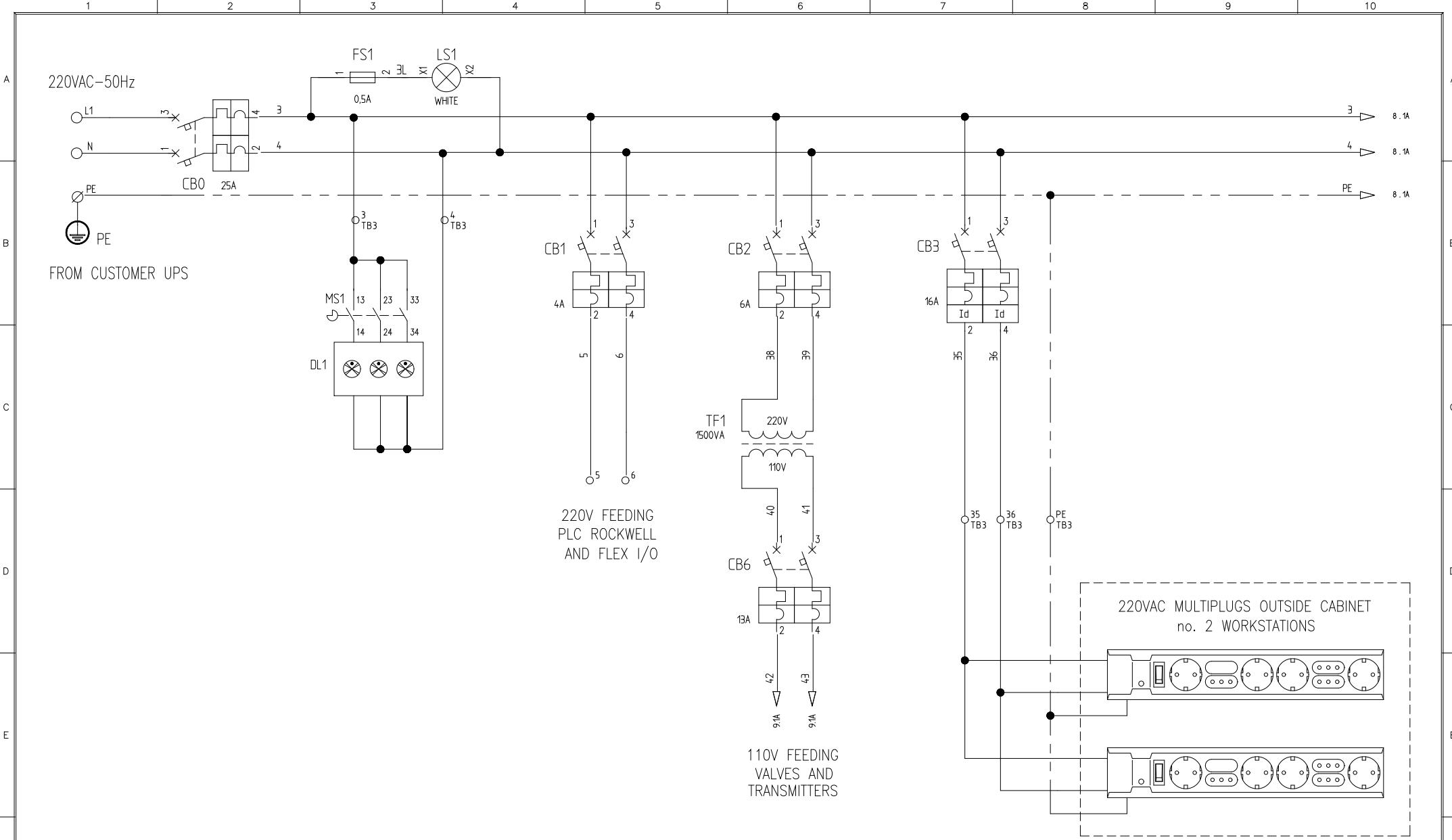
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drawing's title:

Doc. 08039ED03

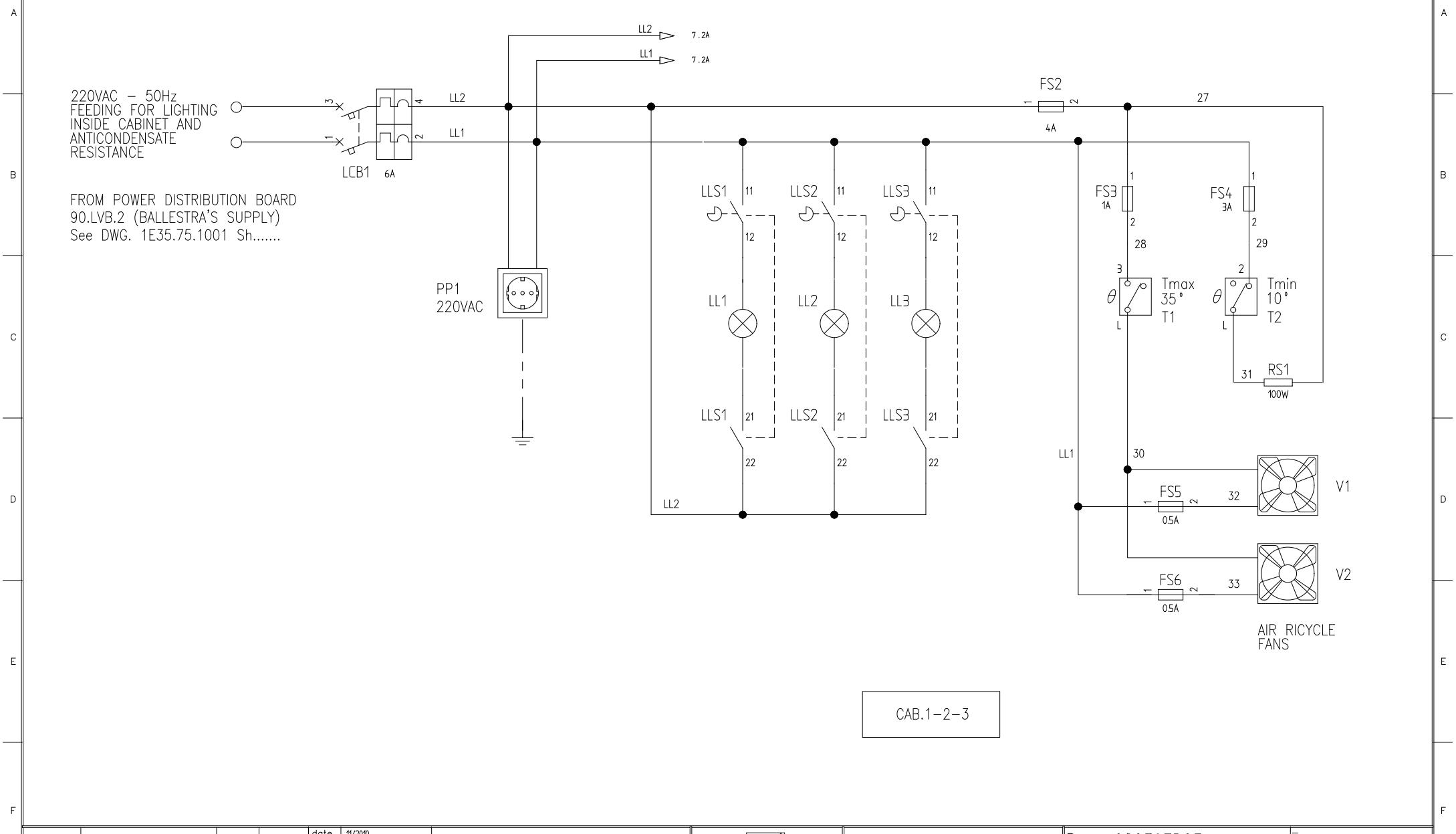
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Job: 1E35 dwg. 1E35.85.1001

sheet 4
5 n.sh

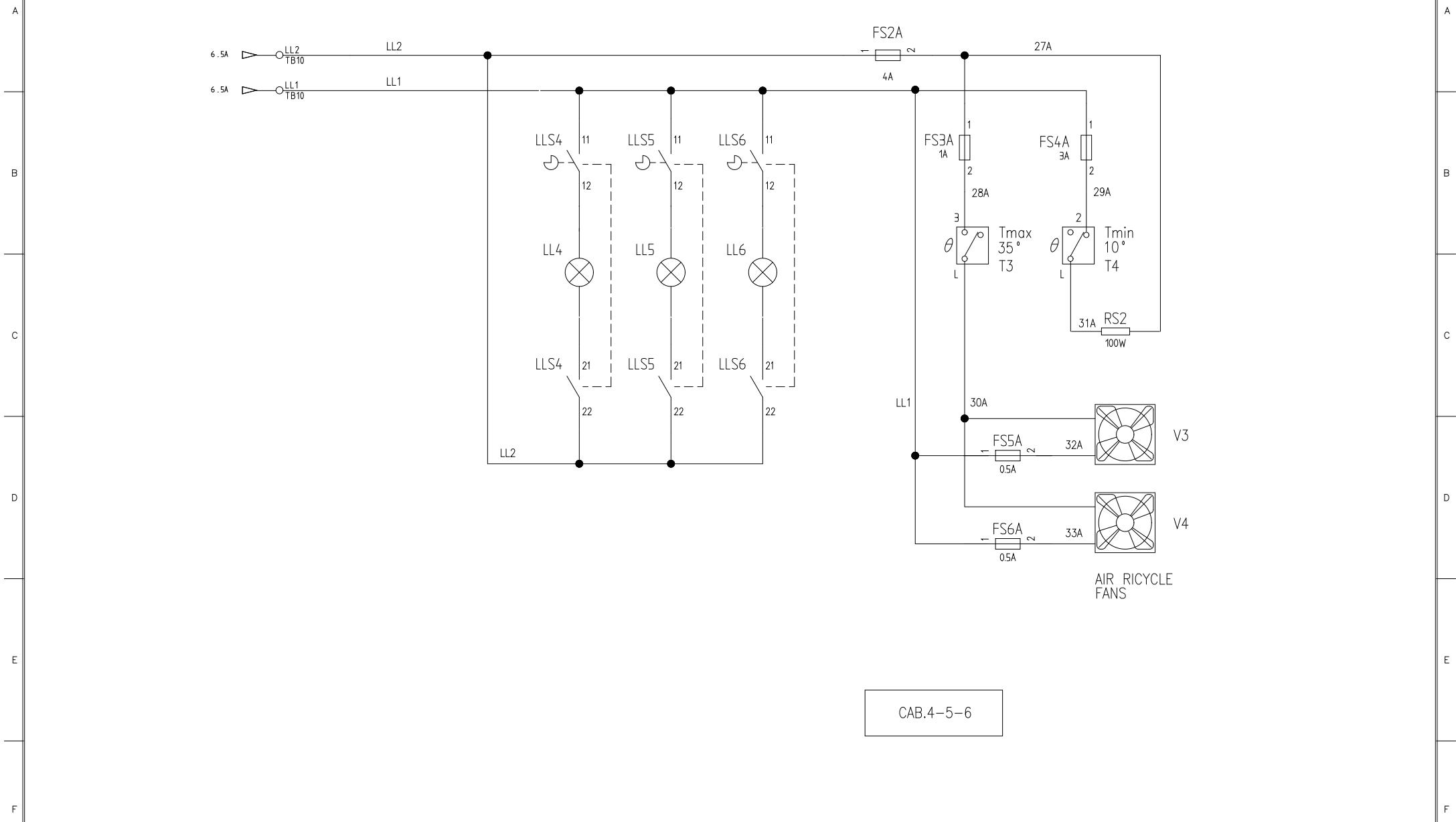


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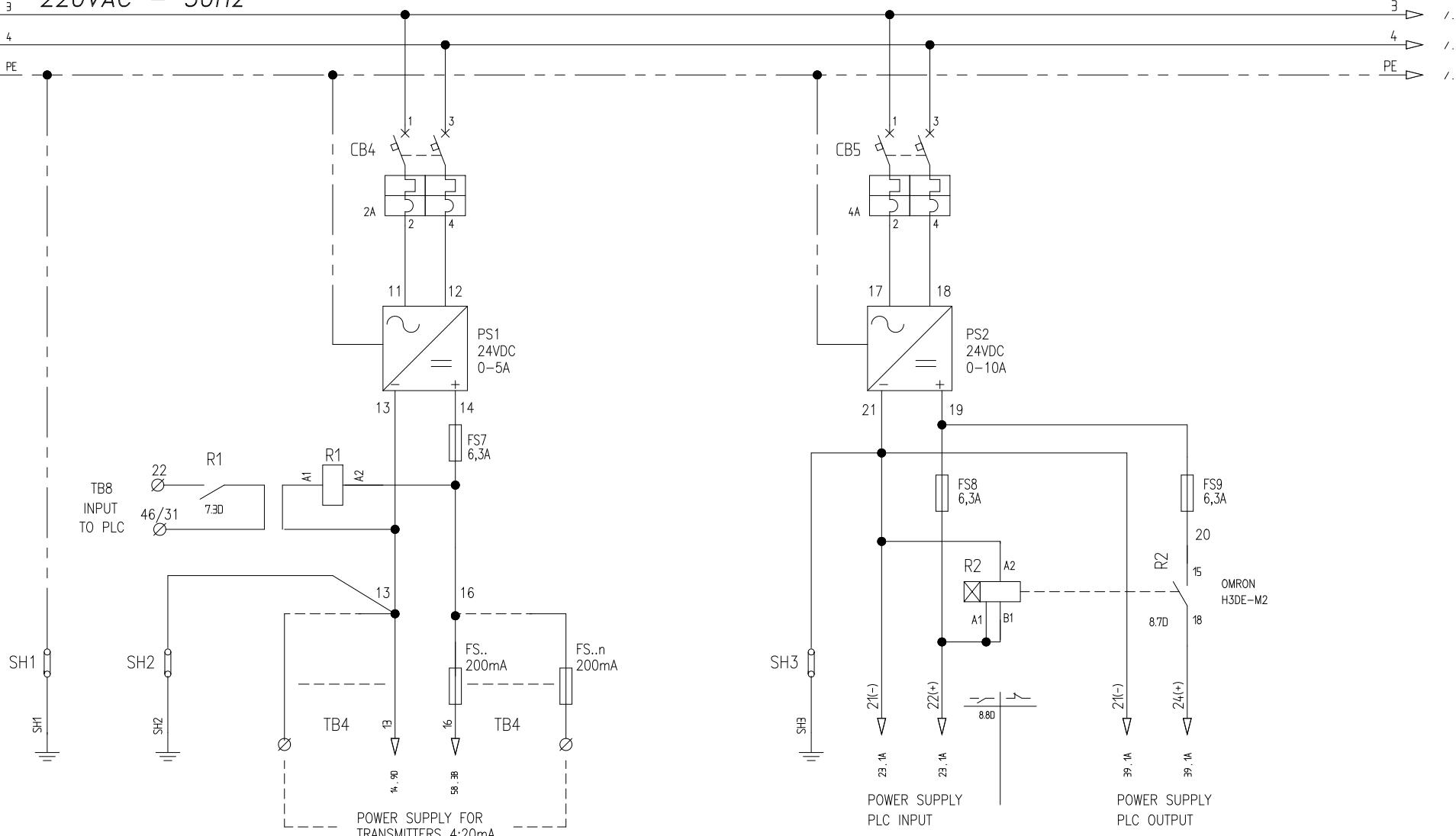


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1 2 3 4 5 6 7 8 9 10

220VAC - 50Hz



UNI A3

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Stand: SPAC91

SABIZ PLANT



POWER DISTRIBUTION
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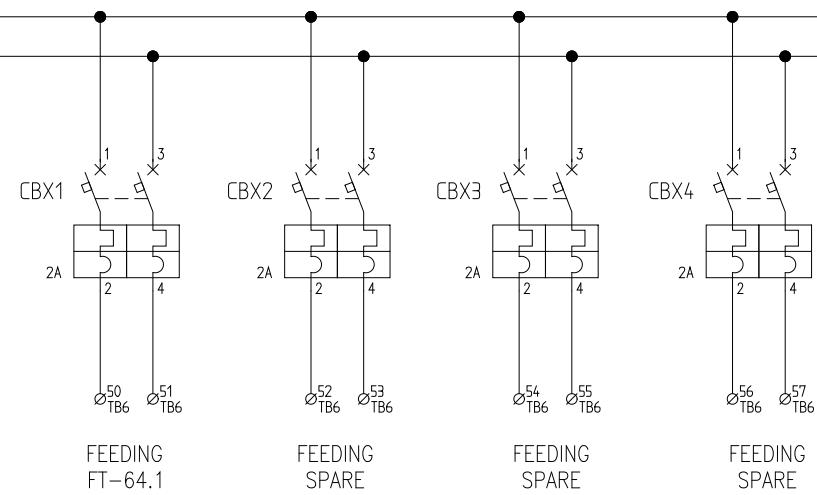
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sheet 8
9 n.sh

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110VAC - 50Hz



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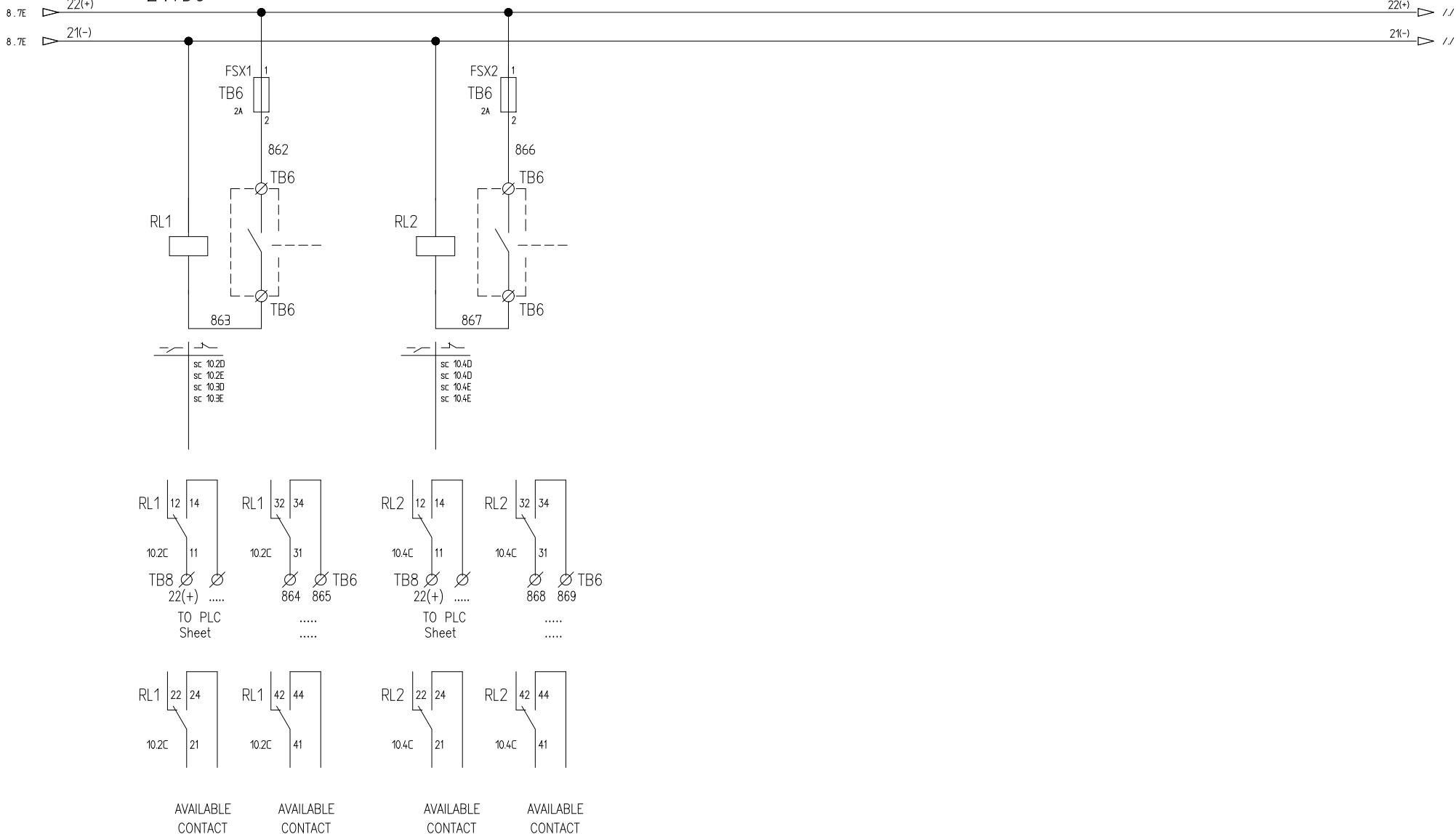
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24VDC



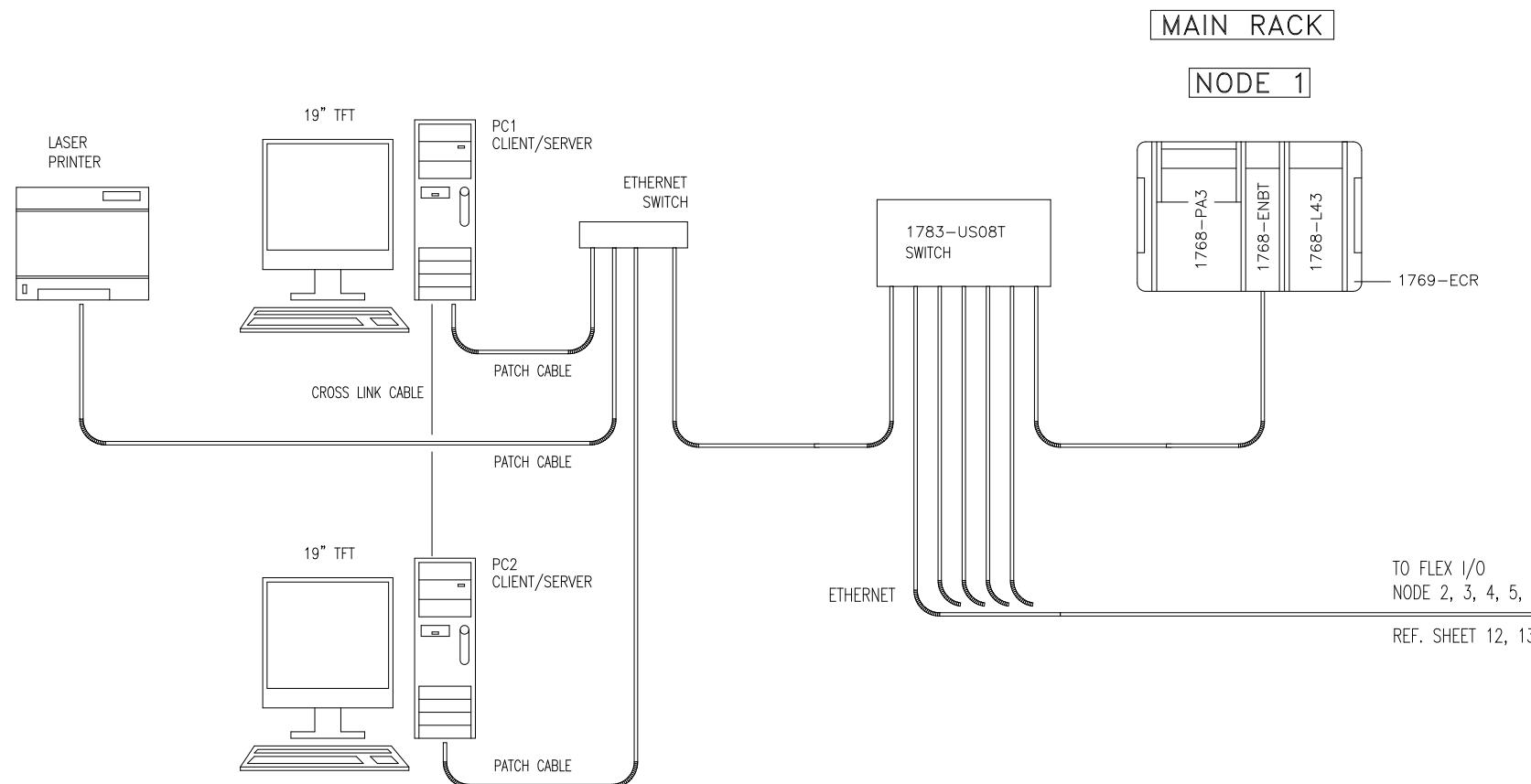
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1	ISSUE FOR CONSTRUCTION	12/2010	G.C.	date	11/2010		SABIZ PLANT	HARDWARE INTERLOCKS	Doc. 08039ED03	=
0	ISSUE FOR APPROVAL	11/2010	G.C.	check	CM				Job: 1E35	+
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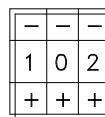


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2it. DIN 6771/Teil 5 1	2	3	4	SABIZ PLANT	desmet ballstra	SYSTEM CONFIGURATION drawing's title:		

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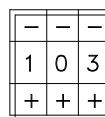
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Ref. Sheet 11



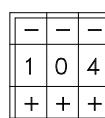
1794-AENT A01 20/00-11 A02 21/00-11 A03 22/00-11 AI1 23/00-11 AI2 24/00-11 AI3 25/00-11 AI4 26/00-11 AI5 27/00-11
1794-OE12 1794-OE12 1794-OE12 1794-IE12 1794-IE12 1794-IE12 1794-IE12 1794-IE12 1794-IE12

NODE 2



1794-AENT DI1 30/00-31 DI2 31/00-31 DI3 32/00-31 DI4 33/00-31 DI5 34/00-31 DI6 35/00-31 DI7 36/00-31 DI8 37/00-31
1794-IB32 1794-IB32 1794-IB32 1794-IB32 1794-IB32 1794-IB32 1794-IB32 1794-IB32

NODE 3



1794-PS13 1794-AENT DI9 40/00-31 DI10 41/00-31 DI11 42/00-31 DI12 43/00-31 DI13 44/00-31 DI14 45/00-31 DI15 46/00-31 D010 47/00-31
1794-IB32 1794-IB32 1794-IB32 1794-IB32 1794-IB32 1794-IB32 1794-IB32 1794-OB32P

NODE 4

ADDRESSING SWITCHES

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SABIZ PLANT



FLEX I/O CONFIGURATION
drawing's title:

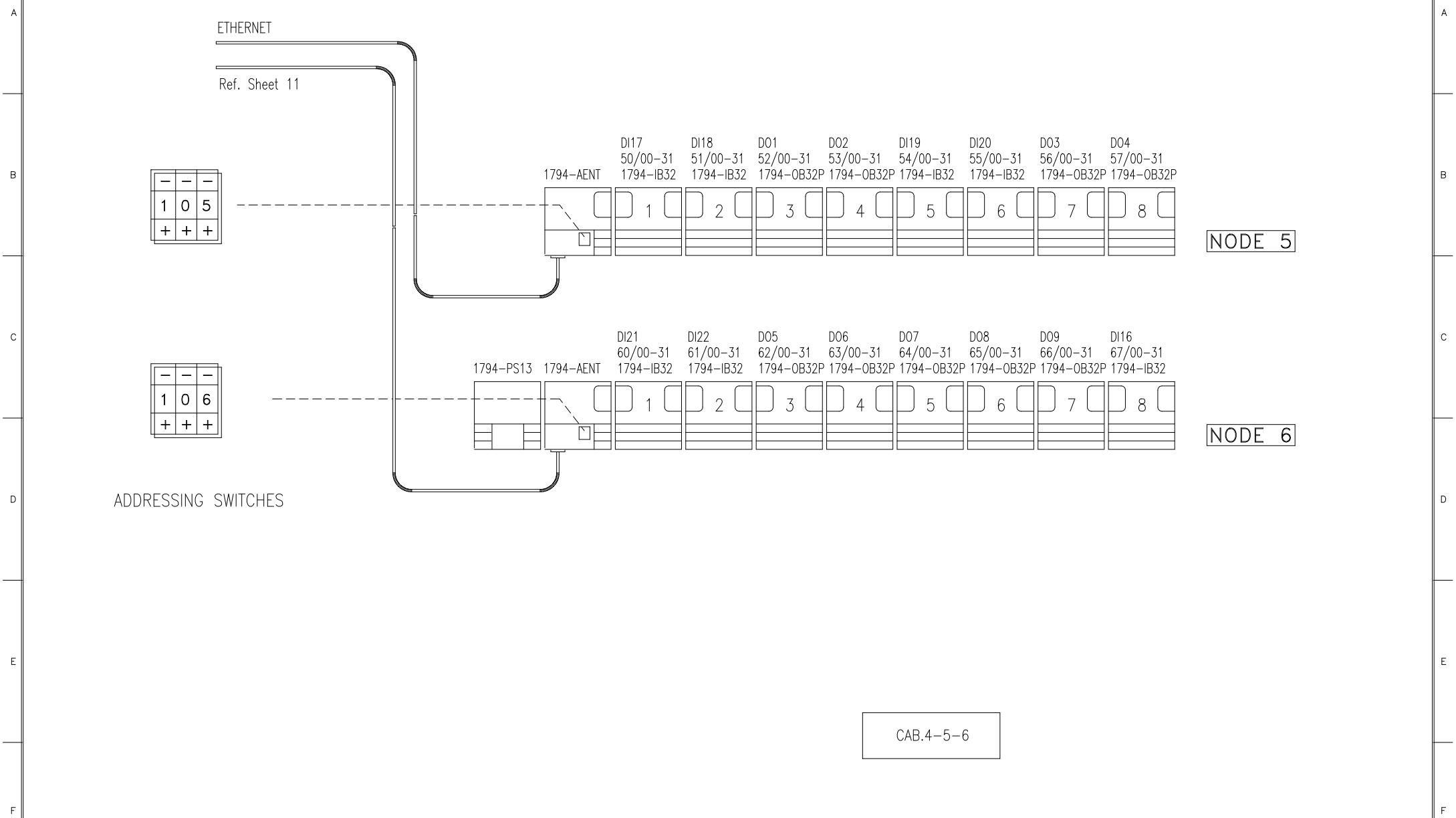
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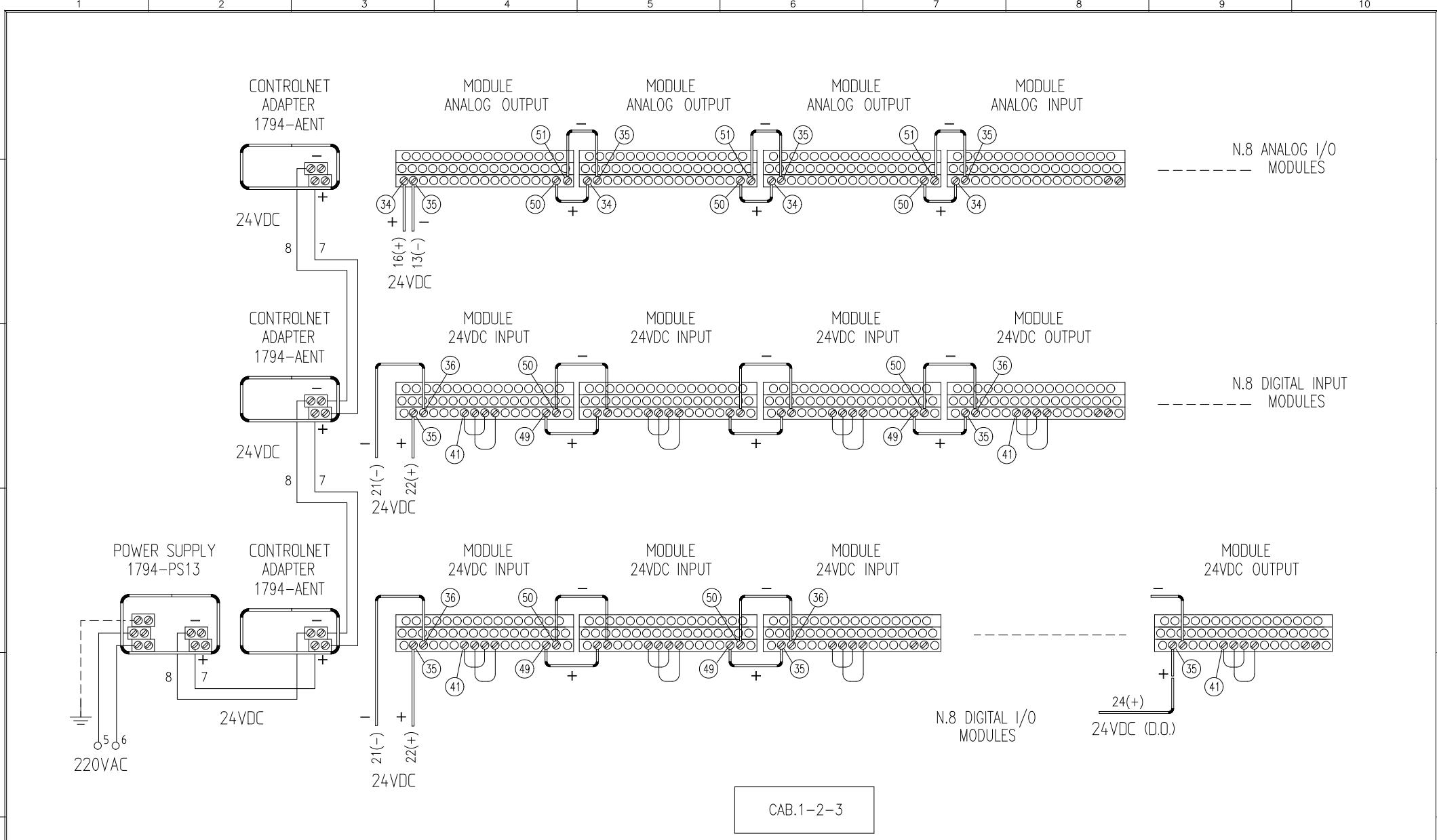
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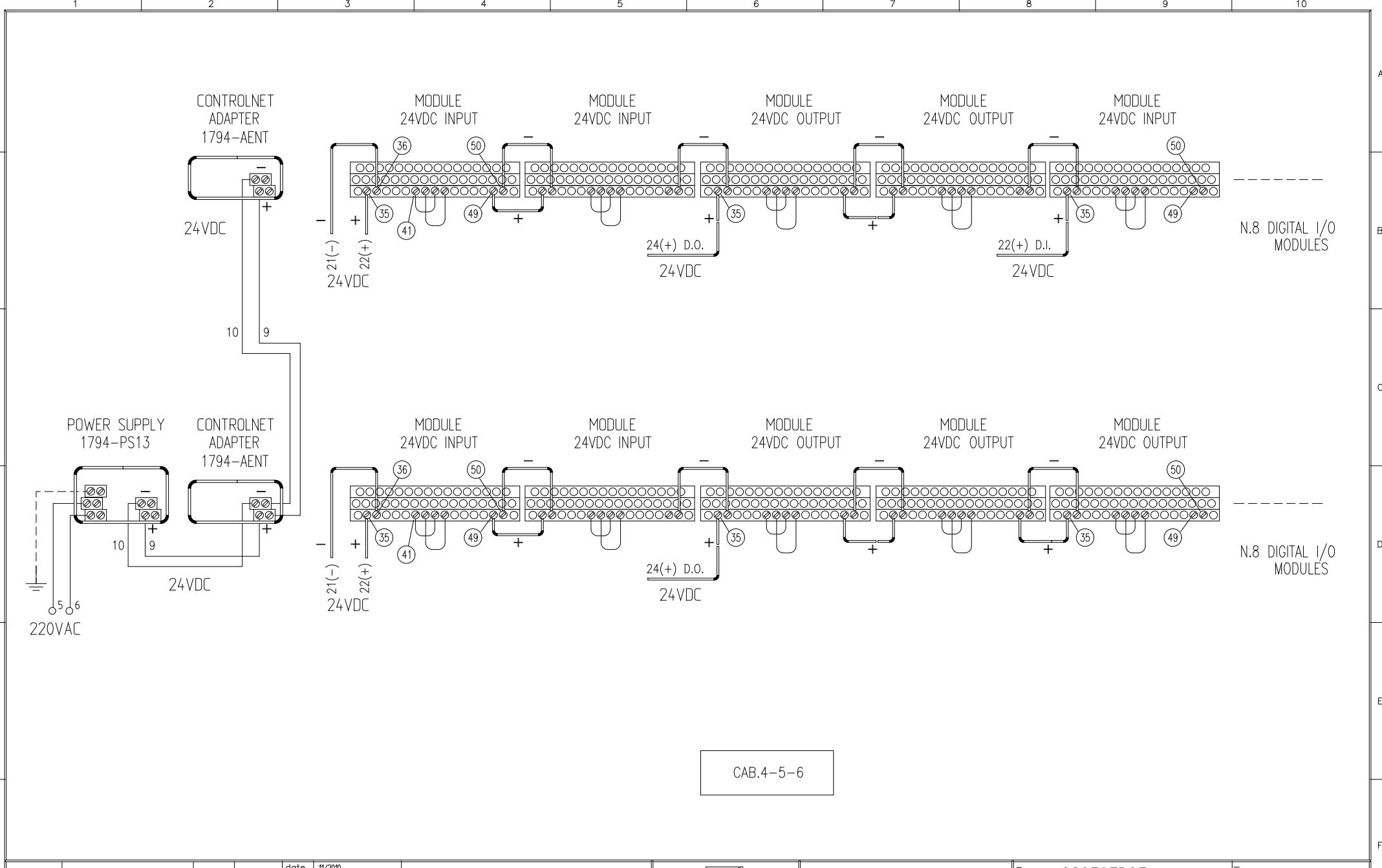
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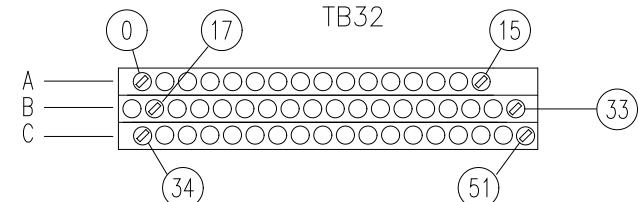
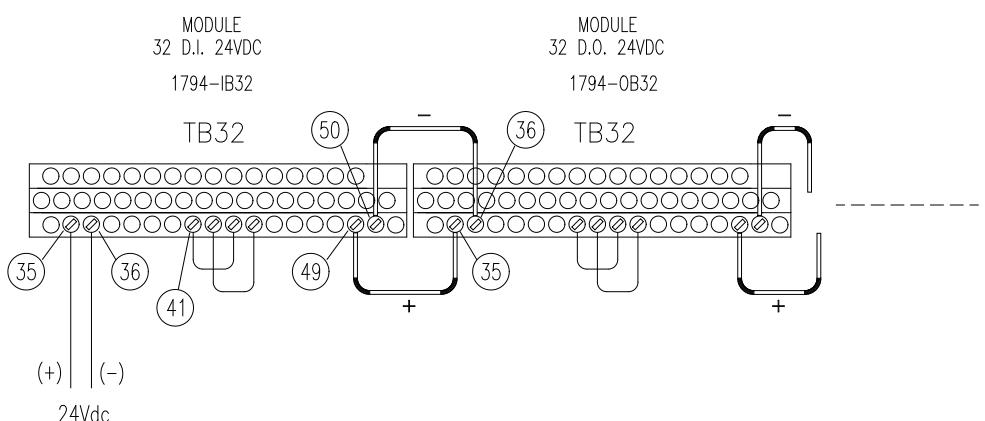
SABIZ PLANT



FLEX I/O FEEDING
drawing's title:

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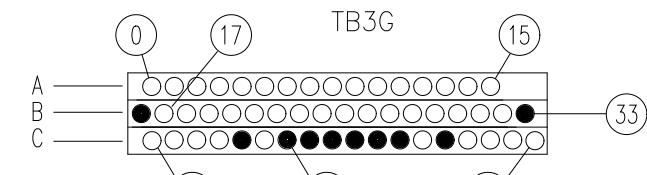
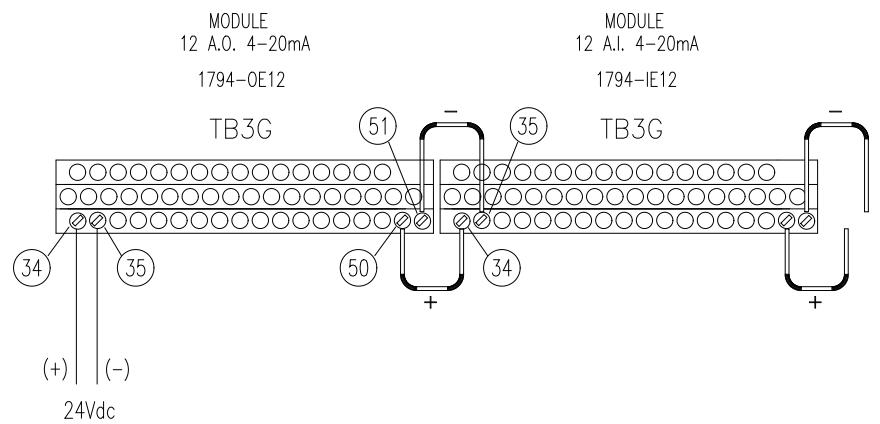
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ANALOG I/O



CHASSIS GROUNDS FOR SHIELDS

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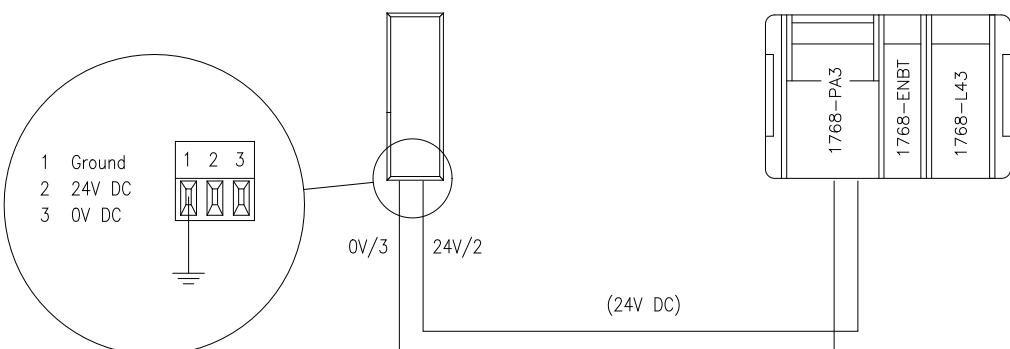
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Stratix 2000
8 Port SWITCH

MAIN RACK

NODE 1



UNI A3	ISSUE OR CONSTRUCTION	12/2010	G.C.	date 11/2010	SABIZ PLANT	desmet ballstra	SWITCH FEEDING	Doc. 08039ED03	=
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FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI17



RUNNING INDICATION
LOW SPEED

RUNNING INDICATION
HIGH SPEED

CUMULATIVE
FAULT INDICATION

RUNNING INDICATION
LOW SPEED

RUNNING INDICATION
HIGH SPEED

CUMULATIVE
FAULT INDICATION

RUNNING INDICATION
LOW SPEED

RUNNING INDICATION
HIGH SPEED

CUMULATIVE
FAULT INDICATION

RUNNING INDICATION
LOW SPEED

RUNNING INDICATION
HIGH SPEED

CUMULATIVE
FAULT INDICATION

RUNNING INDICATION
LOW SPEED

RUNNING INDICATION
HIGH SPEED

CUMULATIVE
FAULT INDICATION

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SABIZ PLANT



DIGITAL INPUT DI17

drawing's title:

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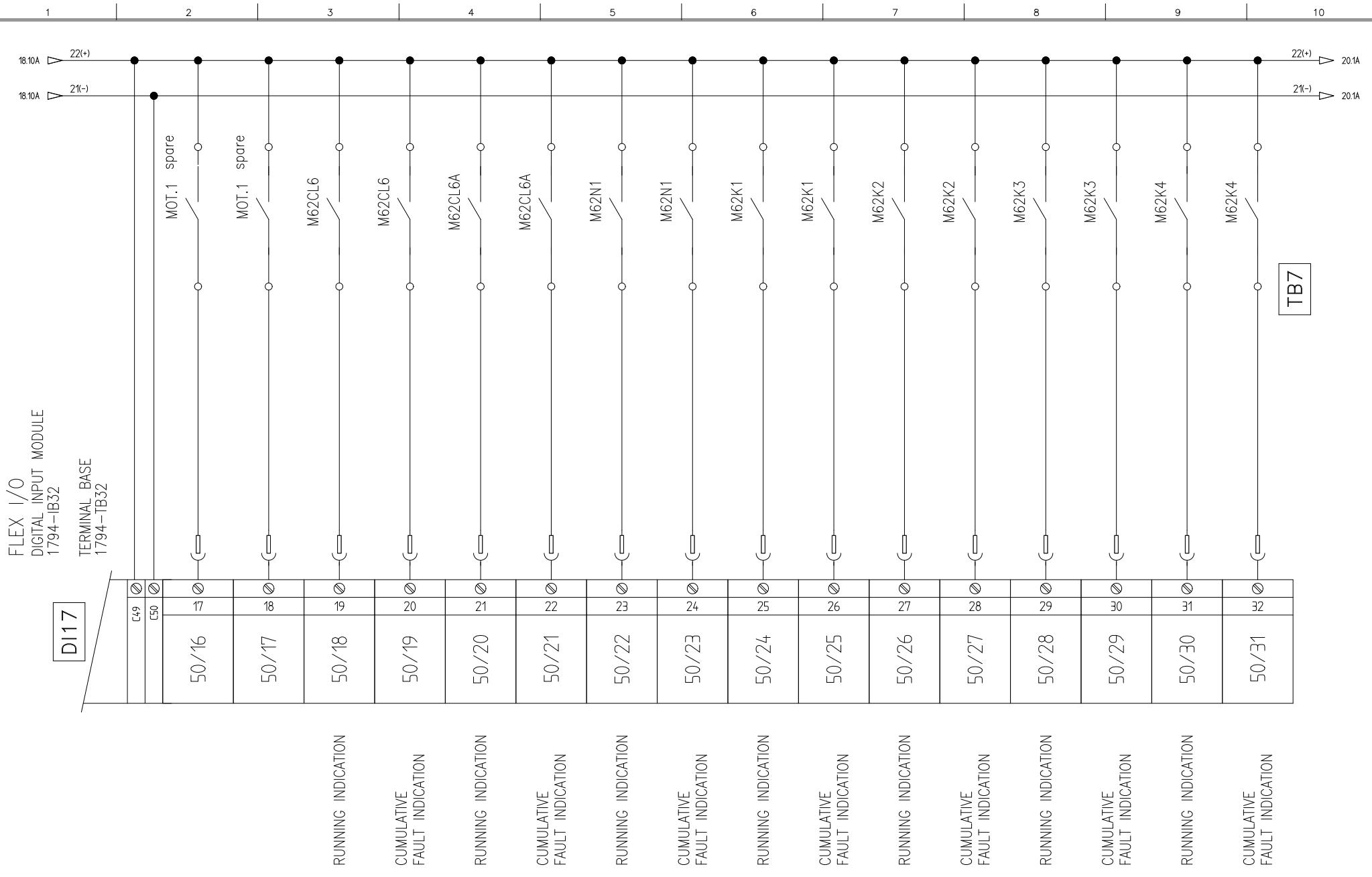
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FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI17



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RUNNING INDICATION

CUMULATIVE
FAULT INDICATION

SABIZ PLANT



DIGITAL INPUT DI17

drawing's title:

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FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI18

RUNNING INDICATION

CUMULATIVE
FAULT INDICATION

51/00

51/01

51/02

51/03

51/04

51/05

51/06

51/07

51/08

51/09

51/10

51/11

51/12

51/13

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51/15

M62K5

M62A1A

M62A1B

M62A2

M62A2

M62F6A

M62F6B

M62P1

M62Z1

M62Z1

211A

211A

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Rev.

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Revision

Date

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SABIZ PLANT



DIGITAL INPUT DI18

drawing's title:

Doc. 08039ED03

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+

sheet

20

n.sh

21

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI18

RUNNING INDICATION

CUMULATIVE
FAULT INDICATION

CUMULATIVE
FAULT INDICATION

51/16

51/17

51/18

51/19

51/20

51/21

51/22

51/23

51/24

51/25

51/26

51/27

51/28

51/29

51/30

51/31

51/32

20.10A □ 22(+)

20.10A □ 21(-)

M63A1A

M63A1A

M63A1B

M63A1B

M63A2

M63A2

M63A3

M63A3

M63F2A

M63F2A

M63F2B

M63K1

M63P2A

M63P2A

TB7

22(+)

21(-) □ 221A

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SABIZ PLANT



DIGITAL INPUT DI18
drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 21
22 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

DI19

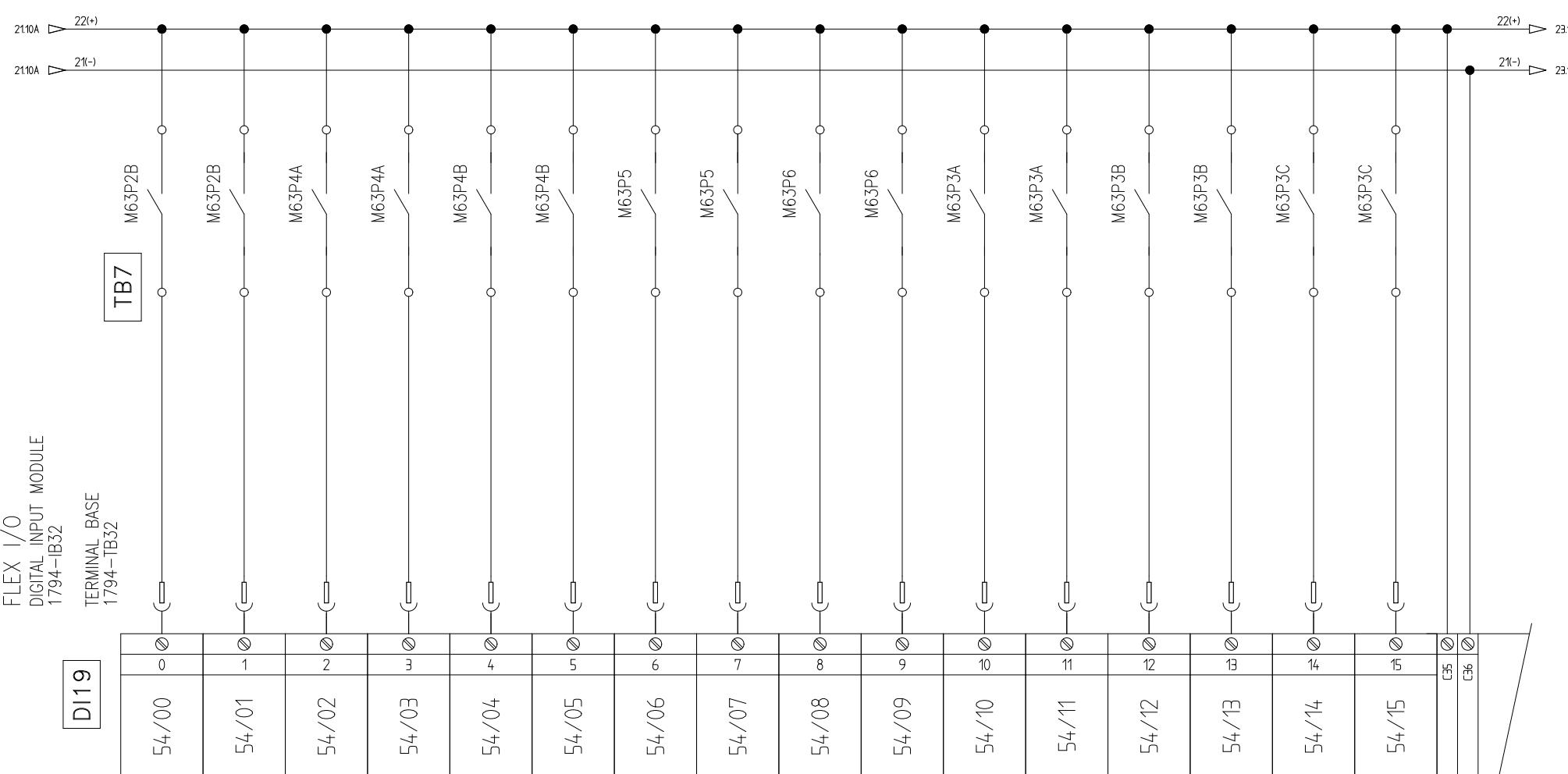
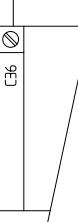
TERMINAL BASE

1794-TB32

54/00

RUNNING INDICATION

CUMULATIVE
FAULT INDICATION



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DIGITAL INPUT DI19

drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 22
23 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI19

RUNNING INDICATION

CUMULATIVE
FAULT INDICATION

54/16

54/17

54/18

54/19

54/20

54/21

54/22

54/23

54/24

54/25

54/26

54/27

54/28

54/29

54/30

54/31

22.10A □ 22(+)

M64K2

22.10A □ 21(-)

M64K3

22.10A □ 22(+)

M64K4

22.10A □ 21(-)

M64K5

22.10A □ 22(+)

M64N1

22.10A □ 21(-)

M64P1

22.10A □ 22(+)

M64SR1

22.10A □ 21(-)

M64V3

22.10A □ 22(+)

M64V3

22.10A □ 21(-)

TB7

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SABIZ PLANT



DIGITAL INPUT DI19
drawing's title:

Doc. 08039ED03
Job: 1E35

dwg. 1E35.85.1001

sheet 23
24 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI20

55/00

RUNNING INDICATION

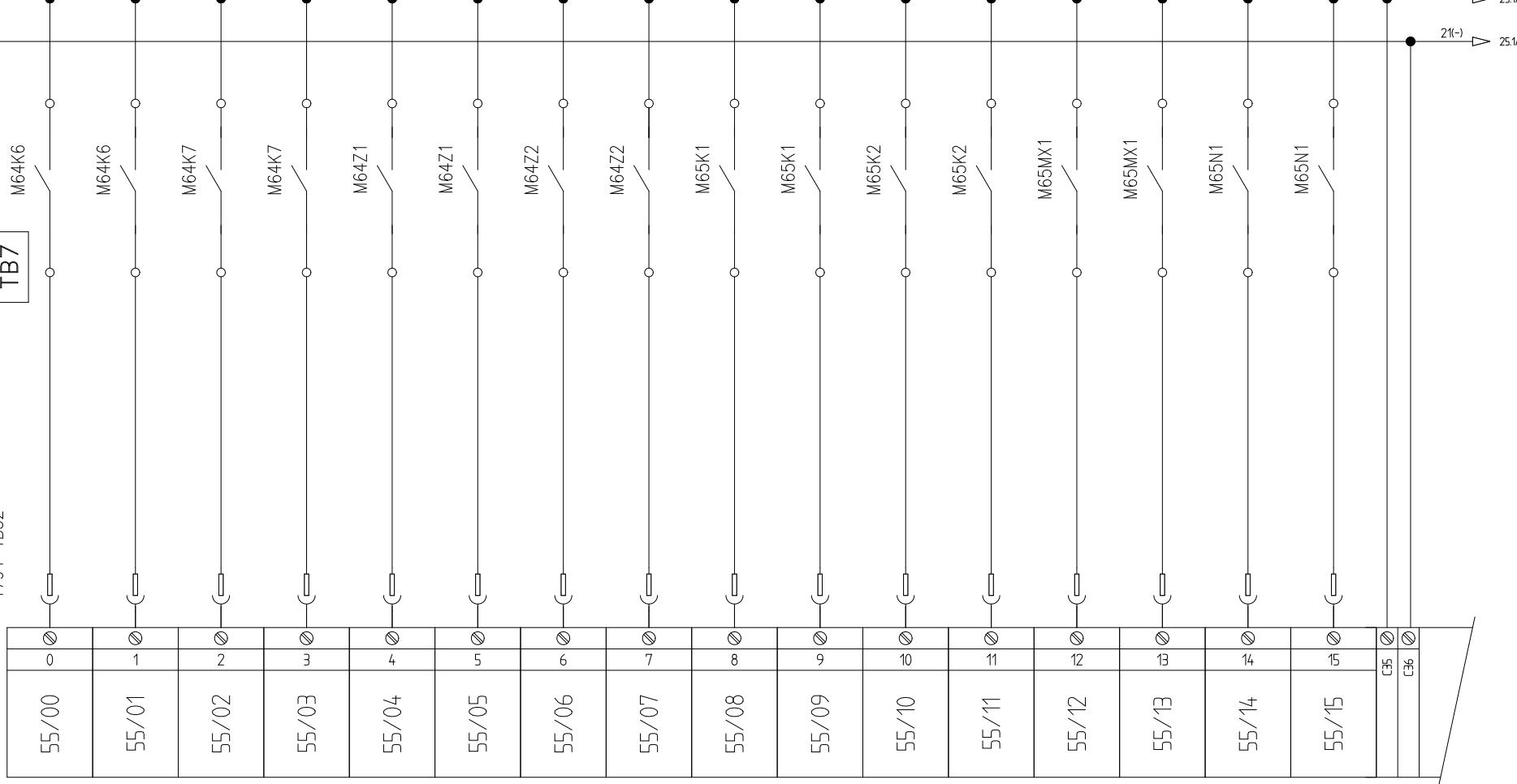
CUMULATIVE
FAULT INDICATION

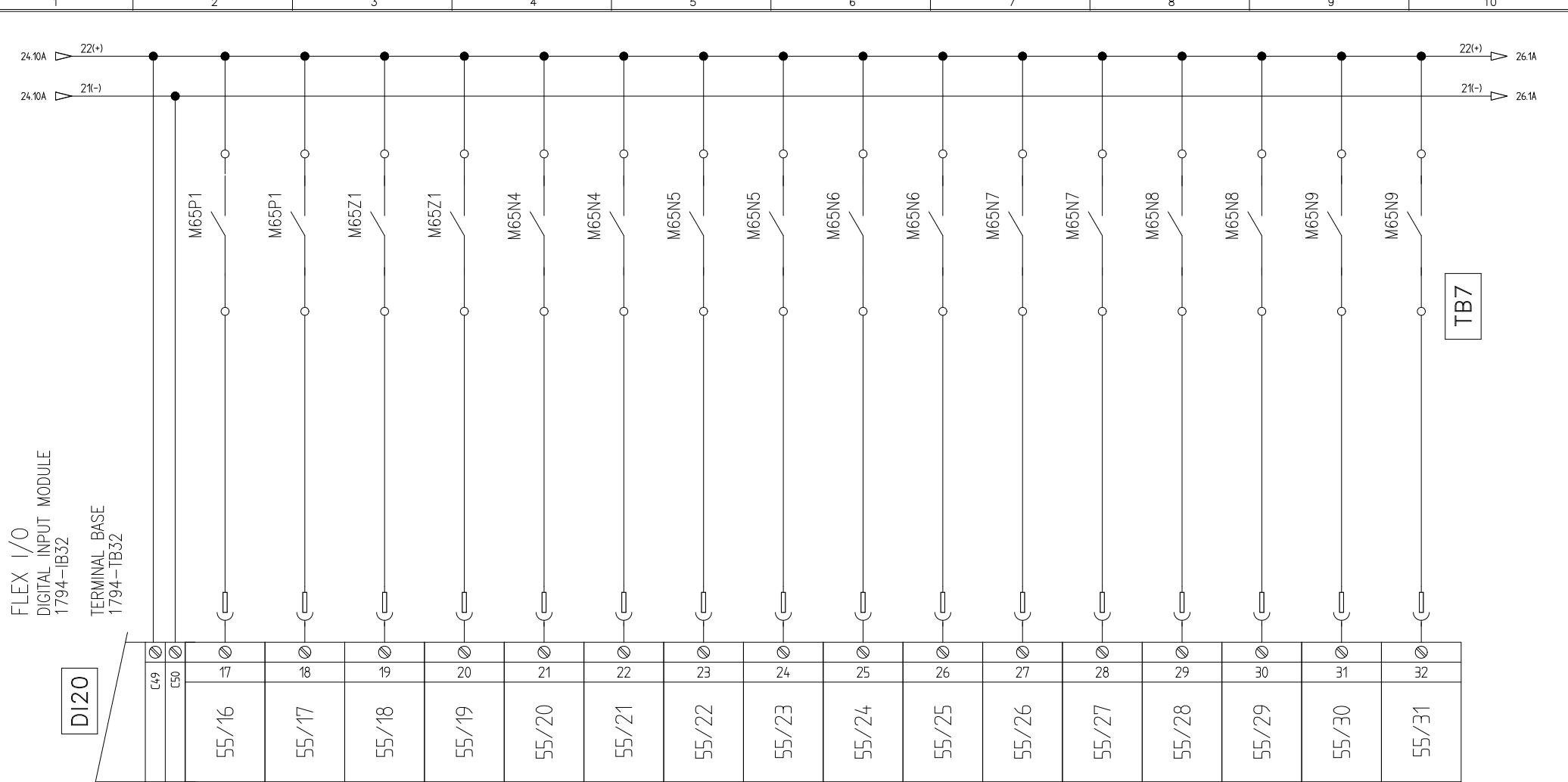
RUNNING INDICATION

55/15

C35

C36





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SABIZ PLANT



DIGITAL INPUT DI20

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.100

sheet 23
26 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

DI21

TERMINAL BASE
1794-TB32

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60/01

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60/11

60/12

60/13

60/14

60/15

C35

C36

TB7

RUNNING INDICATION

CUMULATIVE FAULT INDICATION

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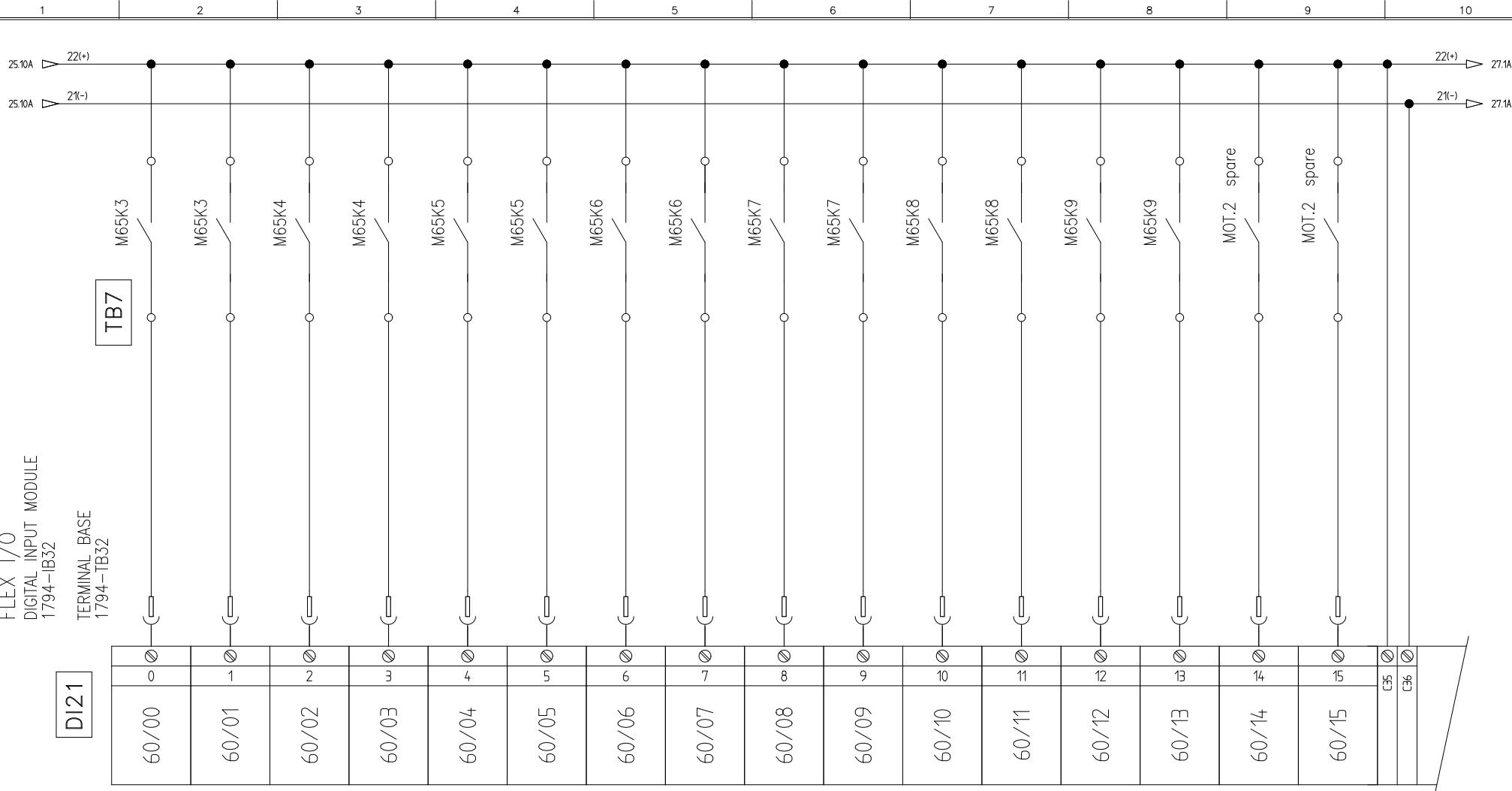
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DIGITAL INPUT DI21

drawing's title:

Doc. 08039ED03

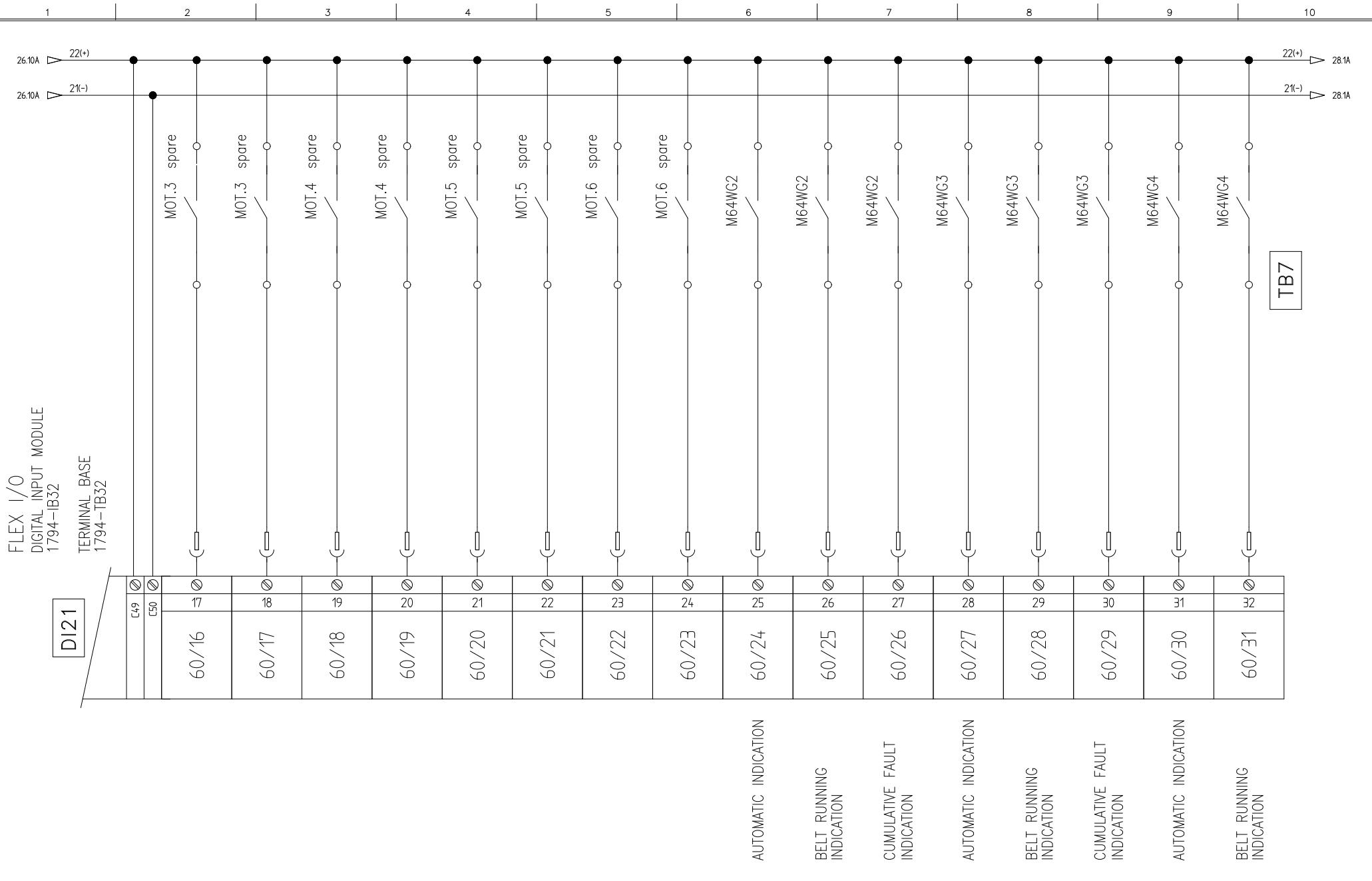
Job: 1E35 dwg. 1E35.85.1001

sheet 26
27 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI21



FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

DI22

TERMINAL BASE
1794-TB32

CUMULATIVE FAULT
INDICATION

AUTOMATIC INDICATION

BELT RUNNING
INDICATION

CUMULATIVE FAULT
INDICATION

AUTOMATIC INDICATION

BELT RUNNING
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AUTOMATIC INDICATION

BELT RUNNING
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CUMULATIVE FAULT
INDICATION

AUTOMATIC INDICATION

L.I.W. RUNNING
INDICATION

CUMULATIVE FAULT
INDICATION

CHARGE VALVE KV65.4
CLOSED

AUTOMATIC INDICATION

L.I.W. RUNNING
INDICATION

61/00

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61/13

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61/14

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61/15

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C35

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C36

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TB7

M64WG4

M65WG1

M65WG1

M65WG1

M65WG2

M65WG2

M65WG2

M65WG3

M65WG3

M65WG3

M65WG4

M65WG4

ZSL65.4

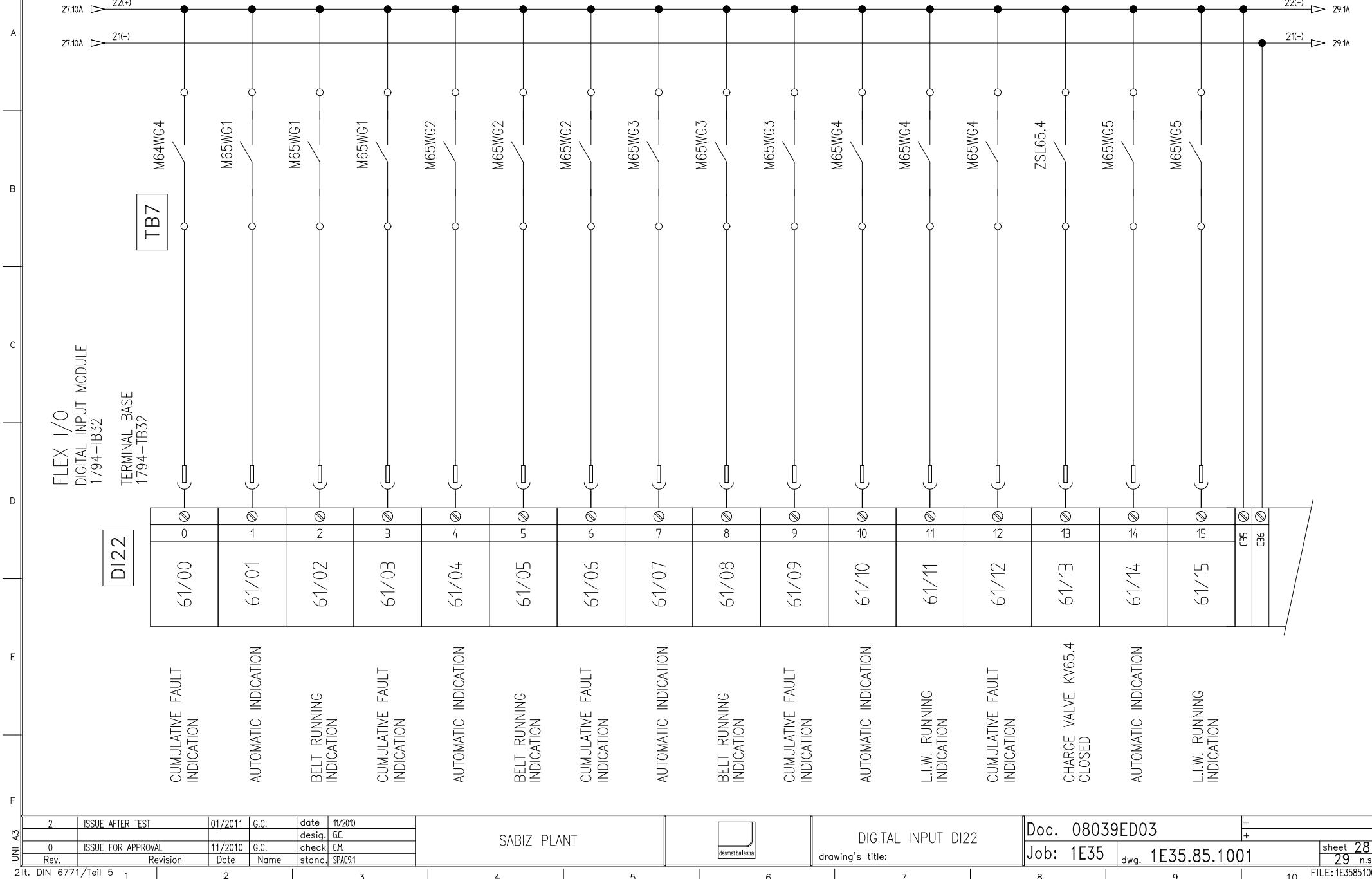
M65WG5

22(+)

21(-)

22(+)

21(-)



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DIGITAL INPUT DI22

drawing's title:

Doc. 08039ED03

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Job: 1E35

dwg. 1E35.85.1001

sheet 28

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n.sh

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FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI22

CUMULATIVE FAULT
INDICATION

CHARGE VALVE KV65.5
CLOSED

AUTOMATIC INDICATION

L.I.W. RUNNING
INDICATION

CUMULATIVE FAULT
INDICATION

CHARGE VALVE KV65.6A
CLOSED

AUTOMATIC INDICATION

L.I.W. RUNNING
INDICATION

CUMULATIVE FAULT
INDICATION

CHARGE VALVE KV65.6B
CLOSED

AUTOMATIC INDICATION

L.I.W. RUNNING
INDICATION

CUMULATIVE FAULT
INDICATION

CHARGE VALVE KV65.6C
CLOSED

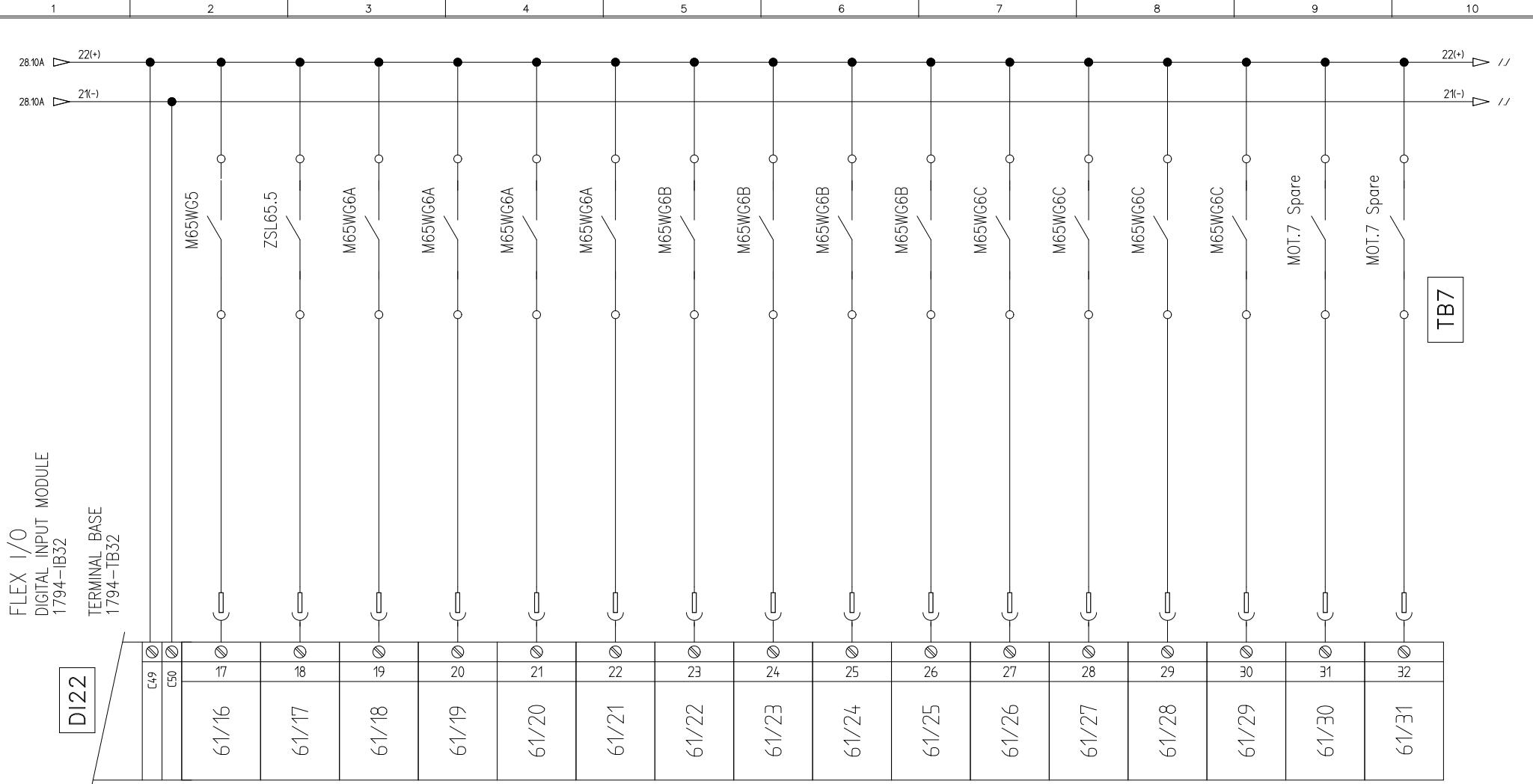
61/31

61/32

MOT.7 Spare

MOT.7 Spare

TB7



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DIGITAL INPUT DI22

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Job: 1E35 dwg. 1E35.85.1001

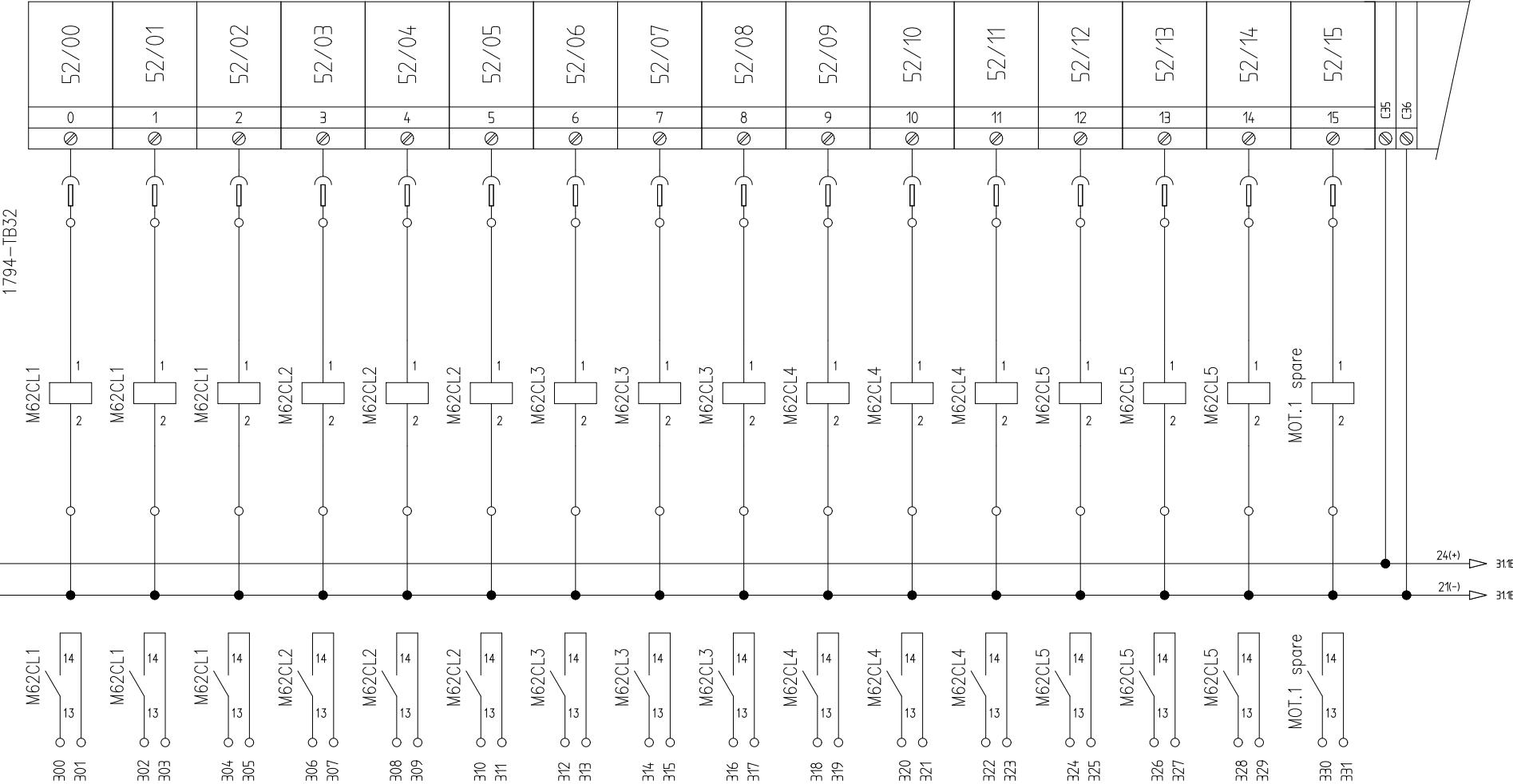
sheet 29
30 n.sh

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FLEX I/O
DIGITAL OUTPUT MODULE
1794-OB32

DO1



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DIGITAL OUTPUT DO1

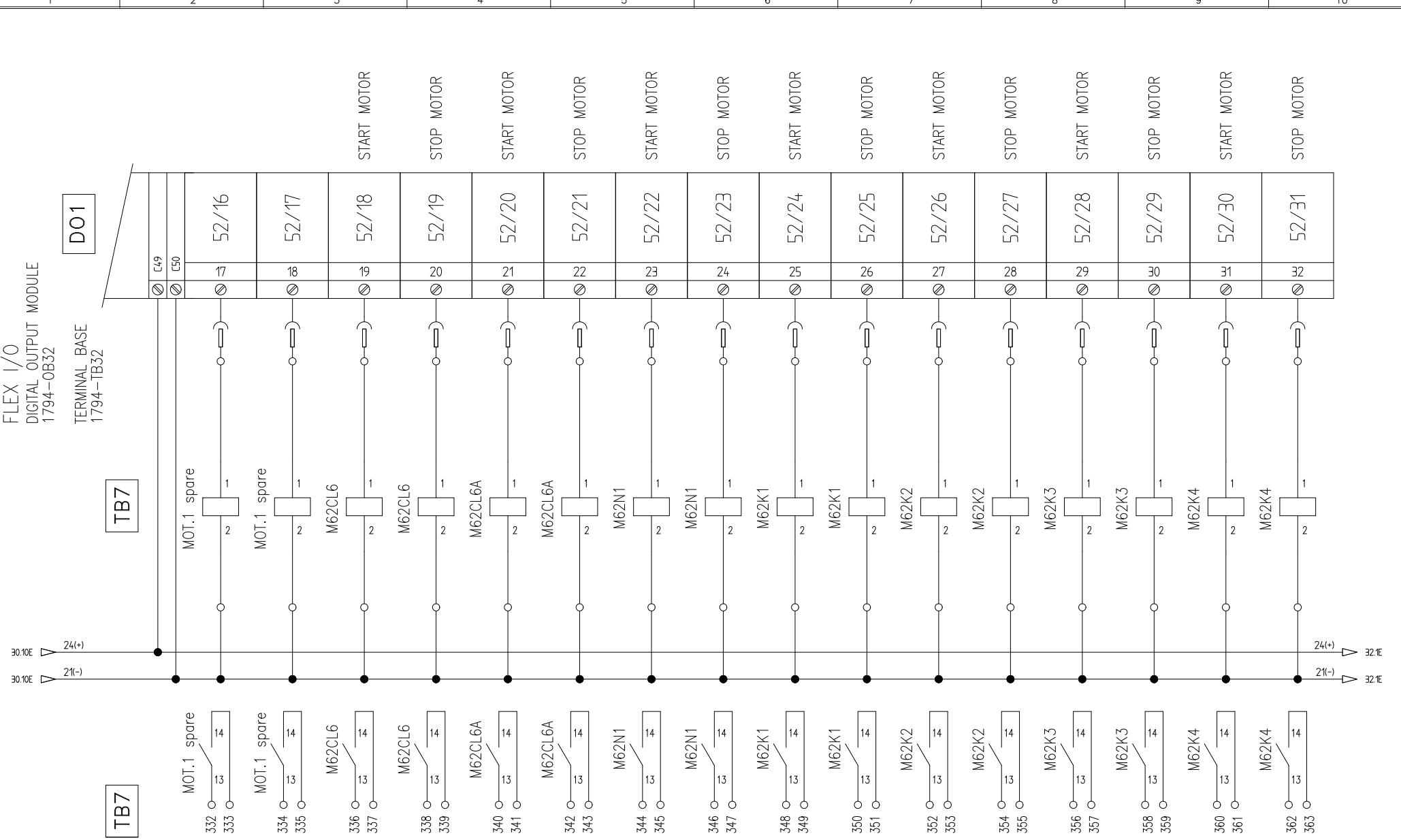
drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 30
31 n.sh

FILE:1E35851001-030



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DIGITAL OUTPUT D01

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 31
32 n.sh

FLEX I/O
DIGITAL OUTPUT MODULE
1794-OB32

DO2

TERMINAL BASE

1794-TB32

TB7

START MOTOR

STOP MOTOR

STOP MOTOR

STOP MOTOR

STOP MOTOR

TB7

M62K5

M62K5

M62A1A

M62A1A

M62A1B

M62A1B

M62A2

M62A2

M62A2

M62F6A

M62F6A

M62F6A

M62F6B

M62F6B

M62P1

M62P1

M62Z1

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DIGITAL OUTPUT D02

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sheet 32

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n.sh

Job: 1E35

dwg. 1E35.85.1001

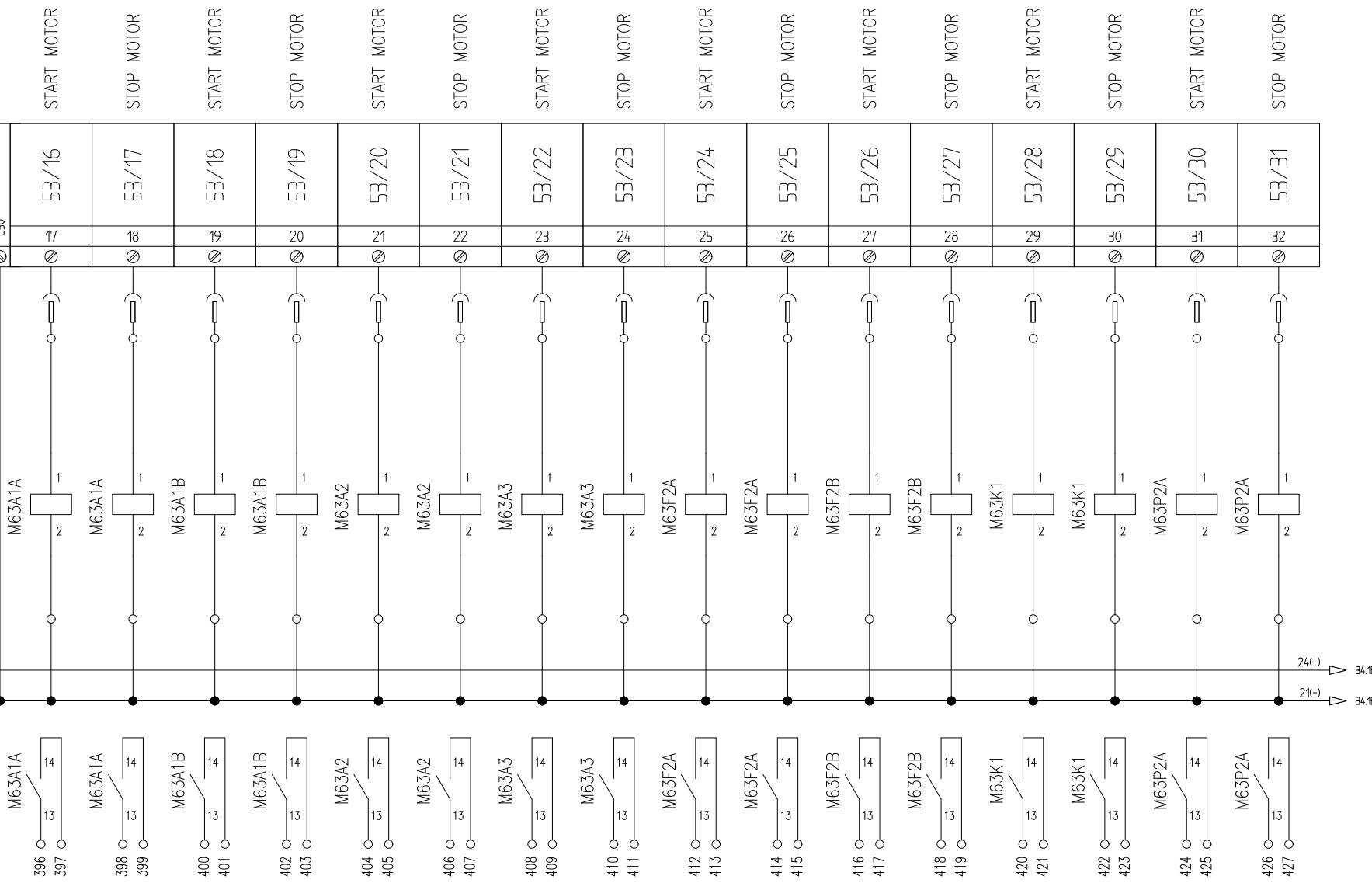
FILE:1E35851001-032

FLEX I/O
DIGITAL OUTPUT MODULE
1794-OB32

TERMINAL BASE
1794-TB32

DO2

TB7



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DIGITAL OUTPUT DO2

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Job: 1E35

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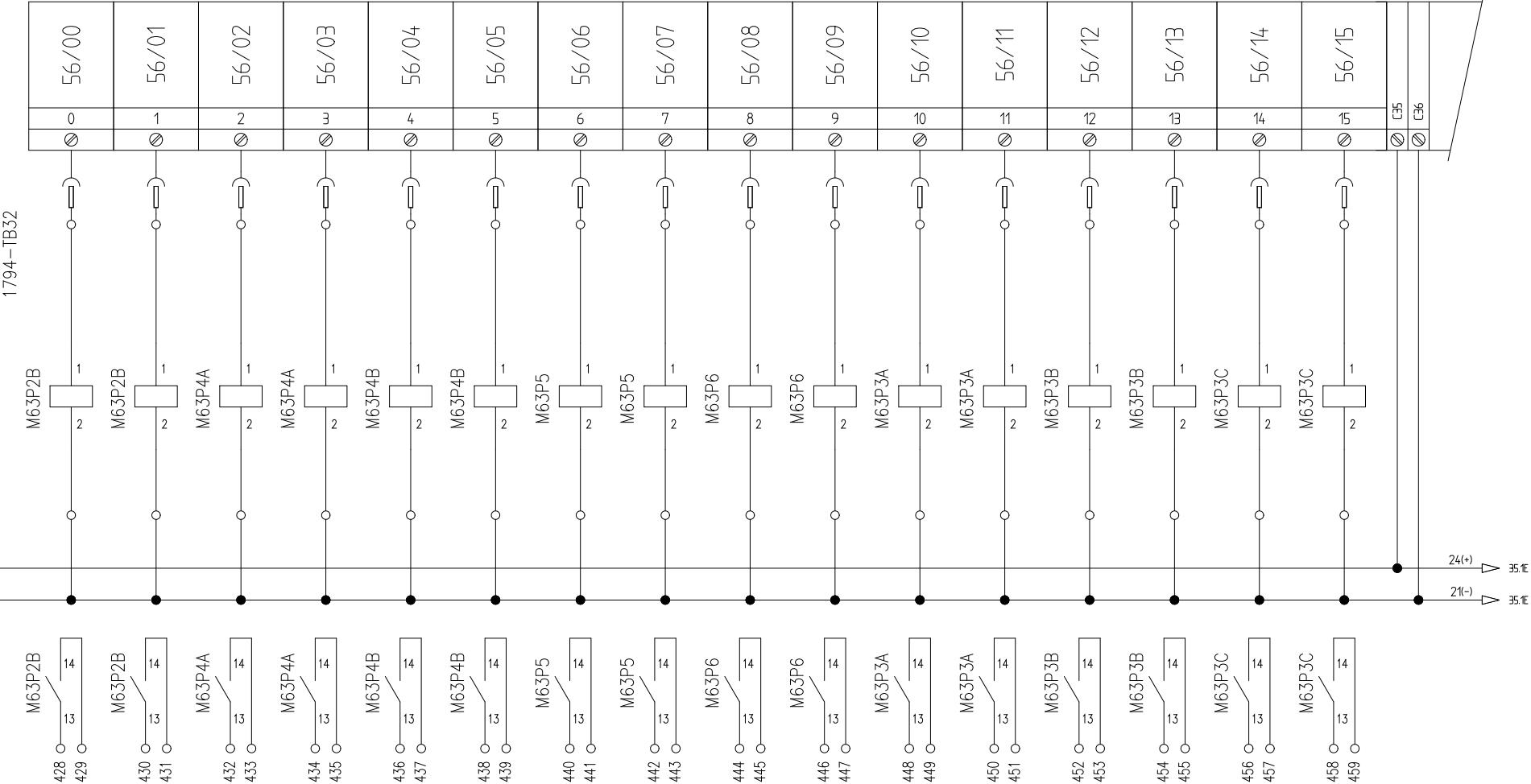
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n.sh

FILE:1E35851001-033

FLEX I/O
DIGITAL OUTPUT MODULE
1794-TB32

DO3



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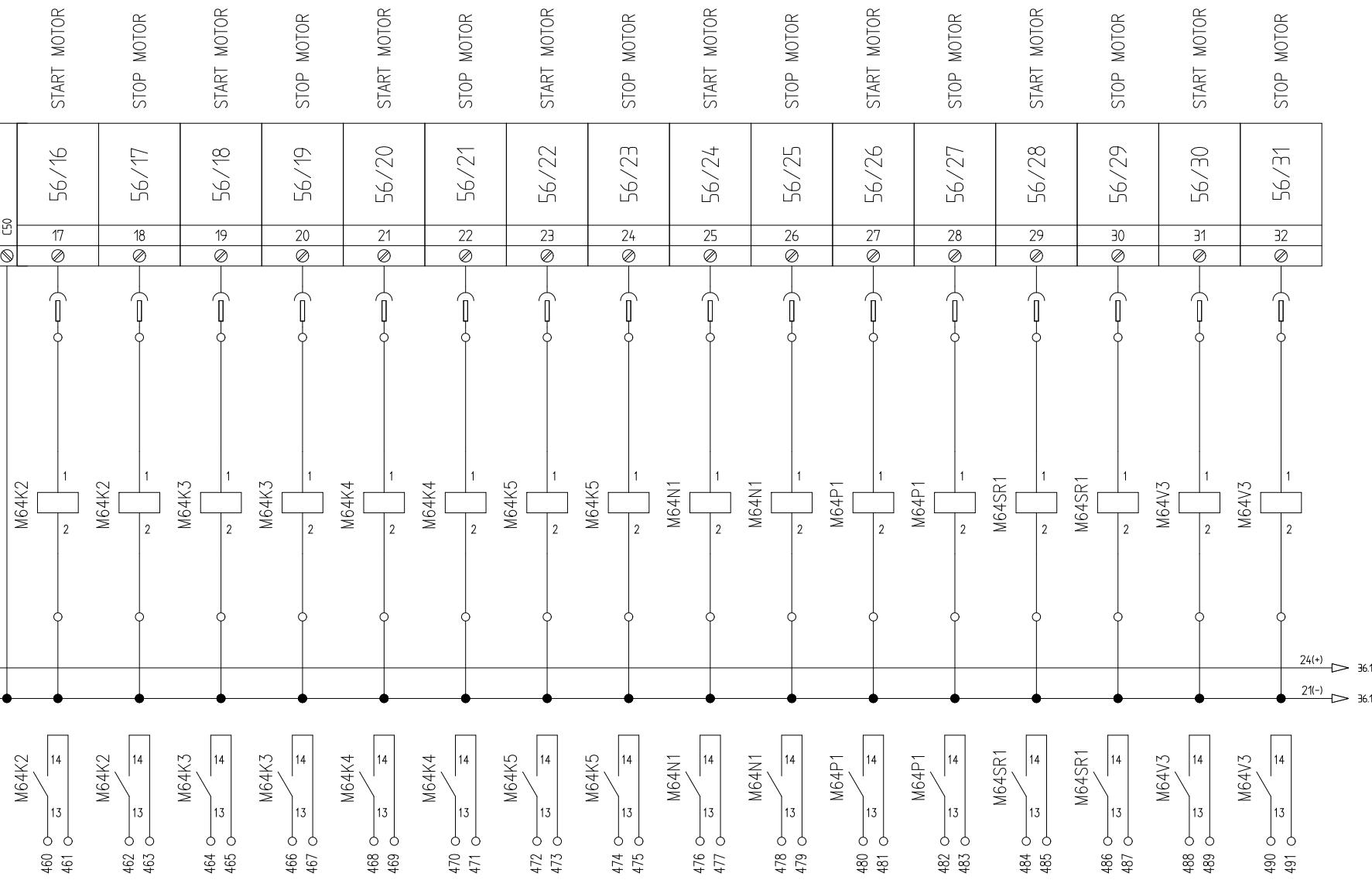
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FLEX I/O
DIGITAL OUTPUT MODULE
1794-OB32

TERMINAL BASE
1794-TB32

DO3

TB7



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Job: 1E35

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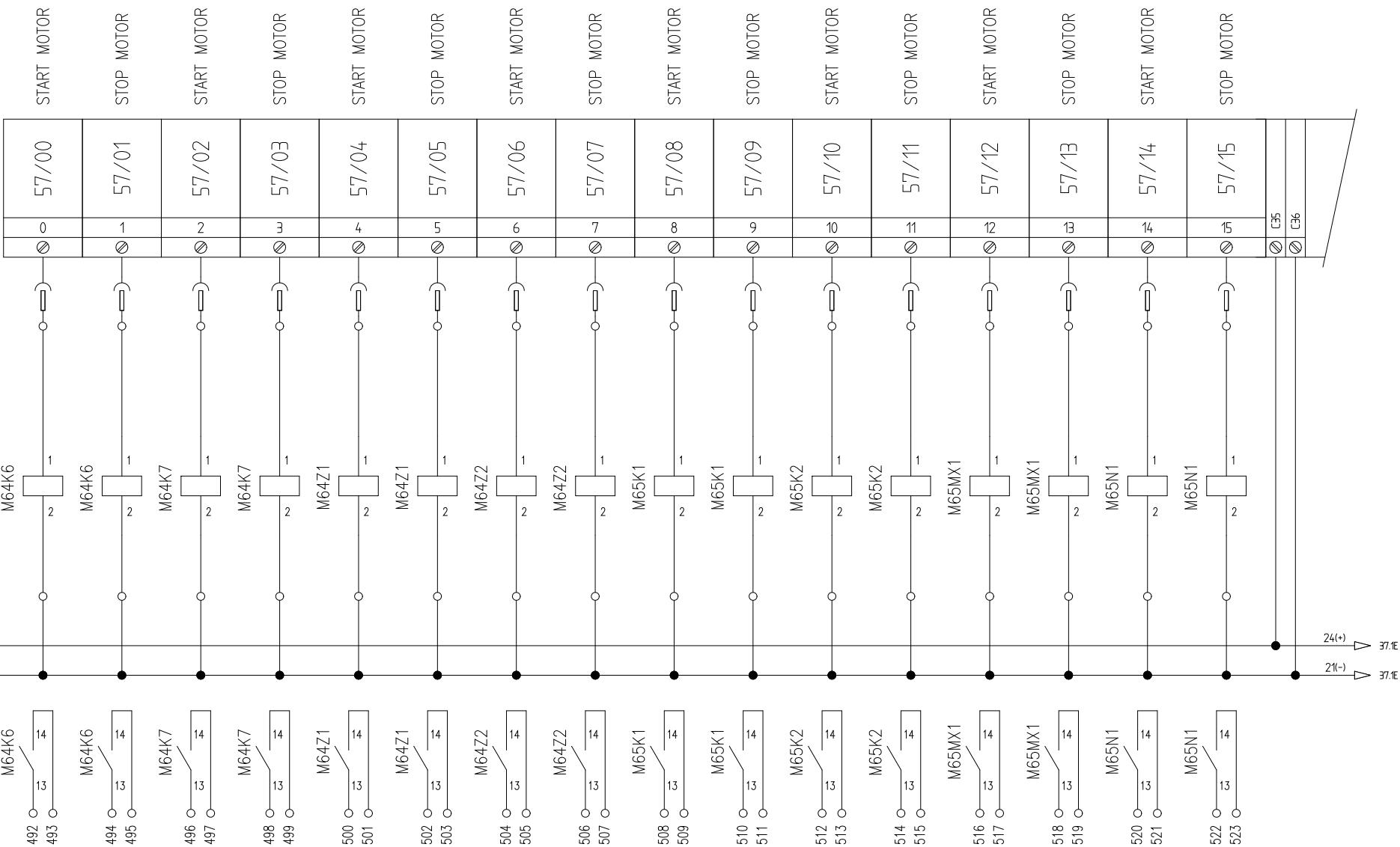
FILE:1E35851001-035

FLEX I/O
DIGITAL OUTPUT MODULE
1794-OB32

DO4

TERMINAL BASE
1794-TB32

TB7



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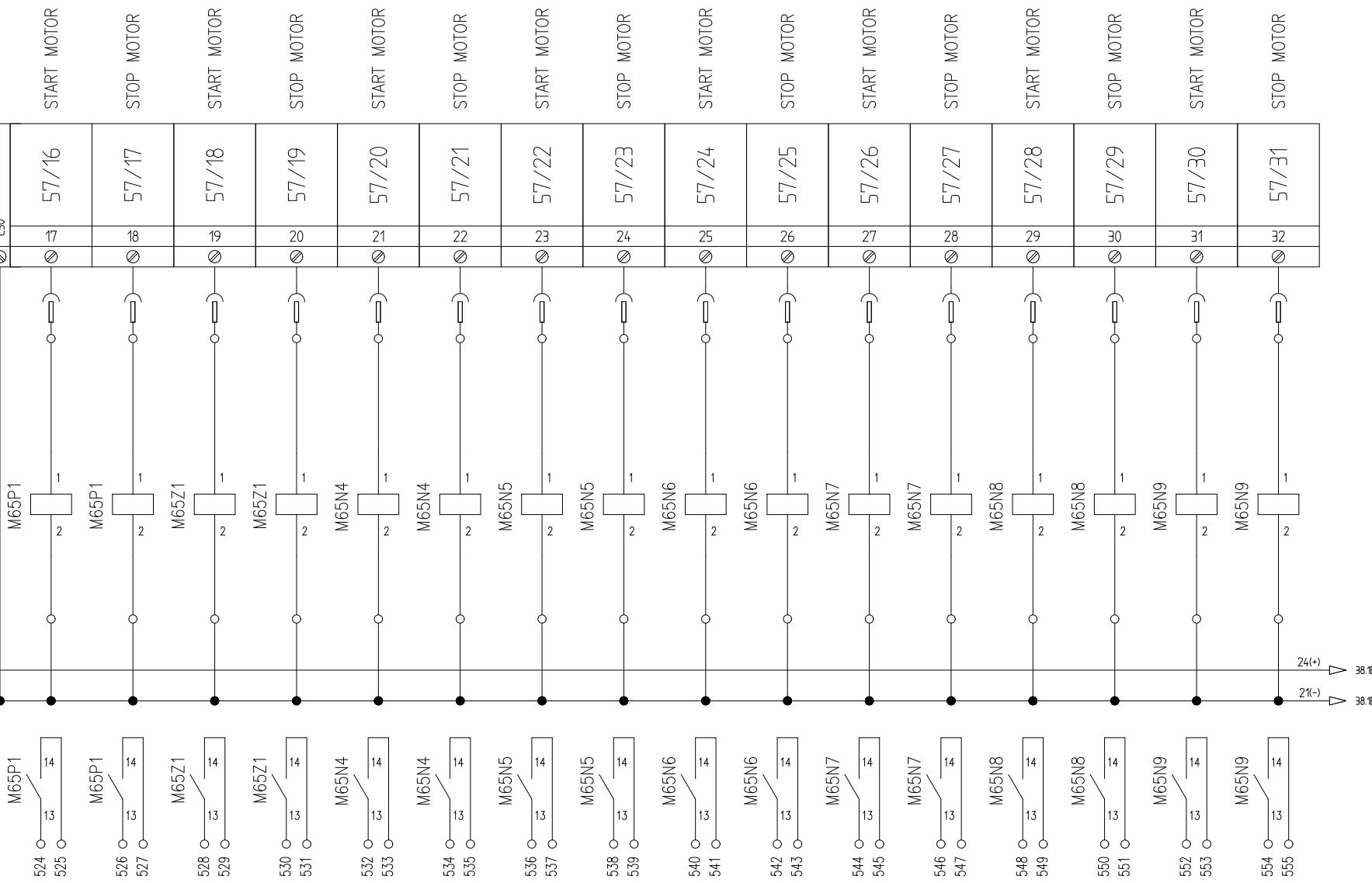
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FLEX I/O
DIGITAL OUTPUT MODULE
1794-OB32

TERMINAL BASE
1794-TB32

DO4

TB7



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DIGITAL OUTPUT D04

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Doc. 08039ED03

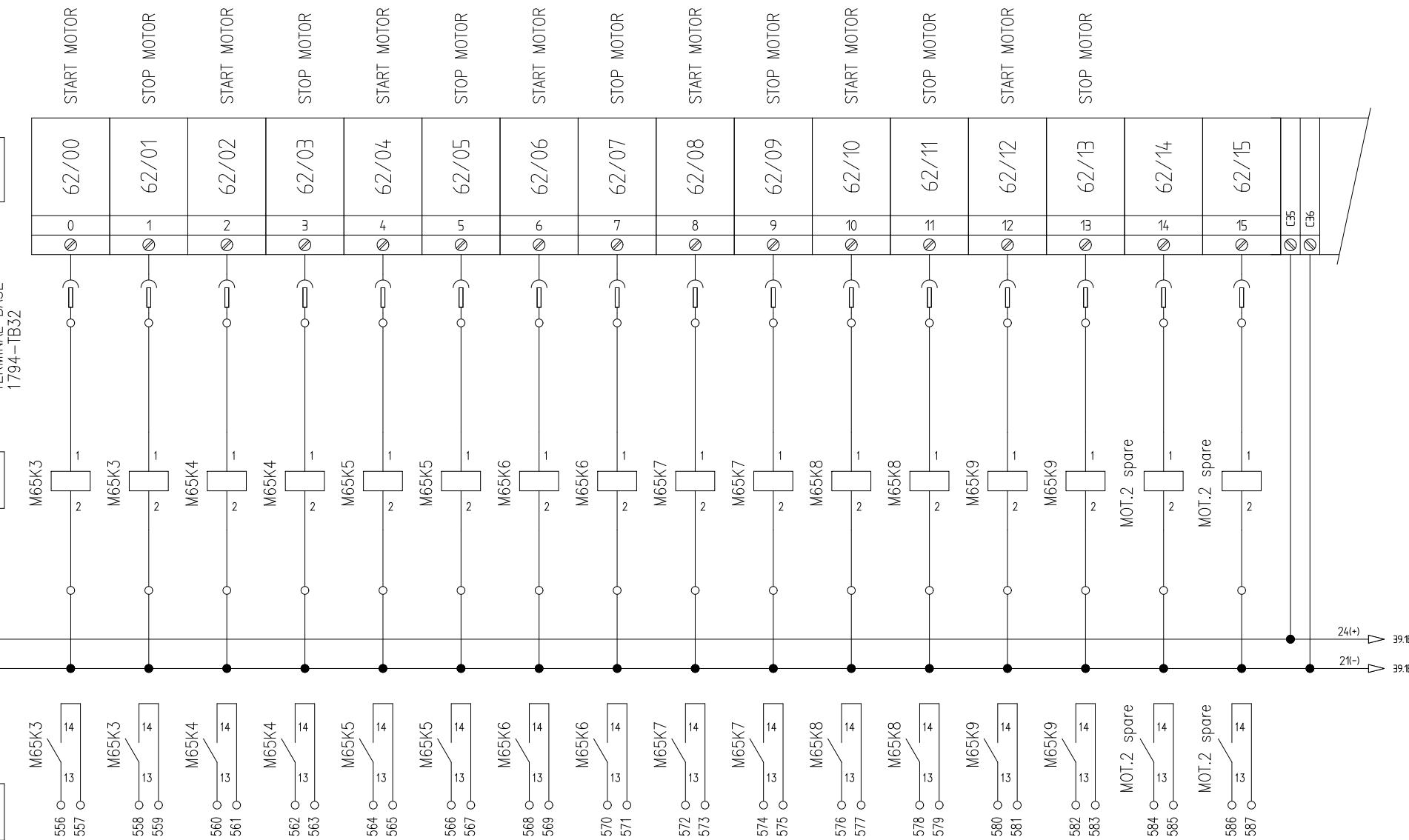
Job: 1E35 dwg. 1E35.85.1001

sheet 37
38 n.sh

FILE:1E35851001-037

FLEX I/O
DIGITAL OUTPUT MODULE
1794-OB32

DO5



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sheet

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n.sh

FILE:1E35851001-038

DIGITAL OUTPUT DO5

drawing's title:

Doc. 08039ED03

Job: 1E35

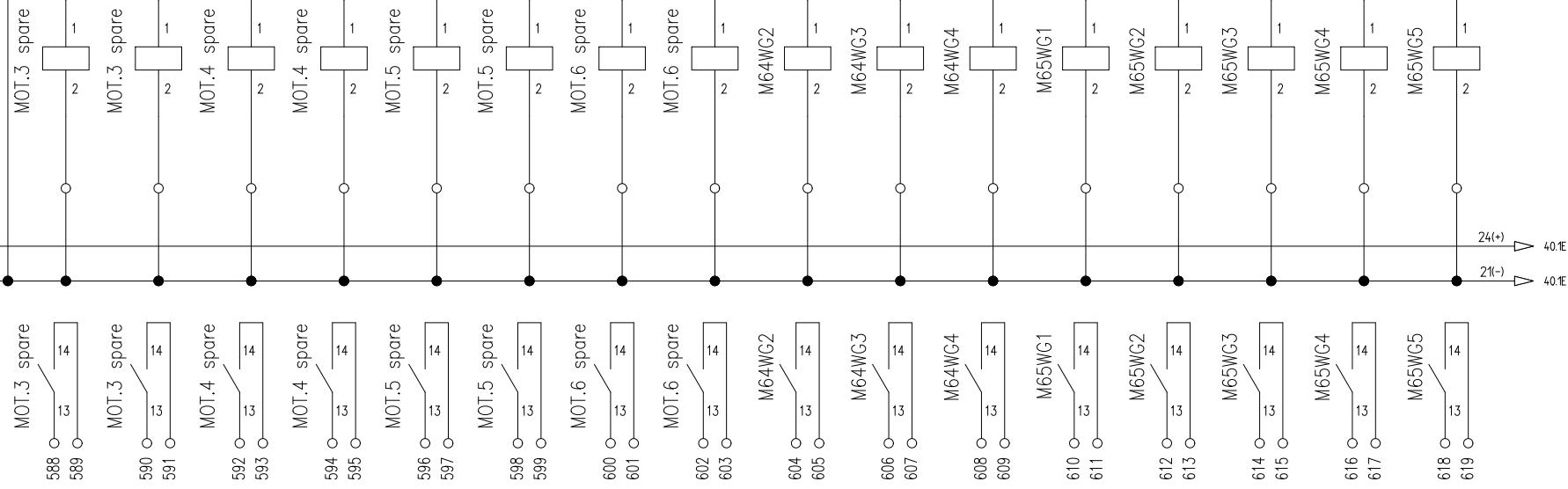
dwg. 1E35.85.1001

FLEX I/O
DIGITAL OUTPUT MODULE
1794-OB32

TERMINAL BASE
1794-TB32

DO5

TB7



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SABIZ PLANT



DIGITAL OUTPUT DO5

drawing's title:

Doc. 08039ED03

Job: 1E35

dwg. 1E35.85.1001

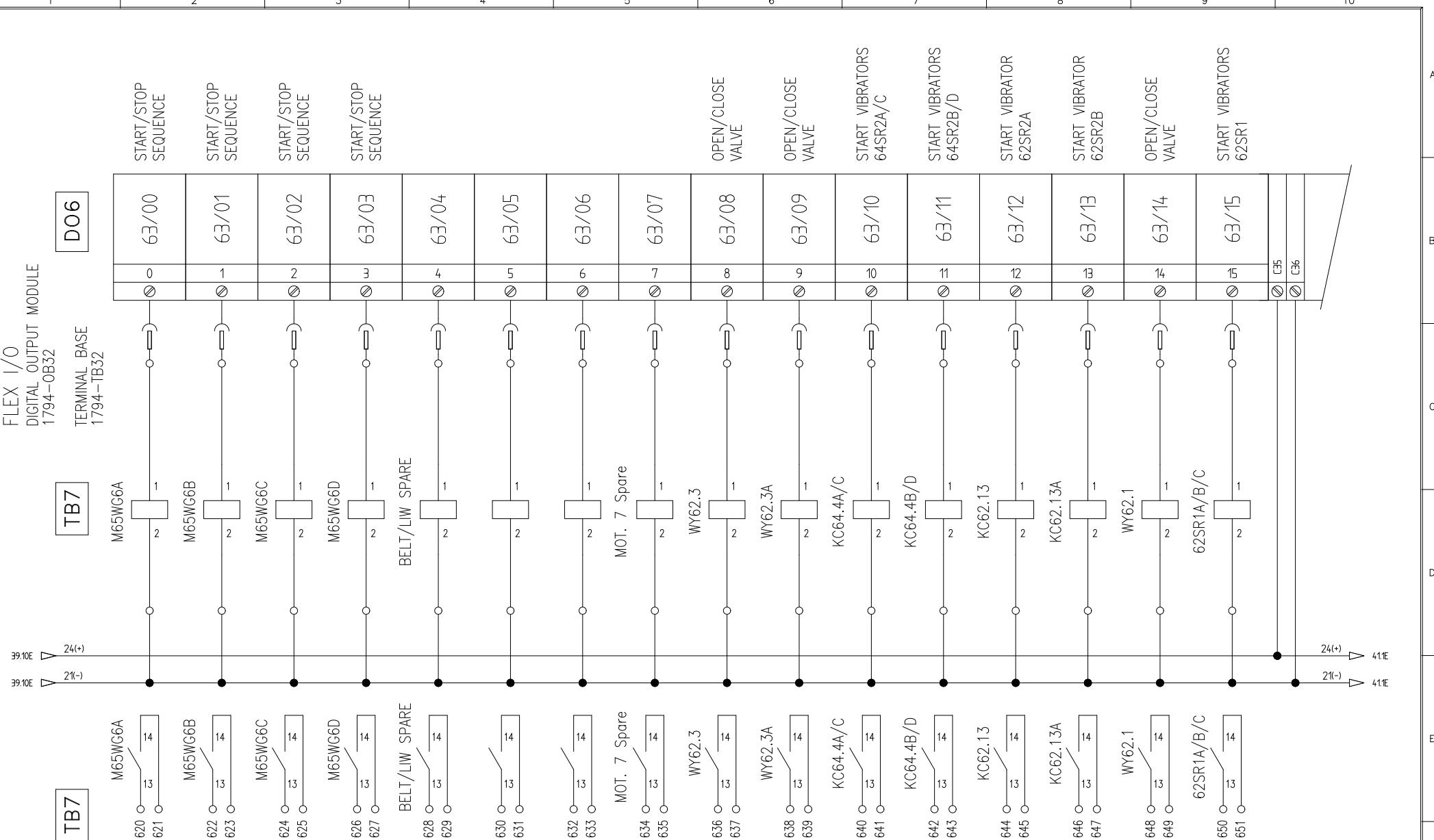
sheet 39

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n.sh

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FILE: 1E35851001-039



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SABIZ PLANT



DIGITAL OUTPUT D06

Doc. 08039ED03

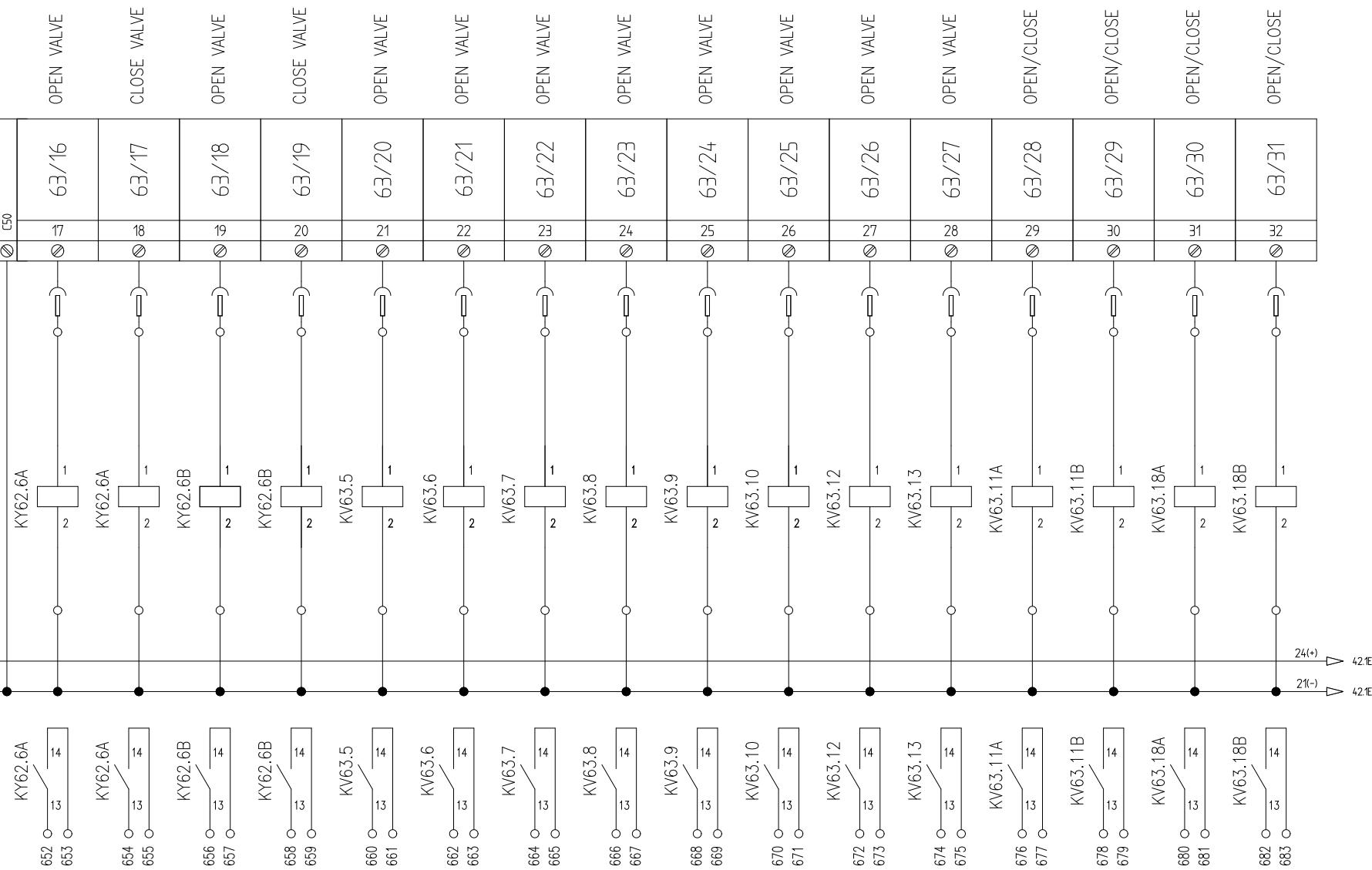
Job: 1E35 dwg. 1E35.85.1001

FLEX I/O
DIGITAL OUTPUT MODULE
1794-OB32

TERMINAL BASE
1794-TB32

DO6

TB7



UNI A3

1 ISSUE FOR CONSTRUCTION

0

Rev.

Revision

12/2010 G.C.

11/2010 G.C.

Date

Name

date 11/2010

desig. GL

check CM

stand. SPAC91

SABIZ PLANT



DIGITAL OUTPUT DO6

drawing's title:

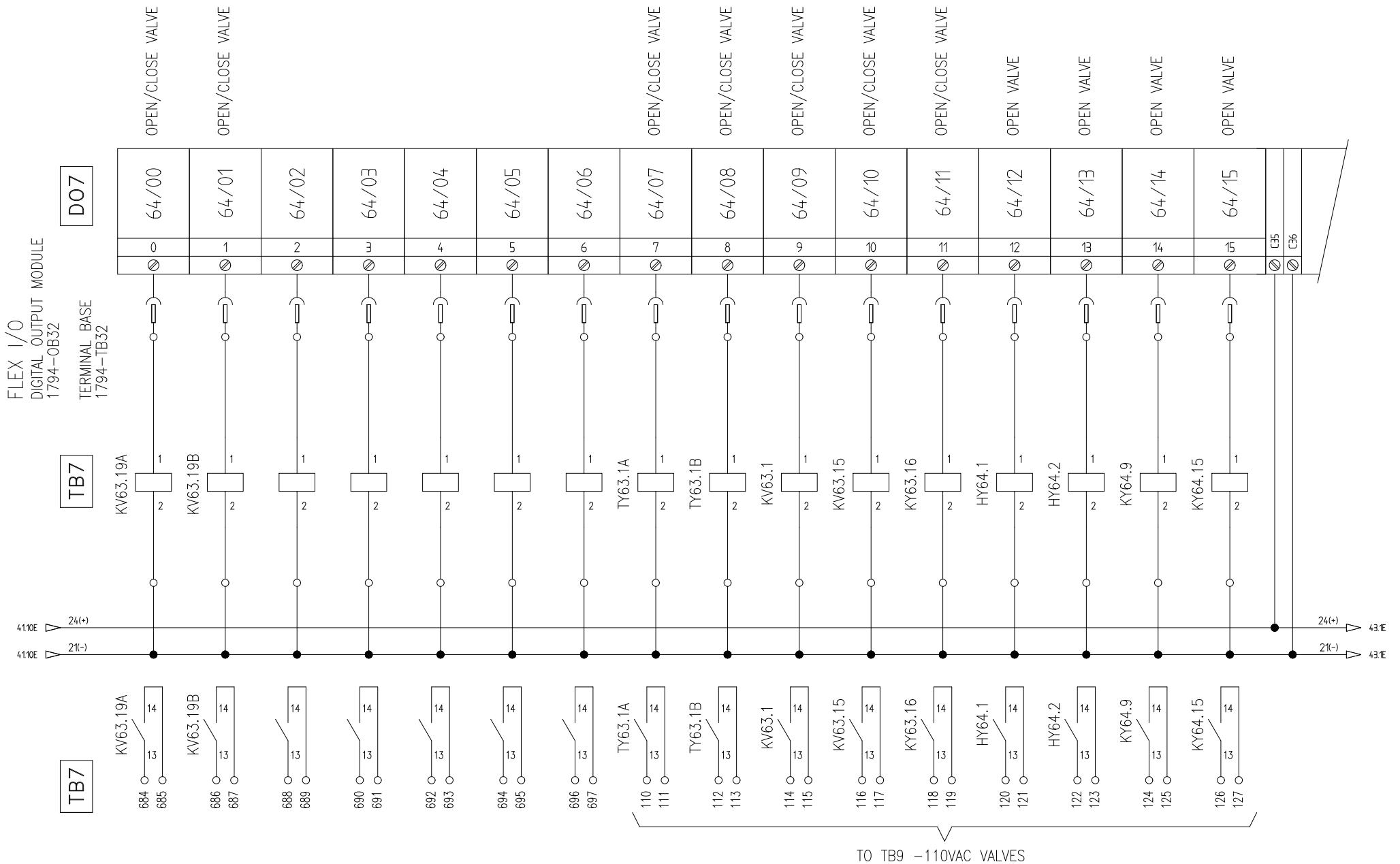
Doc. 08039ED03

Job: 1E35

dwg. 1E35.85.1001

sheet 41

42 n.sh



1	ISSUE FOR CONSTRUCTION	12/2010	G.C.	date	11/2010
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SPAC91

SABIZ PLANT



DIGITAL OUTPUT DO7
drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

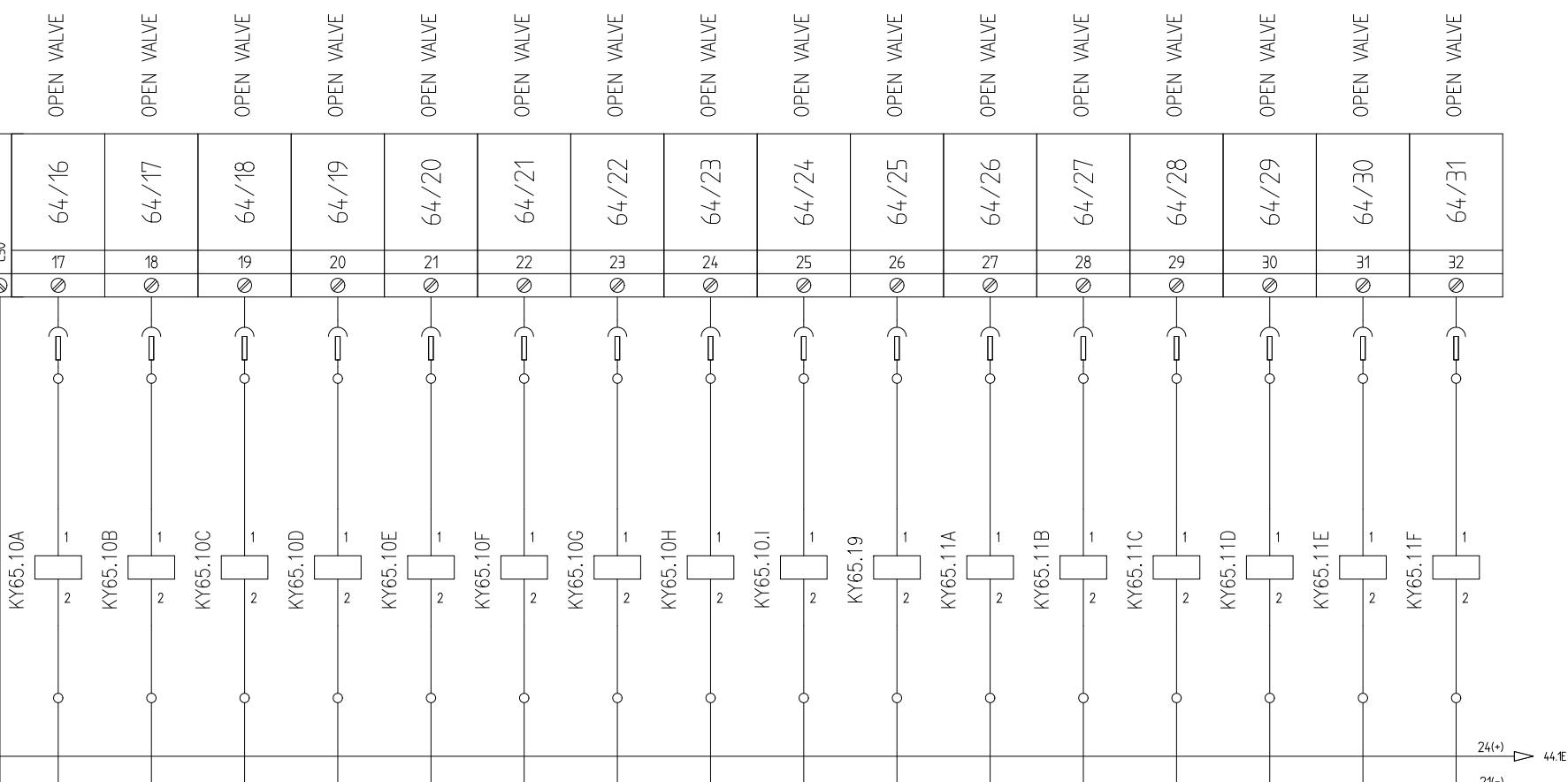
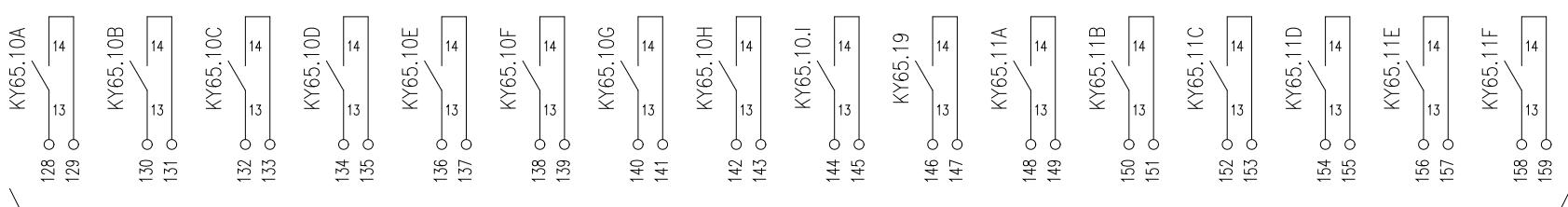
sheet 42
43 n.sh

FLEX I/O
DIGITAL OUTPUT MODULE
1794-OB32

TERMINAL BASE
1794-TB32

DO7

TB7



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SABIZ PLANT



DIGITAL OUTPUT DO7
drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

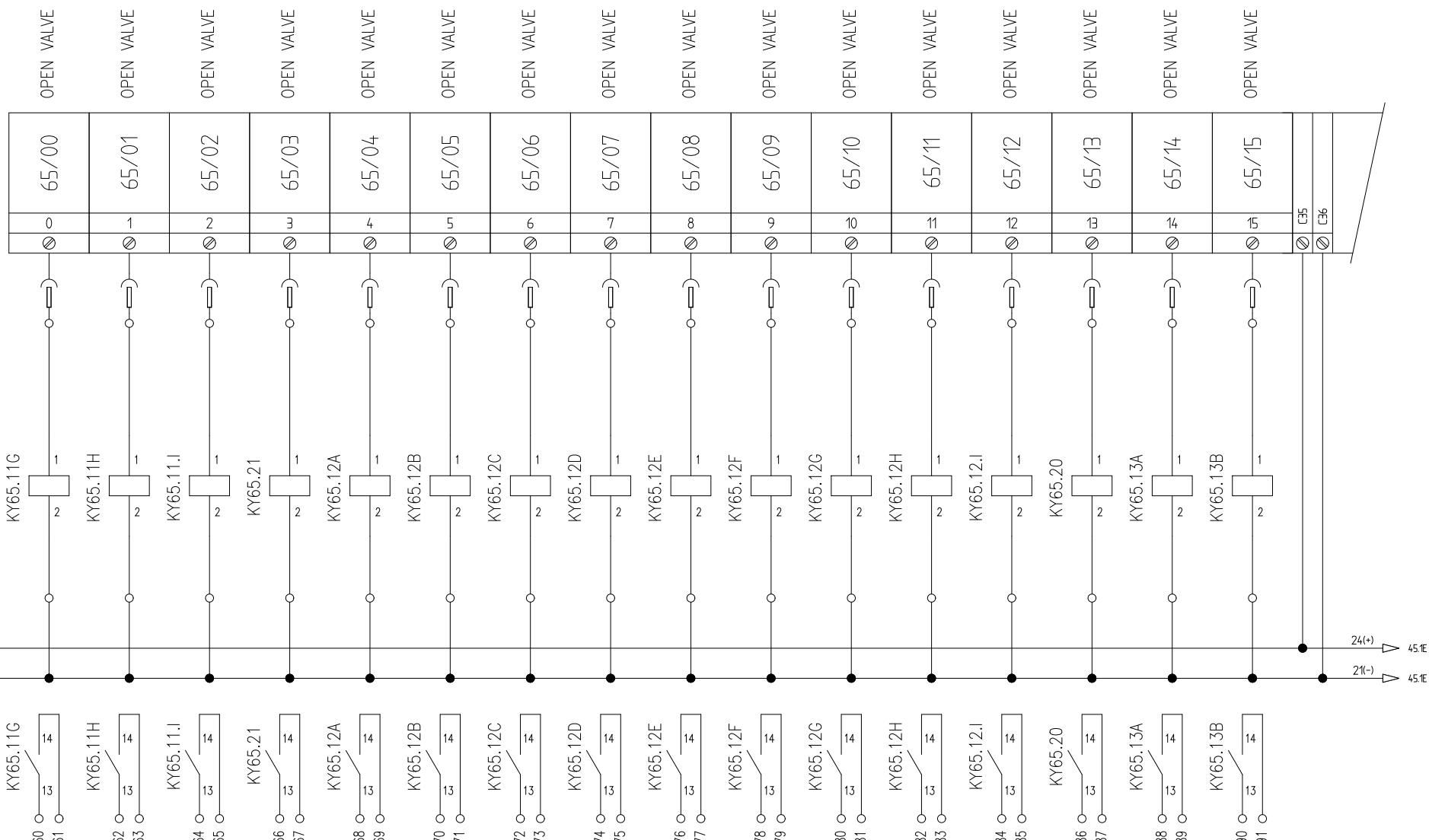
sheet 43
44 n.sh

FLEX I/O
DIGITAL OUTPUT MODULE
1794-OB32

DO8

TERMINAL BASE
1794-TB32

TB7



UNI A3

1

0

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ISSUE FOR CONSTRUCTION
12/2010 G.C.
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11/2010 G.C.
Revision
Date Name

date
desig.
check CM
stand. SPAC91

11/2010
G.C.
CM
SPAC91

SABIZ PLANT



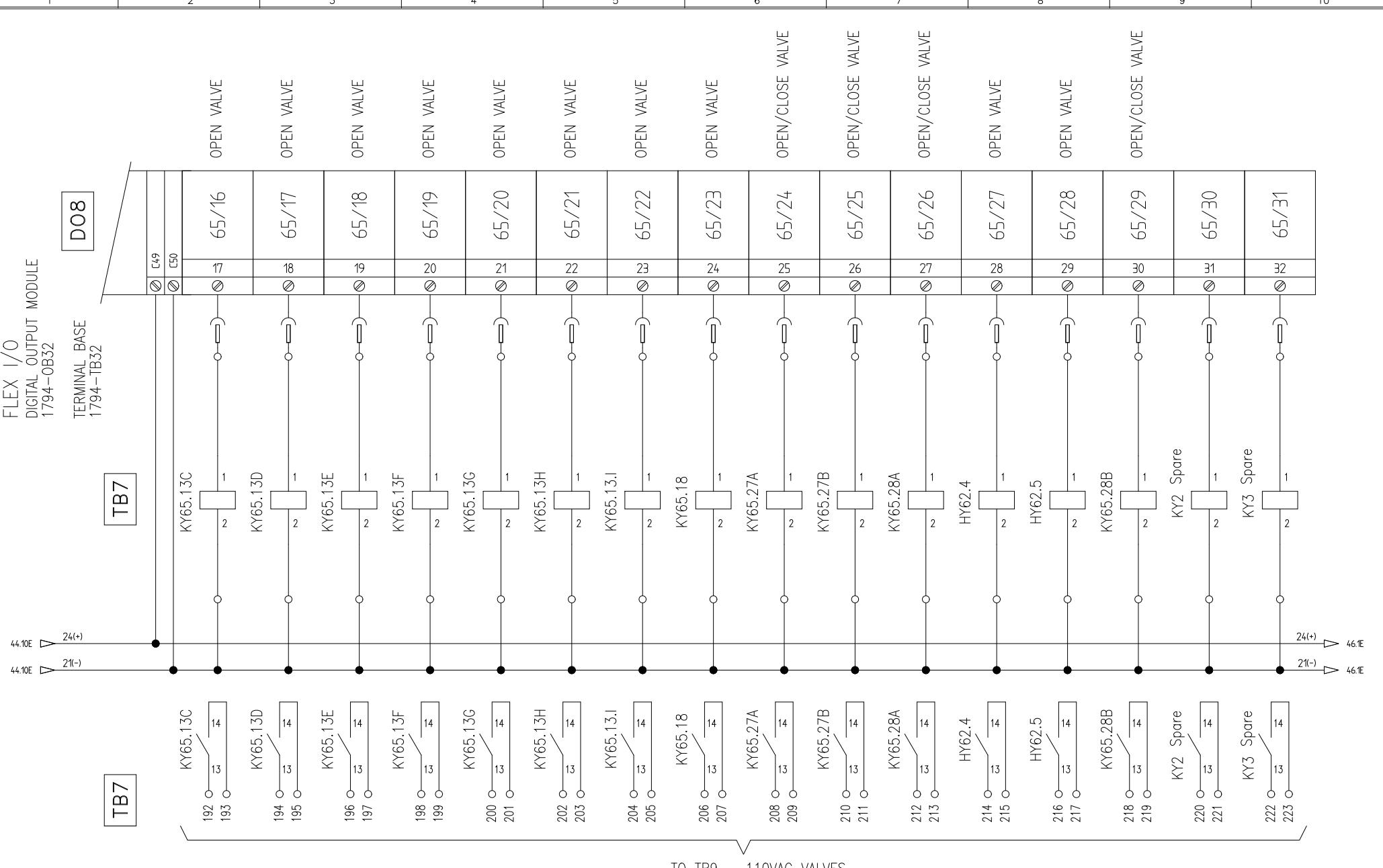
DIGITAL OUTPUT DO8

drawing's title:

Doc. 08039ED03
Job: 1E35

dwg. 1E35.85.1001

sheet 44
45 n.sh



UNI A3	2	ISSUE AFTER TEST	01/2011	G.C.	date	11/2010
	1	ISSUE FOR CONSTRUCTION	12/2010	G.C.	desig.	GC
	0	ISSUE FOR APPROVAL	11/2010	G.C.	check	CM
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2 lt. DIN 6771/Teil 5	1	2				7

SABIZ PLANT



DIGITAL OUTPUT D08

Doc. 08039ED03
Job: 1E35 1

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+
E35 85 1001

FLEX I/O
DIGITAL OUTPUT MODULE
1794-OB32

D09

TERMINAL BASE
1794-TB32

TB7

KY4 Spare

66/00

KY5 Spare

66/01

KY6 Spare

66/02

KY7 Spare

66/03

KY8 Spare

66/04

KY9 Spare

66/05

KY10 Spare

66/06

KY11 Spare

66/07

KY12 Spare

66/08

KY13 Spare

66/09

KY14 Spare

66/10

KY15 Spare

66/11

KY16 Spare

66/12

KY17 Spare

66/13

KY18 Spare

66/14

KY19 Spare

66/15

KY20 Spare

C35

KY21 Spare

C36

KY22 Spare

66/16

KY23 Spare

66/17

KY24 Spare

66/18

KY25 Spare

66/19

KY26 Spare

66/20

KY27 Spare

66/21

45.10E 24(+)

45.10E 21(-)

47.1E 24(+)

47.1E 21(-)

KY4 Spare

224 14
225 13

KY5 Spare

226 14
227 13

KY6 Spare

228 14
229 13

KY7 Spare

230 14
231 13

KY8 Spare

232 14
233 13

KY9 Spare

234 14
235 13

KY10 Spare

236 14
237 13

KY11 Spare

238 14
239 13

KY12 Spare

698 14
699 13

KY13 Spare

700 14
701 13

KY14 Spare

702 14
703 13

KY15 Spare

704 14
707 13

KY16 Spare

706 14
709 13

KY17 Spare

708 14
711 13

KY18 Spare

712 14
713 13

TO TB9 - 110VAC VALVES

1	ISSUE FOR CONSTRUCTION	12/2010	G.C.	date 11/2010
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SABIZ PLANT



DIGITAL OUTPUT D09

drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 46
47 n.sh

FLEX I/O
DIGITAL OUTPUT MODULE
1794-OB32

DO9

TERMINAL BASE
1794-TB32

TB7

66/16

66/17

66/18

66/19

66/20

66/21

66/22

66/23

66/24

66/25

66/26

66/27

66/28

66/29

66/30

66/31

66/32

ITB FOR 61K1

ITB FOR 61K3

ITB FOR 61K4

ITB FOR 61K5

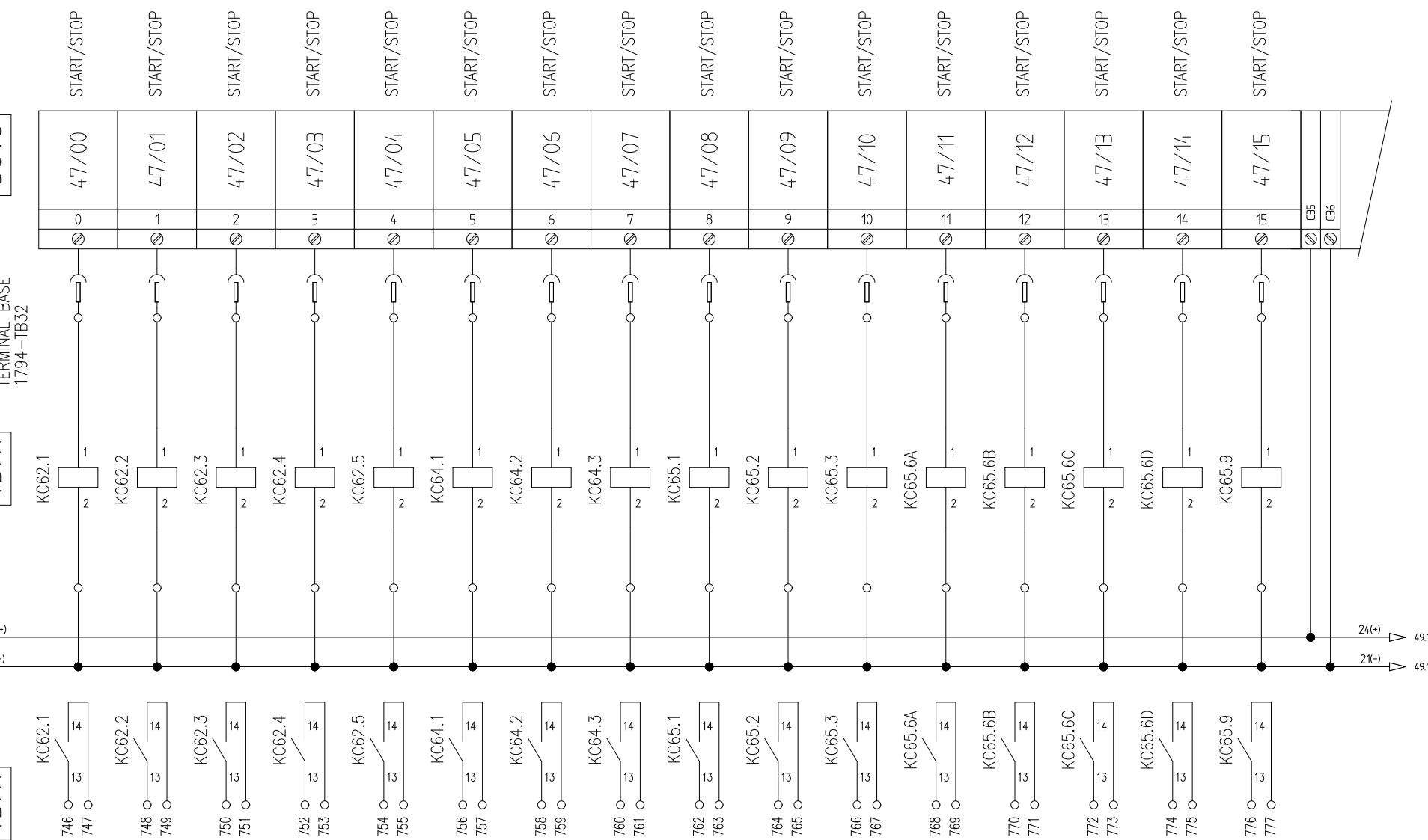
ITB FOR 61K6

FLEX I/O
DIGITAL OUTPUT MODULE
1794-OB32

DO10

TB7A

TB7A



UNI A3

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1

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Rev.

ISSUE AFTER TEST
ISSUE FOR CONSTRUCTION
ISSUE FOR APPROVAL
Revision

01/2011
12/2010
11/2010
Date

G.C.
G.C.
G.C.
Name

date
desig.
check CM
stand. SPAC91

11/2010

desig. GL

CM

SPAC91

SABIZ PLANT

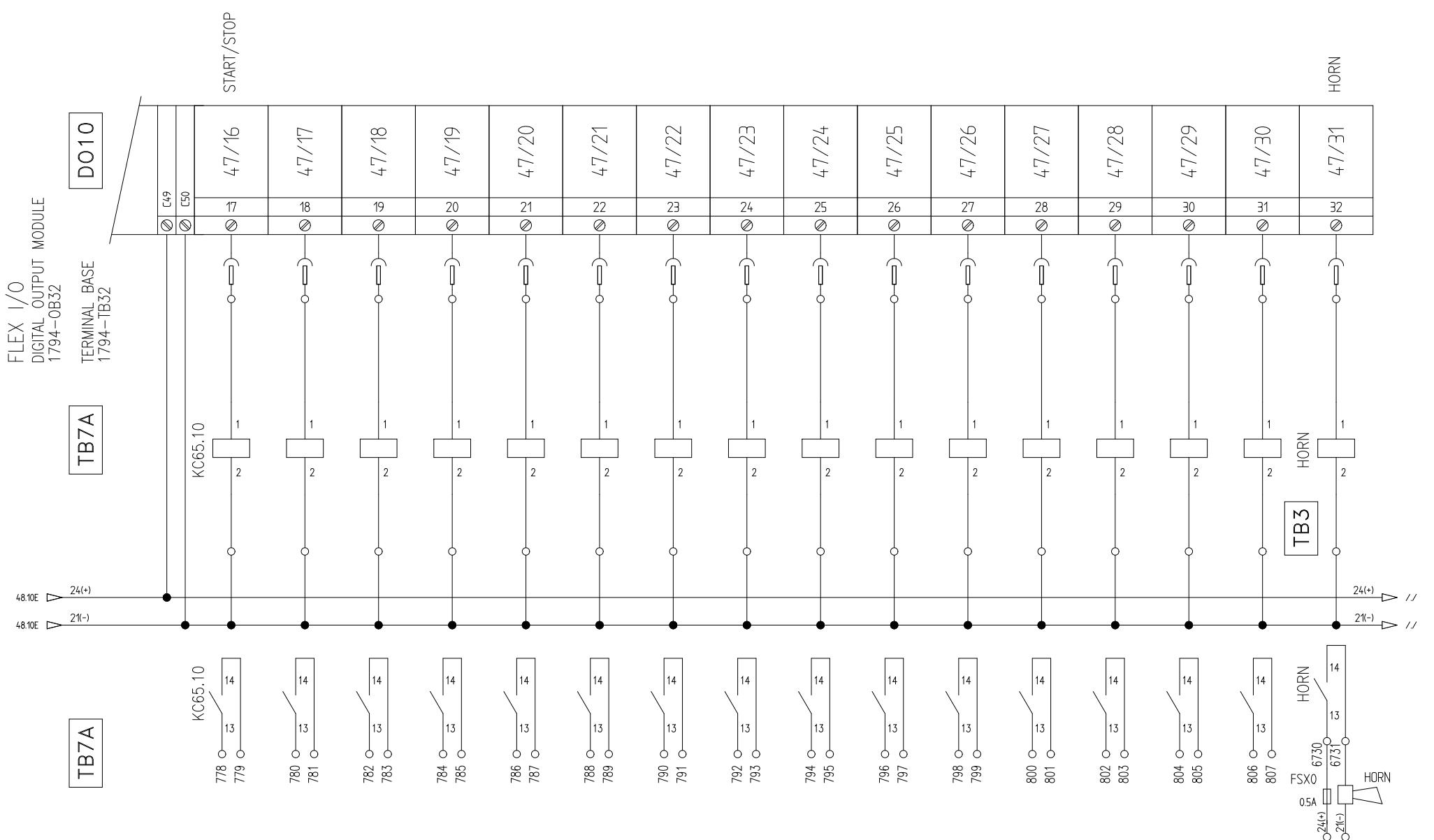


DIGITAL OUTPUT DO10

drawing's title:

Doc. 08039ED03
Job: 1E35

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+
dwg. 1E35.85.1001
sheet 48
49 n.sh



2	ISSUE AFTER TEST	01/2011	G.C.	date	11/2010
1	ISSUE FOR CONSTRUCTION	12/2010	G.C.	desig.	GC
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SABIZ PLANT



DIGITAL OUTPUT DO10
drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 49
50 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-IB32

TERMINAL BASE
1794-TB32

TB8

DI1

30/00

RUNNING INDICATION
UP

30/01

RUNNING INDICATION
DOWN

30/02

CUMULATIVE
FAULT INDICATION

30/03

RUNNING INDICATION

30/04

CUMULATIVE
FAULT INDICATION

30/05

RUNNING INDICATION

30/06

RUNNING INDICATION

30/07

RUNNING INDICATION

30/08

RUNNING INDICATION

30/09

RUNNING INDICATION

30/10

RUNNING INDICATION

30/11

RUNNING INDICATION

30/12

RUNNING INDICATION

30/13

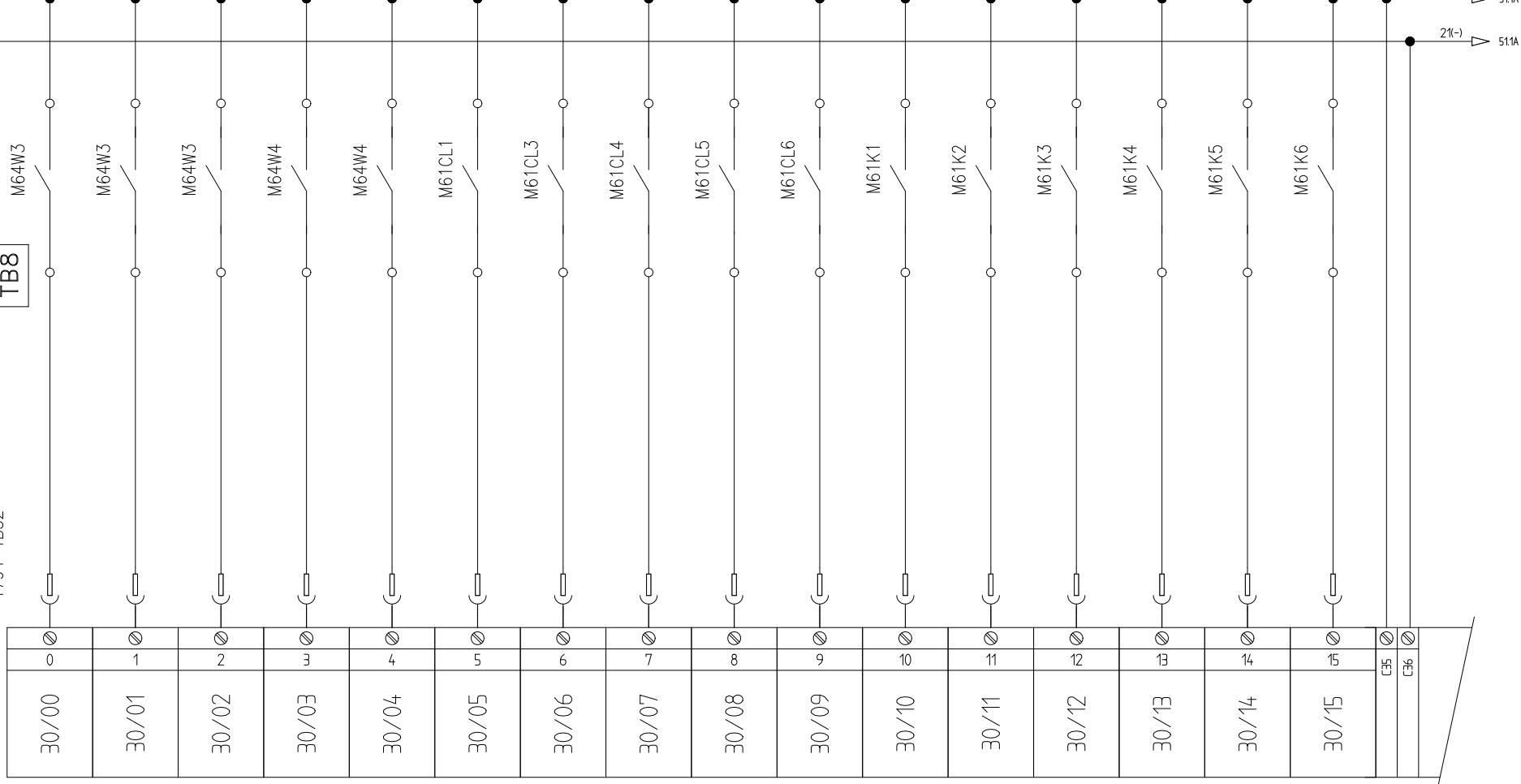
RUNNING INDICATION

30/14

RUNNING INDICATION

30/15

RUNNING INDICATION



UNI A3

					date 11/2010
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SABIZ PLANT



DIGITAL INPUT DI1
drawing's title:

Doc. 08039ED03

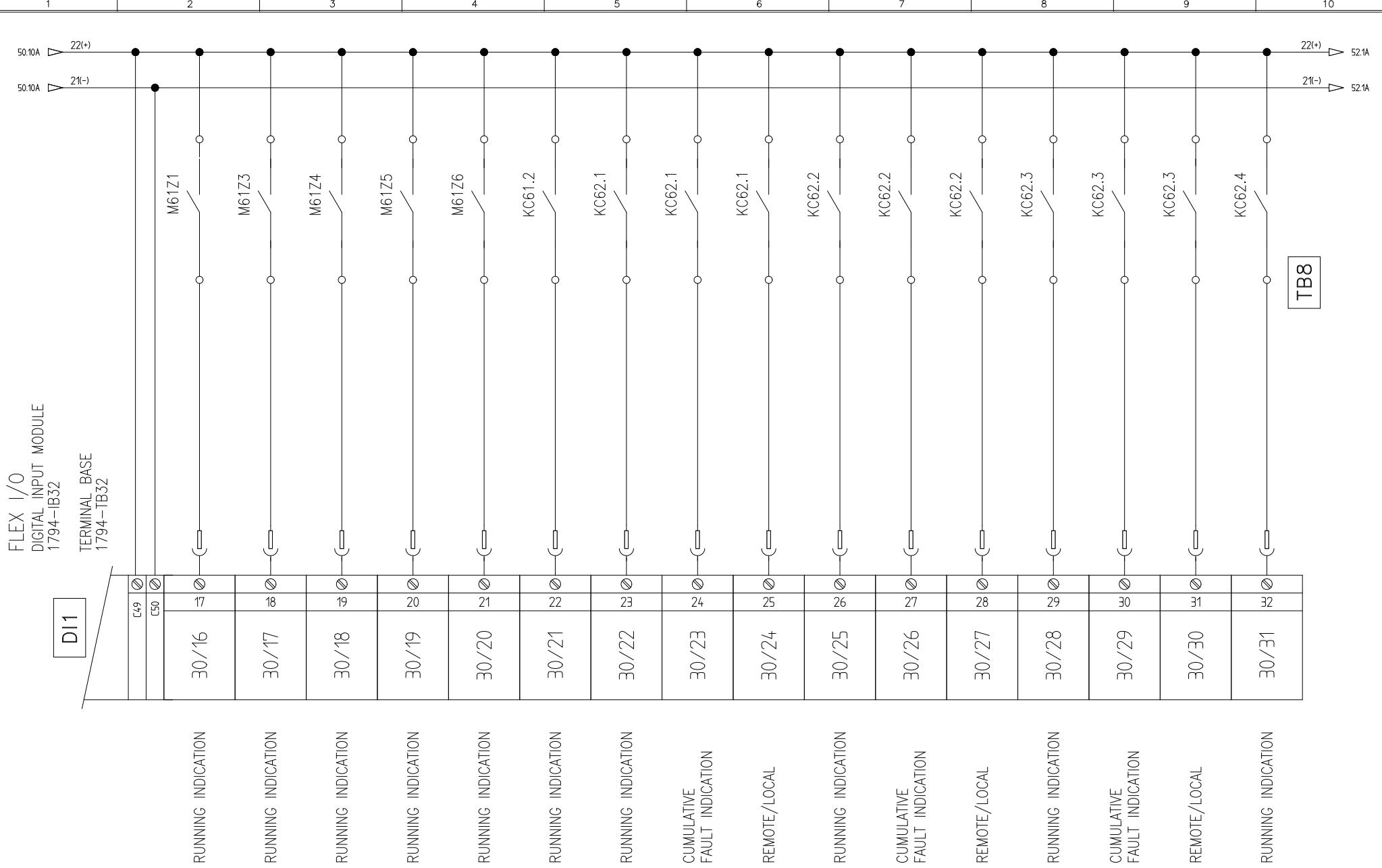
Job: 1E35 dwg. 1E35.85.1001

sheet 50
51 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI1



UNI A3

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2it. DIN 6771/Teil 5 1

SABIZ PLANT



DIGITAL INPUT DI1
drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 51
52 n.sh

FILE:1E35851001-051

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

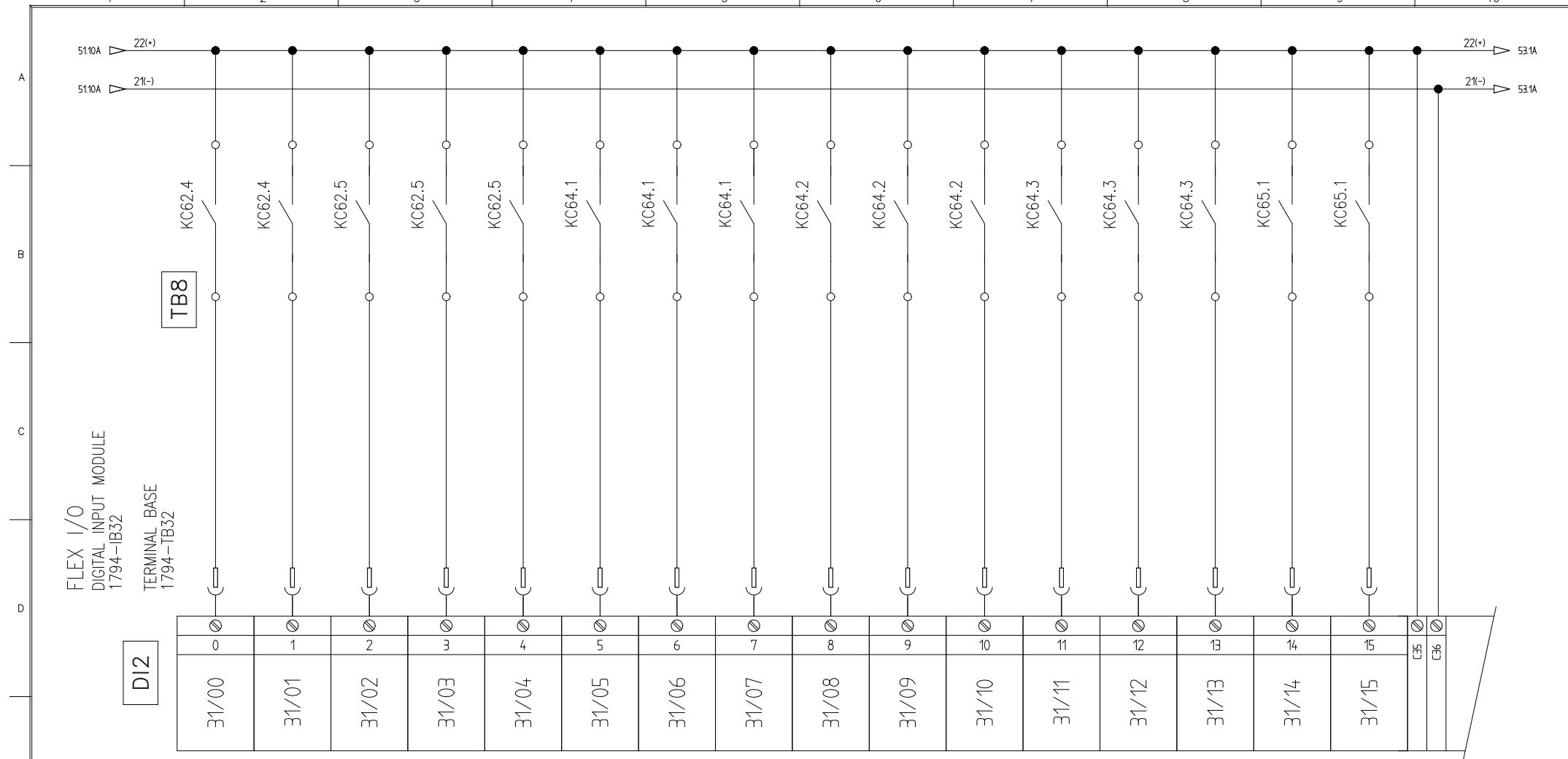
DI2

CUMULATIVE
FAULT INDICATION

REMOTE/LOCAL

RUNNING INDICATION

CUMULATIVE
FAULT INDICATION



1	ISSUE FOR CONSTRUCTION	12/2010	G.C.	date 11/2010
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SABIZ PLANT



DIGITAL INPUT DI2
drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 52
53 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI2

REMOTE/LOCAL

RUNNING INDICATION

CUMULATIVE
FAULT INDICATION

REMOTE/LOCAL

31/16

31/17

31/18

31/19

31/20

31/21

31/22

31/23

31/24

31/25

31/26

31/27

31/28

31/29

31/30

31/31

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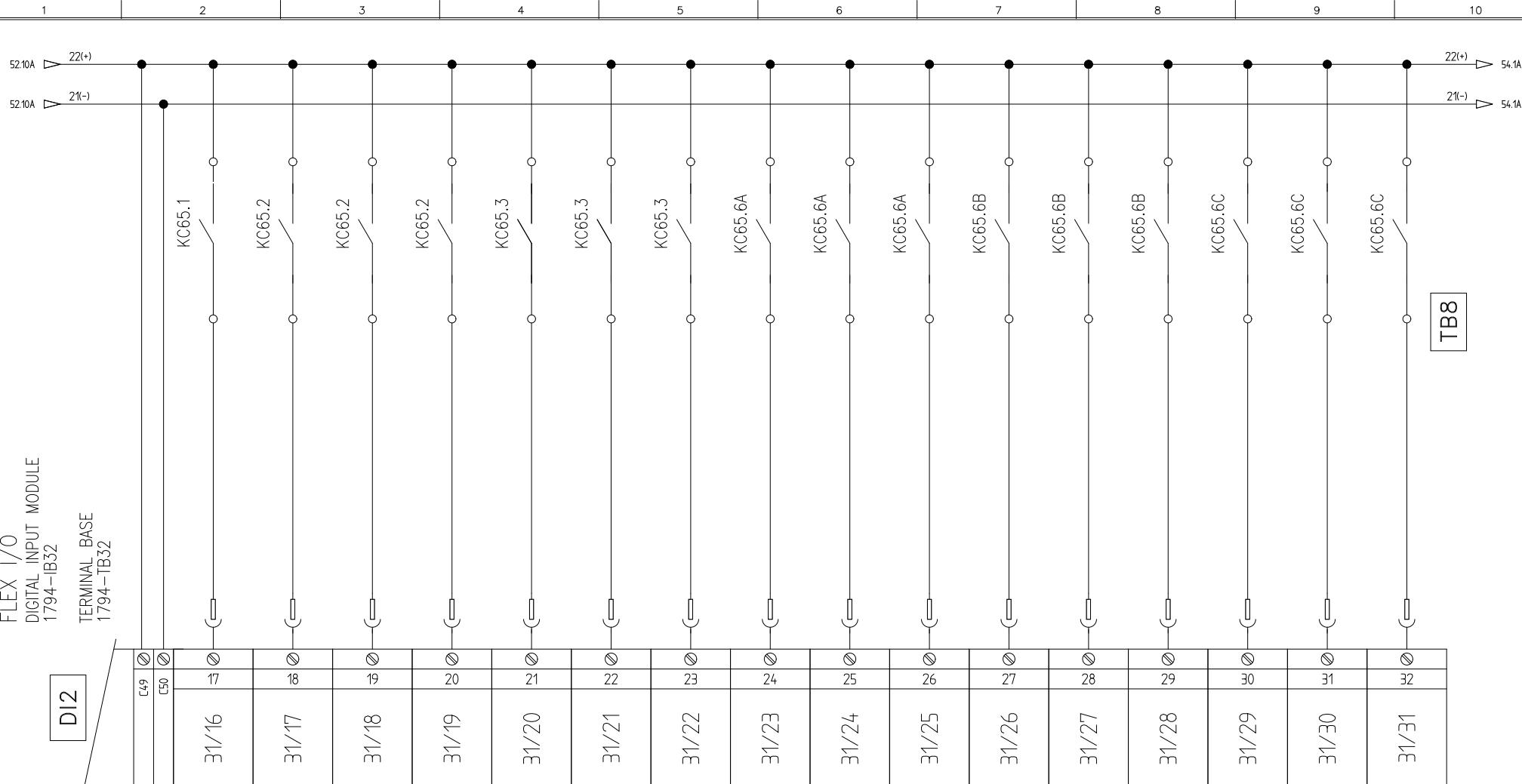
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1	ISSUE FOR CONSTRUCTION	12/2010	G.C.	date	11/2010
0	ISSUE FOR APPROVAL	11/2010	G.C.	desig.	GC
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SABIZ PLANT



DIGITAL INPUT DI2
drawing's title:

Doc. 08039ED03
Job: 1E35

=
+
sheet 53
54
n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE

TB8

32/00

HIGH PRESSURE

32/01

HIGH PRESSURE

32/02

HIGH PRESSURE

32/03

HIGH PRESSURE

32/04

HIGH PRESSURE

32/05

HIGH LEVEL

32/06

LOW LEVEL

32/07

HIGH LEVEL

32/08

LOW LEVEL

32/09

HIGH LEVEL

32/10

LOW LEVEL

32/11

HIGH LEVEL

32/12

LOW LEVEL

32/13

HIGH LEVEL

32/14

LOW LEVEL

32/15

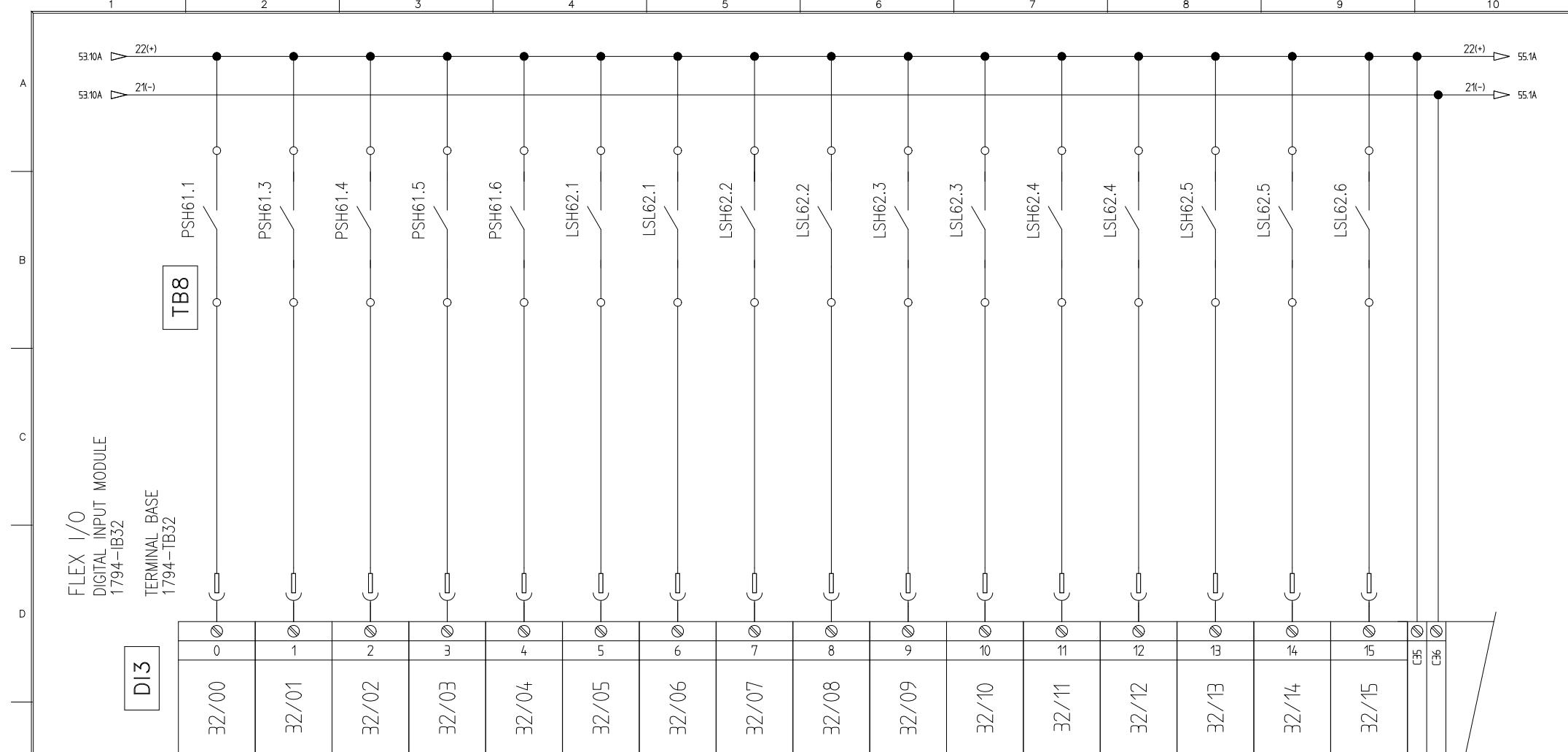
LOW LEVEL

C35

∅

C36

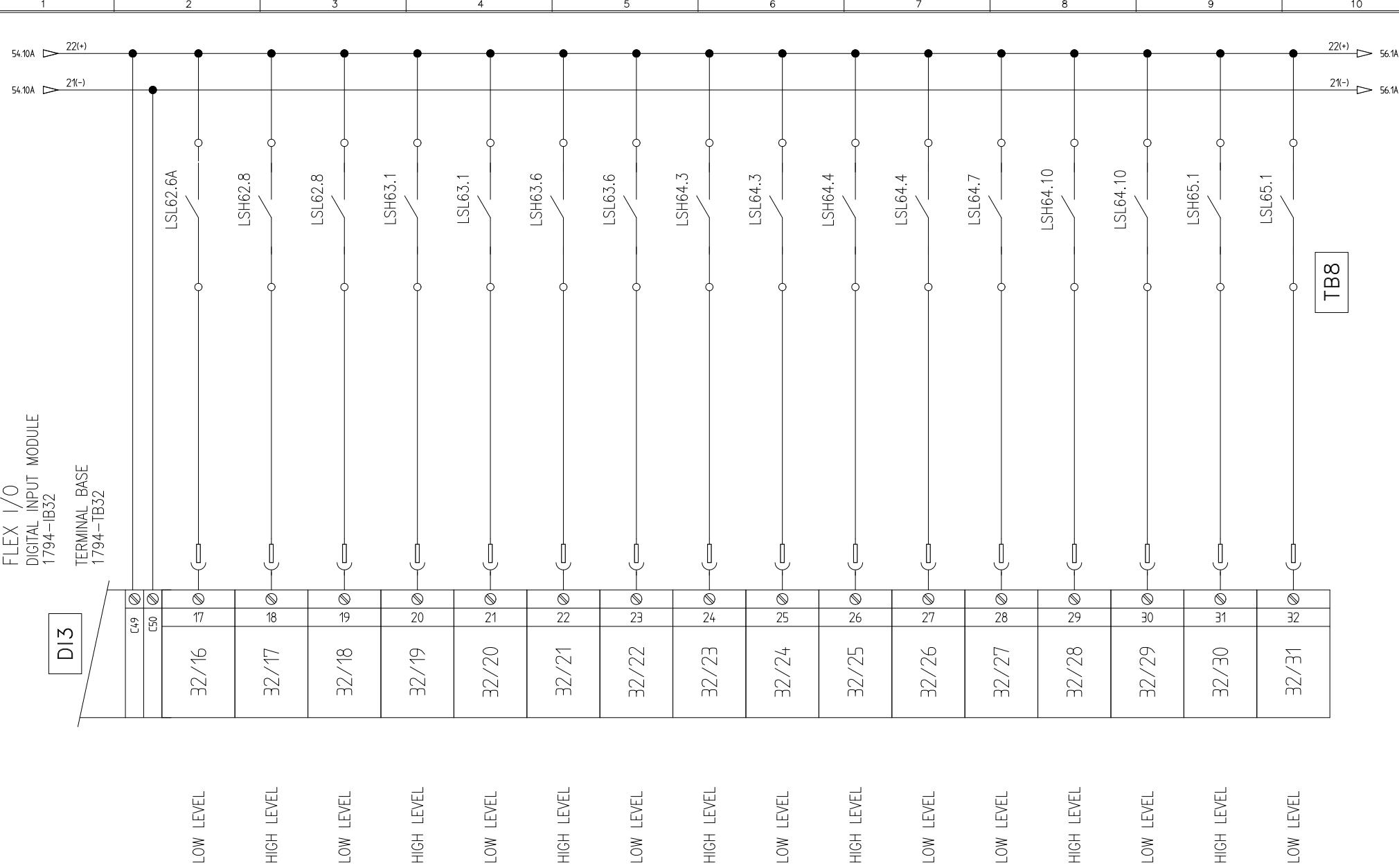
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FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI3



UNI A3					date 11/2010				Doc. 08039ED03	=
0	ISSUE FOR APPROVAL	11/2010	G.C.	check CM	desig. GL				Job: 1E35	+
Rev.	Revision	Date	Name	stand.	SPAC91	SABIZ PLANT	desmet ballistra	drawing's title:	dwg. 1E35.85.1001	sheet 55
2it. DIN 6771/Teil 5 1										n.sh 56

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

DI4

TERMINAL BASE

1794-TB32

HIGH LEVEL

LOW LEVEL

LOW LEVEL

HIGH LEVEL

LOW LEVEL

HIGH TEMPERATURE

33/00

33/01

33/02

33/03

33/04

33/05

33/06

33/07

33/08

33/09

33/10

33/11

33/12

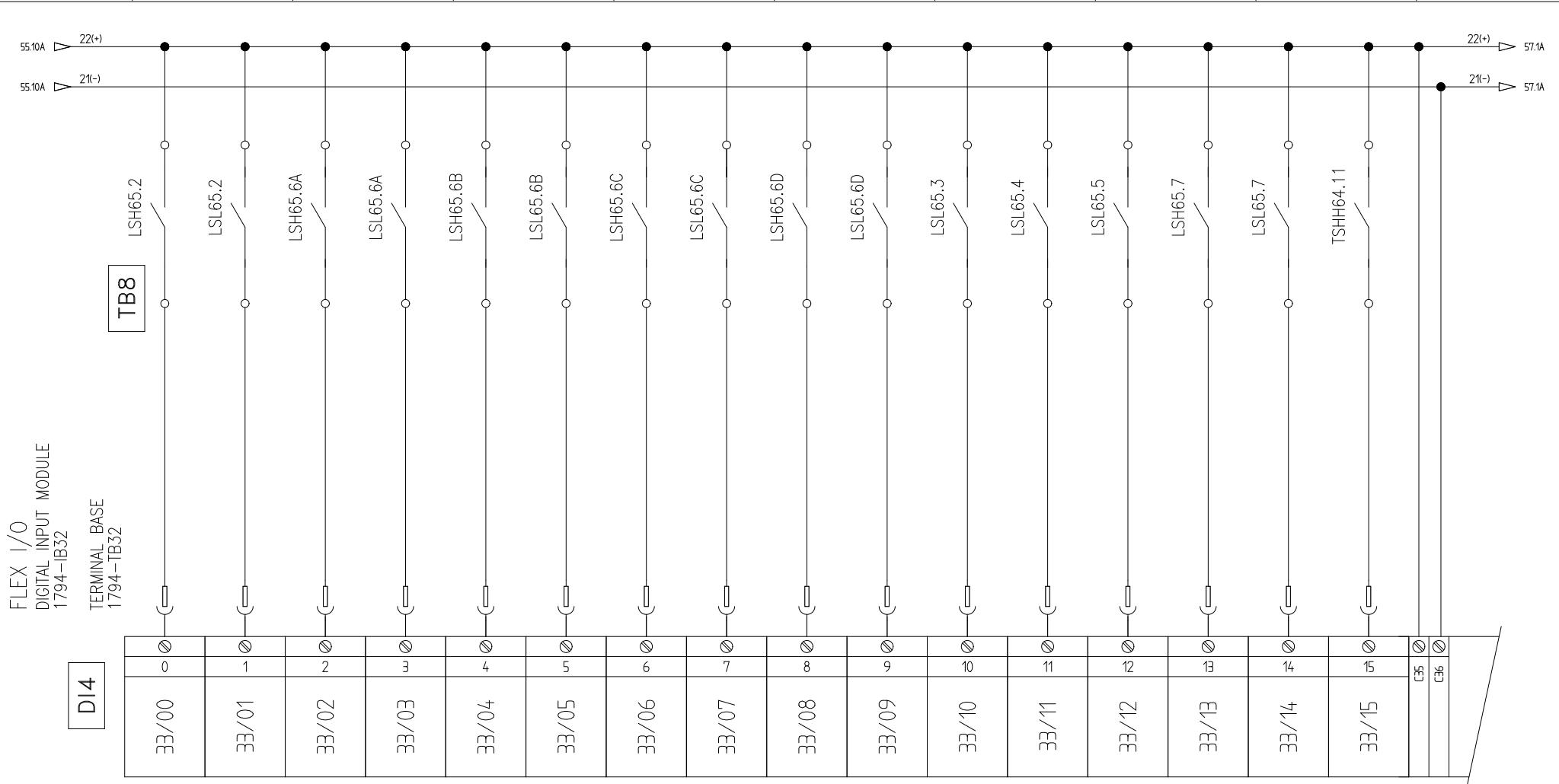
33/13

33/14

33/15

C35

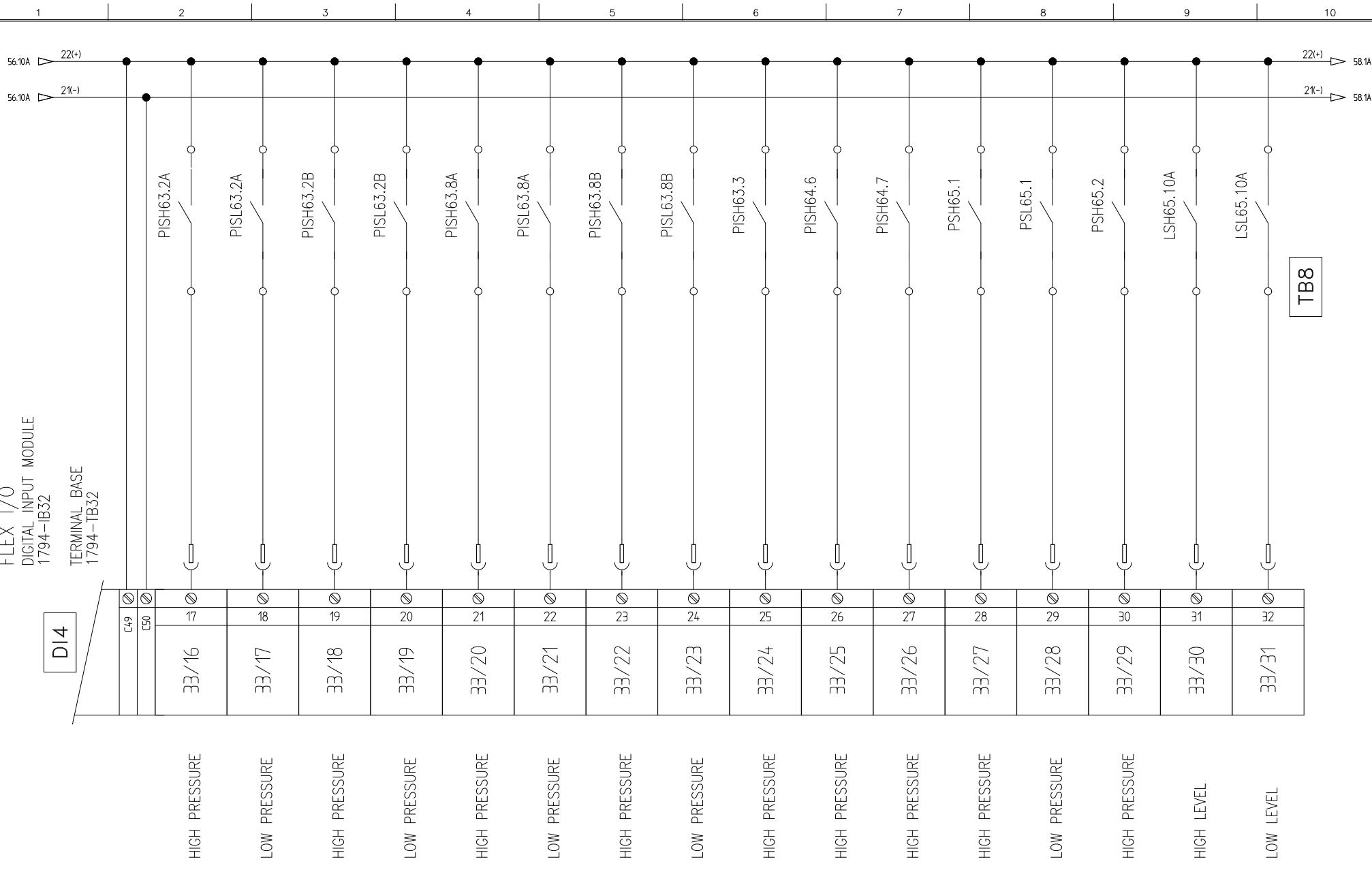
C36



FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI4



UNI A3

					date	11/2010
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2it. DIN 6771/Teil 5 1

SABIZ PLANT



DIGITAL INPUT DI4
drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 57
58 n.sh
FILE:1E35851001-057

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

DI5

TERMINAL BASE

1794-TB32

HIGH LEVEL

LOW LEVEL

34/00

34/01

34/02

34/03

34/04

34/05

34/06

34/07

34/08

34/09

34/10

34/11

34/12

34/13

34/14

34/15

C35

C36

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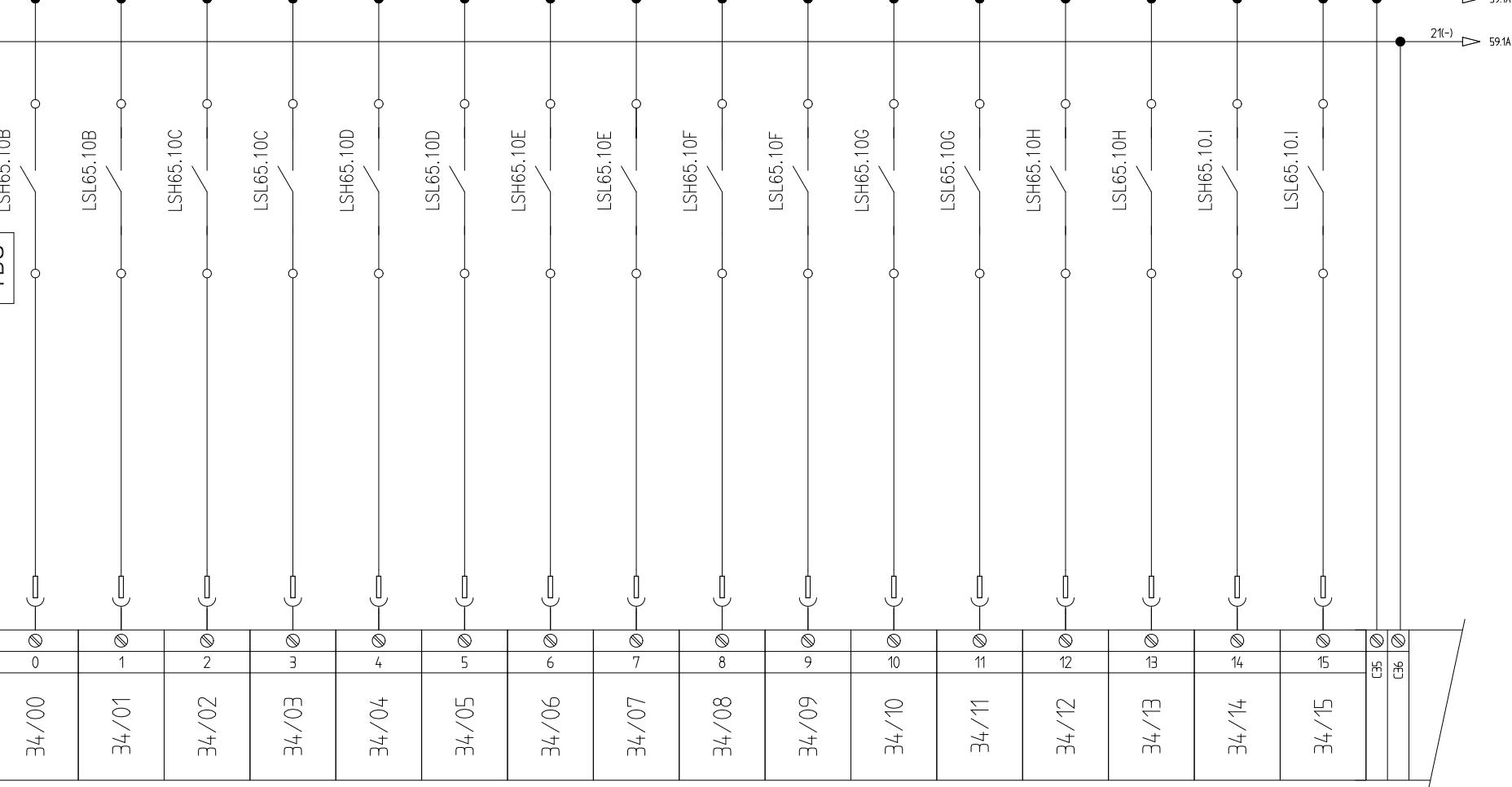
11

12

13

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stand.

SABIZ PLANT



DIGITAL INPUT DI5
drawing's title:

Doc. 08039ED03
Job: 1E35

=
+
sheet 58
59 n.sh

dwg. 1E35.85.1001

FILE:1E35851001-058

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI5

HIGH LEVEL

34/16

LOW LEVEL

34/17

HIGH LEVEL

34/18

LOW LEVEL

34/19

HIGH LEVEL

34/20

LOW LEVEL

34/21

HIGH LEVEL

34/22

LOW LEVEL

34/23

HIGH LEVEL

34/24

LOW LEVEL

34/25

HIGH LEVEL

34/26

LOW LEVEL

34/27

HIGH LEVEL

34/28

LOW LEVEL

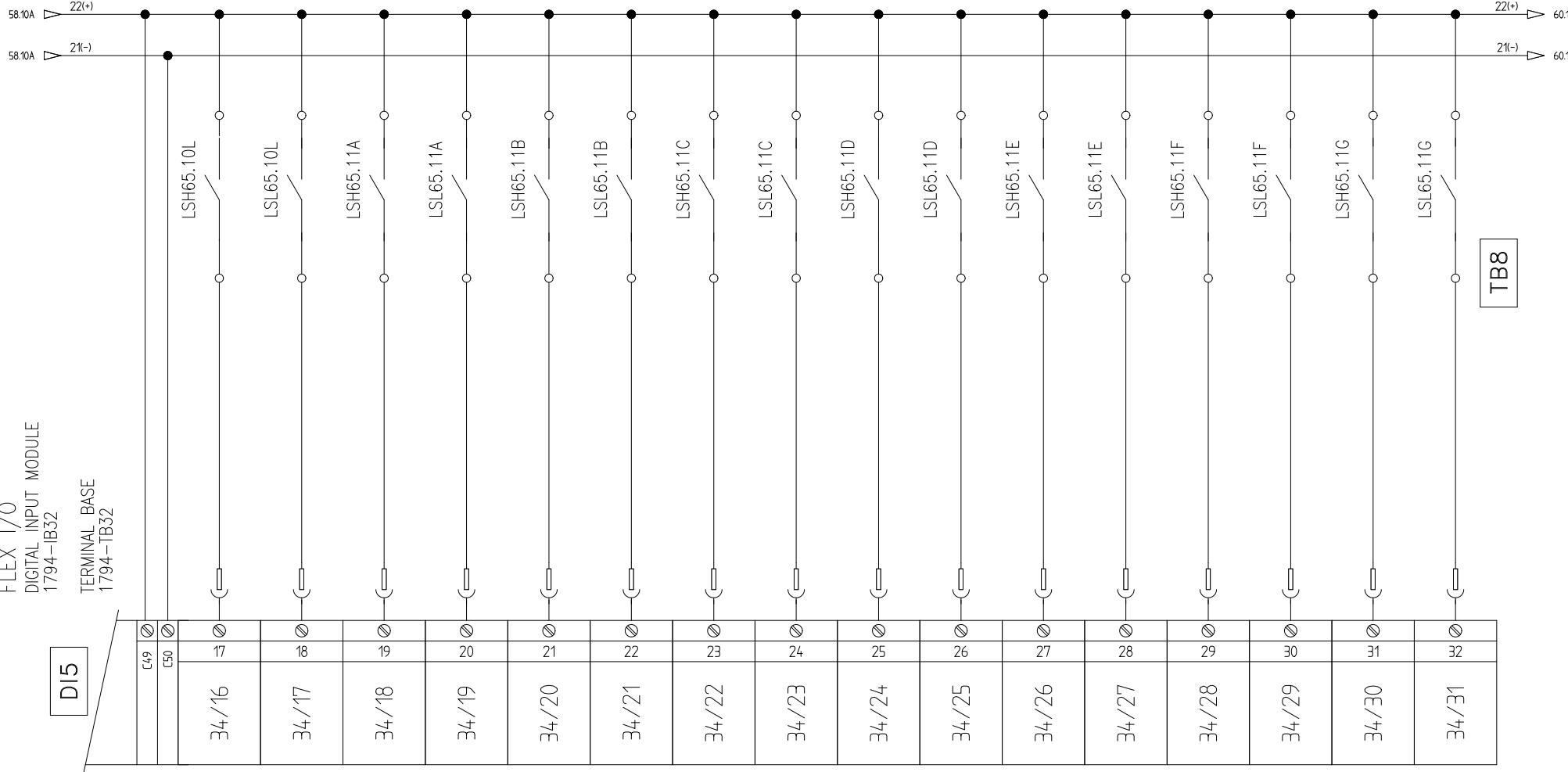
34/29

HIGH LEVEL

34/30

LOW LEVEL

34/31



UNI A3

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stand. SPAC91

SABIZ PLANT



DIGITAL INPUT DI5
drawing's title:

Doc. 08039ED03
Job: 1E35

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+
sheet 59
60 n.sh

dwg. 1E35.85.1001
FILE:1E35851001-059

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TB8

TERMINAL BASE

1794-TB32

DI6

35/00

HIGH LEVEL

35/01

LOW LEVEL

35/02

HIGH LEVEL

35/03

LOW LEVEL

35/04

HIGH LEVEL

35/05

LOW LEVEL

35/06

HIGH LEVEL

35/07

LOW LEVEL

35/08

HIGH LEVEL

35/09

LOW LEVEL

35/10

HIGH LEVEL

35/11

LOW LEVEL

35/12

HIGH LEVEL

35/13

LOW LEVEL

35/14

HIGH LEVEL

35/15

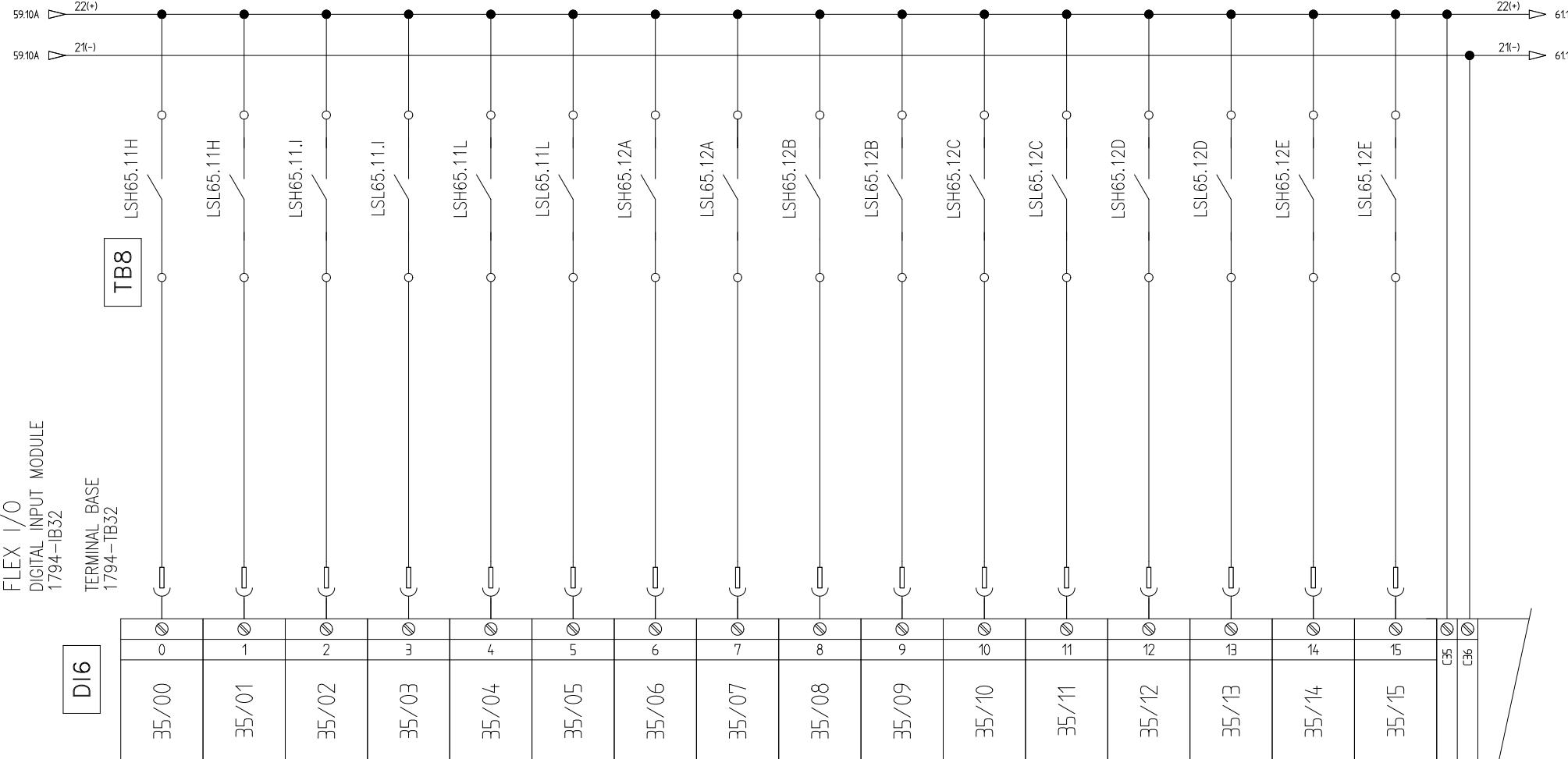
LOW LEVEL

C35

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C36

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UNI A3

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SABIZ PLANT



DIGITAL INPUT DI6

drawing's title:

Doc. 08039ED03

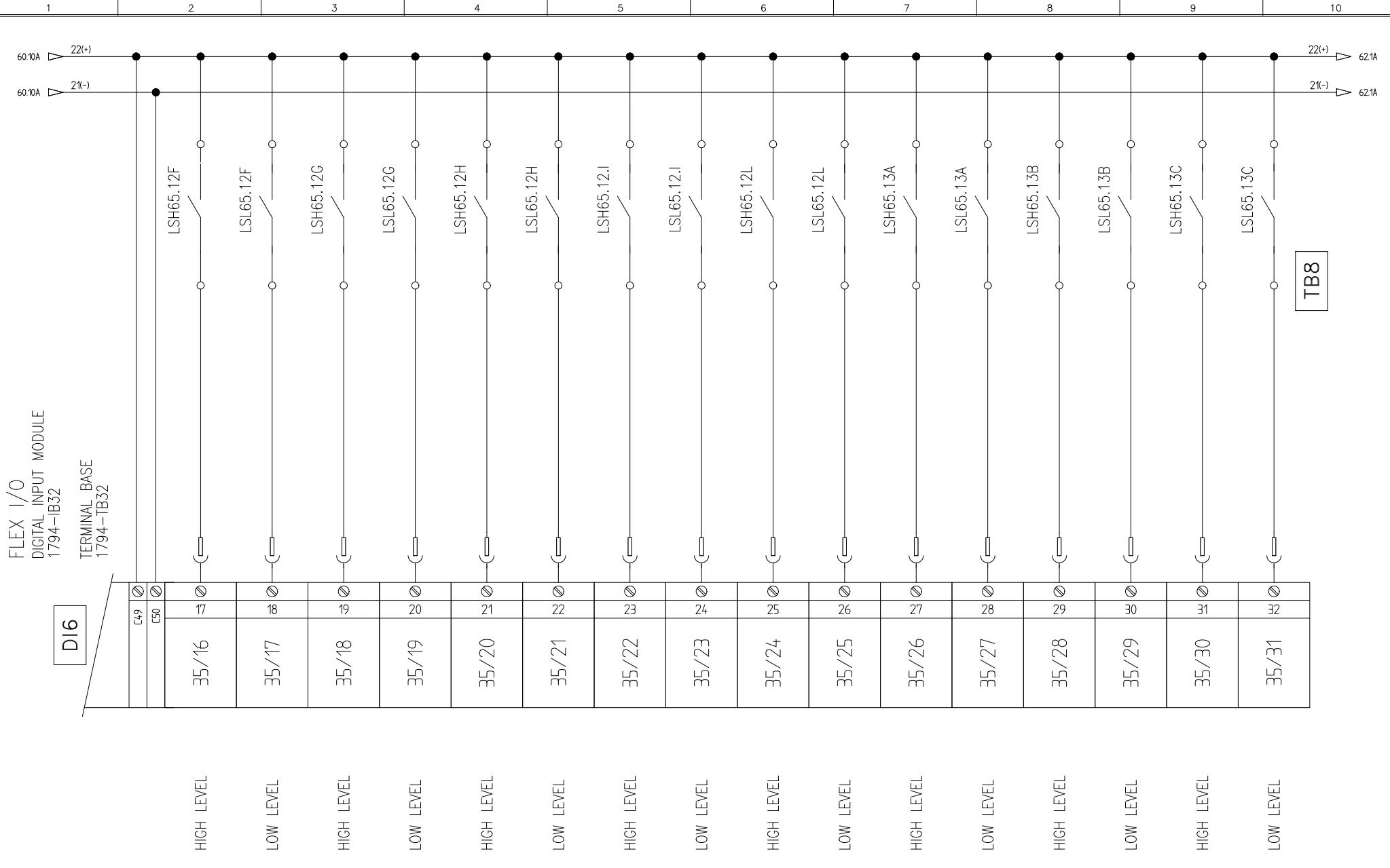
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+
Job: 1E35 dwg. 1E35.85.1001

sheet 60
61 n.sh
FILE:1E35851001-060

FLEX I/O
DIGITAL INPUT MODULE

1794-TB32
TERMINAL BASE

DI6



UNI A3

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				stand.	SPAC91

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2it. DIN 6771/Teil 5 1

SABIZ PLANT



DIGITAL INPUT DI6
drawing's title:

Doc. 08039ED03
Job: 1E35

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+
sheet 61
62 n.sh

FILE:1E35851001-061

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

DI7

TERMINAL BASE

1794-TB32

36/00

HIGH LEVEL

LOW LEVEL

36/01

36/02

36/03

36/04

36/05

36/06

36/07

36/08

36/09

36/10

36/11

36/12

36/13

36/14

36/15

C35

C36

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11/2010

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Rev.

Date

Name

stand.

SPAC91

SABIZ PLANT



DIGITAL INPUT DI7
drawing's title:

Doc. 08039ED03
Job: 1E35

dwg. 1E35.85.1001

sheet 62
63 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI7

HIGH LEVEL

LOW LEVEL

HIGH LEVEL

LOW LEVEL

36/16

36/17

36/18

36/19

36/20

36/21

36/22

36/23

36/24

36/25

36/26

36/27

36/28

36/29

36/30

36/31

36/32

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62.10A

22(+)

62.10A

22(-)

LSH63.11

62.10A

22(+)

LSL63.12

62.10A

22(-)

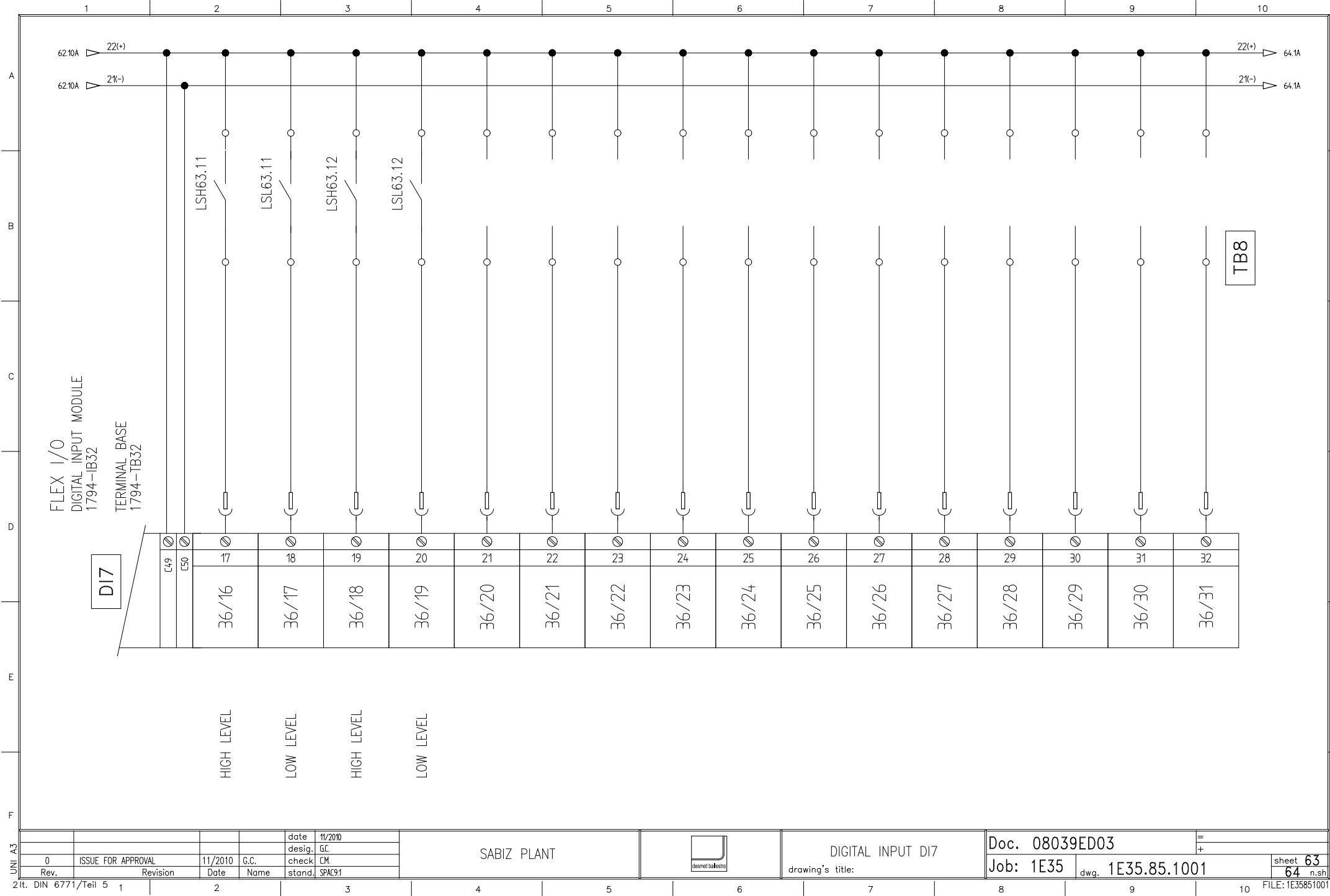
64.1A

22(+)

64.1A

22(-)

TB8



FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

TB8

DI8

37/00

0

PNEUMATIC TRANSPORT
PIPE CONNECTION

1

∅

PNEUMATIC TRANSPORT
PIPE CONNECTION

2

∅

PNEUMATIC TRANSPORT
PIPE CONNECTION

3

∅

PNEUMATIC TRANSPORT
PIPE CONNECTION

4

∅

PNEUMATIC TRANSPORT
PIPE CONNECTION

5

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PNEUMATIC TRANSPORT
PIPE CONNECTION

6

∅

PNEUMATIC TRANSPORT
PIPE CONNECTION

7

∅

PNEUMATIC TRANSPORT
PIPE CONNECTION

8

∅

PNEUMATIC TRANSPORT
PIPE CONNECTION

9

∅

PNEUMATIC TRANSPORT
PIPE CONNECTION

10

∅

Wk62.1 AUTO

11

∅

Wk62.3 AUTO

12

∅

Wk62.3A AUTO

13

∅

Wk62.3A AUTO

14

∅

Wk62.3A AUTO

15

∅

VALVE OPEN

16

∅

Ww62.3

17

∅

VALVE CLOSED

18

∅

ZSL62.3

19

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ZSH62.3

20

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65.1A

21(+)

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65.1A

21(-)

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1	ISSUE FOR CONSTRUCTION	12/2010	G.C.	date 11/2010
0	ISSUE FOR APPROVAL	11/2010	G.C.	desig. GL
Rev.	Revision	Date	Name	check CM stand. SPAC91

SABIZ PLANT



DIGITAL INPUT DI8
drawing's title:

Doc. 08039ED03

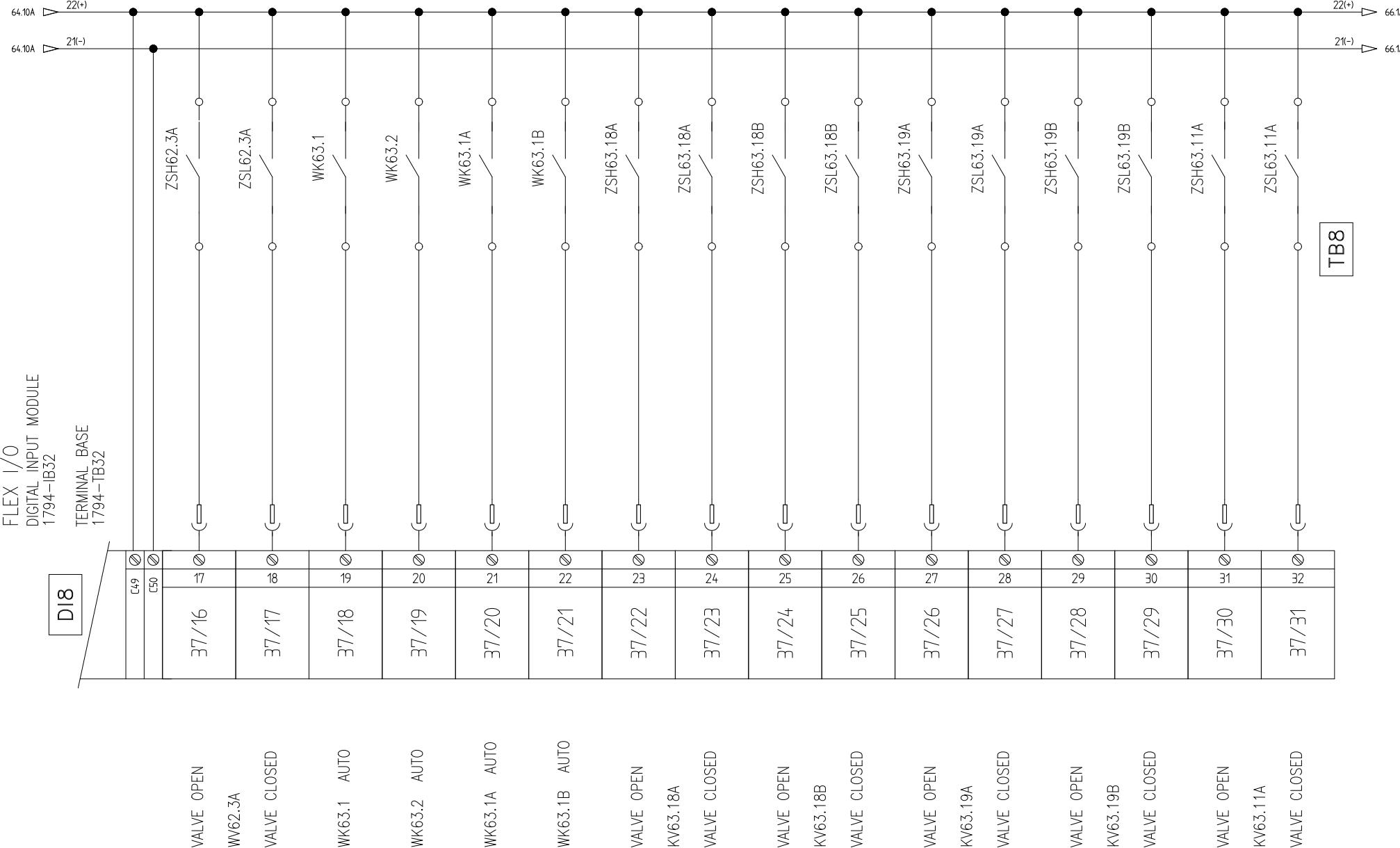
Job: 1E35 dwg. 1E35.85.1001

sheet 64
65 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI8



FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TB8

TERMINAL BASE
1794-TB32

DI9

40/00

VALVE OPEN

TV63.1A

VALVE CLOSED

KV63.11B

40/01

VALVE OPEN

KV63.11B

40/02

VALVE CLOSED

TV63.1B

40/03

VALVE OPEN

TV63.1B

40/04

VALVE CLOSED

WV62.1

40/05

VALVE OPEN

WV62.1

40/06

VALVE CLOSED

KV62.6A

40/07

VALVE OPEN

KV62.6A

40/08

VALVE CLOSED

KV62.6B

40/09

VALVE OPEN

KV62.6B

40/10

VALVE CLOSED

ZSL62.6B

40/11

VALVE OPEN

ZSL62.6B

40/12

VALVE CLOSED

ZSL62.6B

40/13

VALVE OPEN

ZSL62.6B

40/14

VALVE CLOSED

ZSL62.6B

40/15

VALVE OPEN

ZSL62.6B

C35

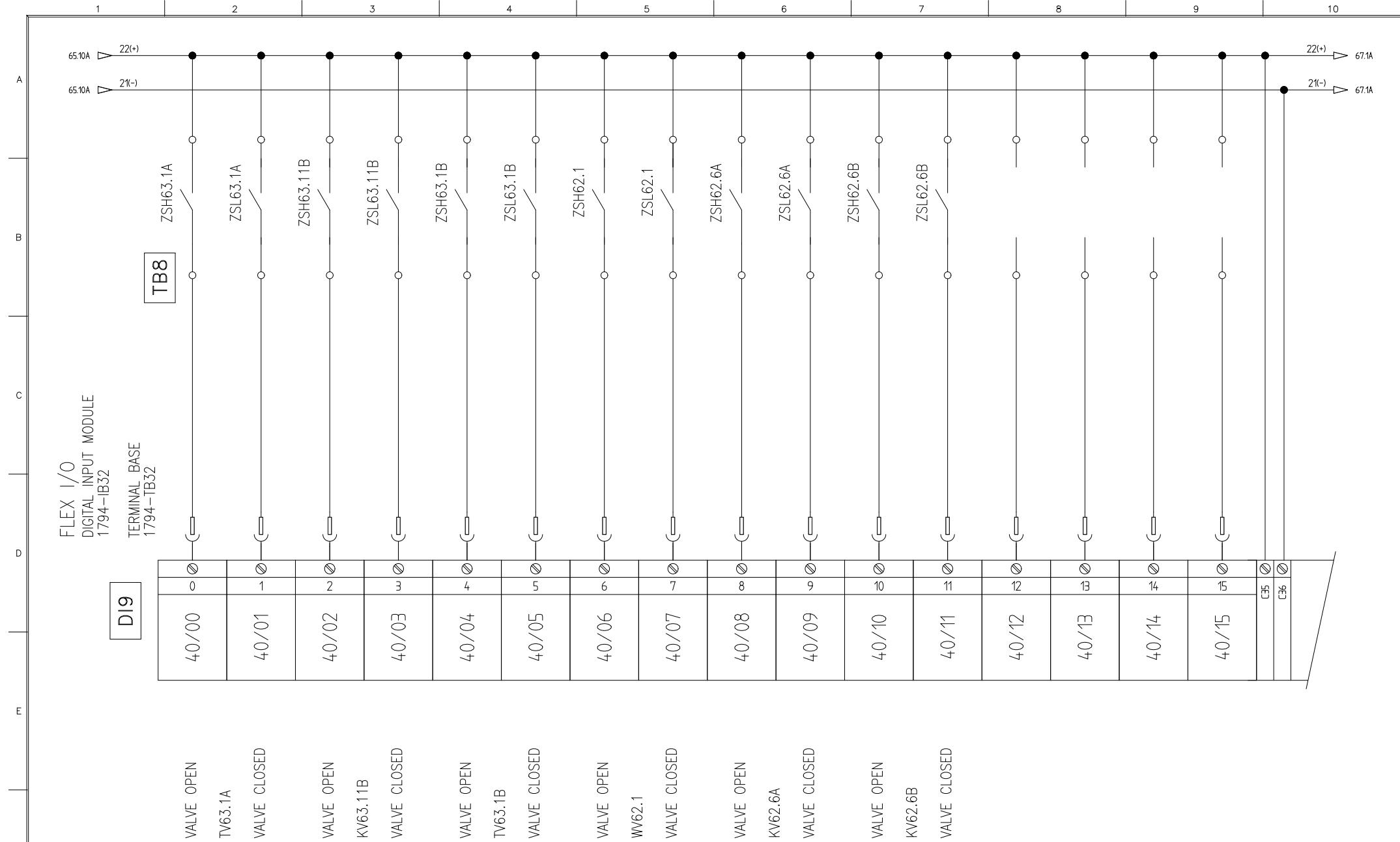
VALVE OPEN

ZSL62.6B

C36

VALVE CLOSED

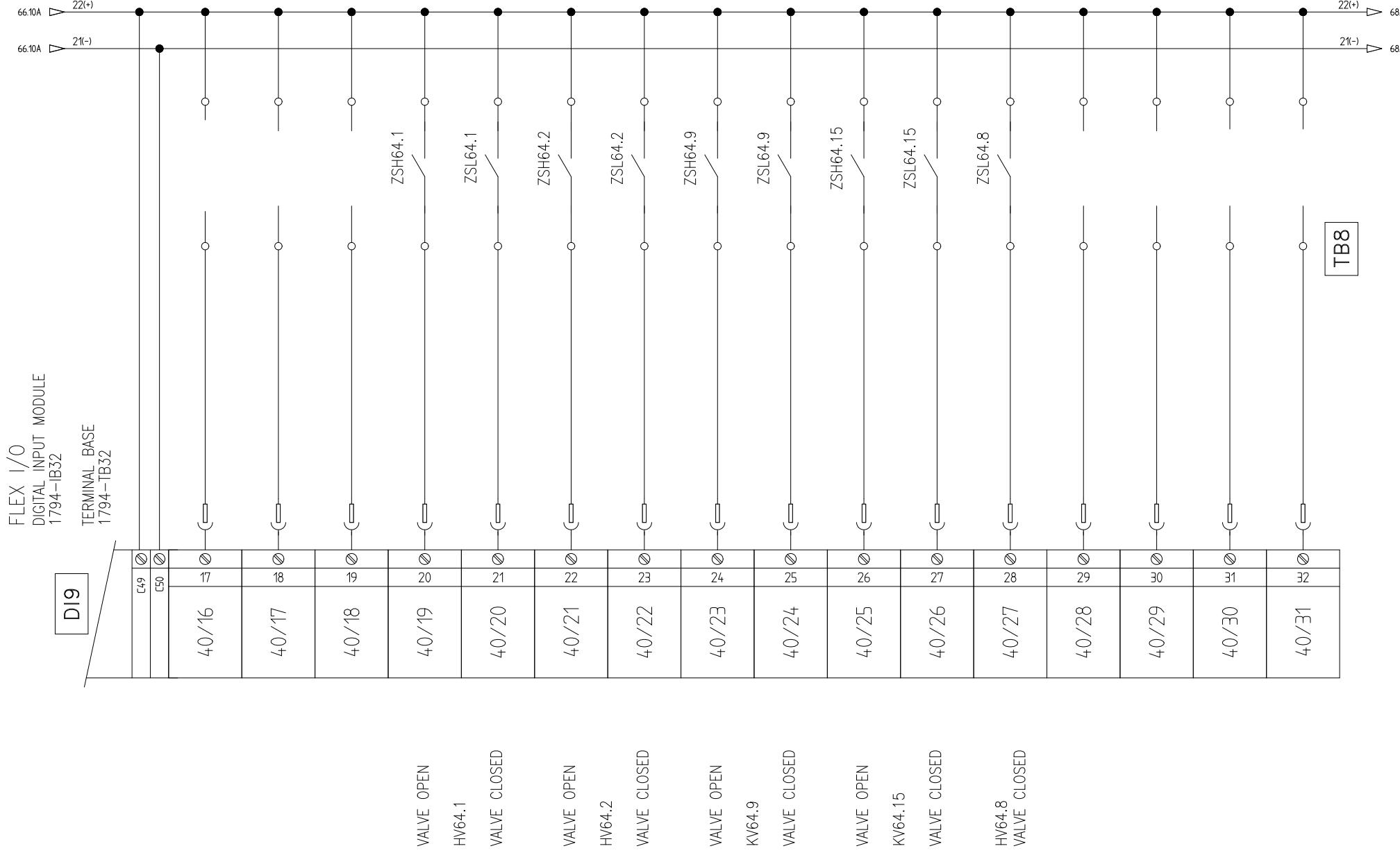
ZSL62.6B



FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI9



UNI A3

1	ISSUE FOR CONSTRUCTION	12/2010	G.C.	date	11/2010
0	ISSUE FOR APPROVAL	11/2010	G.C.	desig.	GL
	Rev.	Revision	Date	Name	check CM

Stand: SPAC91

SABIZ PLANT



DIGITAL INPUT DI9
drawing's title:

Doc. 08039ED03
Job: 1E35

dwg. 1E35.85.1001

sheet 67
68 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

DI10

TERMINAL BASE
1794-TB32

41/00

VALVE OPEN

Hv62.4

VALVE CLOSED

VALVE OPEN

Hv62.5

VALVE CLOSED

VALVE OPEN

Kv63.5

VALVE CLOSED

VALVE OPEN

Kv63.6

VALVE CLOSED

VALVE OPEN

Kv63.7

VALVE CLOSED

VALVE OPEN

Kv63.8

VALVE CLOSED

VALVE OPEN

Kv63.9

VALVE CLOSED

VALVE OPEN

Kv63.10

VALVE CLOSED

VALVE OPEN

Kv63.11

VALVE CLOSED

VALVE OPEN

Kv63.12

VALVE CLOSED

VALVE OPEN

Kv63.13

VALVE CLOSED

VALVE OPEN

Kv63.14

VALVE CLOSED

VALVE OPEN

Kv63.15

41/15

C35

C36

TB8

ZSH62.4

ZSL62.4

ZSH62.5

ZSL62.5

ZSH63.5

ZSL63.5

ZSH63.6

ZSL63.6

ZSH63.7

ZSL63.7

ZSH63.8

ZSL63.8

ZSH63.9

ZSL63.9

ZSH63.10

ZSL63.10

ZSH63.11

ZSL63.11

ZSH63.12

ZSL63.12

22(+)

21(-)

69.1A

21(-)

69.1A

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ISSUE FOR APPROVAL
11/2010 G.C.
Revision Date Name check CM
SPAC91

date 11/2010

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check CM

stand. SPAC91

SABIZ PLANT



DIGITAL INPUT DI10
drawing's title:

Doc. 08039ED03
Job: 1E35

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+
sheet 68
69 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI10

VALVE OPEN

KV63.12

VALVE CLOSED

KV63.13

VALVE OPEN

KV63.13

VALVE CLOSED

HW63.2A

VALVE OPEN

HW63.2B

VALVE CLOSED

HW63.2B

VALVE OPEN

HW63.3A

VALVE CLOSED

HW63.3A

VALVE OPEN

HW63.3B

VALVE CLOSED

HW63.3B

VALVE OPEN

HW63.3C

VALVE CLOSED

HW63.3C

VALVE OPEN

HW63.4A

VALVE CLOSED

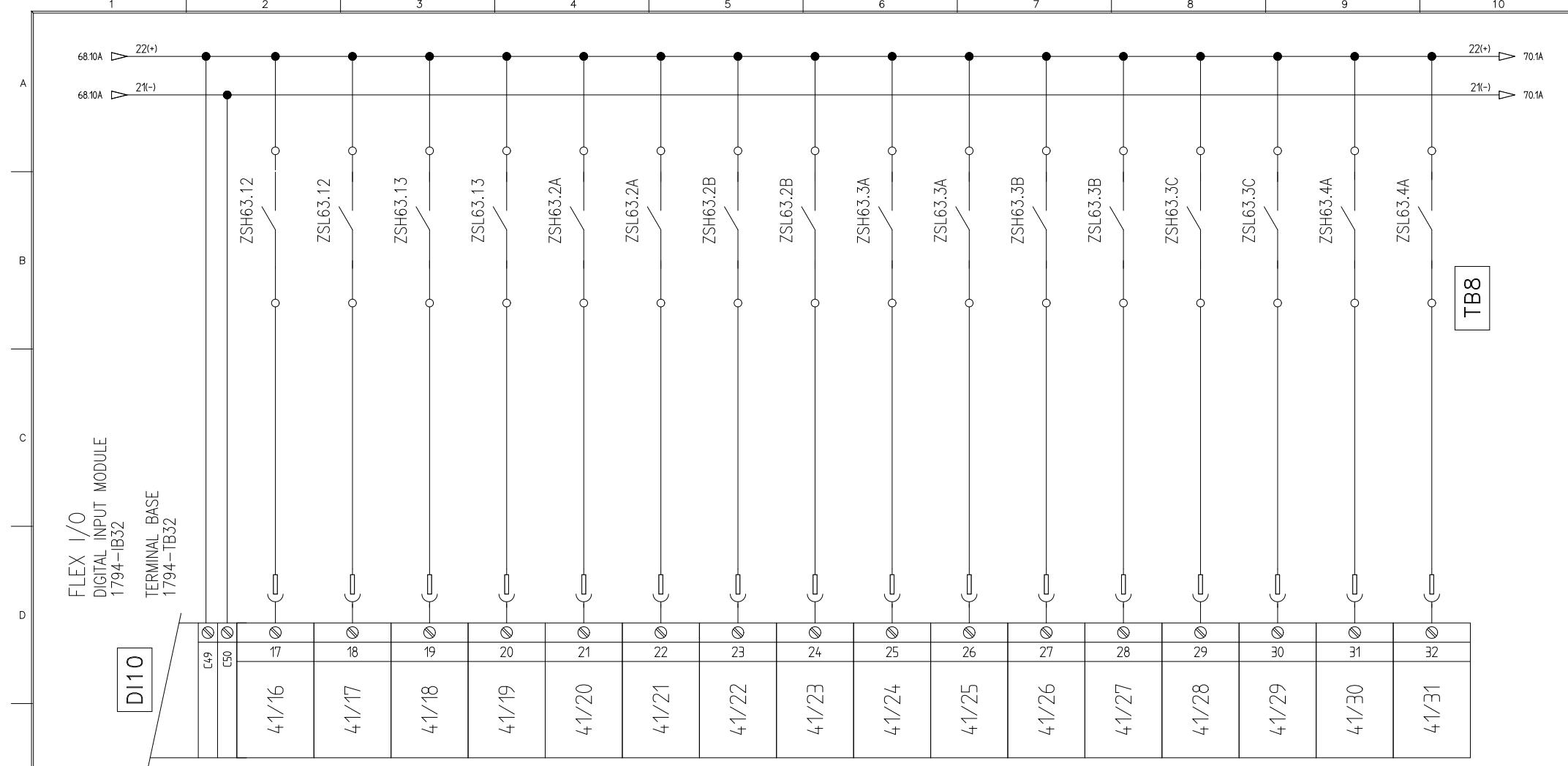
HW63.4A

VALVE OPEN

HW63.4A

VALVE CLOSED

HW63.4A



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FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

DI11

TERMINAL BASE
1794-TB32

42/00

VALVE OPEN

Hv63.4B

VALVE CLOSED

ZSL63.4B

VALVE OPEN

Kv65.10A

VALVE CLOSED

ZSL65.10A

VALVE OPEN

Kv65.10B

VALVE CLOSED

ZSL65.10B

VALVE OPEN

Kv65.10C

VALVE CLOSED

ZSL65.10C

VALVE OPEN

Kv65.10D

VALVE CLOSED

ZSL65.10D

VALVE OPEN

Kv65.10E

VALVE CLOSED

ZSL65.10E

VALVE OPEN

Kv65.10F

VALVE CLOSED

ZSL65.10F

VALVE OPEN

Kv65.10G

VALVE CLOSED

ZSL65.10G

VALVE OPEN

Kv65.10H

VALVE CLOSED

ZSL65.10H

VALVE OPEN

Kv65.10I

VALVE CLOSED

ZSL65.10I

42/15

C35

42/14

C36

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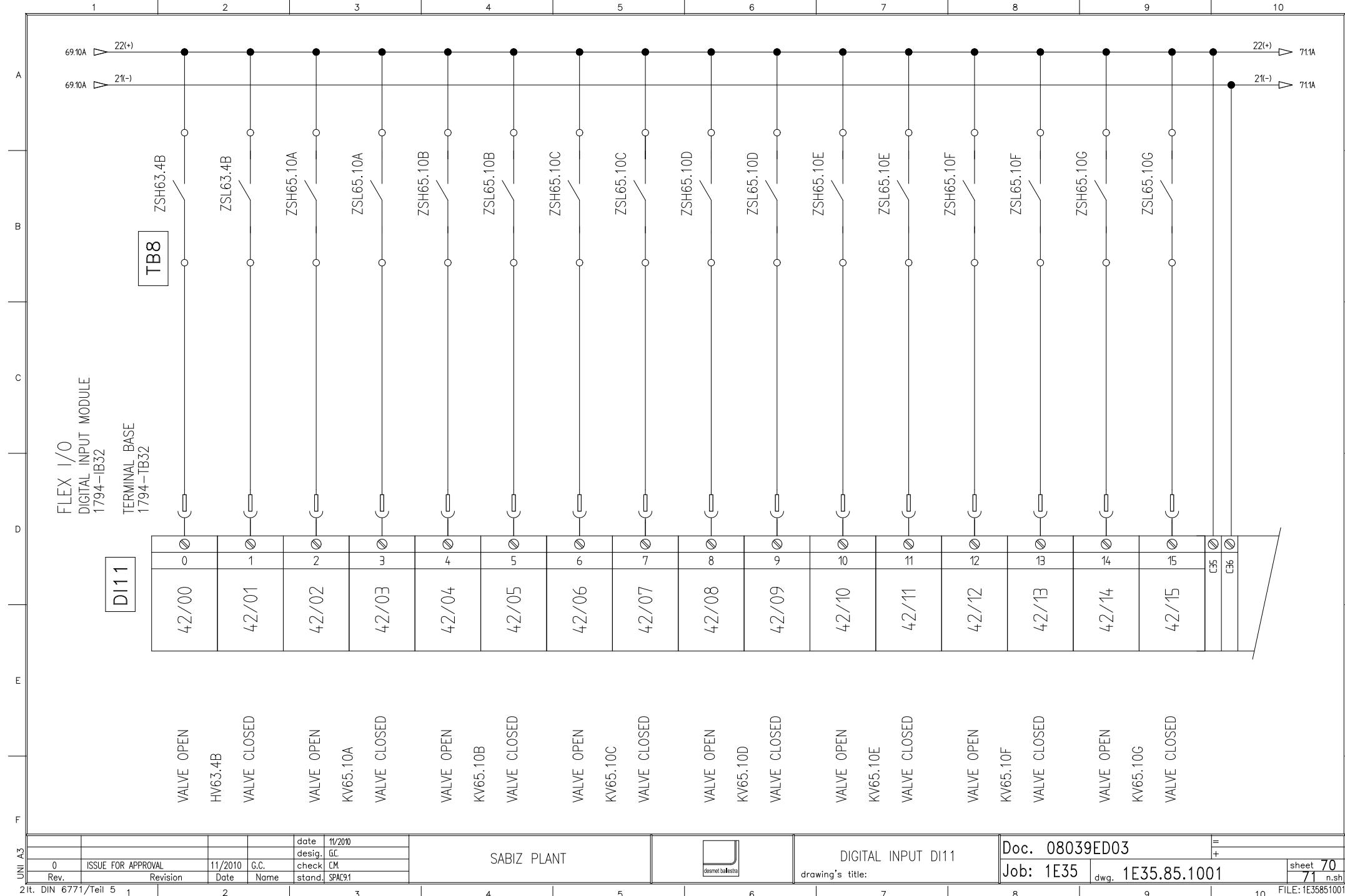
19

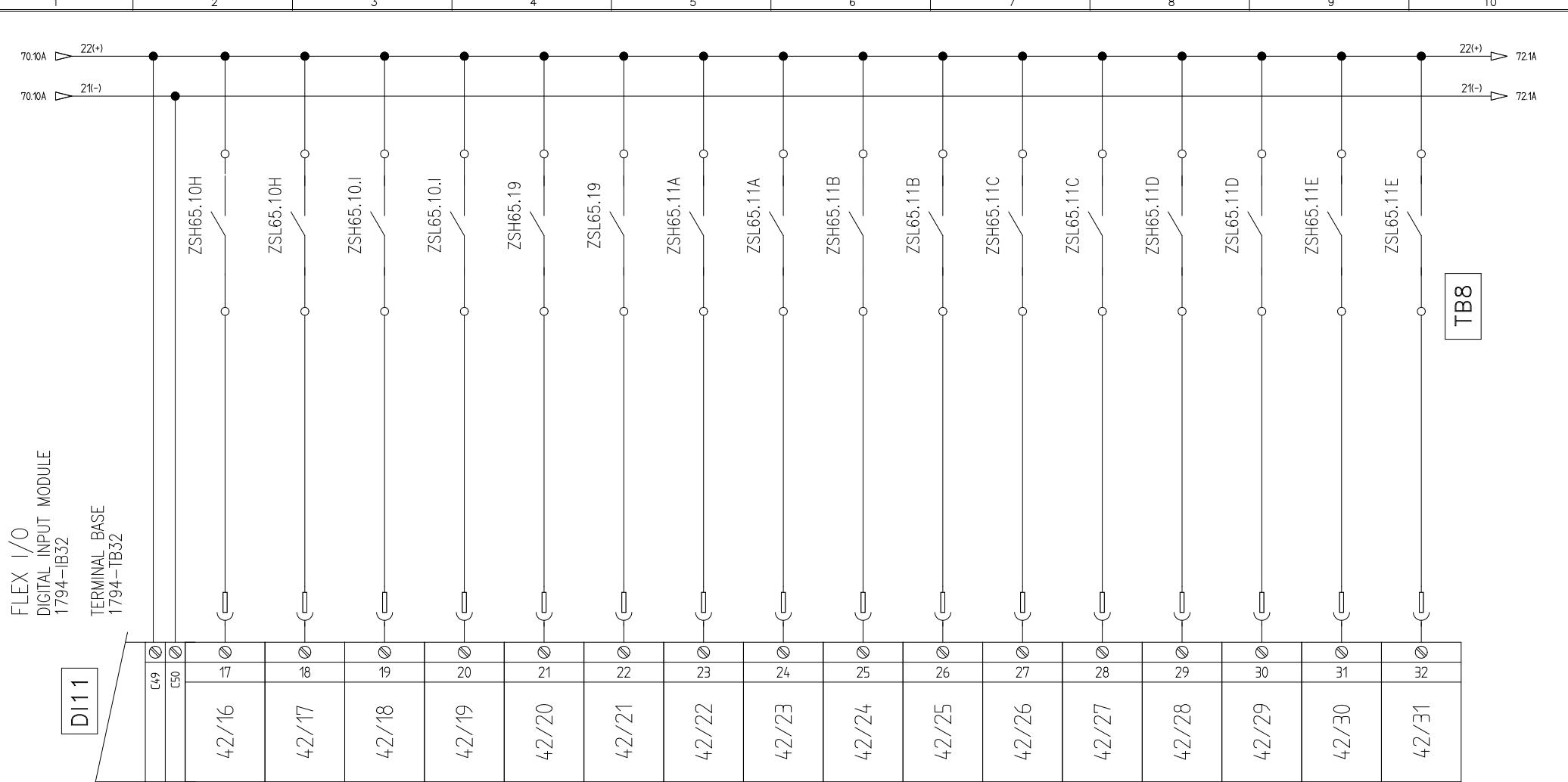
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UNI A3					date	1/10/2010
					desig.	GC
0		ISSUE FOR APPROVAL		11/2010	G.C.	check CM
Rev.		Revision	Date	Name	stand.	SPAC9
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SABIZ PLANT



DIGITAL INPUT DI11

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.100

sheet 71
72 n.sh
10 FILE: 1E35851001-071

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

DI12

TERMINAL BASE
1794-TB32

VALVE OPEN

KV65.11F

VALVE CLOSED

KV65.11G

VALVE OPEN

KV65.11G

VALVE CLOSED

KV65.11H

VALVE OPEN

KV65.11H

VALVE CLOSED

KV65.11I

VALVE OPEN

KV65.11I

VALVE CLOSED

KV65.21

VALVE OPEN

KV65.12A

VALVE CLOSED

KV65.12A

VALVE OPEN

KV65.12B

VALVE CLOSED

KV65.12B

VALVE OPEN

KV65.12C

VALVE CLOSED

KV65.12C

VALVE OPEN

KV65.12C

VALVE CLOSED

KV65.12C

43/00

43/01

43/02

43/03

43/04

43/05

43/06

43/07

43/08

43/09

43/10

43/11

43/12

43/13

43/14

43/15

C35

C36

TB8

ZSH65.11F

ZSL65.11F

ZSL65.11G

ZSH65.11H

ZSL65.11H

ZSH65.11I

ZSL65.11I

ZSH65.21

ZSL65.21

ZSH65.12A

ZSL65.12A

ZSH65.12B

ZSL65.12B

ZSH65.12C

ZSL65.12C

ZSH65.12C

ZSL65.12C

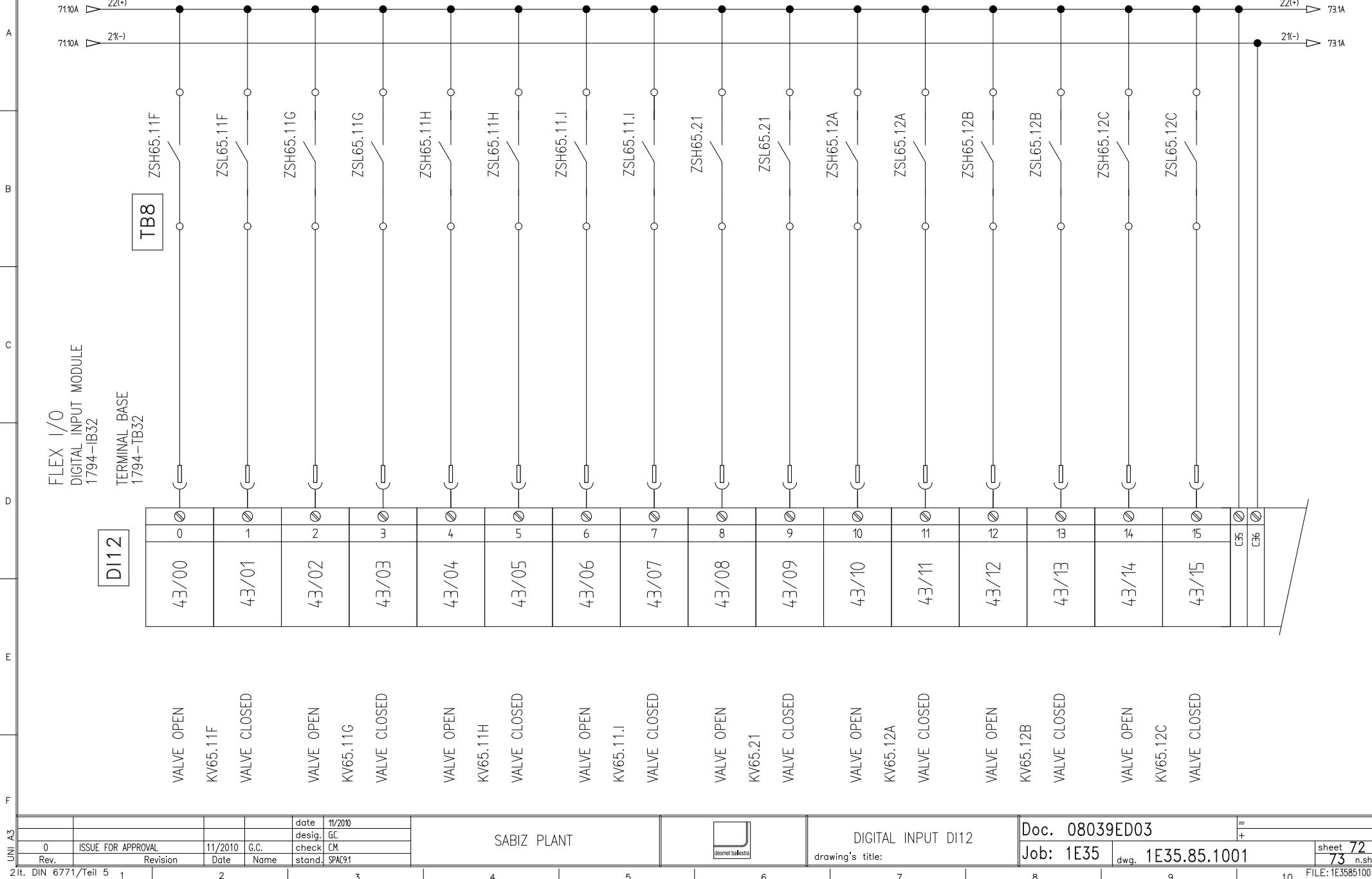
7110A □ 22(+)

7110A □ 21(-)

22(+)

21(-)

73.1A



UNI A3							
0	ISSUE FOR APPROVAL	11/2010	G.C.	check CM	date 11/2010	desig. GL	
Rev.	Revision	Date	Name	stand. SPAC91			

SABIZ PLANT



DIGITAL INPUT DI12

drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 72
73 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI12

VALVE OPEN

KV65.12D

VALVE CLOSED

KV65.12E

VALVE OPEN

KV65.12F

VALVE CLOSED

KV65.12F

VALVE OPEN

KV65.12G

VALVE CLOSED

KV65.12G

VALVE OPEN

KV65.12H

VALVE CLOSED

KV65.12H

VALVE OPEN

KV65.12I

VALVE CLOSED

KV65.12I

VALVE OPEN

KV65.20

VALVE CLOSED

KV65.20

VALVE OPEN

KV65.13A

VALVE CLOSED

KV65.13A

VALVE OPEN

KV65.13A

VALVE CLOSED

KV65.13A

43/16

17

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32

C49

C50

72.10A

22(+)

21(-)

72.10A

ZSH65.12D

ZSL65.12D

ZSH65.12E

ZSL65.12E

ZSH65.12F

ZSL65.12F

ZSH65.12G

ZSL65.12G

ZSH65.12H

ZSL65.12H

ZSH65.12I

ZSL65.12I

ZSH65.20

ZSL65.20

ZSH65.13A

ZSL65.13A

22(+)

74.1A

21(-)

74.1A

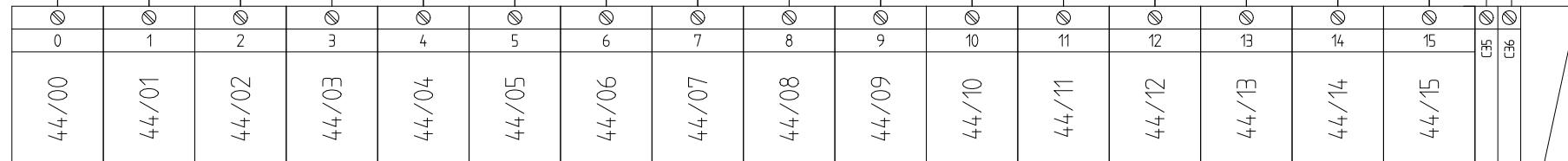
TB8



FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

DI13

TERMINAL BASE
1794-TB32



VALVE OPEN

Kv65.13B

VALVE CLOSED

Kv65.13C

VALVE OPEN

Kv65.13C

VALVE CLOSED

Kv65.13D

VALVE OPEN

Kv65.13D

VALVE CLOSED

Kv65.13E

VALVE OPEN

Kv65.13E

VALVE CLOSED

Kv65.13F

VALVE OPEN

Kv65.13F

VALVE CLOSED

Kv65.13G

VALVE OPEN

Kv65.13G

VALVE CLOSED

Kv65.13H

VALVE OPEN

Kv65.13H

VALVE CLOSED

Kv65.13I

VALVE OPEN

Kv65.13I

VALVE CLOSED

Kv65.13J

1	2	3	4	5	6	7	8	9	10
73.10A □ 22(+)									75.1A □ 22(+)
73.10A □ 21(-)									75.1A □ 21(-)
A	B	C	D	E	F	G	H	I	J
VALVE OPEN	Kv65.13B	ZSL65.13B	ZSH65.13B						
VALVE CLOSED				ZSL65.13C	ZSH65.13C				
VALVE OPEN	Kv65.13C				ZSL65.13D	ZSH65.13D			
VALVE CLOSED						ZSL65.13E	ZSH65.13E		
VALVE OPEN	Kv65.13D						ZSL65.13F	ZSH65.13F	
VALVE CLOSED								ZSL65.13G	ZSH65.13G
VALVE OPEN	Kv65.13E								ZSL65.13H
VALVE CLOSED									
VALVE OPEN	Kv65.13F								
VALVE CLOSED									
VALVE OPEN	Kv65.13G								
VALVE CLOSED									
VALVE OPEN	Kv65.13H								
VALVE CLOSED									
VALVE OPEN	Kv65.13I								
VALVE CLOSED									
VALVE OPEN	Kv65.13J								
VALVE CLOSED									
0	ISSUE FOR APPROVAL	11/2010	G.C.	check CM	date 11/2010	desig. GL	SABIZ PLANT	desmet ballstra	DIGITAL INPUT DI13
Rev.	Revision	Date	Name	stand. SPAC91					Doc. 08039ED03
									=
									+
									sheet 74
									75 n.sh
2it. DIN 6771/Teil 5 1	2	3	4	5	6	7	8	9	10
									FILE: 1E35851001-074

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI13

VALVE OPEN
KV65.18
VALVE CLOSED

44/16

44/17

44/18

44/19

44/20

44/21

44/22

44/23

44/24

44/25

44/26

44/27

44/28

44/29

44/30

44/31

44/32

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74.10A

21(-)

22(+)

76.1A

ZSH65.18

76.1A

21(-)

76.1A

KC65.6D

76.1A

KC65.6D

76.1A

KC65.6D

76.1A

KC65.9

76.1A

KC65.9

76.1A

KC65.9

76.1A

KC65.10

76.1A

KC65.10

76.1A

BK64.1

76.1A

BK64.1

76.1A

TB8

UNI A3

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ISSUE FOR CONSTRUCTION

12/2010

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ISSUE FOR APPROVAL

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SABIZ PLANT



DIGITAL INPUT DI13
drawing's title:

Doc. 08039ED03

Job: 1E35

=
+
sheet 75
76 n.sh

dwg. 1E35.85.1001

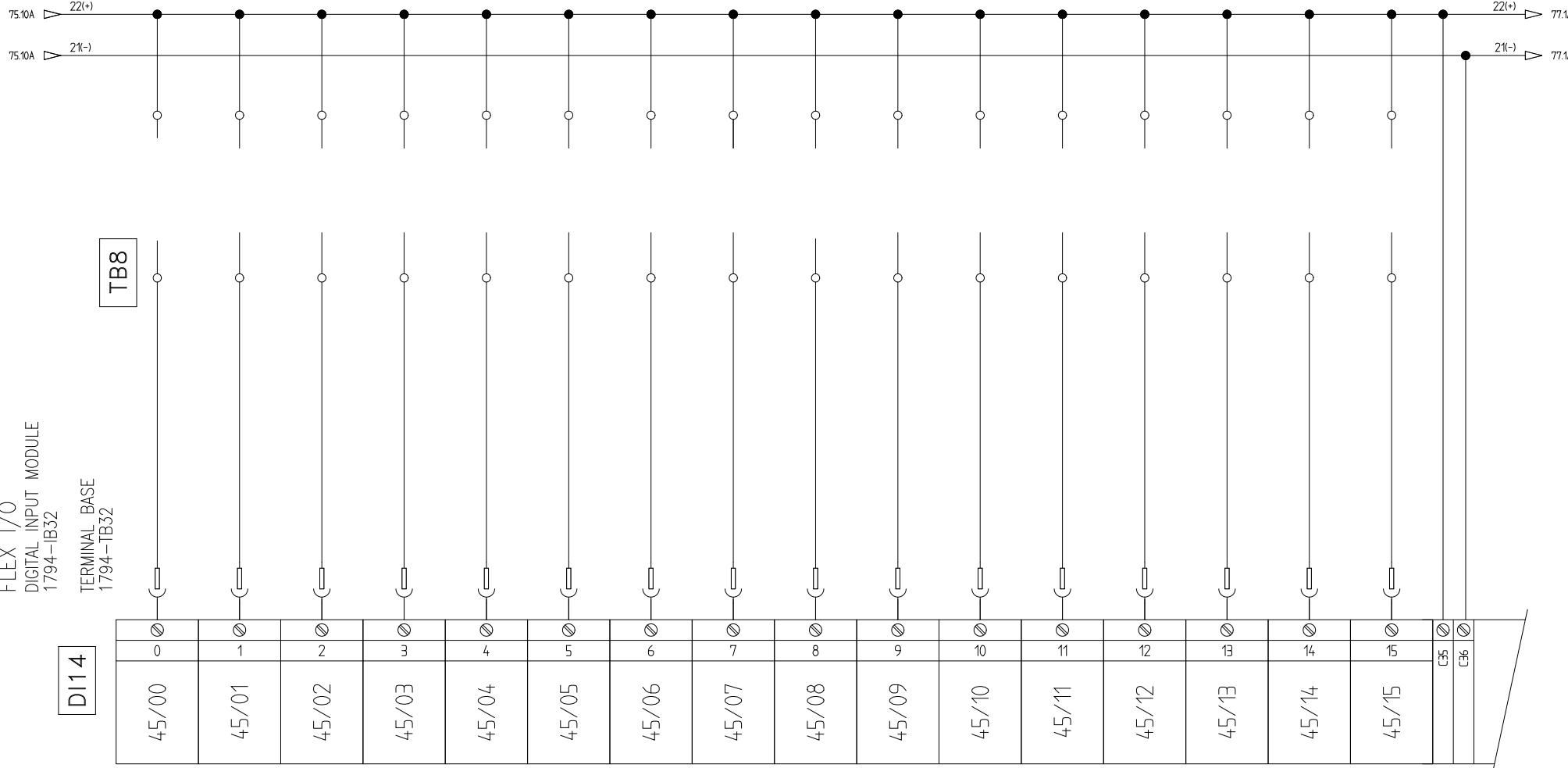
FILE:1E35851001-075

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

TB8

DI14



UNI A3

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ISSUE FOR APPROVAL
Revision

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SABIZ PLANT



DIGITAL INPUT DI14

drawing's title:

Doc. 08039ED03

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Job: 1E35 dwg. 1E35.85.1001

sheet 76

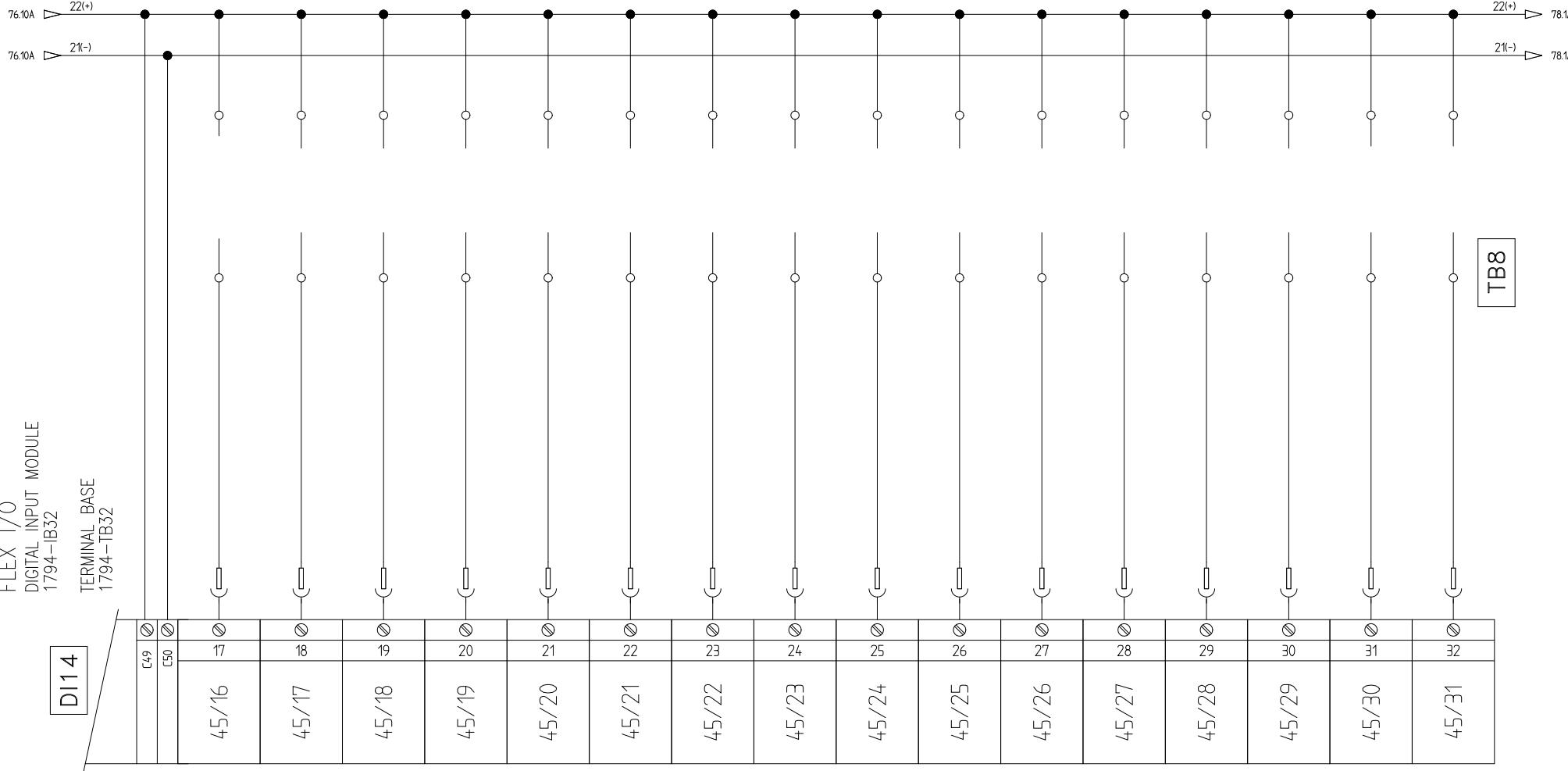
77

n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI14



UNI A3

				date	11/2010
				desig.	GL
0	ISSUE FOR APPROVAL	11/2010	G.C.	check	CM
Rev.	Revision	Date	Name	stand.	SPAC91

2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:1E35851001-077

SABIZ PLANT



DIGITAL INPUT DI14

drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

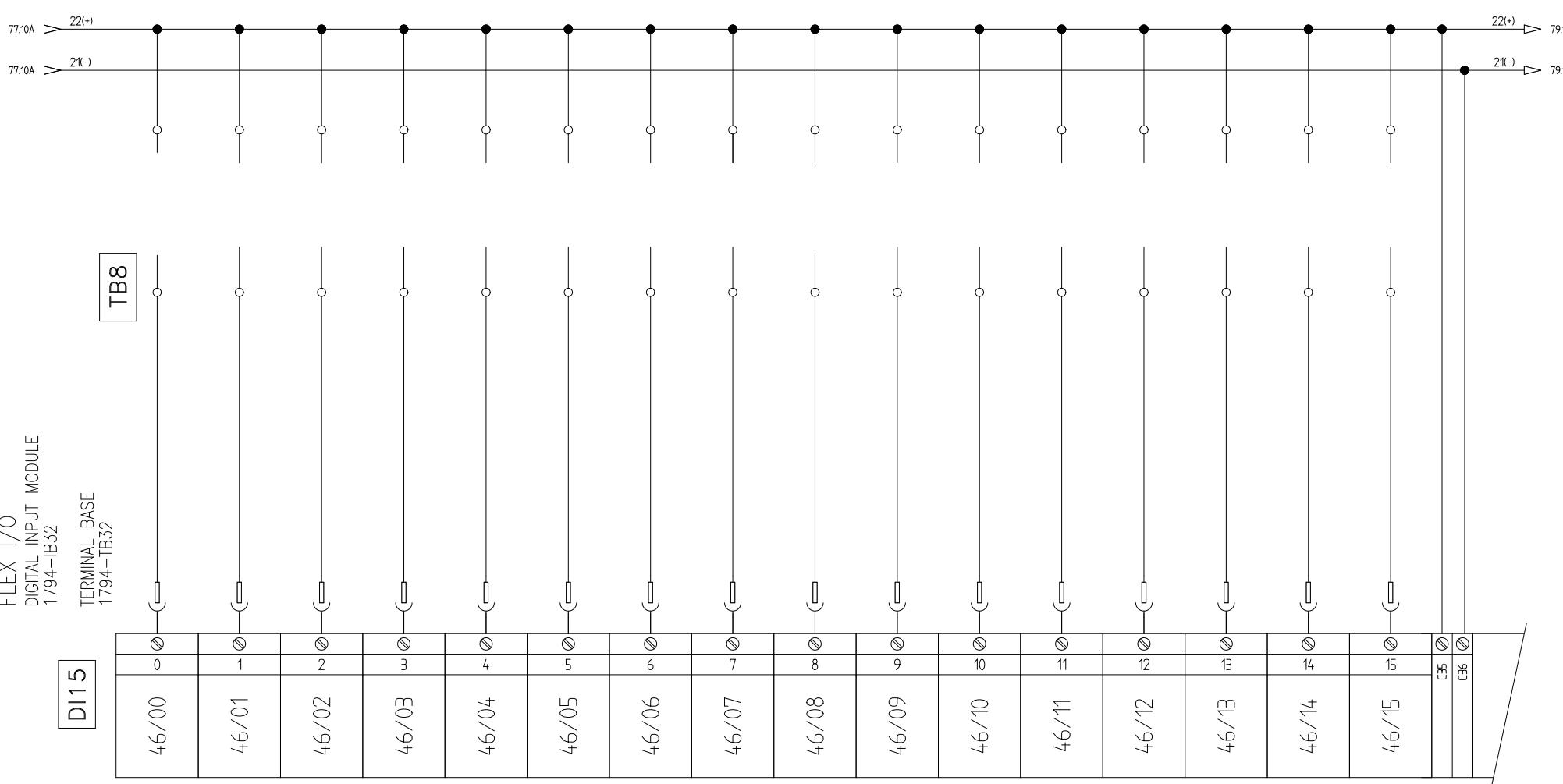
sheet 77
78 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

TB8

DI15



UNI A3				date	11/2010
				desig.	GL
0	ISSUE FOR APPROVAL	11/2010	G.C.	check	CM
Rev.	Revision	Date	Name	stand.	SPAC91

SABIZ PLANT



DIGITAL INPUT DI15

drawing's title:

Doc. 08039ED03

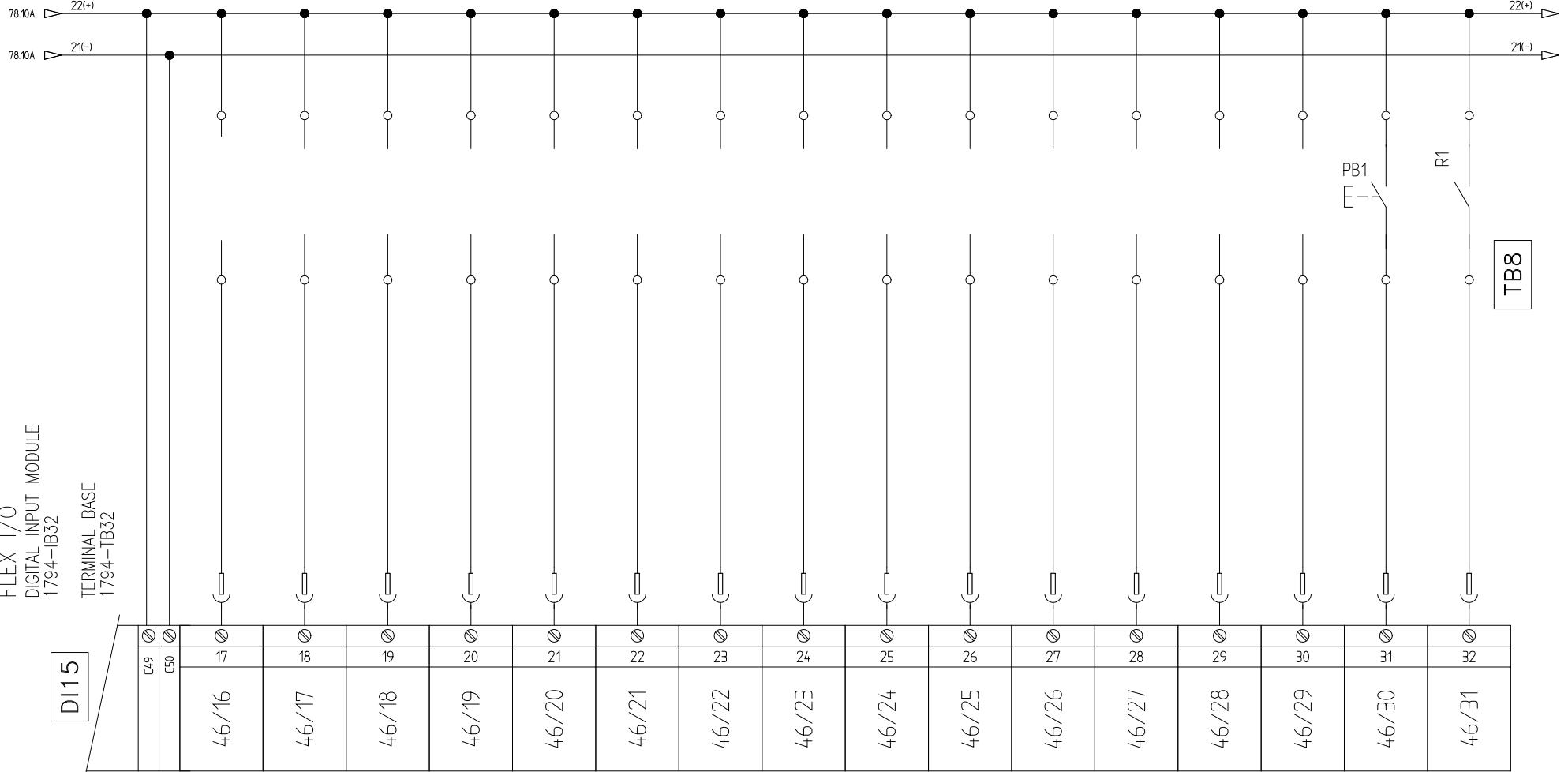
Job: 1E35 dwg. 1E35.85.1001

sheet 78
79 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI15



UNI A3

2	ISSUE AFTER TEST	01/2011	G.C.	date	11/2010
0	ISSUE FOR APPROVAL	11/2010	G.C.	desig.	GC
Rev.	Revision	Date	Name	check	CM

Stand: SPAC91

SABIZ PLANT



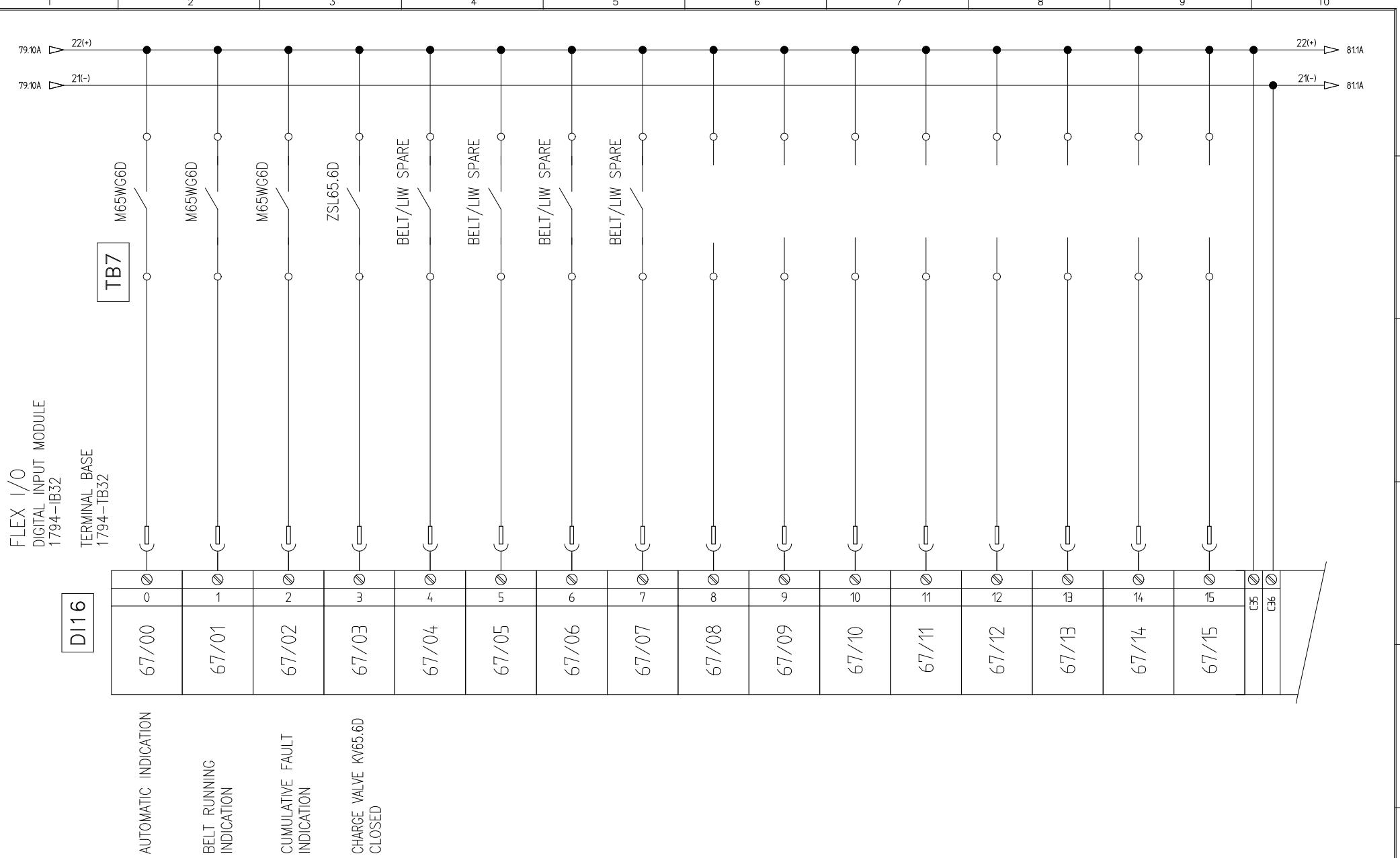
DIGITAL INPUT DI15

drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 79
80 n.sh



UNI A3	2	ISSUE AFTER TEST	01/2011	G.C.	date	11/2010
	0	ISSUE FOR CONSTRUCTION	12/2010	G.C.	desig.	CM
	Rev.	Revision	Date	Name	stand.	SPAC91
2	DIN 6771/Teil 5	1	2	3	4	5

SABIZ PLANT



DIGITAL INPUT DI16

Doc. 08039ED03

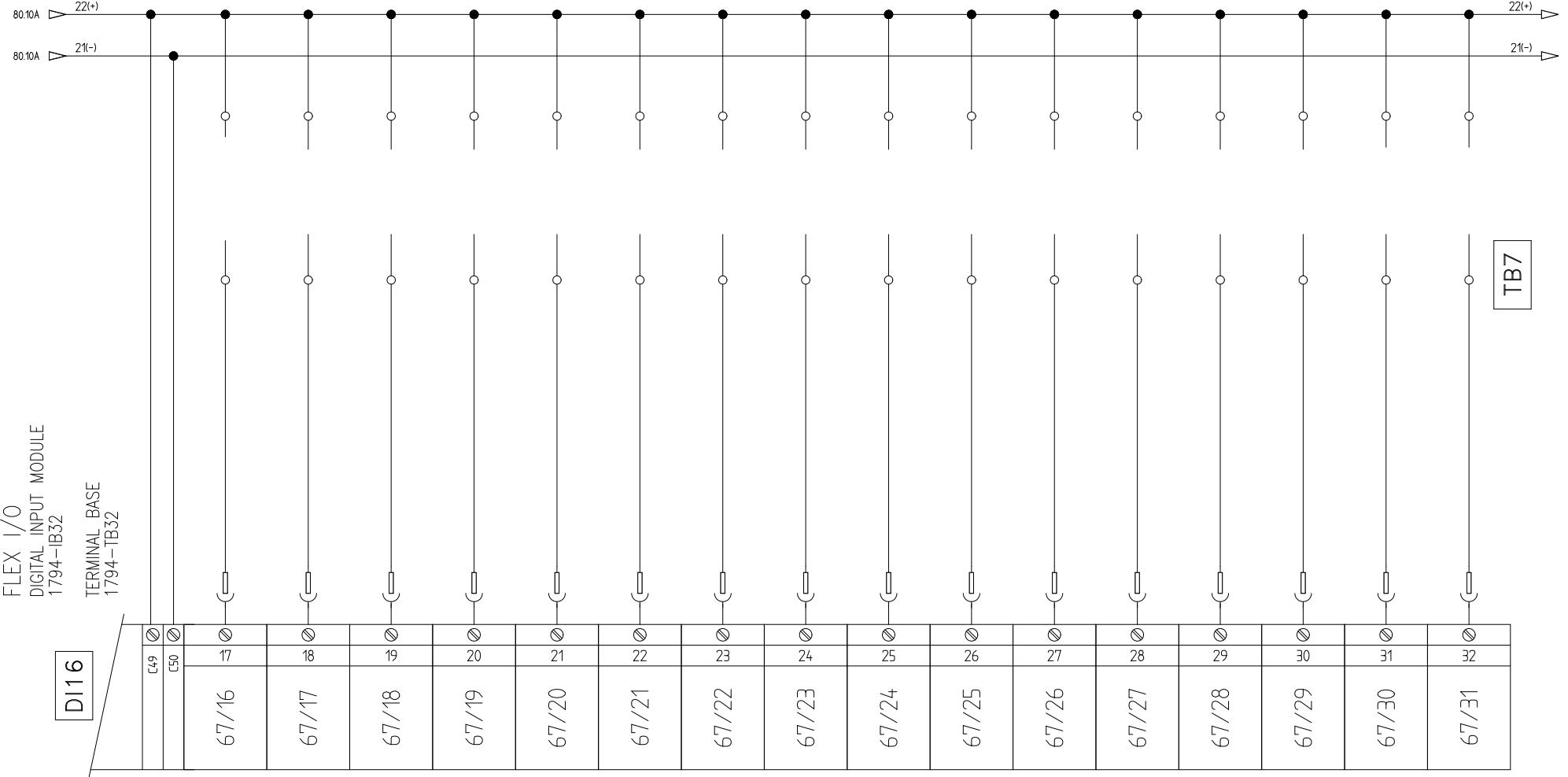
Job: 1E35

sheet 80
81 n.sh

FLEX I/O
DIGITAL INPUT MODULE
1794-TB32

TERMINAL BASE
1794-TB32

DI16



UNI A3

				date	11/2010
				desig.	GL
0	ISSUE FOR APPROVAL	11/2010	G.C.	check	CM
Rev.	Revision	Date	Name	stand.	SPAC91

2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:1E35851001-081

SABIZ PLANT



DIGITAL INPUT DI16

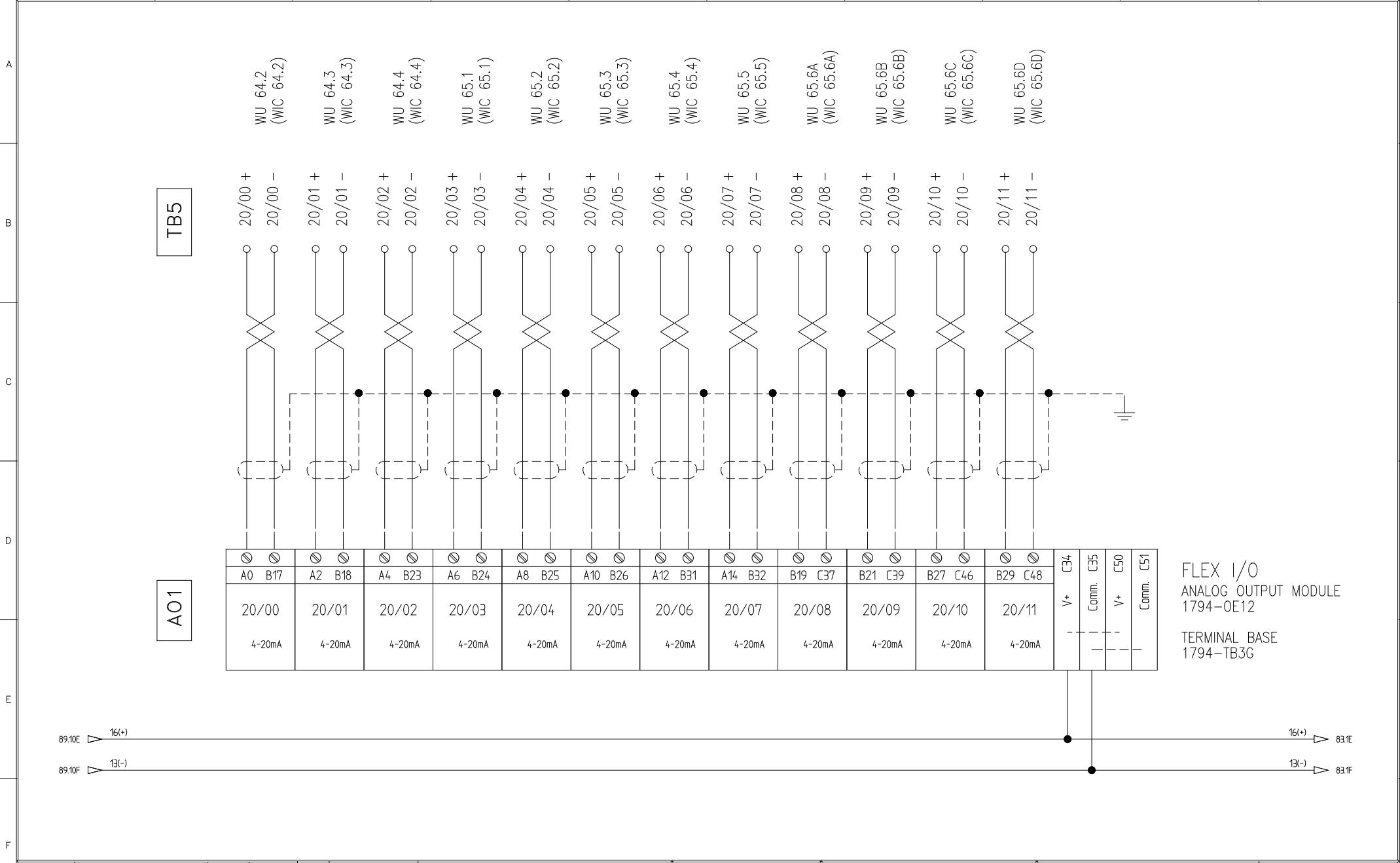
drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 81
82 n.sh

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



1 2 3 4 5 6 7 8 9 10

A

A

B

B

C

C

D

D

E

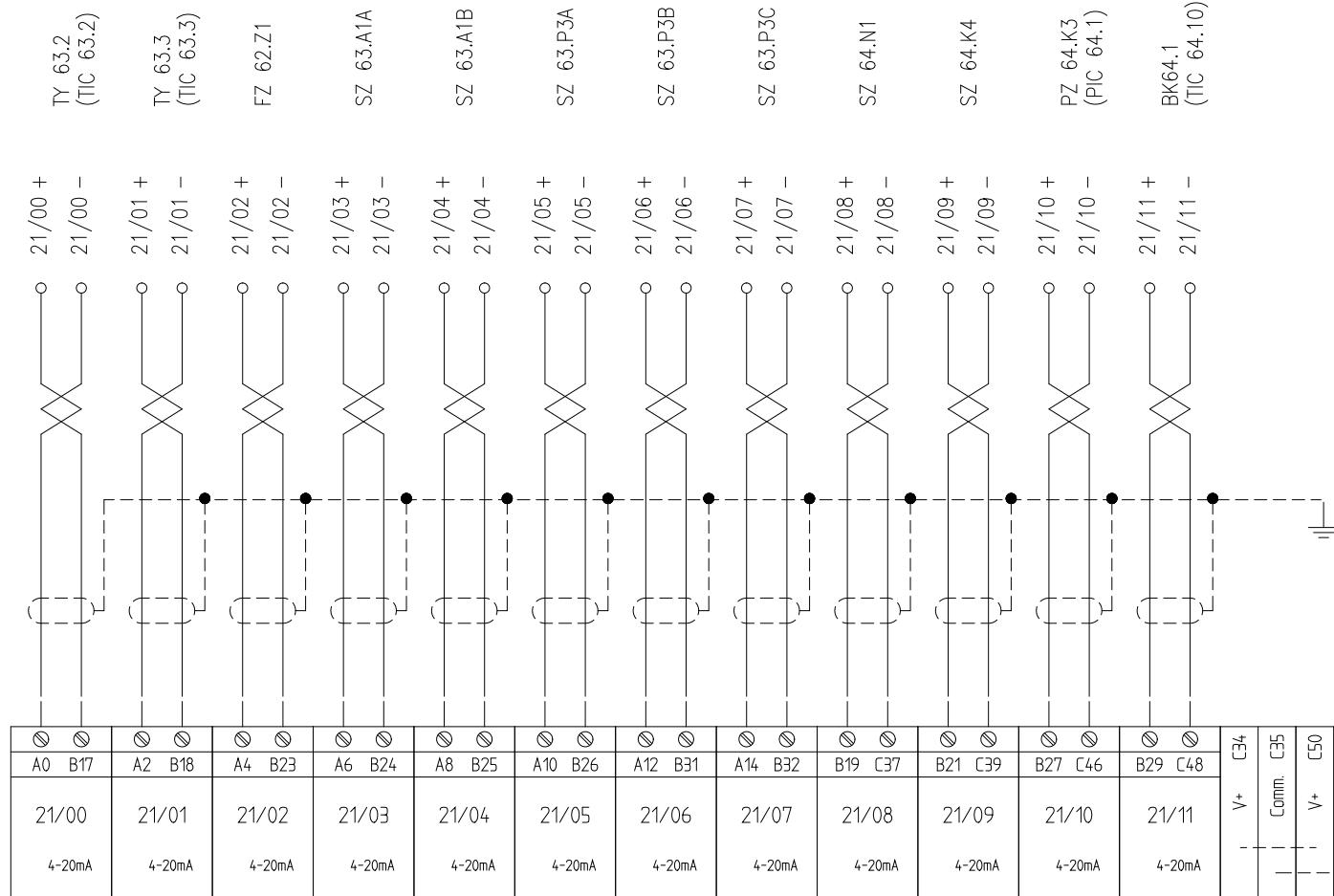
E

F

F

TB5

AO2



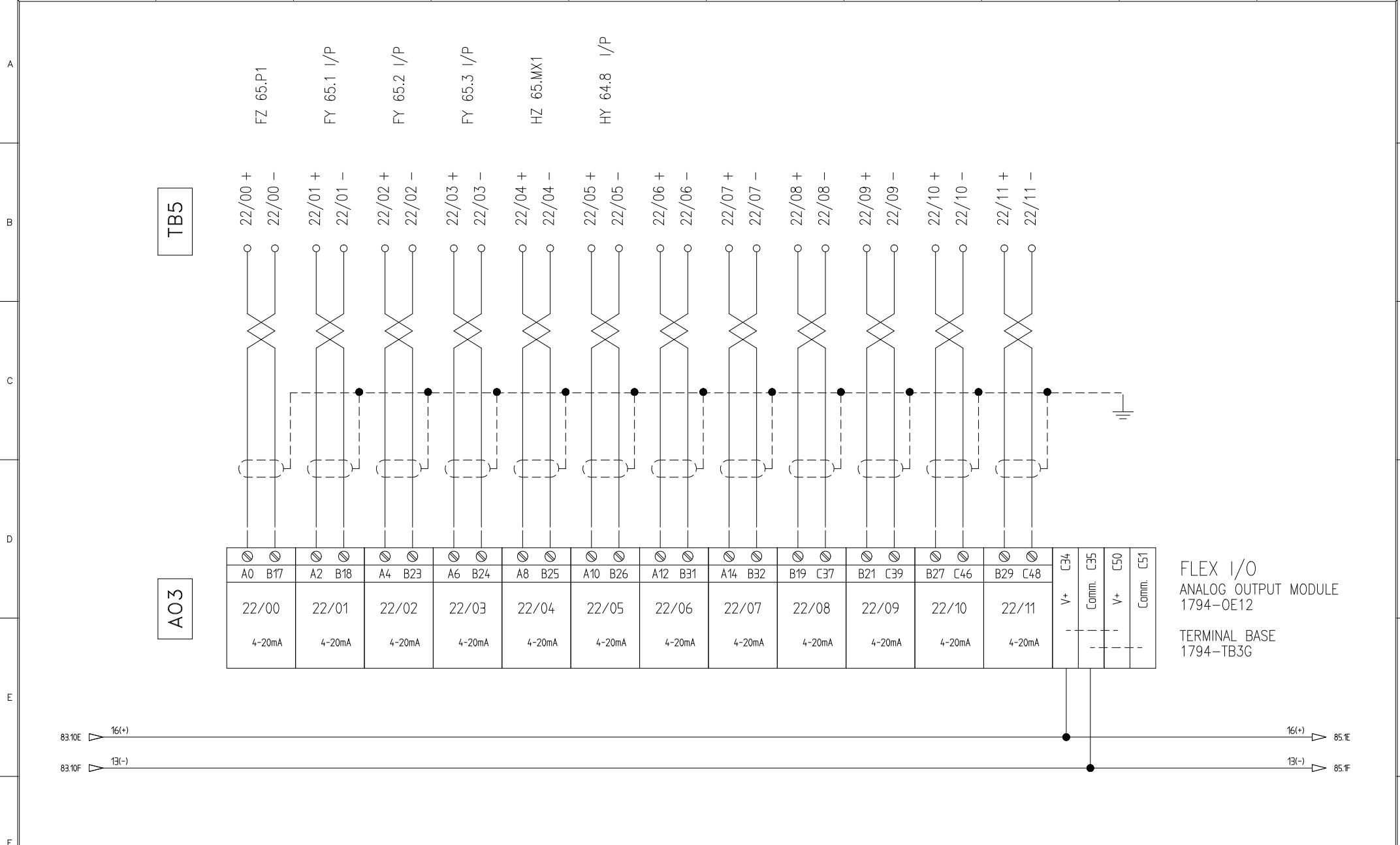
FLEX I/O
ANALOG OUTPUT MODULE
1794-0E12
TERMINAL BASE
1794-TB3G

82.10E ▶ 16(+)
82.10F ▶ 13(-) 16(+) ▶ 84.E
13(-) ▶ 84.F

UNI A3					date 11/2010				SABIZ PLANT		ANALOG OUTPUT AO2	Doc. 08039ED03	=	
0	ISSUE FOR APPROVAL	11/2010	G.C.	check CM	desig. GL							+		
Rev.	Revision	Date	Name	stand.	SPAC91							Job: 1E35	dwg. 1E35.85.1001	sheet 83 84 n.sh

2 It. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | FILE:1E35851001-083

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UNI A3					date 11/2010	=
					desig. GL	+
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Rev.	Revision	Date	Name	stand. SPAC91		

SABIZ PLANT

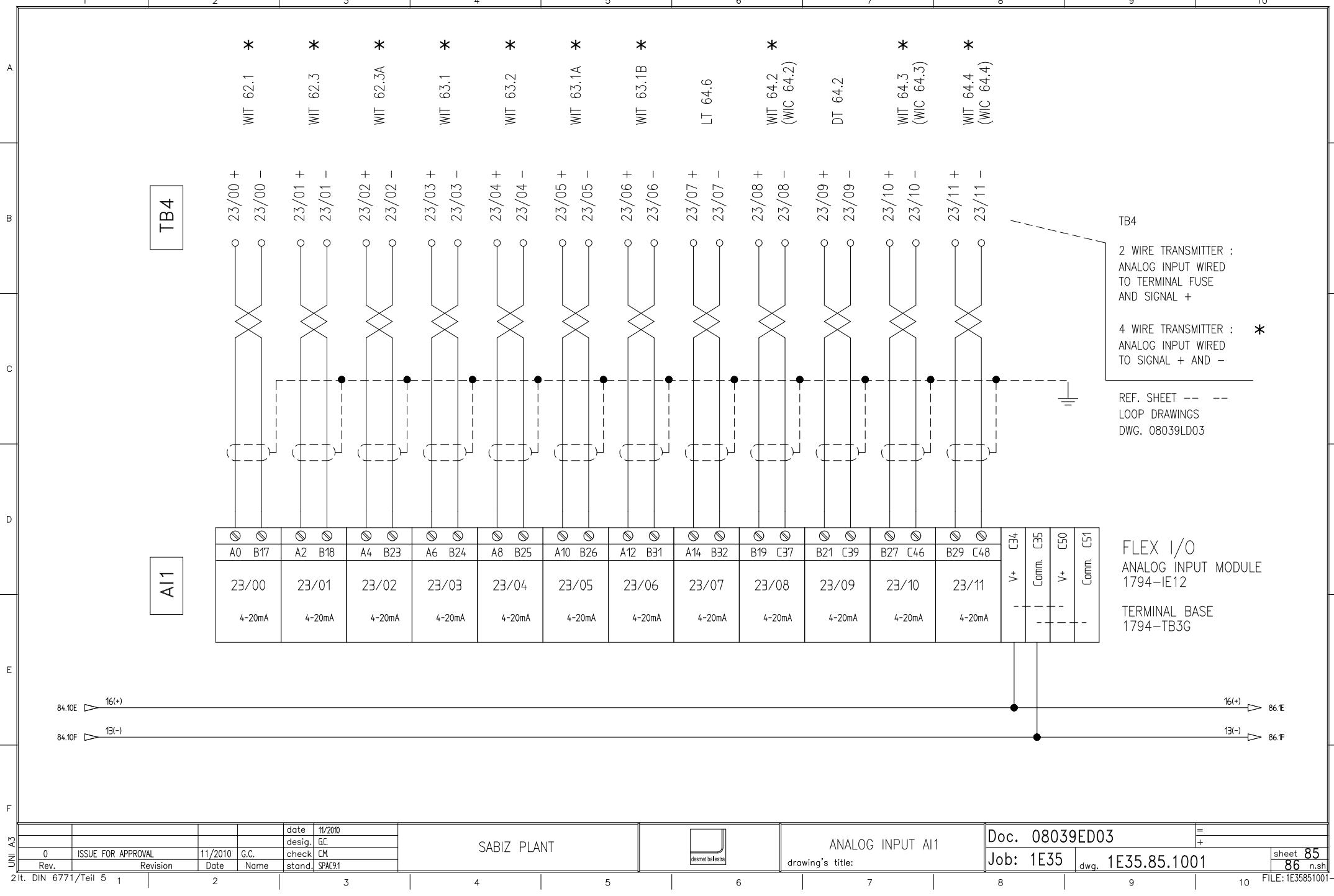
desmet ballstra

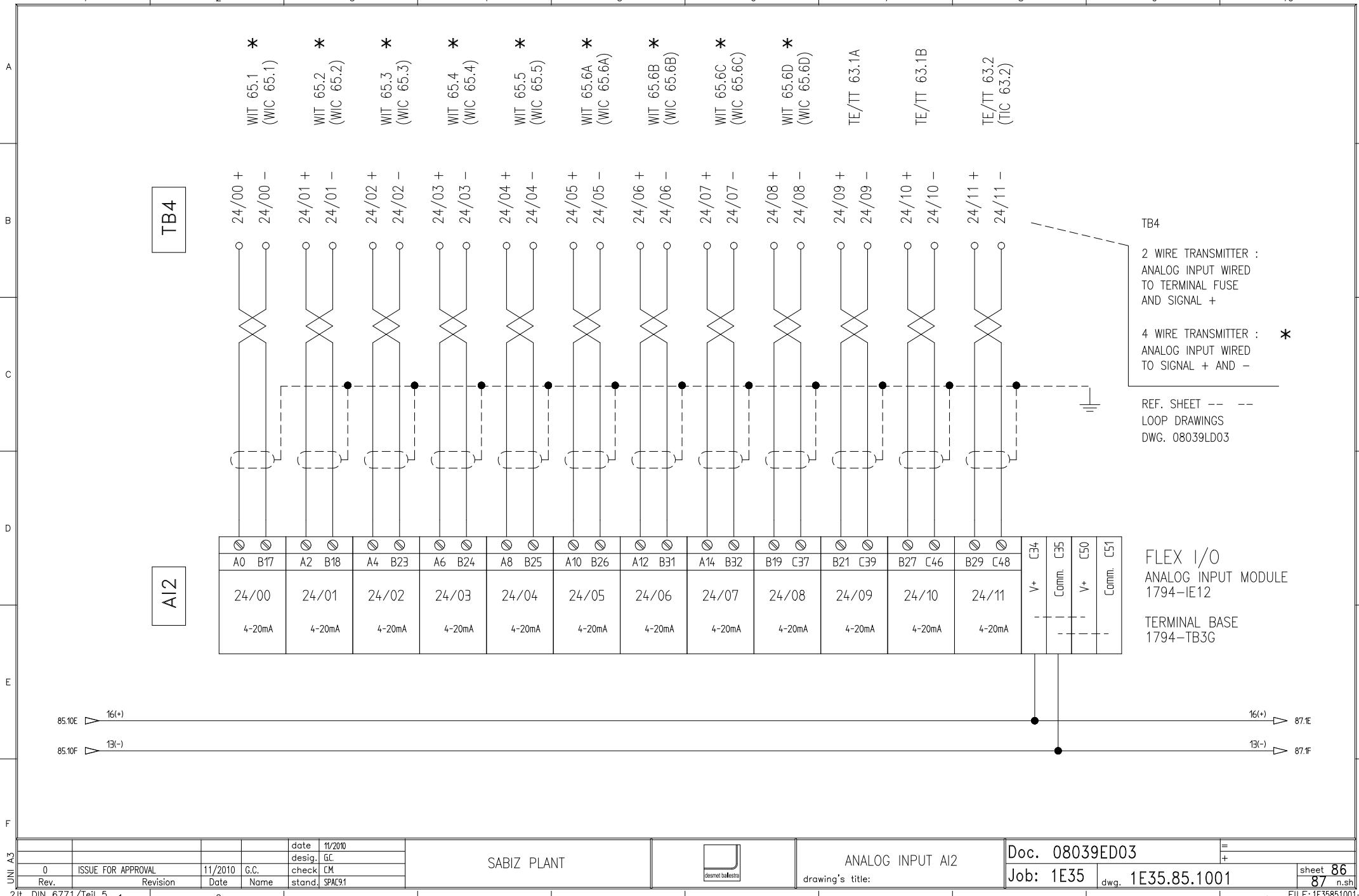
ANALOG OUTPUT AO3
drawing's title:

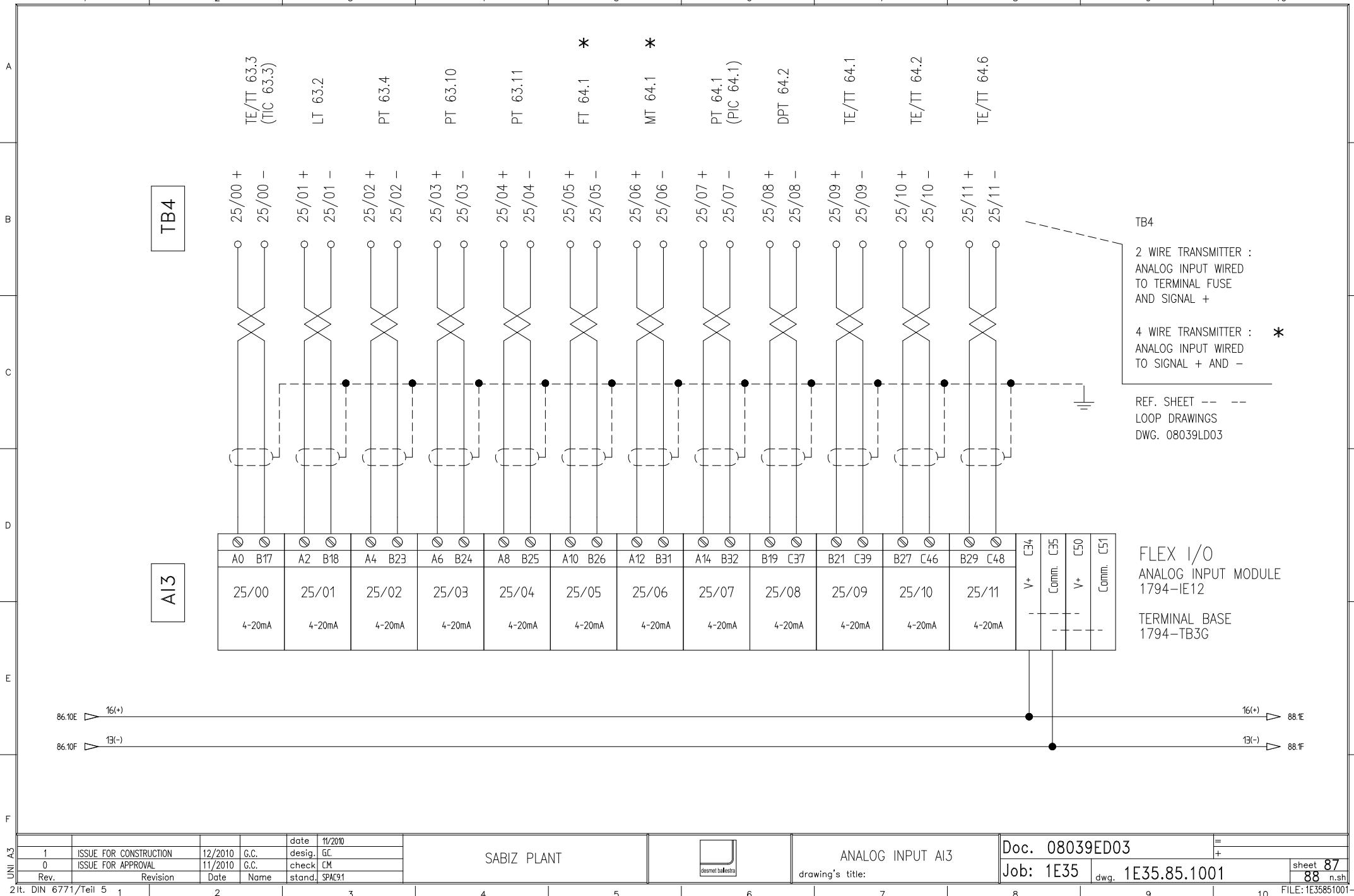
Doc. 08039ED03
Job: 1E35 dwg. 1E35.85.1001

sheet 84
85 n.sh

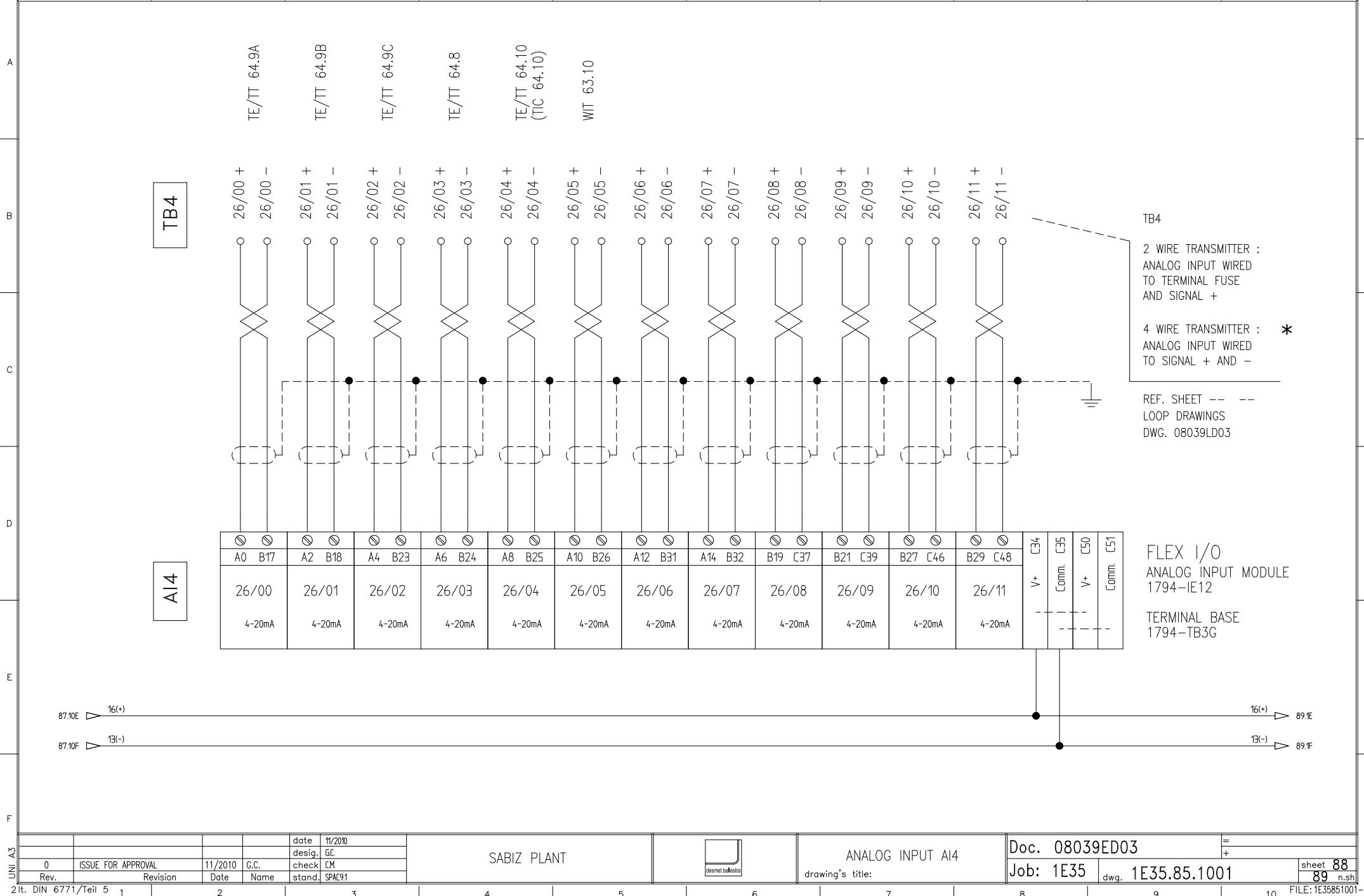
2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:1E35851001-084







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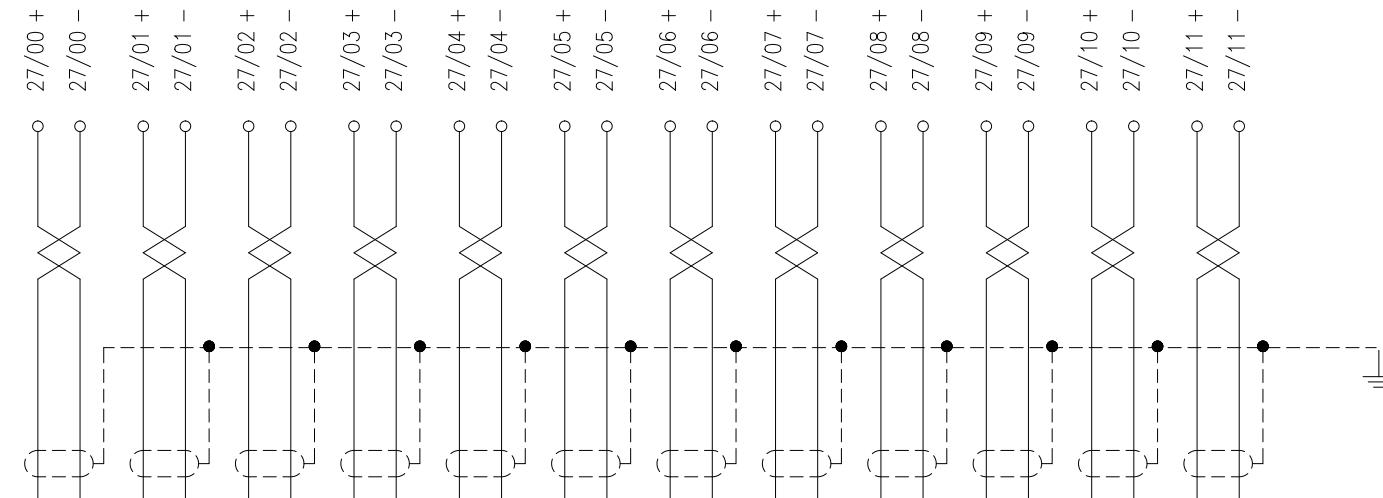
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TB4

AI5



A0 B17		A2 B18		A4 B23		A6 B24		A8 B25		A10 B26		A12 B31		A14 B32		B19 C37		B21 C39		B27 C46		B29 C48	
27/00	4-20mA	27/01	4-20mA	27/02	4-20mA	27/03	4-20mA	27/04	4-20mA	27/05	4-20mA	27/06	4-20mA	27/07	4-20mA	27/08	4-20mA	27/09	4-20mA	27/10	4-20mA	27/11	4-20mA



FLEX I/O
ANALOG INPUT MODULE
1794-IE12

TERMINAL BASE
1794-TB3G

UNI A3

2

ISSUE FOR APPROVAL

11/2010 G.C.
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2it. DIN 6771/Teil 5 1

SABIZ PLANT



ANALOG INPUT AI5

drawing's title:

Doc. 08039ED03

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Job: 1E35

sheet 89
90 n.sh

dwg. 1E35.85.1001

FILE:1E35851001-089

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UNI A3				date	11/2010
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Rev.	Revision	Date	Name	stand.	SPAC91

2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:1E35851001-090

SABIZ PLANT



SPARE SHEET

drawing's title:

Doc. 08039ED03

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Job: 1E35 dwg. 1E35.85.1001

sheet 90

91 n.sh

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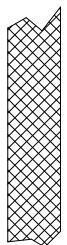
CAB.1

CAB.2

CAB.3



WIRE DUCT
INTERNAL WIRING



WIRE DUCT
SIGNAL FROM/TO FIELD

TERMINAL BLOCKS

TB4 : ANALOG IN

TB5 : ANALOG OUT

TB7 : DIGITAL I/O MOTORS

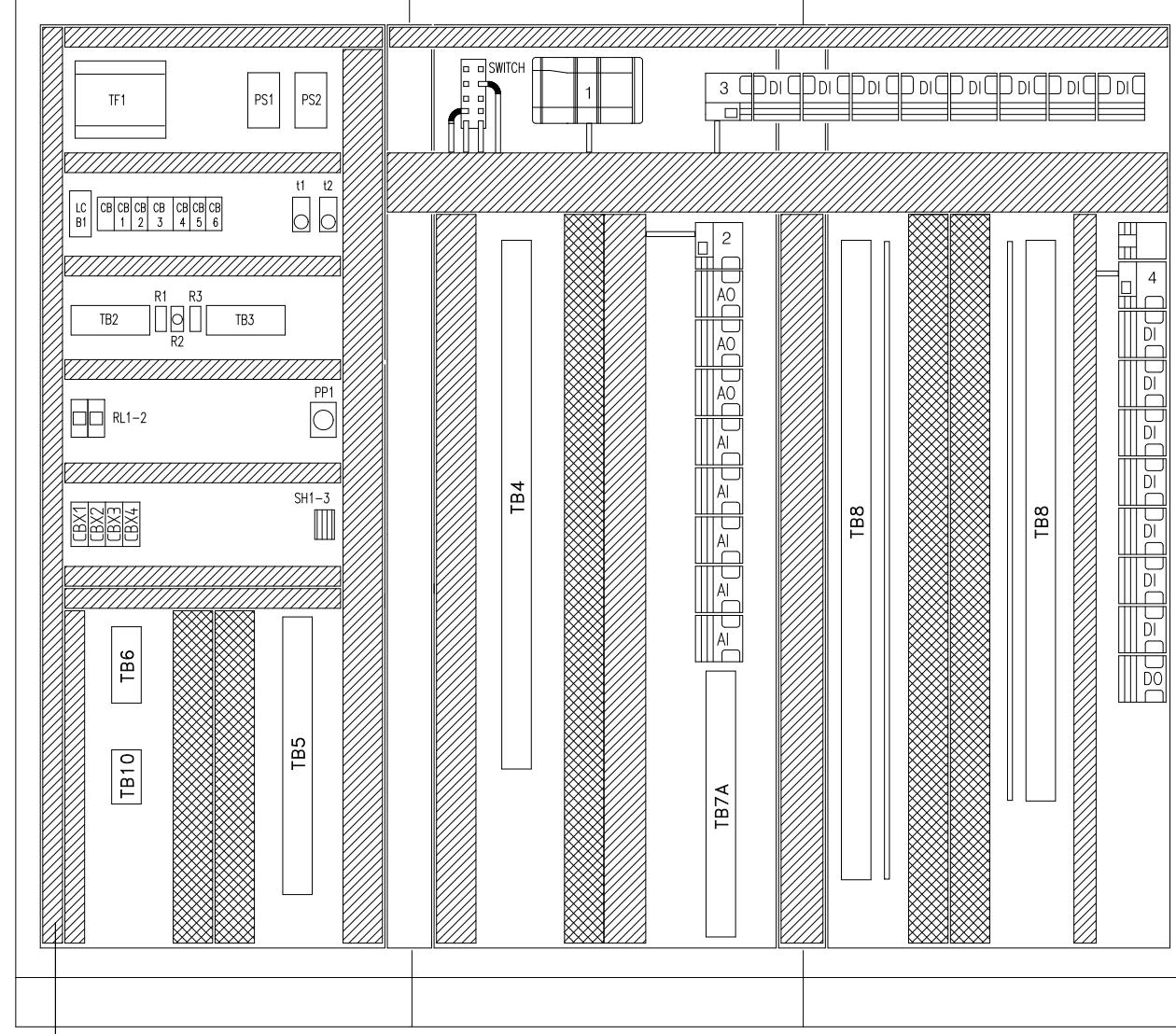
TB7A: DIGITAL OUTPUT FILTERS

TB8 : DIGITAL IN

TB9 : FEEDING VALVES 110VAC

TB6 : INTERLOCKS & FEEDING INSTRUMENTS

TB10: CONNECTIONS TO CAB. 4-5-6



ENTRY
220Vac-50Hz
220Vac LIGHTING

UNI A3

1	ISSUE FOR CONSTRUCTION	12/2010	G.C.	date	11/2010
0	ISSUE FOR APPROVAL	11/2010	G.C.	desig.	GC
	Rev.	Revision	Date	check	CM
			Name	stand.	SPAC9.1

2it. DIN 6771/Teil 5 1

SABIZ PLANT



LAYOUT CABINET 1-2-3
drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 91
92 n.sh

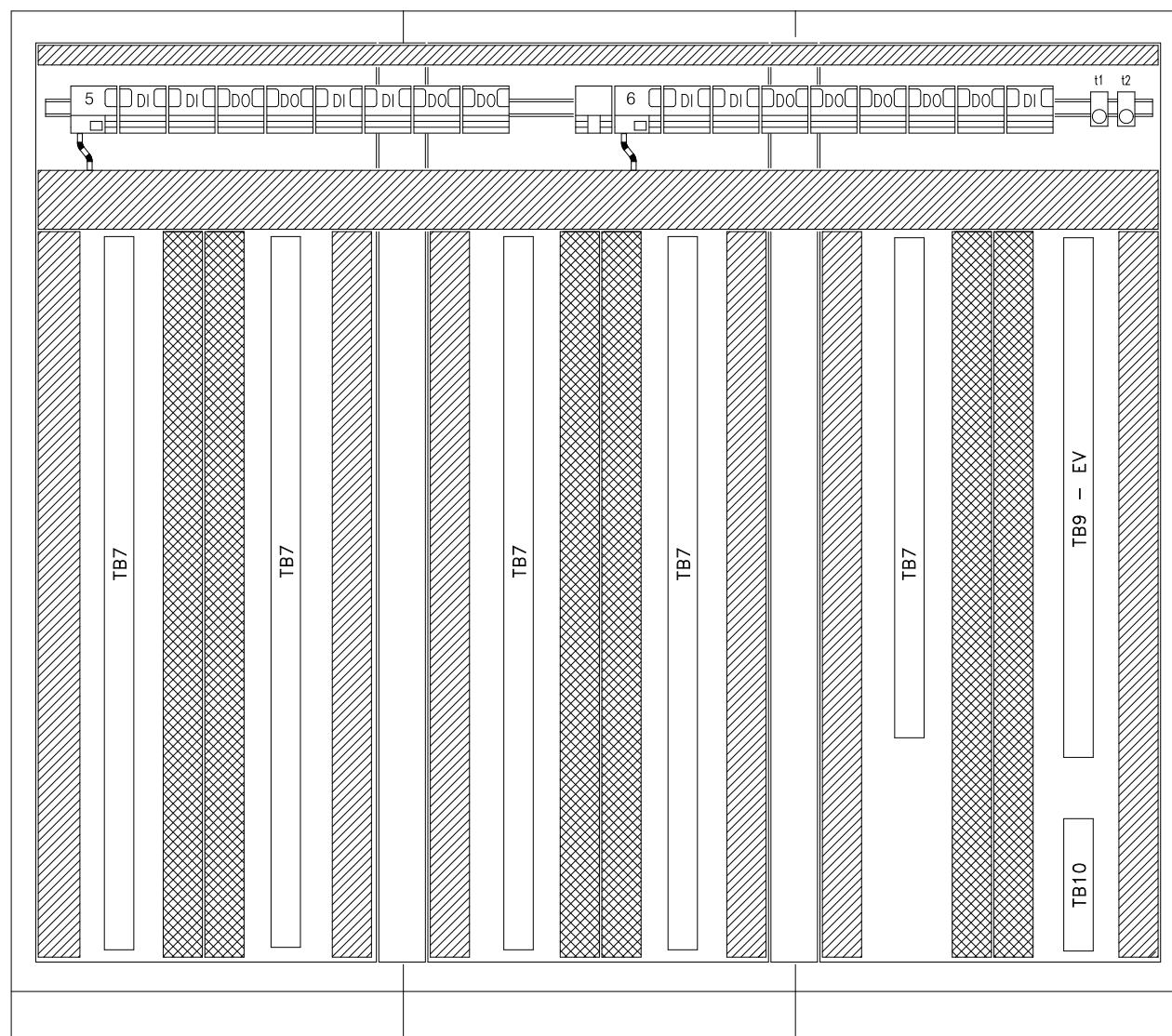
FILE: 1E35851001-091

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CAB.4

CAB.5

CAB.6



UNI A3				date 11/2010				Doc. 08039ED03	=
				desig. GL					+
0	ISSUE FOR APPROVAL	11/2010	G.C.	check CM					
Rev.	Revision	Date	Name	stand. SPAC91				Job: 1E35	sheet 92
2it. DIN 6771/Teil 5 1		2	3	4	5	6	7	dwg. 1E35.85.1001	93 n.sh

SABIZ PLANT



LAYOUT CABINET 4-5-6
drawing's title:

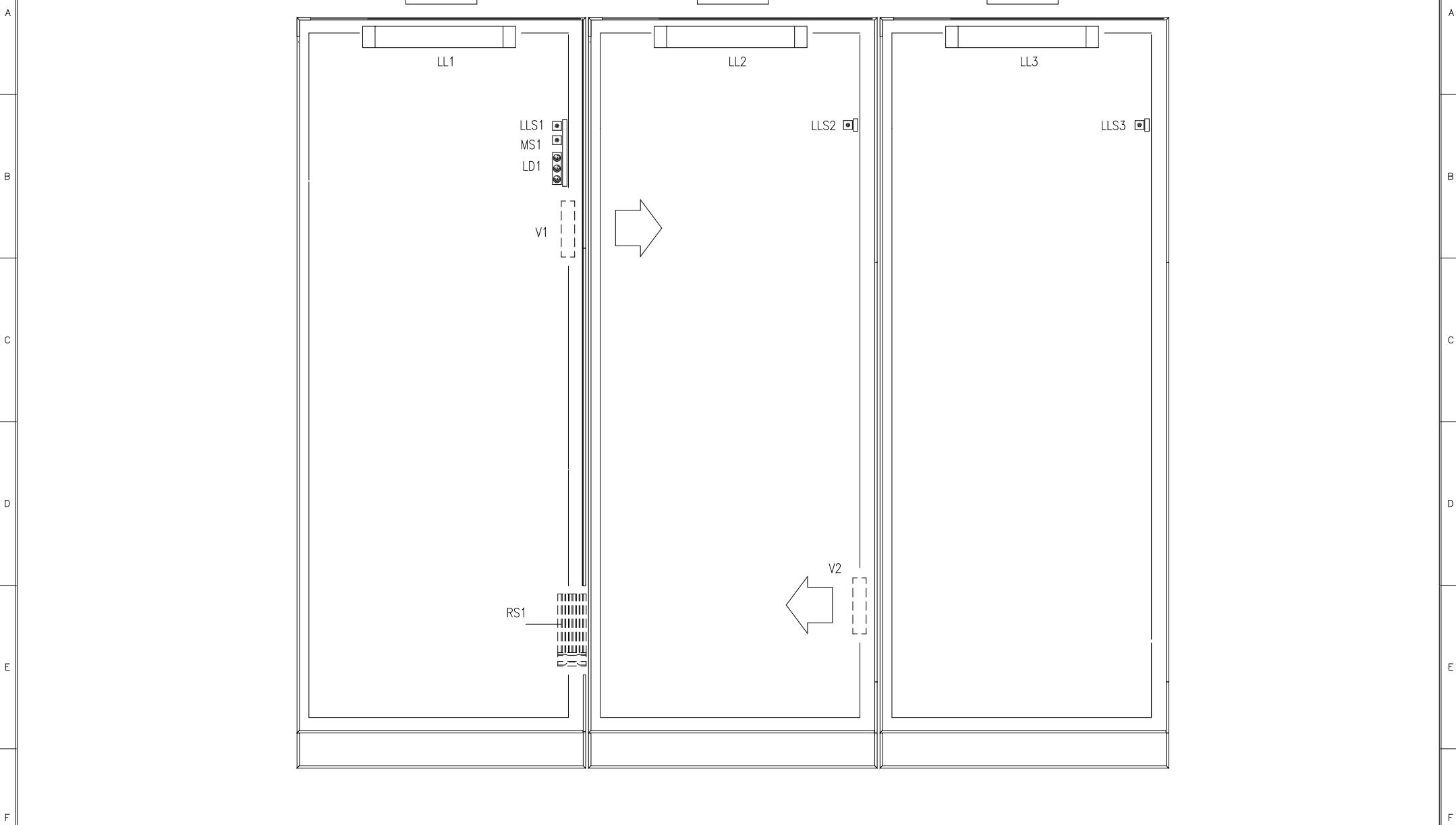
FILE:1E35851001-092

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CAB.1

CAB.2

CAB.3



UNI A3				date 11/2010
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Rev.	Revision	Date	Name	stand. SPAC91

SABIZ PLANT



LAYOUT CABINET 1-2-3
drawing's title:

Doc. 08039ED03

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Job: 1E35

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dwg. 1E35.85.1001

sheet 93

n.sh

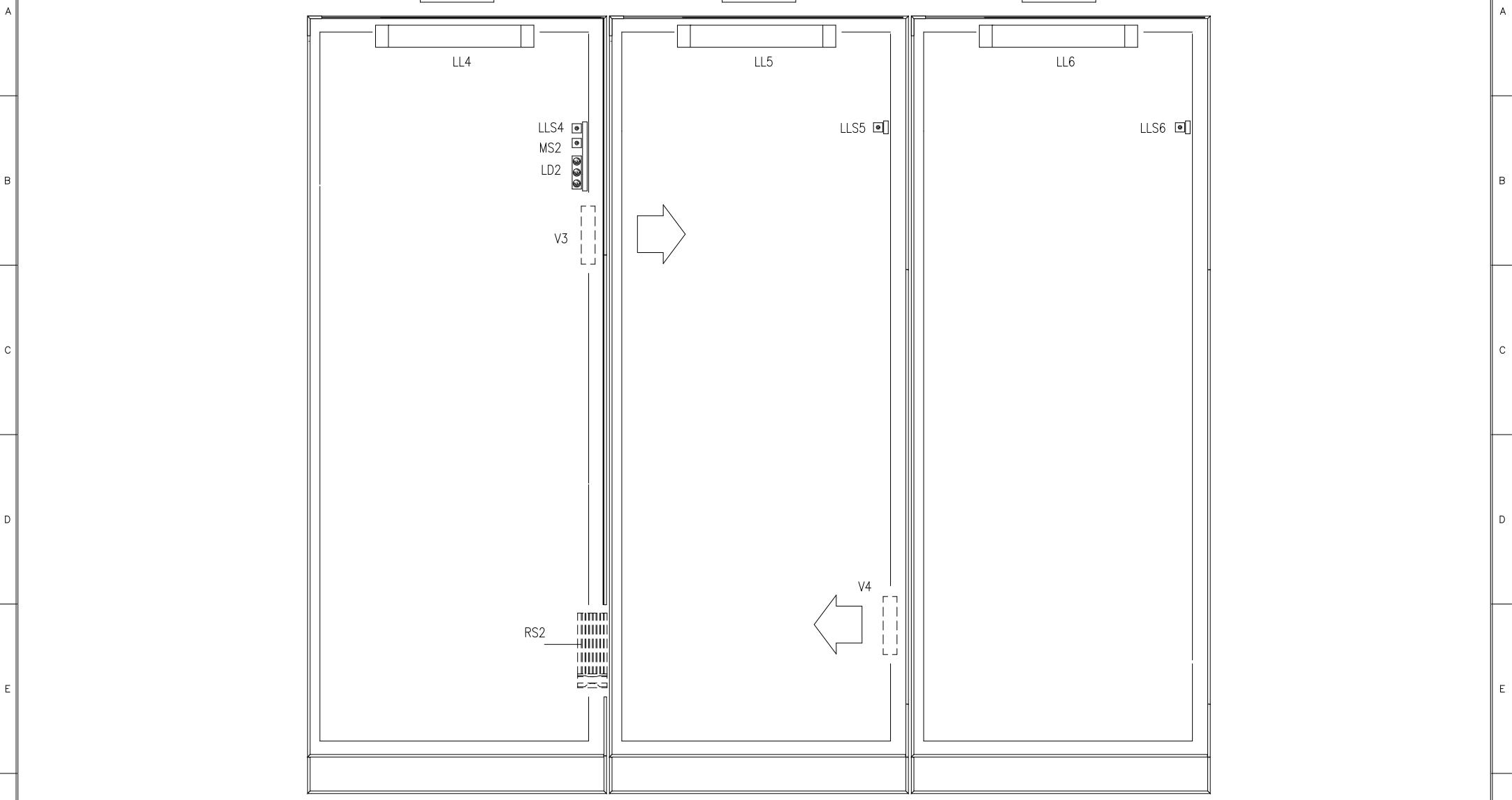
2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:1E35851001-093

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UNI A3				date 11/2010
				desig. GL
0	ISSUE FOR APPROVAL	11/2010	G.C.	check CM
Rev.	Revision	Date	Name	stand. SPAC91

SABIZ PLANT



LAYOUT CABINET 4-5-6
drawing's title:

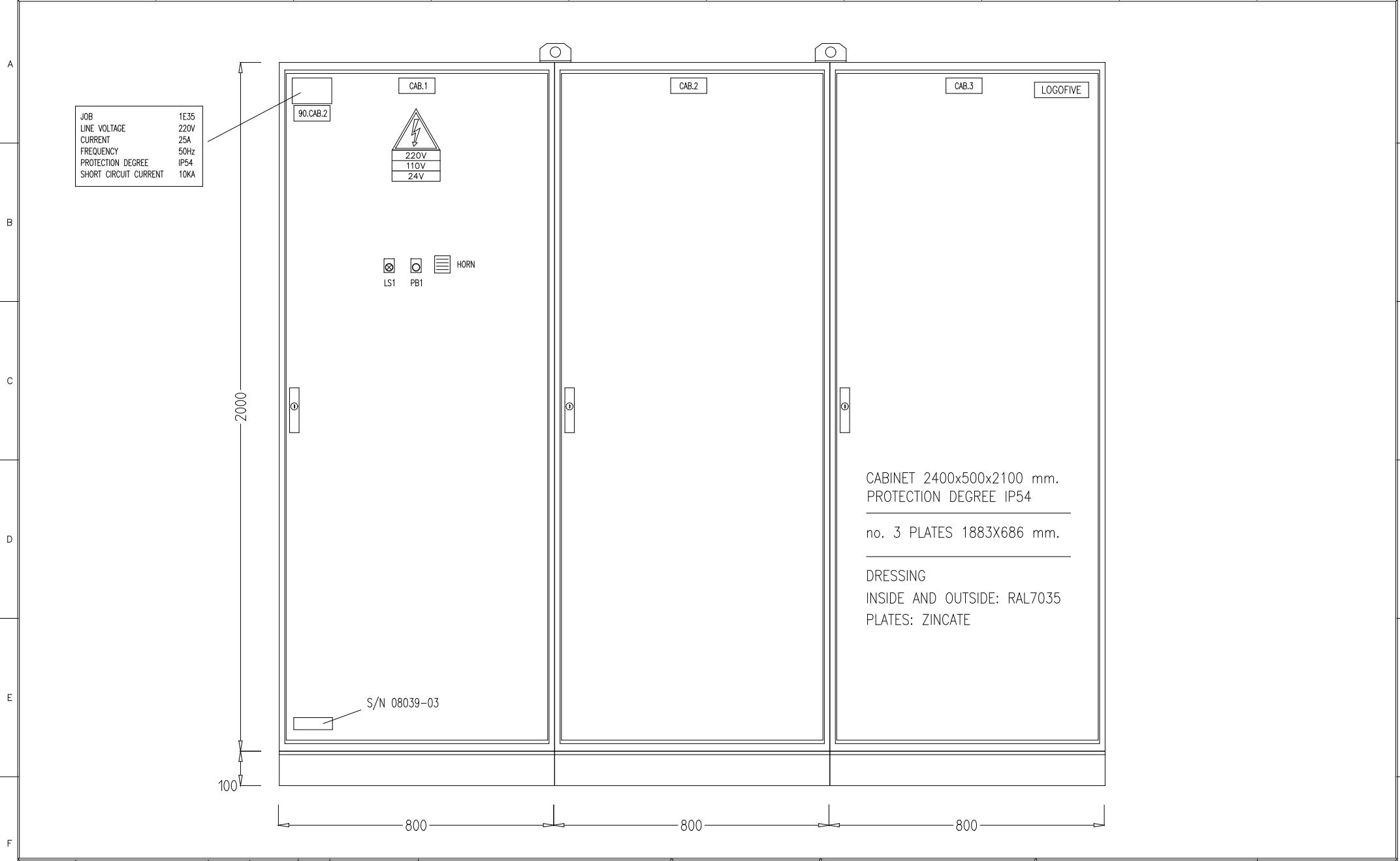
Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 94
95 n.sh

2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:1E35851001-094

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2	ISSUE AFTER TEST	01/2011	G.C.	date 11/2010	=
0	ISSUE FOR APPROVAL	11/2010	G.C.	check CM	+
Rev.	Revision	Date	Name	stand. SPAC91	
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SABIZ PLANT

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LAYOUT CABINET 1-2-3
drawing's title:

Doc. 08039ED03
Job: 1E35 dwg. 1E35.85.1001

sheet 95
96 n.sh

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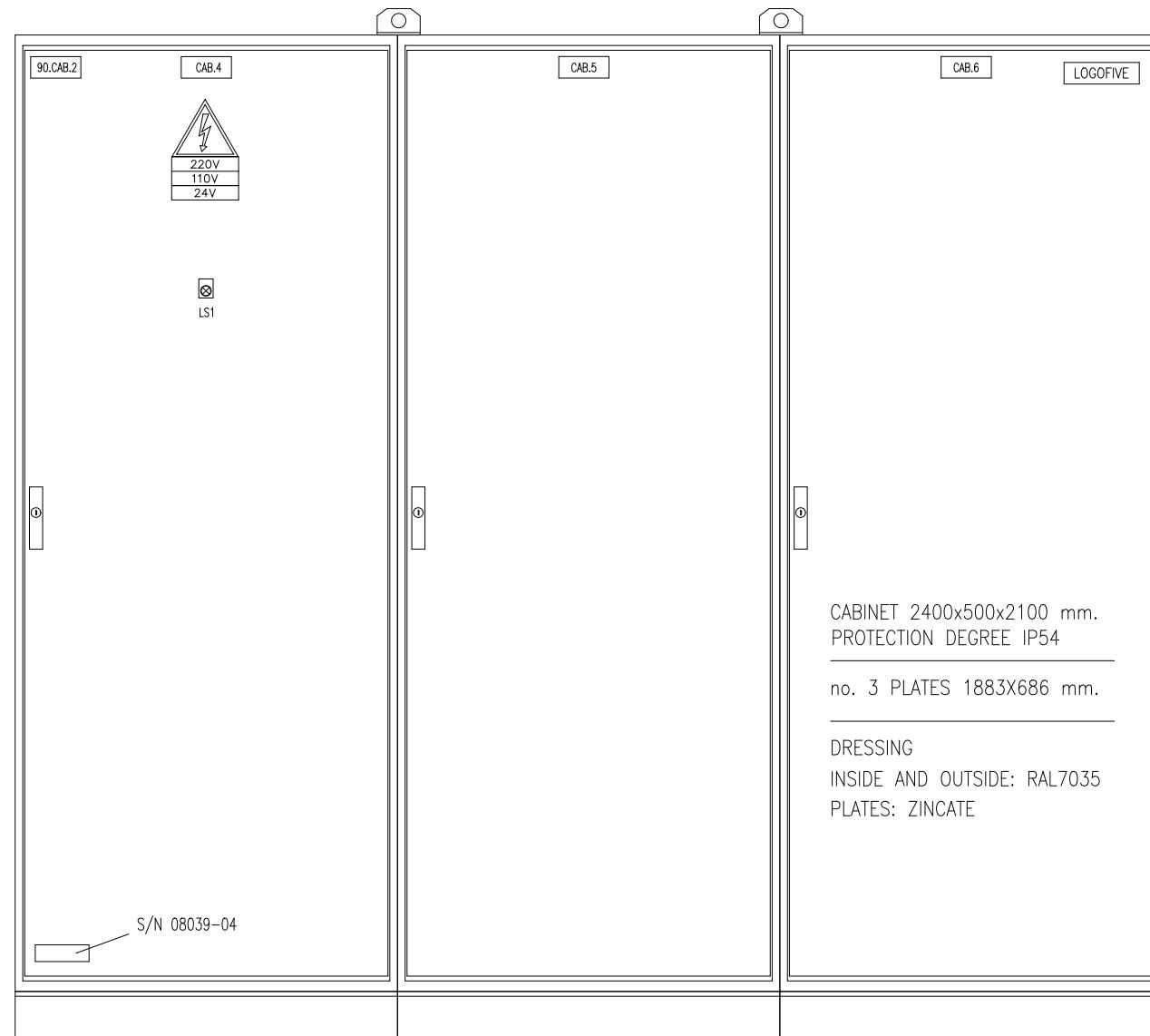
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2	ISSUE AFTER TEST	01/2011	G.C.	date	11/2010
0	ISSUE FOR APPROVAL	11/2010	G.C.	check	CM
Rev.	Revision	Date	Name	stand.	SPAC91

SABIZ PLANT



LAYOUT CABINET 4-5-6
drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 96
97 n.sh

2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:1E35851001-096

1 2 3 4 5 6 7 8 9 10

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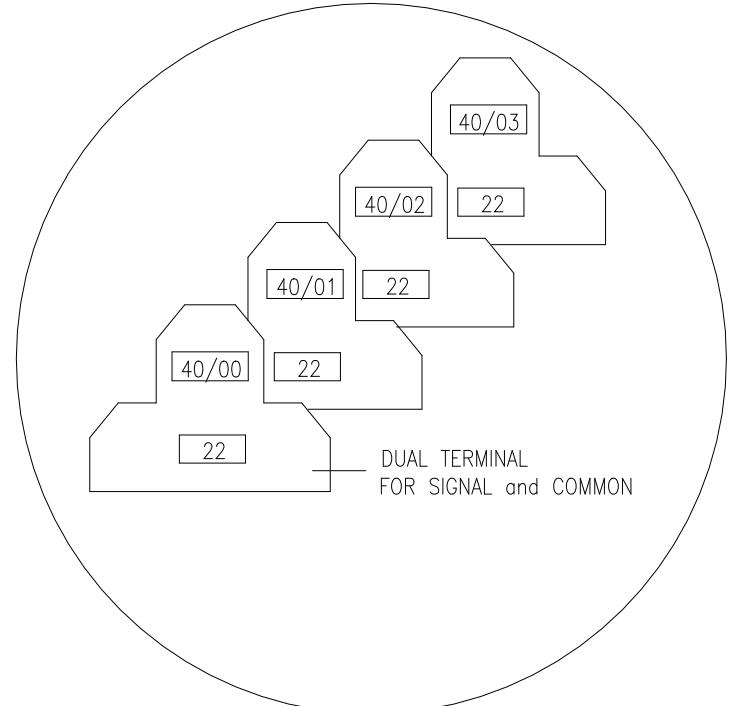
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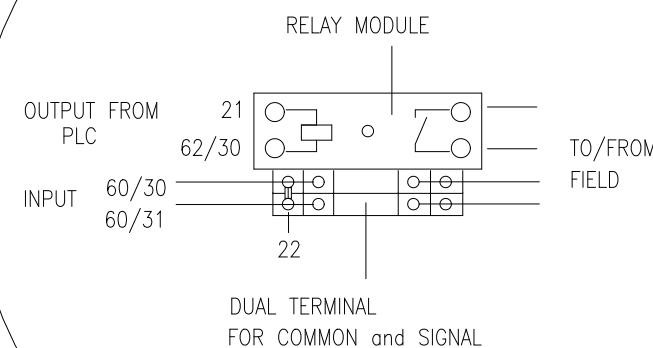
TERMINAL BLOCK ASSEMBLY
DIGITAL INPUT

TB8



TERMINAL BLOCK ASSEMBLY
DIGITAL I/O MOTORS

TB7



UNI A3	0	ISSUE FOR APPROVAL	11/2010	date	11/2010
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		Date	Name	check	CM

SABIZ PLANT



TERMINAL BLOCK ASSEMBLY
drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 97
98 n.sh

2it. DIN 6771/Teil 5 1 2 3 4 5 6 7 8 9 10 FILE:1E35851001-

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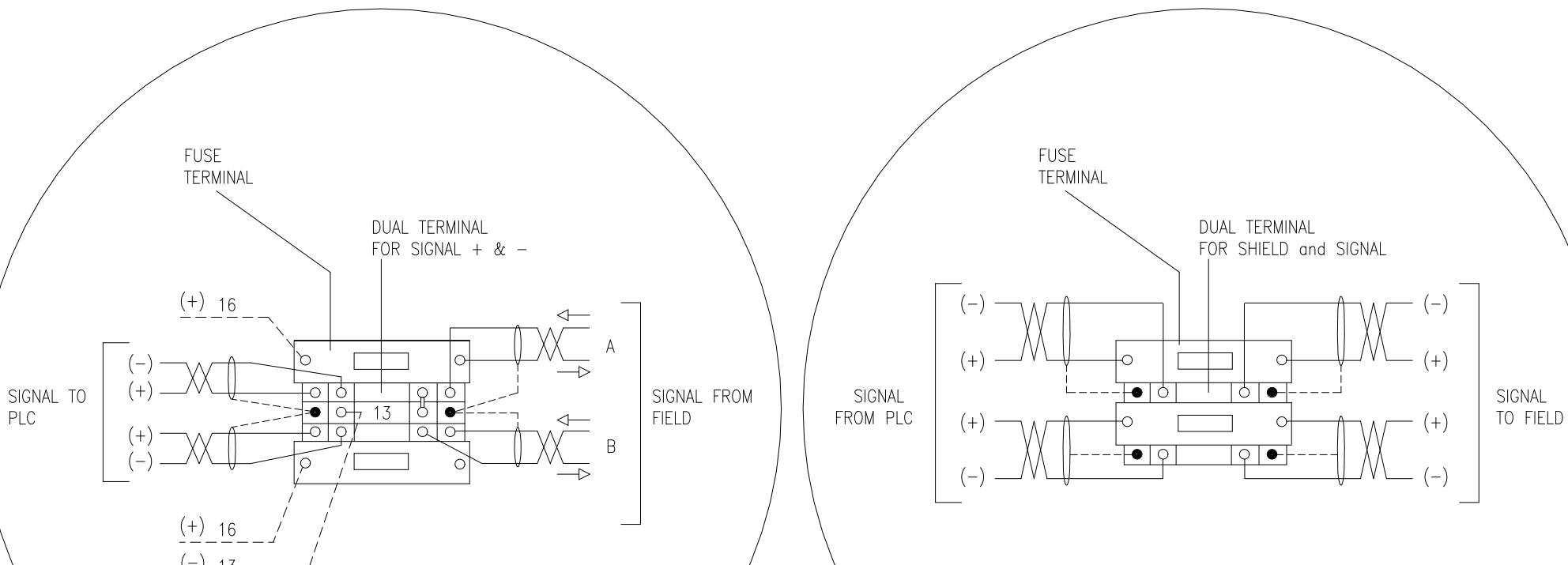
F

TERMINAL BLOCK ASSEMBLY
ANALOG INPUT

TB4

TERMINAL BLOCK ASSEMBLY
ANALOG OUTPUT

TB5



A TWO WIRE
(-Signal / OV JUMP)

B FOUR WIRE

UNI A3					date 11/2010
0	ISSUE FOR APPROVAL	11/2010	GC	check CM	desig. GC
Rev.	Revision	Date	Name	stand. SPAC9.1	stand. SPAC9.1
2 It DIN 6771/Teil 5 1	2	3	4	5	6

SABIZ PLANT



TERMINAL BLOCK ASSEMBLY
drawing's title:

Doc. 08039ED03

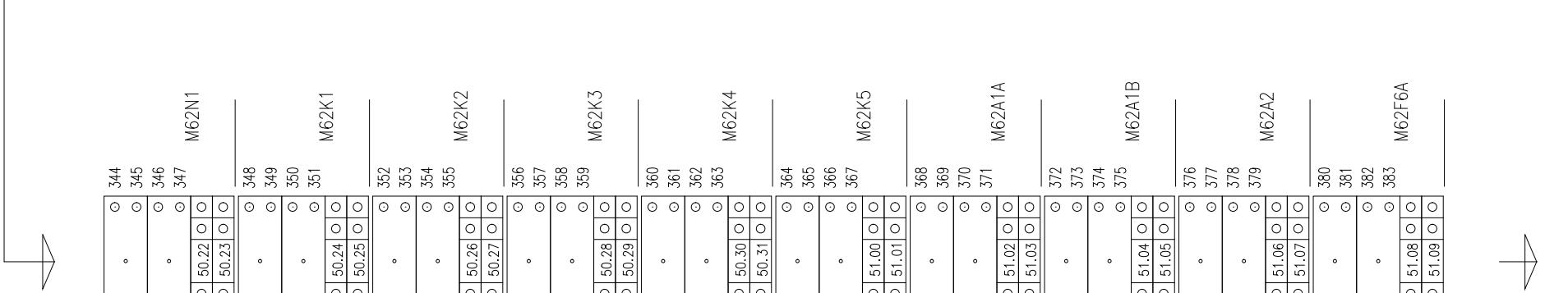
Job: 1E35 dwg. 1E35.85.1001

sheet 98
99 n.sh

FILE: 1E35851001-

2	ISSUE AFTER TEST	01/2011	G.C.	date	11/2010	SABIZ PLANT	 document header	MOTORS TERMINAL BLOCK TB7	Doc. 08039ED03	=
0	ISSUE FOR APPROVAL	11/2010	G.C.	desig.	G.C.			drawing's title:	Job: 1E35	+
Rev.	Revision	Date	Name	check	CM			dwg. 1E35.85.1001	100	sheet 99 n.sh

2 lit. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:IE35851001-09



DIGITAL I/O MOTORS TERMINAL BLOCK

TB7 CAB.4

CAB.

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21	○	424
53.30	○	425
21	○	426
53.31	○	427
22	○ ○ 51.30 ○ ○	M63P2A
21	○ ○ 51.31 ○ ○	
21	○ ○ 428	
56.00	○ ○ 429	
21	○ ○ 430	
56.01	○ ○ 431	M63P2B
22	○ ○ 54.00 ○ ○	
21	○ ○ 54.01 ○ ○	
21	○ ○ 432	
56.02	○ ○ 433	
21	○ ○ 434	
56.03	○ ○ 435	M63P4A
22	○ ○ 54.02 ○ ○	
21	○ ○ 54.03 ○ ○	
21	○ ○ 436	
56.04	○ ○ 437	
21	○ ○ 438	
56.05	○ ○ 439	M63P4B
22	○ ○ 54.04 ○ ○	
21	○ ○ 54.05 ○ ○	
21	○ ○ 440	
56.06	○ ○ 441	
21	○ ○ 442	
56.07	○ ○ 443	M63P5
22	○ ○ 54.06 ○ ○	
21	○ ○ 54.07 ○ ○	
21	○ ○ 444	
56.08	○ ○ 445	
21	○ ○ 446	
56.09	○ ○ 447	M63P6
22	○ ○ 54.08 ○ ○	
21	○ ○ 54.09 ○ ○	
21	○ ○ 448	
56.10	○ ○ 449	
21	○ ○ 450	
56.11	○ ○ 451	M63P3A
22	○ ○ 54.10 ○ ○	
21	○ ○ 54.11 ○ ○	
22	○ ○ 54.12 ○ ○	
21	○ ○ 54.13 ○ ○	
21	○ ○ 456	
56.14	○ ○ 457	
21	○ ○ 458	
56.15	○ ○ 459	M63P3C
22	○ ○ 54.14 ○ ○	
21	○ ○ 54.15 ○ ○	

21	○ ○ 51.10 ○ ○	M62F6B
21	○ ○ 51.11 ○ ○	
21	○ ○ 384	
53.10	○ ○ 385	
21	○ ○ 386	
53.11	○ ○ 387	
22	○ ○ 51.12 ○ ○	
21	○ ○ 51.13 ○ ○	
21	○ ○ 388	
53.12	○ ○ 389	
21	○ ○ 390	
53.13	○ ○ 391	M62P1
22	○ ○ 51.14 ○ ○	
21	○ ○ 51.15 ○ ○	
21	○ ○ 392	
53.14	○ ○ 393	
21	○ ○ 394	
53.15	○ ○ 395	M62Z1
22	○ ○ 51.16 ○ ○	
21	○ ○ 51.17 ○ ○	
21	○ ○ 396	
53.16	○ ○ 397	
21	○ ○ 398	
53.17	○ ○ 399	M63A1A
22	○ ○ 51.18 ○ ○	
21	○ ○ 51.19 ○ ○	
21	○ ○ 400	
53.18	○ ○ 401	
21	○ ○ 402	
53.19	○ ○ 403	M63A1B
22	○ ○ 51.20 ○ ○	
21	○ ○ 51.21 ○ ○	
21	○ ○ 404	
53.20	○ ○ 405	
21	○ ○ 406	
53.21	○ ○ 407	M63A2
22	○ ○ 51.22 ○ ○	
21	○ ○ 51.23 ○ ○	
21	○ ○ 408	
53.22	○ ○ 409	
21	○ ○ 410	
53.23	○ ○ 411	M63A3
22	○ ○ 51.24 ○ ○	
21	○ ○ 51.25 ○ ○	
21	○ ○ 412	
53.24	○ ○ 413	
21	○ ○ 414	
53.25	○ ○ 415	M63F2A
22	○ ○ 51.26 ○ ○	
21	○ ○ 51.27 ○ ○	
21	○ ○ 420	
53.28	○ ○ 421	
21	○ ○ 422	
53.29	○ ○ 423	M63K1
22	○ ○ 51.28 ○ ○	
21	○ ○ 51.29 ○ ○	

DIGITAL I/O MOTORS
TERMINAL BLOCK

TB7

CAB.4

1 2 3 4 5 6 7 8 9 10

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21	○	580		21	○	540		21	○	540	
62.12	○	581		57.24	○	541		57.26	○	541	
21	○	582		21	○	542		21	○	542	
62.13	○	583	M65K9	57.25	○	543		57.27	○	543	
22	○	60.12	○	22	○	55.24	○	22	○	55.24	○
○	○	60.13	○	○	○	55.25	○	○	○	55.25	○
21	○	584		21	○	544		21	○	544	
62.14	○	585		57.26	○	545		57.26	○	545	
21	○	586		21	○	546		21	○	546	
62.15	○	587	MOT.2	57.27	○	547		57.27	○	547	
22	○	60.14	○	22	○	55.26	○	22	○	55.26	○
○	○	60.15	○	○	○	55.27	○	○	○	55.27	○
21	○	588		21	○	548		21	○	548	
62.16	○	589		57.28	○	549		57.28	○	549	
21	○	590		21	○	550		21	○	550	
62.17	○	591	MOT.3	57.29	○	551		57.29	○	551	
22	○	60.16	○	22	○	55.28	○	22	○	55.28	○
○	○	60.17	○	○	○	55.29	○	○	○	55.29	○
21	○	592		21	○	552		21	○	552	
62.18	○	593		57.30	○	553		57.30	○	553	
21	○	594		21	○	554		21	○	554	
62.19	○	595	MOT.4	57.31	○	555		57.31	○	555	
22	○	60.18	○	22	○	55.30	○	22	○	55.30	○
○	○	60.19	○	○	○	55.31	○	○	○	55.31	○
21	○	596		21	○	556		21	○	556	
62.20	○	597		62.00	○	557		62.00	○	557	
21	○	598		21	○	558		21	○	558	
62.21	○	599	MOT.5	62.01	○	559		62.01	○	559	
22	○	60.20	○	22	○	60.00	○	22	○	60.00	○
○	○	60.21	○	○	○	60.01	○	○	○	60.01	○
21	○	600		21	○	560		21	○	560	
62.22	○	601		62.02	○	561		62.02	○	561	
21	○	602		21	○	562		21	○	562	
62.23	○	603	MOT.6	62.03	○	563		62.03	○	563	
22	○	60.22	○	22	○	60.02	○	22	○	60.02	○
○	○	60.23	○	○	○	60.03	○	○	○	60.03	○
21	○	604		21	○	564		21	○	564	
62.24	○	605		62.04	○	565		62.04	○	565	
22	○	60.24	○	22	○	60.04	○	22	○	60.04	○
○	○	60.25	○	○	○	60.05	○	○	○	60.05	○
21	○	606		21	○	566		21	○	566	
62.25	○	607		62.05	○	567		62.05	○	567	
22	○	60.27	○	22	○	60.04	○	22	○	60.04	○
○	○	60.28	○	○	○	60.05	○	○	○	60.05	○
21	○	608		21	○	568		21	○	568	
62.26	○	609		62.06	○	569		62.06	○	569	
22	○	60.30	○	22	○	60.05	○	22	○	60.05	○
○	○	60.31	○	○	○	60.06	○	○	○	60.06	○
21	○	610		21	○	572		21	○	572	
62.27	○	611		62.08	○	573		62.08	○	573	
22	○	61.01	○	22	○	60.08	○	22	○	60.08	○
○	○	61.02	○	○	○	60.09	○	○	○	60.09	○
21	○	612		21	○	574		21	○	574	
62.28	○	613		62.09	○	575		62.09	○	575	
22	○	61.04	○	22	○	60.10	○	22	○	60.10	○
○	○	61.05	○	○	○	60.11	○	○	○	60.11	○
21	○	614		21	○	576		21	○	576	
62.29	○	615		62.10	○	577		62.10	○	577	
22	○	61.06	○	22	○	60.12	○	22	○	60.12	○
○	○	61.07	○	○	○	60.13	○	○	○	60.13	○

DIGITAL I/O MOTORS
TERMINAL BLOCK

TB7

CAB.5

1 2 3 4 5 6 7 8 9 10

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DIGITAL I/O MOTORS TERMINAL BLOCK

TBT

CAB,5

UNI A5				date	11/2010
1	ISSUE FOR CONSTRUCTION	12/2010	GC	desig.	GC
0	ISSUE FOR APPROVAL	11/2010	GC	check	CM
Rev.	Revision	Date	Name	stand.	SPAC91

SABIZ PLANT



MOTORS TERMINAL BLOCK TB

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 103
104 n.sh

2lt. DIN 6771/Teil 5 1 | 2 |

1 2 3 4 5 6 7 8 9 10

21	○	○	110	TY63.1A		21	○	○	636	WY62.3
64.07	○	○	111			21	○	○	637	
21	○	○	112	TY63.1B		21	○	○	638	WY62.3A
64.08	○	○	113			21	○	○	639	KC64.4A/C
21	○	○	114	KY63.1		21	○	○	640	
64.09	○	○	115			21	○	○	641	
21	○	○	116	KY63.15		21	○	○	642	KC64.4B/D
64.10	○	○	117			21	○	○	643	
21	○	○	118	KY63.16		21	○	○	644	KC62.13
64.11	○	○	119			21	○	○	645	KC62.13A
21	○	○	120	HY64.1		21	○	○	646	
64.12	○	○	121			21	○	○	647	KC62.11A/B/C
21	○	○	122	HY64.2		21	○	○	648	WY62.1
64.13	○	○	123			21	○	○	649	
21	○	○	124	KY64.9		21	○	○	650	CAB.5
64.14	○	○	125			21	○	○	651	
21	○	○	126	KY64.15		21	○	○	652	
64.15	○	○	127			21	○	○	653	
21	○	○	128	KY65.10A		21	○	○	654	
64.16	○	○	129			21	○	○	655	
21	○	○	130	KY65.10B		21	○	○	656	
64.17	○	○	131			21	○	○	657	
21	○	○	132	KY65.10C		21	○	○	658	
64.18	○	○	133			21	○	○	659	
21	○	○	134	KY65.10D		21	○	○	660	
64.19	○	○	135			21	○	○	661	KV63.5
21	○	○	136	KY65.10E		21	○	○	662	
64.20	○	○	137			21	○	○	663	KV63.6
21	○	○	138	KY65.10F		21	○	○	664	
64.21	○	○	139			21	○	○	665	KV63.7
21	○	○	140	KY65.10G		21	○	○	666	
64.22	○	○	141			21	○	○	667	KV63.8
21	○	○	142	KY65.10H		21	○	○	668	
64.23	○	○	143			21	○	○	669	KV63.9
21	○	○	144	KY65.10I		21	○	○	670	
64.24	○	○	145			21	○	○	671	KV63.10
21	○	○	146	KY65.119		21	○	○	672	
64.25	○	○	147			21	○	○	673	KV63.12
21	○	○	148	KY65.11A		21	○	○	674	KV63.13
64.26	○	○	149			21	○	○	675	
21	○	○	150	KY65.11B		21	○	○	676	KV63.11B
64.27	○	○	151			21	○	○	677	
21	○	○	152	KY65.11C		21	○	○	678	
64.28	○	○	153			21	○	○	679	
21	○	○	154	KY65.11D		21	○	○	680	KV63.18A
64.29	○	○	155			21	○	○	681	
21	○	○	156	KY65.11E		21	○	○	682	KV63.18B
64.30	○	○	157			21	○	○	683	
21	○	○	158	KY65.11F		21	○	○	684	KV63.19A
64.31	○	○	159			21	○	○	685	
21	○	○	160	KY65.11G		21	○	○	686	KV63.19B
65.00	○	○	161			21	○	○	687	
21	○	○	162	KY65.11H		21	○	○	688	SPARE
65.01	○	○	163			21	○	○	689	
21	○	○	164	KY65.11I		21	○	○	690	
65.02	○	○	165			21	○	○	691	
21	○	○	166	KY65.21		21	○	○	692	
65.03	○	○	167			21	○	○	693	
21	○	○	168	KY65.12A		21	○	○	694	
65.04	○	○	169			21	○	○	695	
						21	○	○	696	
						21	○	○	697	SPARE

DIGITAL OUT VALVES
TERMINAL BLOCK

TB7

CAB.5

TO TB9 - 110VAC VALVES - SHEETS 114, 115

UNI A3	ISSUE FOR CONSTRUCTION	date 11/2010	desig. GE	SABIZ PLANT	VALVES TERMINAL BLOCK TB7	Doc. 08039ED03	=
1		12/2010	GC				
0	ISSUE FOR APPROVAL	11/2010	GC				
Rev.	Revision	Date	Name	check CM	drawing's title:	Job: 1E35	+
				stand. SPAC9.1		dwg. 1E35.85.1001	sheet 104
2it. DIN 6771/Teil 5 1							105 n.sh

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DIGITAL OUT VALVES
TERMINAL BLOCK

TB7

CAB.5-CAB.6

TO TB9 - 110VAC VALVES - SHEETS 115, 116

21	○	○	170	KY65.12B
65.05	○	○	171	
21	○	○	172	KY65.12C
65.06	○	○	173	
21	○	○	174	KY65.12D
65.07	○	○	175	
21	○	○	176	KY65.12E
65.08	○	○	177	
21	○	○	178	KY65.12F
65.09	○	○	179	
21	○	○	180	KY65.12G
65.10	○	○	181	
21	○	○	182	KY65.12H
65.11	○	○	183	
21	○	○	184	KY65.12I
65.12	○	○	185	
21	○	○	186	KY65.20
65.13	○	○	187	
21	○	○	188	KY65.13A
65.14	○	○	189	
21	○	○	190	KY65.13B
65.15	○	○	191	
21	○	○	192	KY65.13C
65.16	○	○	193	
21	○	○	194	KY65.13D
65.17	○	○	195	
21	○	○	196	KY65.13E
65.18	○	○	197	
21	○	○	198	KY65.13F
65.19	○	○	199	
21	○	○	200	KY65.13G
65.20	○	○	201	
21	○	○	202	KY65.13H
65.21	○	○	203	
21	○	○	204	KY65.13I
65.22	○	○	205	
21	○	○	206	KY65.18
65.23	○	○	207	
21	○	○	208	KY65.27A
65.24	○	○	209	
21	○	○	210	KY65.27B
65.25	○	○	211	
21	○	○	212	KY65.28A
65.26	○	○	213	
21	○	○	214	HY62.4
65.27	○	○	215	
21	○	○	216	HY62.5
65.28	○	○	217	

TO TB9 - 110VAC VALVES - SHEET 117

21	○	○	218	KY65.28B
65.29	○	○	219	
21	○	○	220	KY2 spare
65.30	○	○	221	
21	○	○	222	
65.31	○	○	223	
21	○	○	224	
66.00	○	○	225	
21	○	○	226	
66.01	○	○	227	
21	○	○	228	
66.02	○	○	229	
21	○	○	230	
66.03	○	○	231	
21	○	○	232	
66.04	○	○	233	
21	○	○	234	
66.05	○	○	235	
21	○	○	236	
66.06	○	○	237	
21	○	○	238	KY11 spare
66.07	○	○	239	
21	○	○	698	SPARE
66.08	○	○	699	
21	○	○	700	
66.09	○	○	701	
21	○	○	702	
66.10	○	○	703	
21	○	○	704	
66.11	○	○	705	
21	○	○	706	
66.12	○	○	707	
21	○	○	708	
66.13	○	○	709	
21	○	○	710	
66.14	○	○	711	
21	○	○	712	SPARE
66.15	○	○	713	

SABIZ PLANT



VALVES TERMINAL BLOCK TB7
drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

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sheet 105
106 n.sh

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21 ○ ○ 746 KC62.1

47.00 ○ ○ 747

21 ○ ○ 748 KC62.2

47.01 ○ ○ 749

21 ○ ○ 750 KC62.3

47.02 ○ ○ 751

21 ○ ○ 752 KC62.4

47.03 ○ ○ 753

21 ○ ○ 754 KC62.5

47.04 ○ ○ 755

21 ○ ○ 756 KC64.1

47.05 ○ ○ 757

21 ○ ○ 758 KC64.2

47.06 ○ ○ 759

21 ○ ○ 760 KC64.3

47.07 ○ ○ 761

21 ○ ○ 762 KC65.1

47.08 ○ ○ 763

21 ○ ○ 764 KC65.2

47.09 ○ ○ 765

21 ○ ○ 766 KC65.3

47.10 ○ ○ 767

21 ○ ○ 768 KC65.6A

47.11 ○ ○ 769

21 ○ ○ 770 KC65.6B

47.12 ○ ○ 771

21 ○ ○ 772 KC65.6C

47.13 ○ ○ 773

21 ○ ○ 774 KC65.6D

47.14 ○ ○ 775

21 ○ ○ 776 KC65.9

47.15 ○ ○ 777

21 ○ ○ 778 KC65.10

47.16 ○ ○ 779

21 ○ ○ 780 SPARE

47.17 ○ ○ 781

21 ○ ○ 782

47.18 ○ ○ 783

21 ○ ○ 784

47.19 ○ ○ 785

21 ○ ○ 786

47.20 ○ ○ 787

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47.21 ○ ○ 789

21 ○ ○ 790

47.22 ○ ○ 791

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47.23 ○ ○ 793

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47.24 ○ ○ 795

21 ○ ○ 796

47.25 ○ ○ 797

21 ○ ○ 798

47.26 ○ ○ 799

21 ○ ○ 714 SPARE

47.27 ○ ○ 715

21 ○ ○ 716

47.28 ○ ○ 717

21 ○ ○ 718

47.29 ○ ○ 719

21 ○ ○ 720

47.30 ○ ○ 721

21 ○ ○ 722

47.31 ○ ○ 723

21 ○ ○ 724

47.32 ○ ○ 725

21 ○ ○ 726

47.33 ○ ○ 727

21 ○ ○ 728

47.34 ○ ○ 729

21 ○ ○ 730

47.35 ○ ○ 731

21 ○ ○ 732

47.36 ○ ○ 733

21 ○ ○ 734 SPARE

47.37 ○ ○ 735

21 ○ ○ 736 M61K1

47.38 ○ ○ 737

21 ○ ○ 738 M61K3

47.39 ○ ○ 739

21 ○ ○ 740 M61K4

47.40 ○ ○ 741

21 ○ ○ 742 M61K5

47.41 ○ ○ 743

21 ○ ○ 744 M61K6

47.42 ○ ○ 745

DIGITAL I/O
TERMINAL BLOCK

TB7

CAB.6

DIGITAL OUTPUT
TERMINAL BLOCK

TB7A

CAB.1

UNI A3

Rev.

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ISSUE AFTER TEST

01/2011

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ISSUE FOR CONSTRUCTION

12/2010

GC

ISSUE FOR APPROVAL

11/2010

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Revision

Date

Name

SABIZ PLANT



TERMINAL BLOCKS TB7, TB7A
drawing's title:

Doc. 08039ED03

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Job: 1E35

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dwg. 1E35.85.1001

sheet 106

107

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6771/Teil 5 1

FILE: 1E35851001-106

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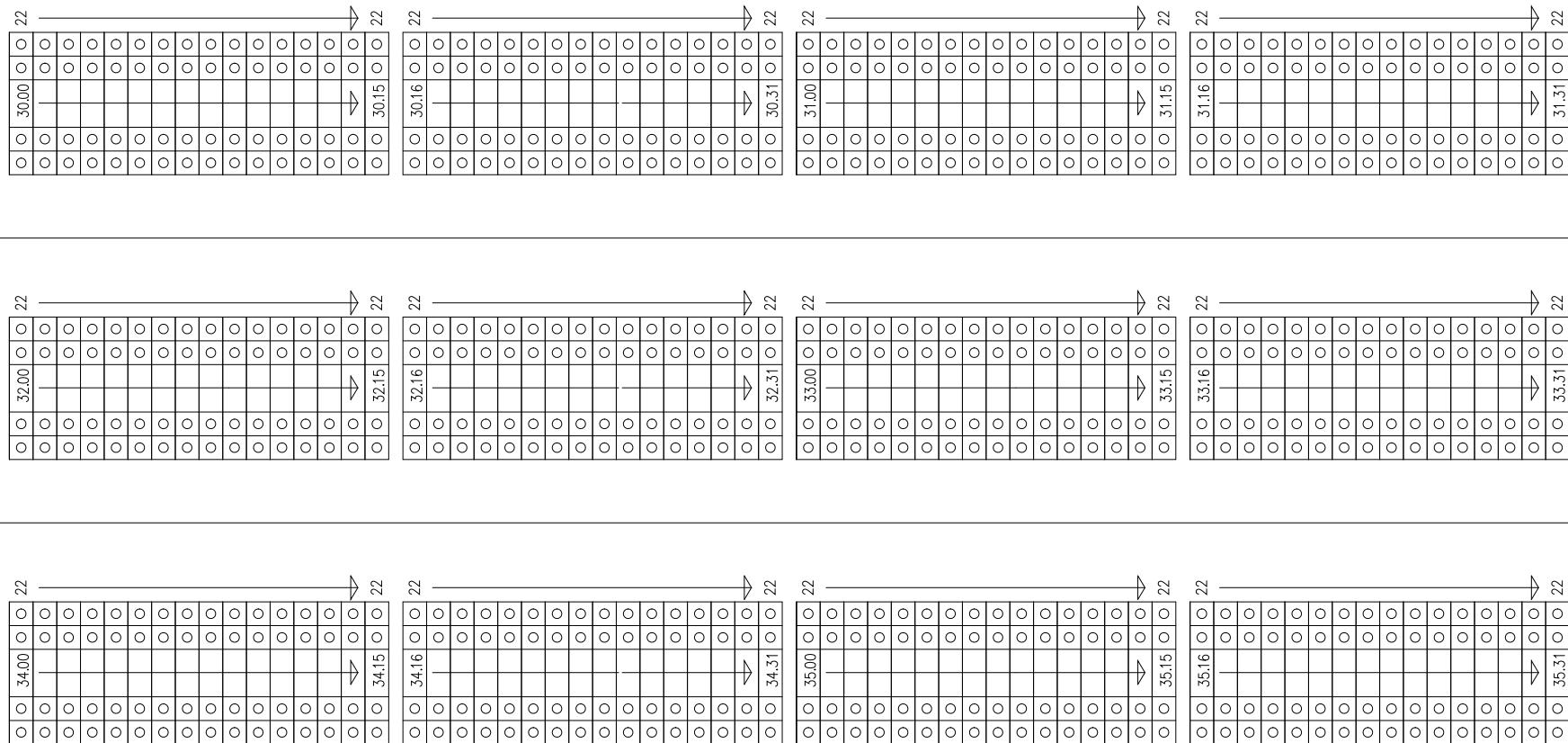
106

1 2 3 4 5
6 7 8 9 10

DIGITAL INPUT TERMINAL BLOCK

TB8

CAB.3



UNI A3					date	11/2010
					desig.	GC
0	ISSUE FOR APPROVAL	11/2010	GC	check	CM	
Rev.	Revision	Date	Name	stand.	SPAC91	

SABIZ PLANT



DIGITAL INPUT TERM.BLOCK TB
drawing's title:

Doc. 08039FD03

Job: 1E35 dwg. 1E35.85.1001

sheet 107
108 n.sh

2 lt. DIN 6771/Teil 5 1 | 2 | 3

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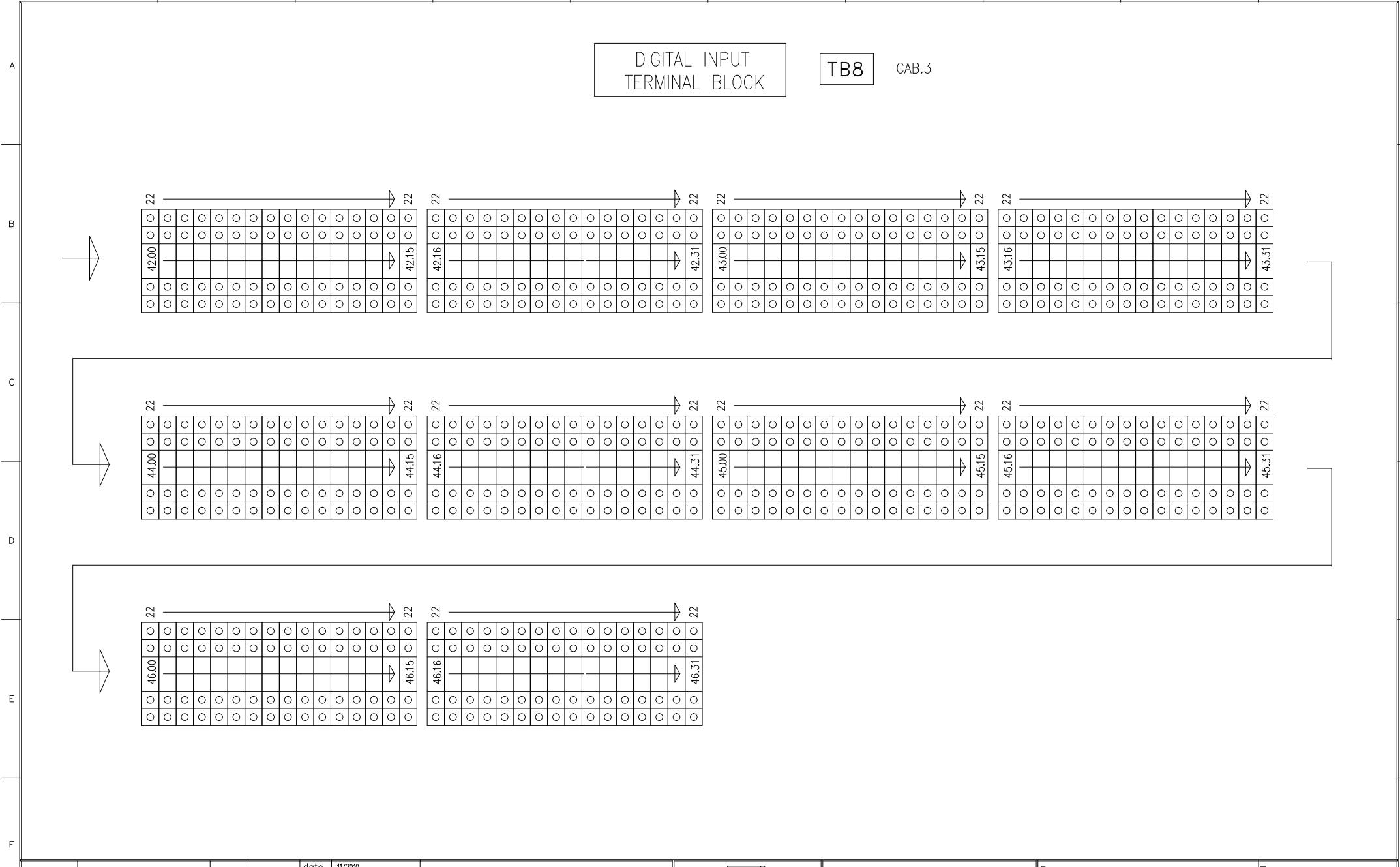
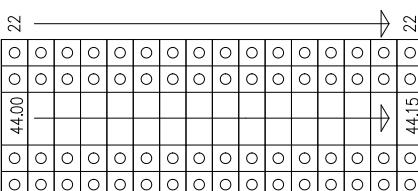
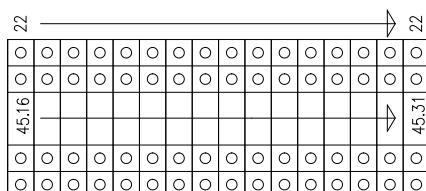
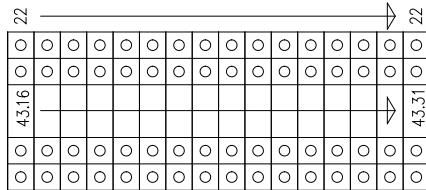
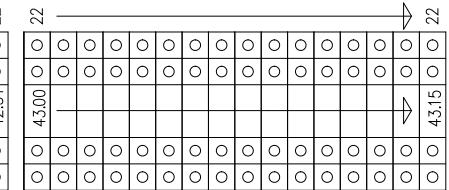
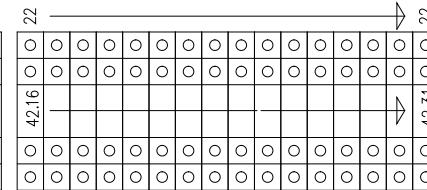
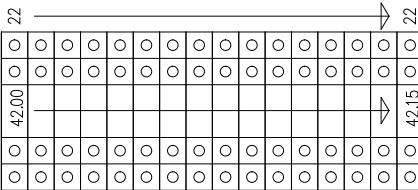
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DIGITAL INPUT
TERMINAL BLOCK

TB8

CAB.3



UNI A3									
0	ISSUE FOR APPROVAL	11/2010	desig.	GC	date	11/2010			
Rev.	Revision	Date	Name	check	stand.	CM	SPAC9.1		

SABIZ PLANT



DIGITAL INPUT TERM.BLOCK TB8

drawing's title:

Doc. 08039ED03

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sheet 109

110 n.sh

Job: 1E35 dwg. 1E35.85.1001

FILE: 1E35851001-109

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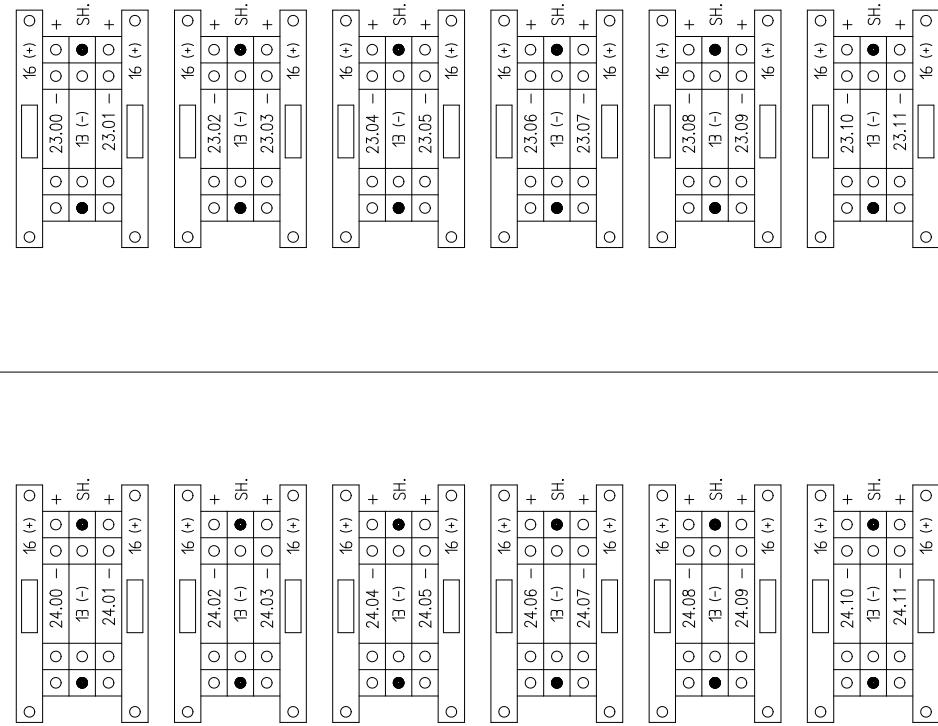
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ANALOG INPUT
TERMINAL BLOCK

TB4

CAB.2



UNI A3

0	ISSUE FOR APPROVAL	11/2010	GC	date	11/2010	desig.	GC
Rev.	Revision	Date	Name	check	CM	stand.	SPAC9.1

2 It. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE: 1E35851001-110

SABIZ PLANT



ANALOG INP. TERM.BLOCK TB4
drawing's title:

Doc. 08039ED03

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Job: 1E35 dwg. 1E35.85.1001

sheet 110
111 n.sh

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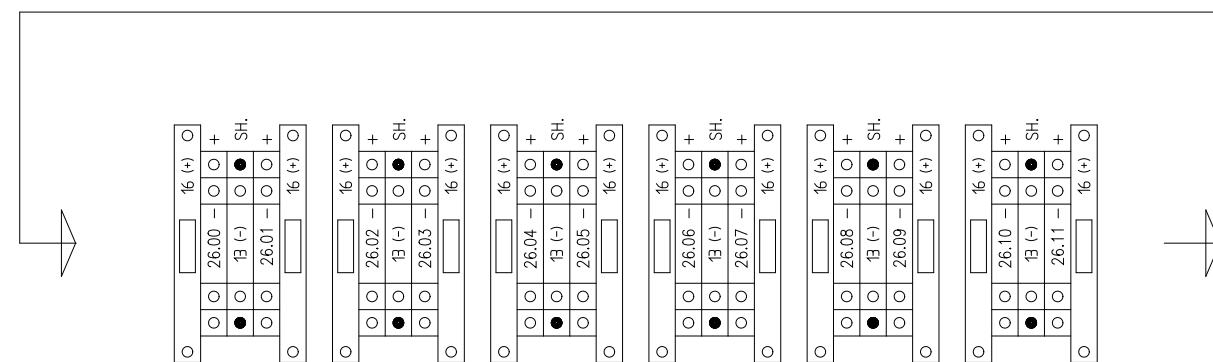
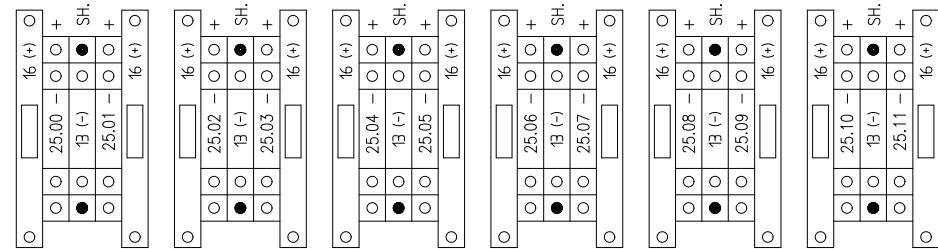
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ANALOG INPUT
TERMINAL BLOCK

TB4

CAB.2



UNI A3							
0	ISSUE FOR APPROVAL	11/2010	GC	date	11/2010	desig.	GC
Rev.	Revision	Date	Name	check	CM	stand.	SPAC9.1

SABIZ PLANT



ANALOG INP. TERM.BLOCK TB4
drawing's title:

Doc. 08039ED03

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Job: 1E35 dwg. 1E35.85.1001

sheet 111
112 n.sh

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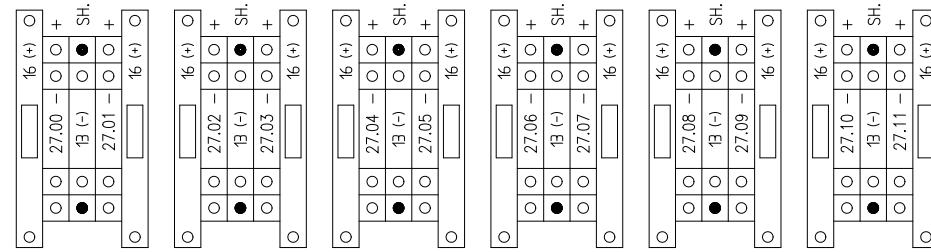
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ANALOG INPUT
TERMINAL BLOCK

TB4

CAB.2



UNI A3						date 11/2010	
						desig. GC	
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Rev.	Revision	Date	Name	stand. SPAC9.1			

SABIZ PLANT



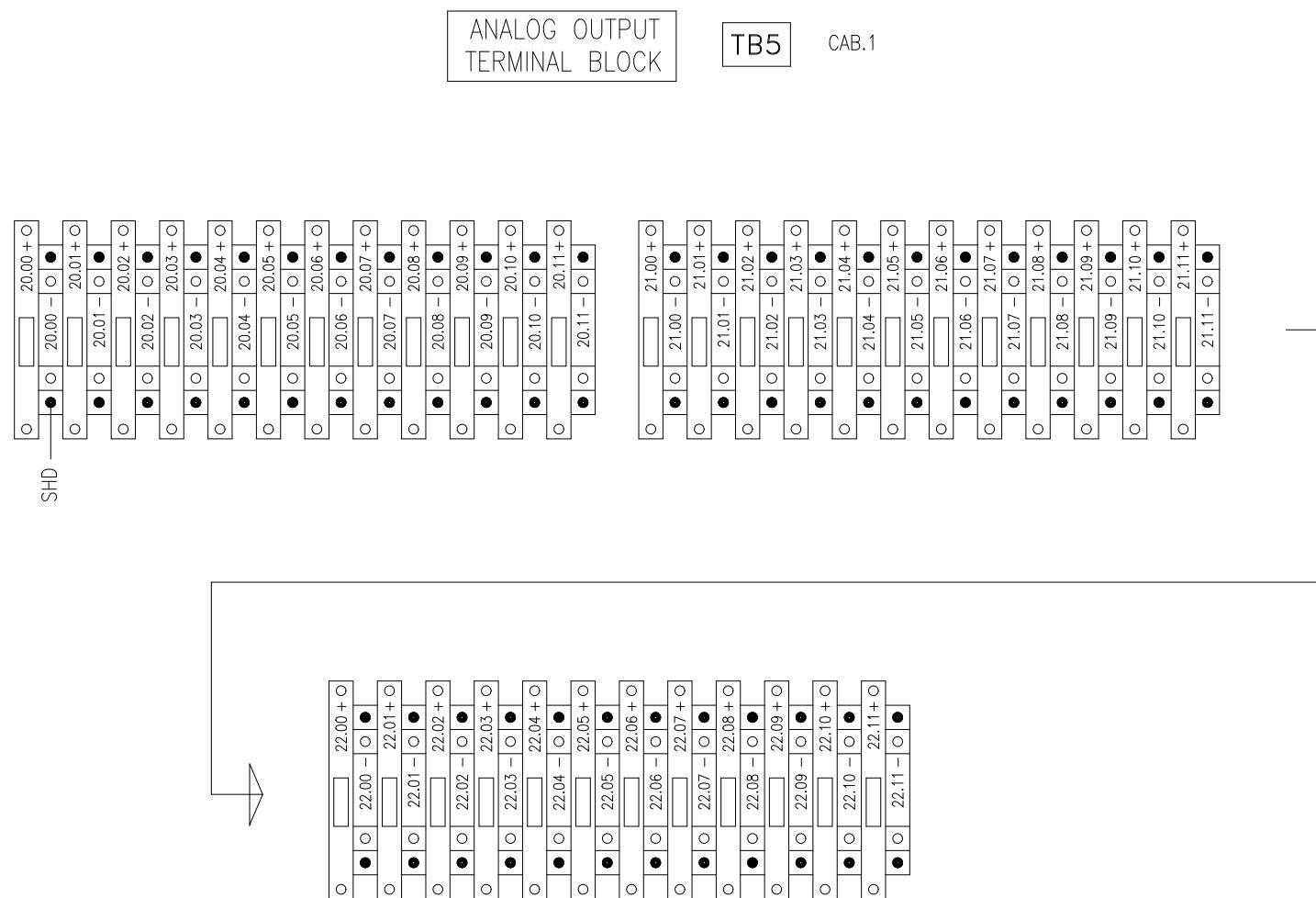
ANALOG INP. TERM.BLOCK TB4
drawing's title:

Doc. 08039ED03

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Job: 1E35 dwg. 1E35.85.1001

sheet 112
113 n.sh

2lt. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE:1E35851001-112



UNI A3				date 11/2010
				design. GC
0	ISSUE FOR APPROVAL	11/2010	G.C.	check CM
Rev.	Revision	Date	Name	stand, SPAC9
24	DIN 6771/Teil 5			

SABIZ PLANT



ANALOG OUTP. TERM.BLOCK TE

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

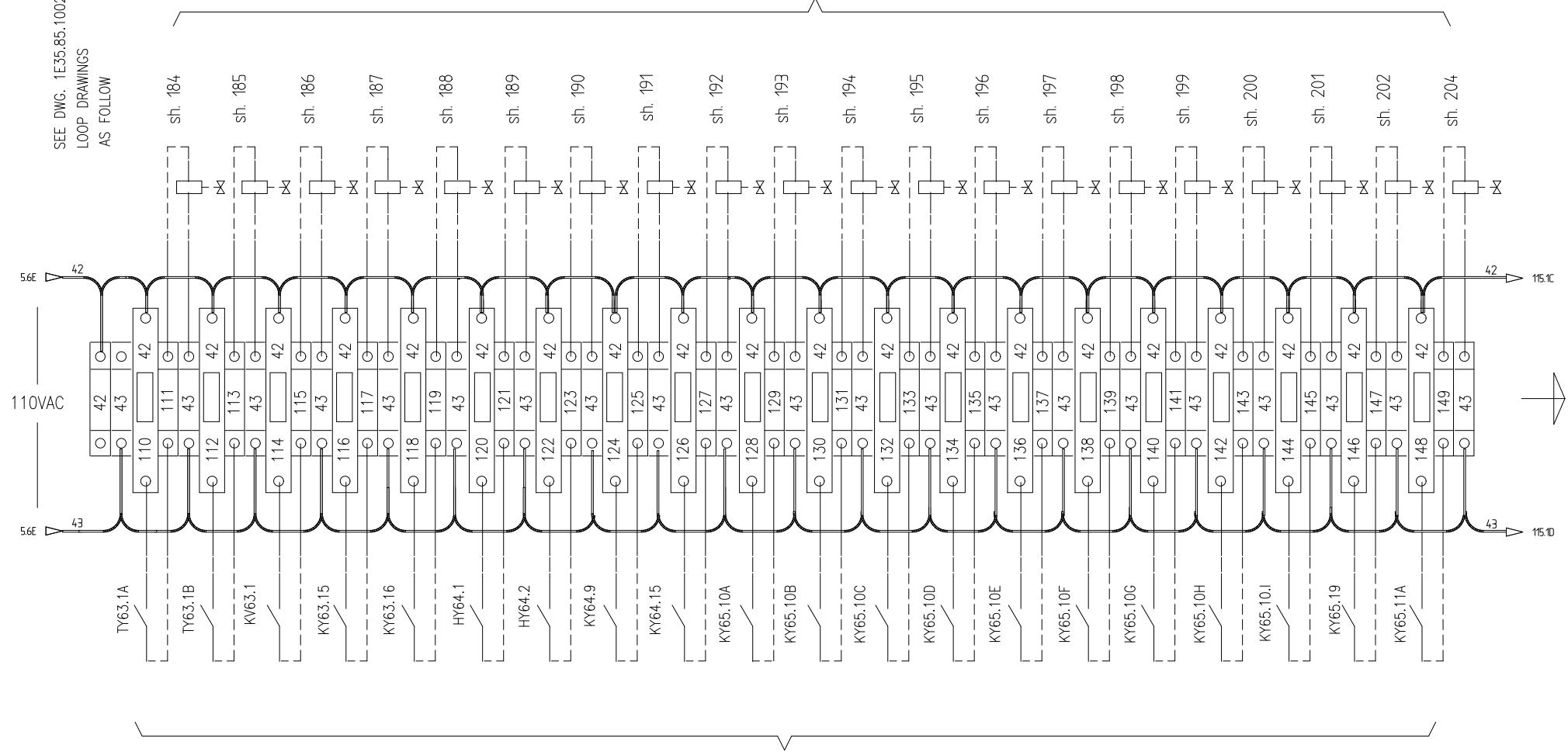
sheet 1
114

SEE DWG. 1E35.85.1002
LOOP DRAWINGS
AS FOLLOW

TERMINAL BLOCK FEEDING VALVES

TB9 CAB.6

110VAC FEEDING VALVES ON FIELD



FROM TERMINAL BLOCK TB7 – SHEET 104

UNI A3	2	ISSUE AFTER TEST	01/2011	GC	date	11/2010
	1	ISSUE FOR CONSTRUCTION	12/2010	GC	desig.	GC
	0	ISSUE FOR APPROVAL	11/2010	GC	check	CM
	Rev.	Revision	Date	Name	stand.	SPAC91
2	DIN 6771/Teil 5	1	2	3	4	5

SARI7 PLANT



110V VALVES TERM.BLOCK TB9

Doc. 08039ED03

Job: 1E35 | dwg. 1E35.85.1001

sheet 114
115 n.sh

2 lt. DIN 6771/Teil 5 1 2

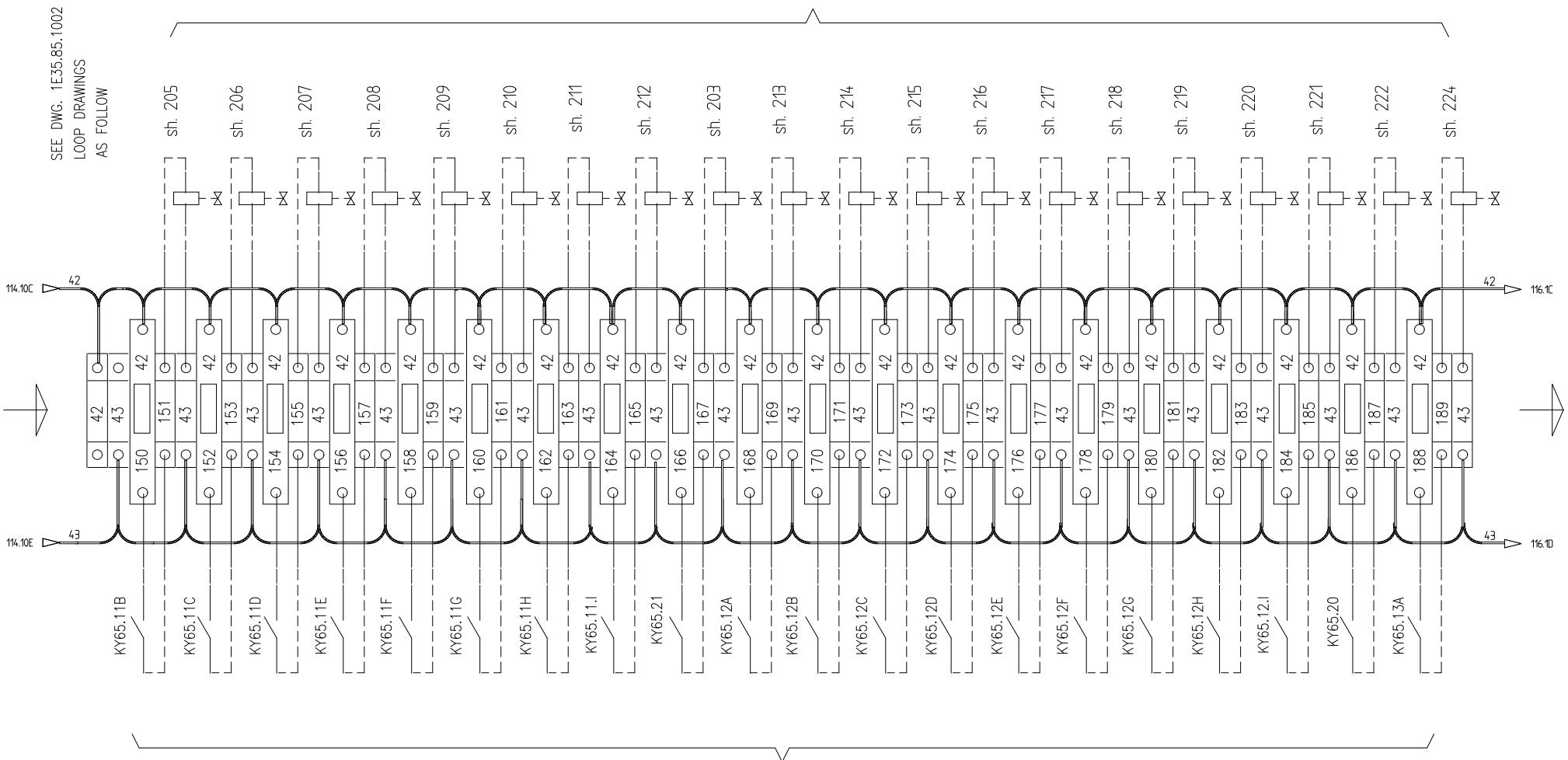
FILE: 1E35851001-114

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TERMINAL BLOCK
FEEDING VALVES

TB9 CAB.6

110VAC FEEDING VALVES ON FIELD



FROM TERMINAL BLOCK TB7 - SHEETS 104, 105

2	ISSUE AFTER TEST	01/2011	GC	date	11/2010
1	ISSUE FOR CONSTRUCTION	12/2010	GC	desig.	GC
0	ISSUE FOR APPROVAL	11/2010	GC	check	CM
Rev.	Revision	Date	Name	stand.	SPAC9.1

SABIZ PLANT



110V VALVES TERM.BLOCK TB9
drawing's title:

Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

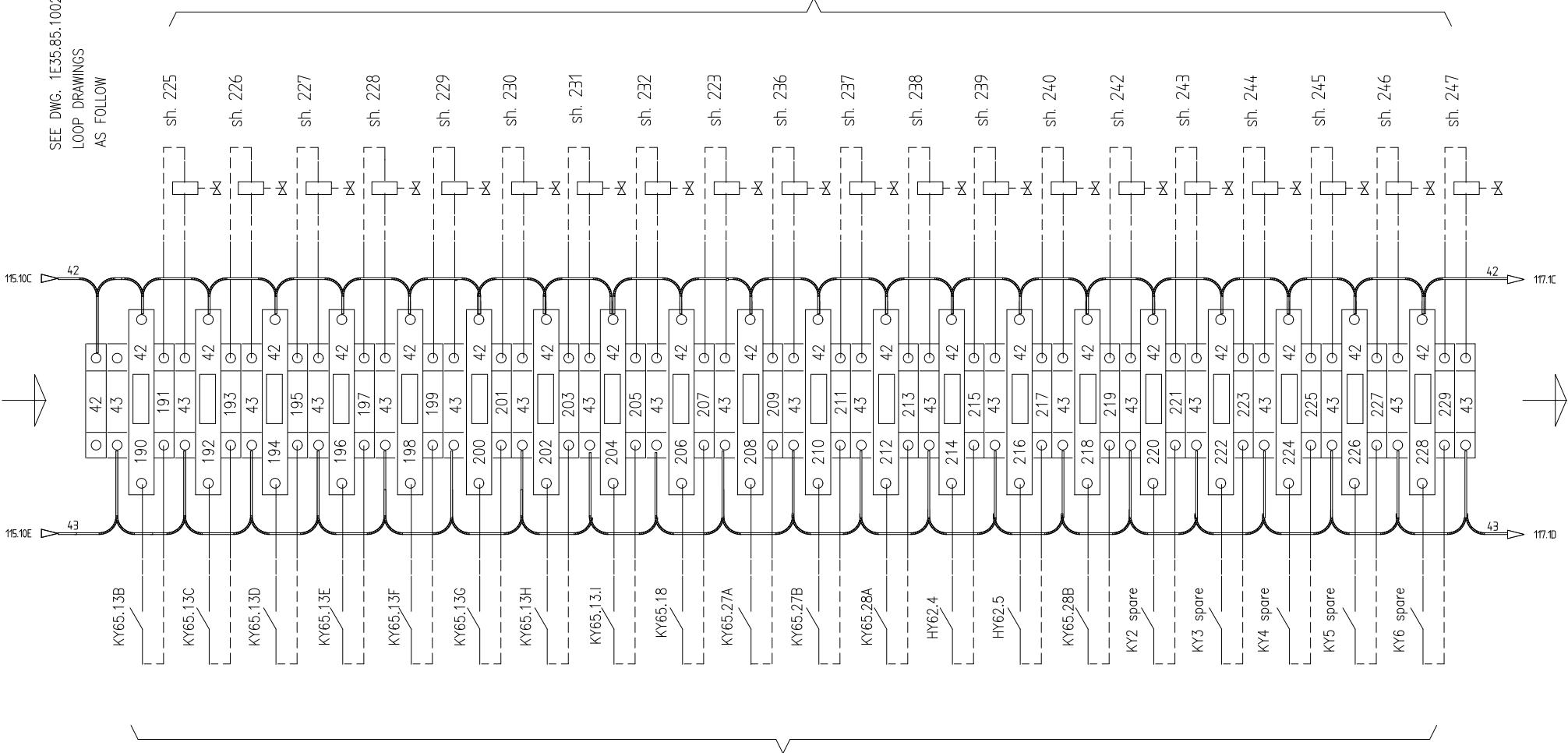
sheet 115
116 n.sh

SEE DWG. 1E35.85.1002
LOOP DRAWINGS
AS FOLLOW

TERMINAL BLOCK FEEDING VALVES

TB9 CAB.6

110VAC FEEDING VALVES ON FIELD



FROM TERMINAL BLOCK TB7 – SHEET 105

UNI A3	2	ISSUE AFTER TEST	01/2011	GC	date	11/2010
	1	ISSUE FOR CONSTRUCTION	12/2010	GC	desig.	GC
	0	ISSUE FOR APPROVAL	11/2010	GC	check	CM
	Rev.	Revision	Date	Name	stand.	SPAC9.1
2	DIN 6771/Teil 5	1	2	3	4	5

SABIZ PLANT



110V VALVES TERM.BLOCK TB9

Doc. 08039ED03

Job: 1E35 | dwg. 1E35.85.1001

sheet 116
117 n.sh

2 lt. DIN 6771/Teil 5 1 2

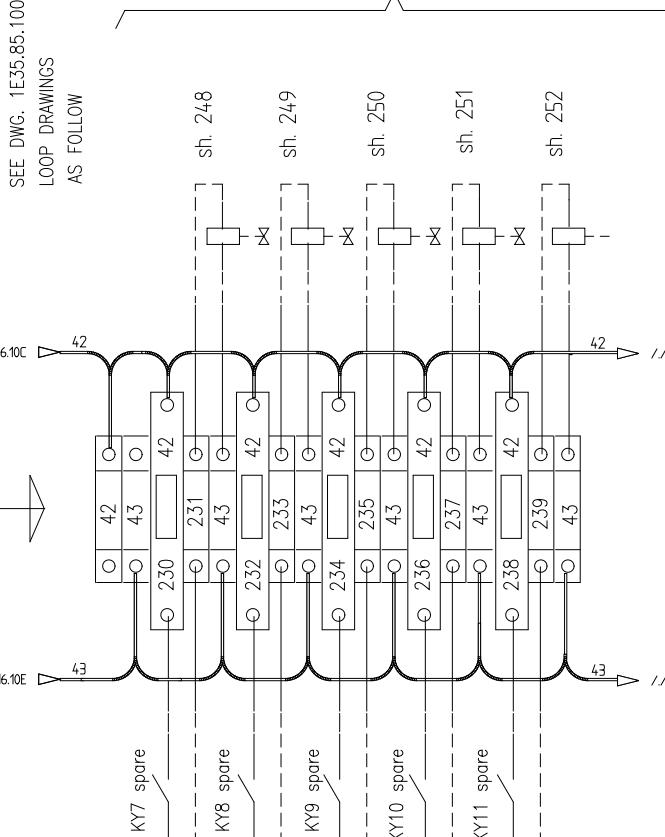
FILE: 1E35851001-116

1 2 3 4 5 6 7 8 9 10

TERMINAL BLOCK
FEEDING VALVES

TB9 CAB.6

110VAC FEEDING VALVES ON FIELD



FROM TERMINAL BLOCK TB7 - SHEET 105

2	ISSUE AFTER TEST	01/2011	GC	date	11/2010
1	ISSUE FOR CONSTRUCTION	12/2010	GC	desig.	GC
0	ISSUE FOR APPROVAL	11/2010	GC	check	CM
Rev.	Revision	Date	Name	stand.	SPAC9.1

SABIZ PLANT



110V VALVES TERM.BLOCK TB9
drawing's title:

Doc. 08039ED03

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Job: 1E35 dwg. 1E35.85.1001

sheet 117
118 n.sh

2it. DIN 6771/Teil 5 1 | 2 3 4 5 6 7 8 9 10 FILE: 1E35.85.1001-117

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

A

A

B

B

C

C

D

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E

E

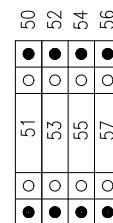
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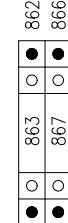
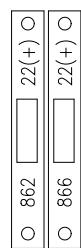
TERMINAL BLOCK
FEEDING INSTRUMENTS
& HARDWARE INTERLOCKS

TB6 (CAB.1)

FEEDING INSTRUMENTS - 110VAC
REF. SHEET 9

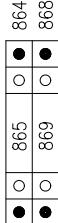


TO FIELD



HARDWARE INTERLOCKS - 24VDC

REF. SHEETS 10, 10A



UNI A3

1	ISSUE FOR CONSTRUCTION	12/2010	GC	date	11/2010
0	ISSUE FOR APPROVAL	11/2010	GC	desig.	GC
Rev.	Revision	Date	Name	check	CM

Stand: SPAC9.1

SABIZ PLANT



TERMINAL BLOCK TB6
drawing's title:

Doc. 08039ED03

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sheet 118
119 n.sh

Job: 1E35 dwg. 1E35.85.1001

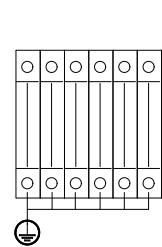
2it. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 FILE: 1E35851001-118

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

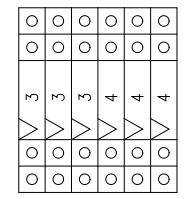
TERMINAL BLOCK (CAB.1)

TB3

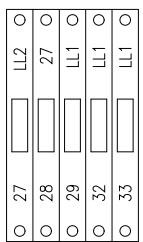
220VAC



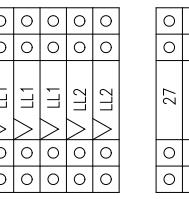
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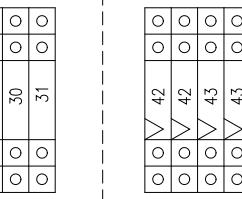
35
36



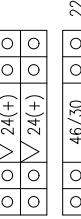
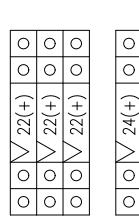
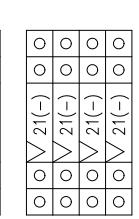
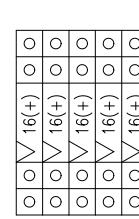
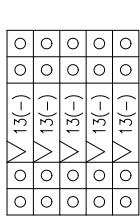
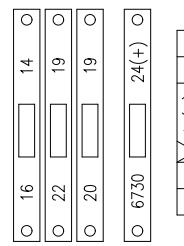
LL2
LL1
LL1
LL1
LL1
LL1
LL1
LL1



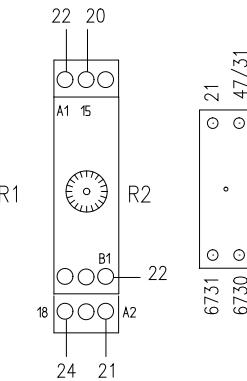
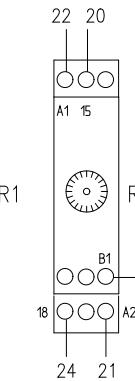
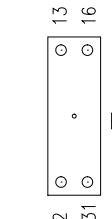
27
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110VAC



46/30
46/31



21
47/31
6731
6730

R3
HORN

UNI A3							
0	ISSUE FOR APPROVAL	11/2010	desig. GC	date 11/2010			
Rev.	Revision	Date	Name	check CM			
				stand. SPAC9.1			

SABIZ PLANT



TERMINAL BLOCK TB2 – TB3
drawing's title:

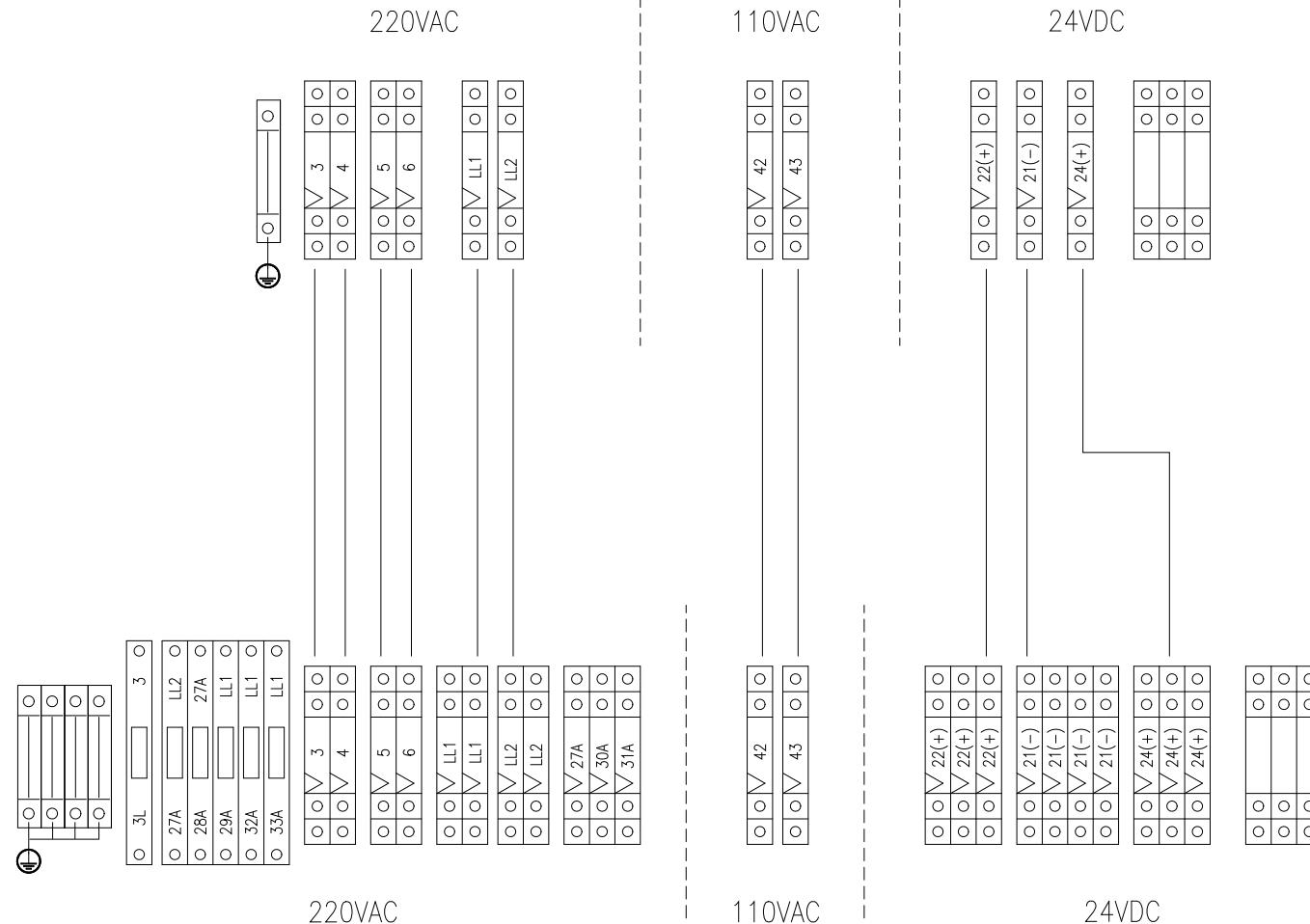
Doc. 08039ED03

Job: 1E35 dwg. 1E35.85.1001

sheet 119
120 n.sh

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TERMINAL BLOCK



UNI A3	ISSUE FOR CONSTRUCTION	12/2010	GC	date 11/2010	desig. GE	SABIZ PLANT	desmet ballistra	TERMINAL BLOCK TB10	Doc. 08039ED03	=
1	ISSUE FOR APPROVAL	11/2010	GC	check CM					Job: 1E35	+
0	Revision	Date	Name	stand. SPAC9.1					dwg. 1E35.85.1001	sheet 120 121 n.sh

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

A	REF.	DESCRIPTION	CODE	SUPPLIER	Q.ty	NOTES	B
CAB1-2-3, CAB4-5-6	CABINET 2000x800x500 mm.	CQE.2085	COSTEL by DKC	6			
CAB1-2-3, CAB4-5-6	BASE H=100 mm.	ZE.851	COSTEL by DKC	6			
CBO	TWO-POLE CIRC. BREAKER 25A	1492-SP2 B250	ROCKWELL AUTOMATION	1			
CBX1-CBX4, CB4	TWO-POLE CIRC. BREAKER 2A	1492-SP2 C020	ROCKWELL AUTOMATION	6			
CB1, CB5	TWO-POLE CIRC. BREAKER 4A	1492-SP2 C040	ROCKWELL AUTOMATION	2			
CB6	TWO-POLE CIRC. BREAKER 13A	1492-SP2 B130	ROCKWELL AUTOMATION	1			
CB3	TWO-POLE CIRC. BREAKER 16A	1492-SP2 C160	ROCKWELL AUTOMATION	1			
CB3	RESIDUAL CURRENT DEVICE, TWO POLES, 30mA RATED TRIPPING CURRENT	1492-RCD 2A40	ROCKWELL AUTOMATION	1			
LCB1, CB2	TWO-POLE CIRC. BREAKER 6A	1492-SP2 C060	ROCKWELL AUTOMATION	2			
PS1	POWER-SUPPLY 24VDC-5A 90-264VAC	WEI 870867	WEIDMULLER	1			
PS2	POWER-SUPPLY 24VDC-10A 90-264VAC	WEI 870868	WEIDMULLER	1			
TF1	TRANSFORMER 1500VA 220/110V		TENNA	1			
RL1 - RL5	RELAY 24VDC - 4 CONTACTS	55,34,9,024,0040	FINDER	5			
LS1	WHITE LAMP + TRANSFORMER 220/24V	P9MLBD + P9PTNVN	GE POWER	2			
PB1	BLUE PUSHBUTTON + 1 L + 1 R CONTACT	P9MPNLG + P9B11VN	GE POWER	1			
DL1	FLASHING DEVICE + LS 110-400V 1PH.	050ASL	ELFIN	2			
PP1	PLUG 250V 16A	M1170	ABB	1			

NOTES

1	ISSUE FOR CONSTRUCTION	12/2010	G.C.	date 11/2010 desig. GL	SABIZ PLANT		PART LIST drawing's title:	Doc. 08039ED03 Job: 1E35	= +
0	ISSUE FOR APPROVAL	11/2010	G.C.	check CM					
Rev.	Revision	Date	Name	stand. SPAC91					sheet 121 122 n.sh

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

A	REF.	DESCRIPTION	CODE	SUPPLIER	Q.ty	NOTES	A
		FUSE CARRIER TERMINAL WSI 6	WEI. 101100	WEIDMULLER	200		
		PARALLEL FOUR-WAY DOUBLE TERMINAL WDK2,5V	WEI. 102230	WEIDMULLER	100		B
		SEPARATED TWO-WAY DOUBLE TERMINAL WDK2,5	WEI. 102150	WEIDMULLER	900		
B		GROUND TERMINAL WPE 4	WEI. 101010	WEIDMULLER	10		
		END TERMINAL WEW 35	WEI. 106120	WEIDMULLER	40		
		BAR SUPPORT SH2	WEI. 049492	WEIDMULLER	8		
		BAR FOR TERMINAL BLOCKS 2mt. 35x15mm	WEI. 023650	WEIDMULLER	34		
C		RELAY 24V MODULE EGR EG2 NA	WEI. 013366	WEIDMULLER	321		
		WDK CAP WAP/DK2,5	WEI. 105910	WEIDMULLER	280		
		WSI6 CAP WAP/2,5-10	WEI. 105000	WEIDMULLER	150		
		JUMPERS - 2 WQV-2,5/2	WEI. 105366	WEIDMULLER	100		
		JUMPERS - 32 WQV-2,5/32	WEI. 157760	WEIDMULLER	20		
D	T1....T4	THERMOSTAT 0-60°C 220V	LG 34847	LG	4		
	RS1, RS2	HEATING RESISTOR 110-240V 100W	LG 034801	LG	2		
	V1....V4	FAN 220V 20W	4715MS 23TB5.A	FANDIS	4		
	L1....L6	NEON LAMP 220VAC 13W	LNK.4100.13	LYVIA LIGHTING	6		
E	LLS1....LLS6	LIMIT SWITCH 3 N.C.	114FCT03	GE	6		
	R2	TIMER AC/DC 24/230V	H3DE-M2	OMRON	1		
	HORN	HORN 24VDC/AC BIP 84	42346	ELT	1		

NOTES

1	ISSUE FOR CONSTRUCTION	12/2010	G.C.	date 11/2010 desig. GL	SABIZ PLANT		PART LIST drawing's title:	Doc. 08039ED03		=
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Rev.	Revision	Date	Name	stand SPAC91						123 n.sh

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A	REF.	DESCRIPTION	CODE	SUPPLIER	Q.ty	NOTES	A
B	FLEX I/O MODULE	ETHERNET ADAPTER MODULE	1794-AENT	ROCKWELL ALLEN-BRADLEY	5		
	FLEX I/O MODULE	12 CHANNEL ANALOG CURRENT OUTPUT	1794-0E12	ROCKWELL ALLEN-BRADLEY	3		
	FLEX I/O MODULE	12 CHANNEL ANALOG CURRENT/VOLTAGE INPUT	1794-IE12	ROCKWELL ALLEN-BRADLEY	5		
	FLEX I/O MODULE	32 PT. 24 VDC DIGITAL INPUT	1794-IB32	ROCKWELL ALLEN-BRADLEY	22		
	FLEX I/O MODULE	32 PT. 24 VDC DIGITAL OUTPUT	1794-OB32P	ROCKWELL ALLEN-BRADLEY	10		
	FLEX I/O MODULE	POWER SUPPLY 120/240VAC INPUT	1794-PS13	ROCKWELL ALLEN-BRADLEY	2		
	FLEX I/O MODULE	TERMINAL BASE UNIT (for 32 pt. modules)	1794-TB32	ROCKWELL ALLEN-BRADLEY	32		
	FLEX I/O MODULE	TERMINAL BASE UNIT (for analog I/O 12 pt.)	1794-TB3G	ROCKWELL ALLEN-BRADLEY	8		
C							C
		COMPACT LOGIX PROCESSORE L43	1768-L43	ROCKWELL ALLEN-BRADLEY	1		
		COMPACT LOGIX ETHERNET/IP BRIDGE	1768-ENBT	ROCKWELL ALLEN-BRADLEY	1		
		COMPACT LOGIX POWER SUPPLY 3A	1768-PA3	ROCKWELL ALLEN-BRADLEY	1		
D		COMPACT LOGIX RIGHT END	1769-ECR	ROCKWELL ALLEN-BRADLEY	1		D
		STRATIX 2000 ETHERNET SWITCH	1783-US08T	ROCKWELL ALLEN-BRADLEY	1		
E							E
F							F

NOTES

1	ISSUE FOR CONSTRUCTION	12/2010	G.C.	date	11/2010			Doc. 08039ED03	=
0	ISSUE FOR APPROVAL	11/2010	G.C.	desig.	GL				+
				check	CM				
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									sheet 123 — n.sh

SABIZ PLANT

PART LIST
drawing's title: