

JOB: 2F11

SABIZ PLANT

SLURRY PREPARATION WEIGHING SYSTEM

ITEM: 62A3
DESMET BALLESTRA SUPPLY

LOCAL CONTROL PANEL: KC-62A3

WEIGHT INDICATOR & TRANSMITTER UNIT: WIT-62.3

ELECTRICAL DOCUMENTATION
WIRING DIAGRAMS - LAYOUT - TERMINAL STRIP - MATERIAL LIST

Thermo SCIENTIFIC <small>Thermo Ramsey Italia S.r.l. - Strada Birolliana km 6/7 - Rodano (MI)</small>	The master version of this document is stored as a digital file in a software archive. Approval process is digitally managed, details do not show on paper copies. <i>L'originale del presente documento risiede in un database digitale. Il processo di approvazione è gestito via software e le firme non sono visibili sulle riproduzioni.</i>				
	Drawing supplier 25332-CC10-E001A	Rev. 1			
	Drawing 2F11-85-083	Sheets 1 of 21			
Plant SABIZ	Rev.	Issue description	DC	11/09/2012	Author

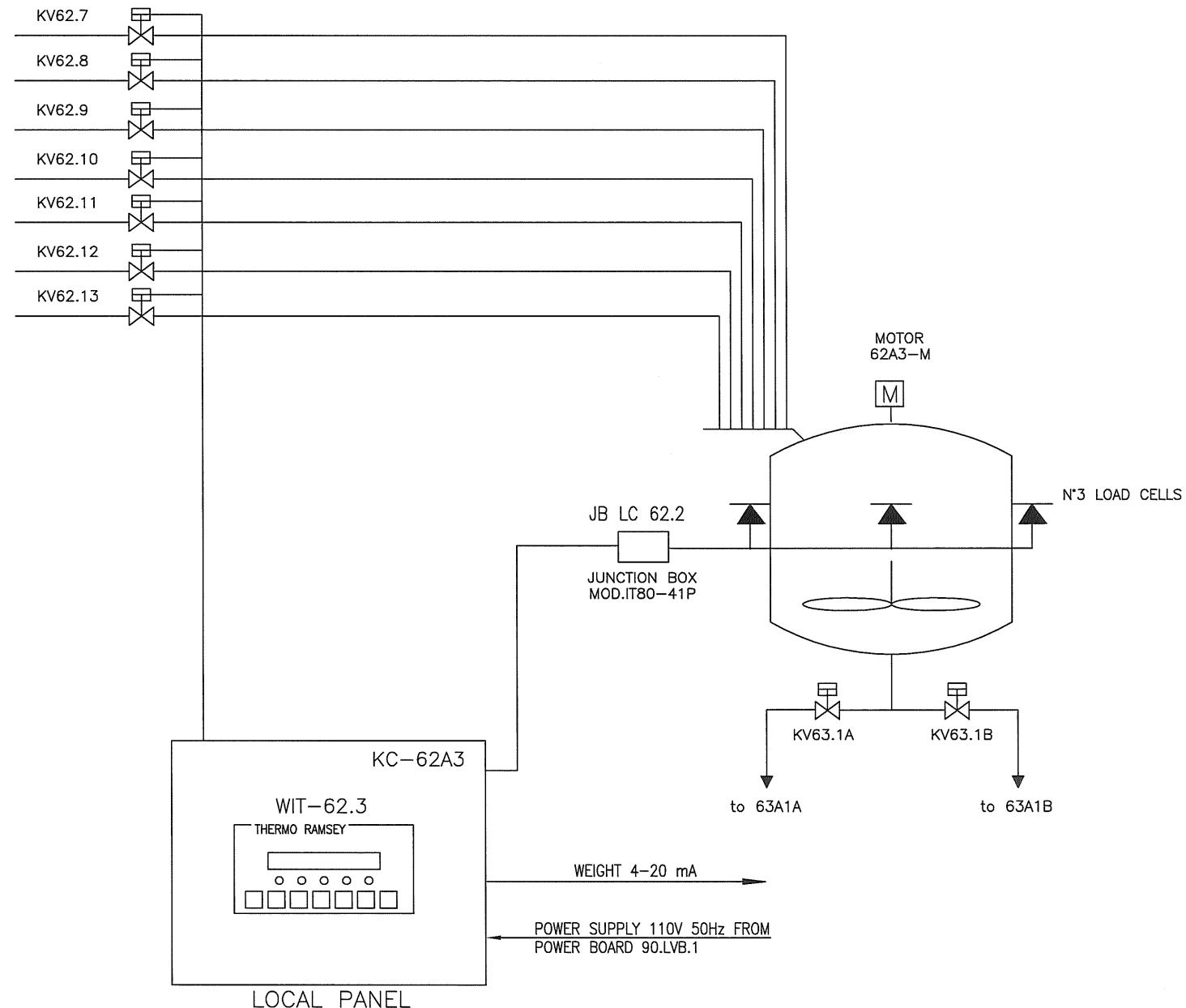
Sheet	Revisions					
	Description	0	1	2	3	
001	COVER PAGE (EXCEL Prgm)	x	x			
002	INDEX (EXCEL Prgm)	x	x			
003	INSTRUMENT LIST	x	x			
004	BLOCK DIAGRAM	x	x			
005	KC-62A3 - WIRING DIAGRAM	x	x			
006	KC-62A3 - WIRING DIAGRAM	x	x			
007	KC-62A3 - WIRING DIAGRAM	x	x			
008	KC-62A3 - WIRING DIAGRAM	x	x			
009	KC-62A3 - WIRING DIAGRAM	x	x			
010	KC-62A3 - WIRING DIAGRAM	x	x			
011	KC-62A3 - WIRING DIAGRAM	x	x			
012	KC-62A3 - WIRING DIAGRAM	x	x			
013	KC-62A3 - FIELD CONNECTION	x	x			
014	KC-62A3 - TERMINAL BLOCK	x	x			
015	KC-62A3 - TERMINAL BLOCK	x	x			
016	KC-62A3 - TERMINAL BLOCK	x	x			
017	KC-62A3 - TERMINAL BLOCK	x	x			
018	KC-62A3 - TOPOGRAPHIC VIEW	x	x			
019	KC-62A3 - LABELS	x	x			
020	KC-62A3 - EQUIPMENT LIST	x	x			
021	KC-62A3 - EQUIPMENT LIST	x	x			
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Sheet	Revisions					
	Description	0	1	2	3	
046						
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048						
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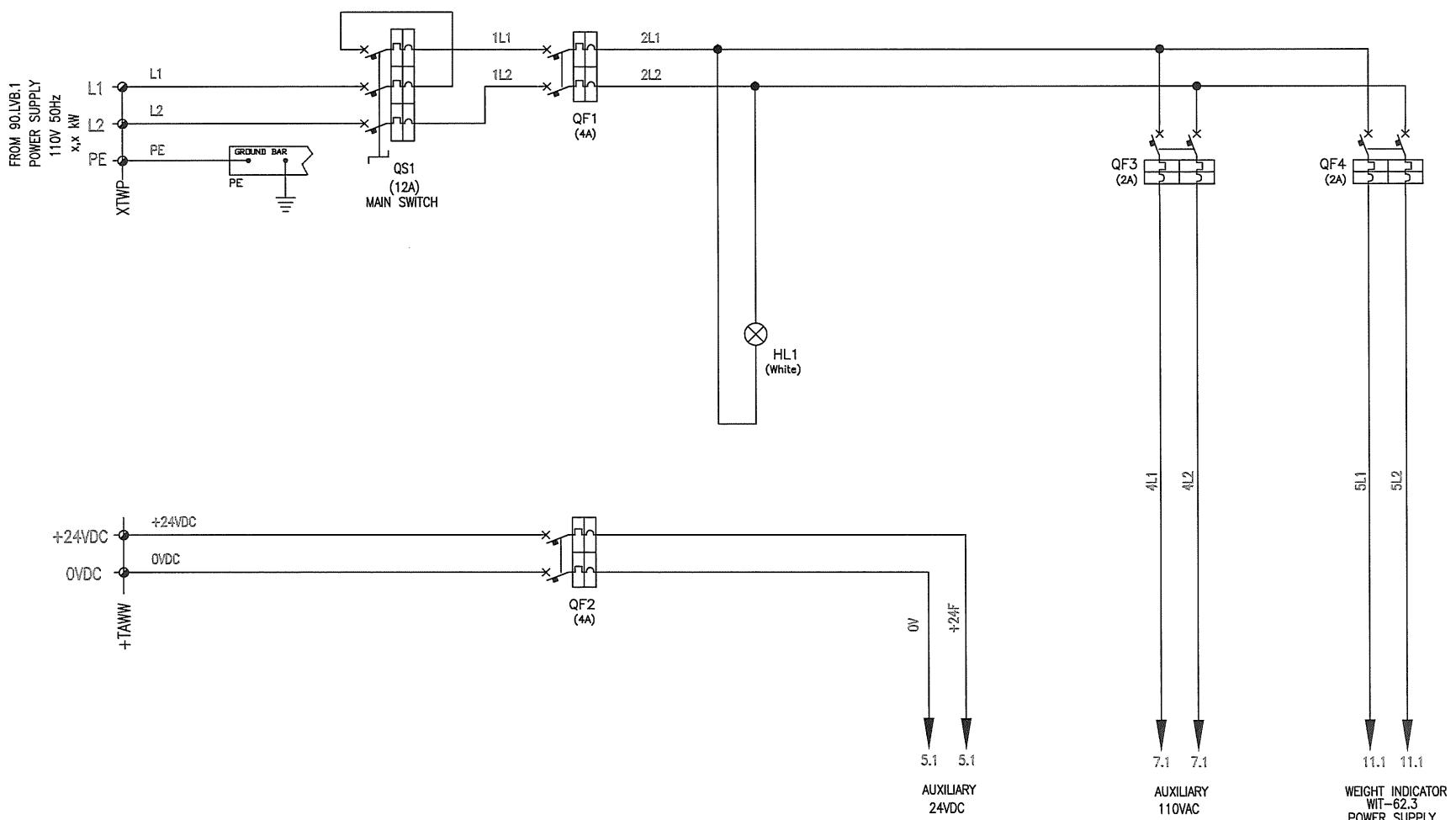
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	Drawing supplier	Rev.	Plant			
	25332-CC10-E002A	1	SABIZ			
	Drawing	Sheet 2	Drawing's title	1	UPDATE AFTER TEST	DC 11/09/2012
	2F11-85-083	Next 3	INDEX	0	ISSUE FOR CONSTRUCTION	DM 15/07/2012
			Revision	Issue description	Author	Date



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UNI A3				SABIZ PLANT		BLOCK DIAGRAM		THR: 25332-CC10-E003A		= KC-62A3	
1	UPDATE AFTER TEST	D.C.	11-09-12								+
0	ISSUE FOR CONSTRUCTION	D.M.	15-07-12								sheet 03
rev.	Issue Description	Author	Date					JOB : 2F11	dwg. 2F11-85-083		04 n.sh



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UNI A3			
1	UPDATE AFTER TEST	D.C.	11-09-12
0	ISSUE FOR CONSTRUCTION	D.M.	15-07-12
rev.	Issue Description	Author	Date

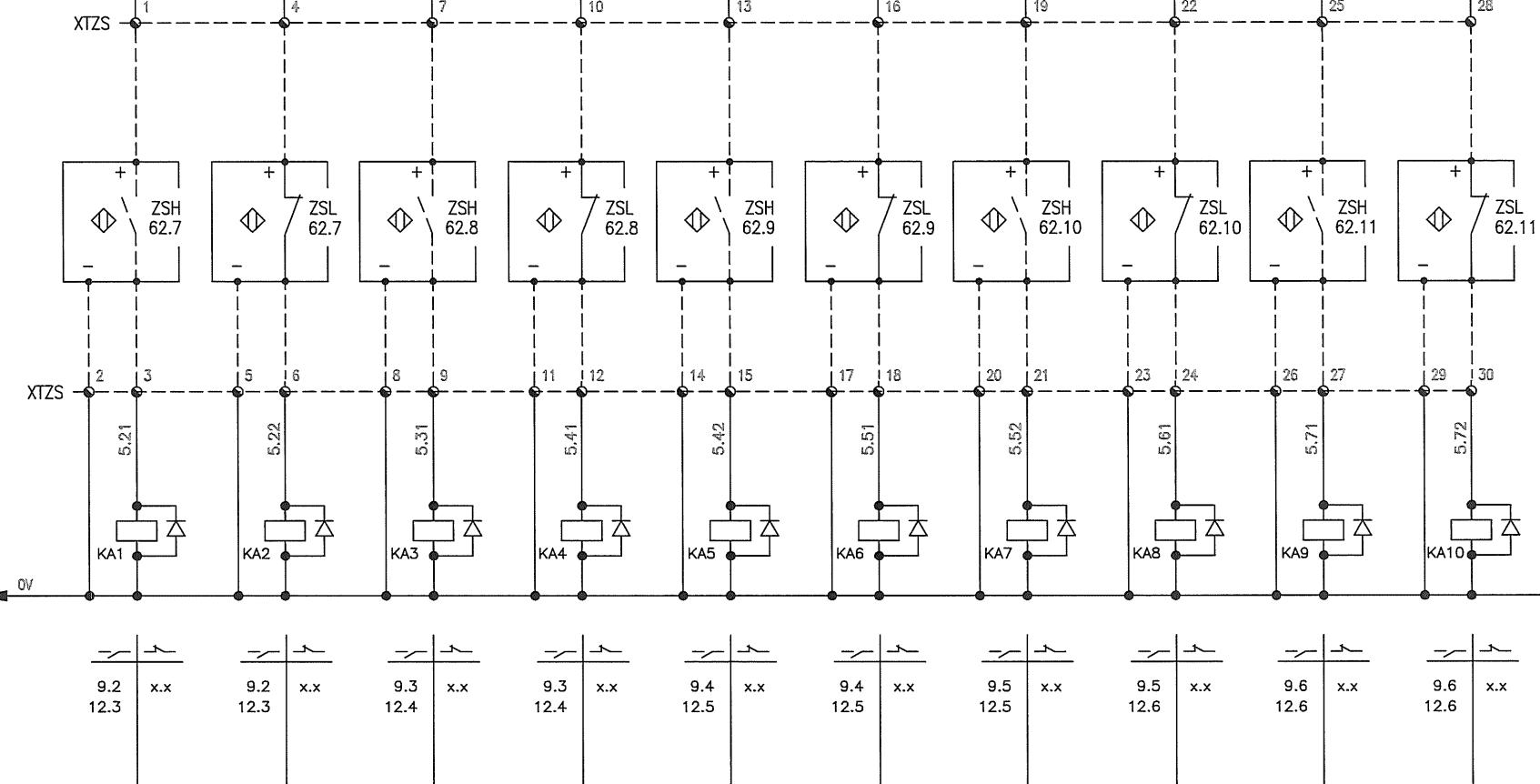
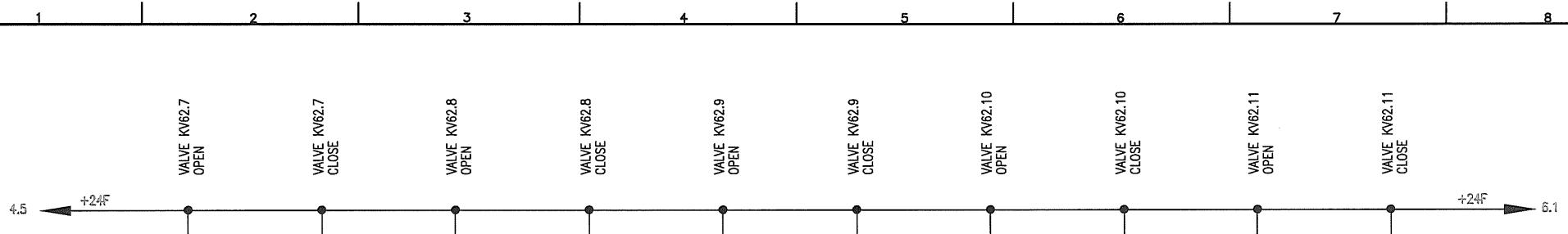
SABIZ PLANT



WIRING DIAGRAM
drawing's title:

THR: 25332-CC10-E004A = KC-62A3

JOB : 2F11 dwg. 2F11-85-083 sheet 04



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UNI A3			
1	UPDATE AFTER TEST	D.C.	11-09-12
0	ISSUE FOR CONSTRUCTION	D.M.	15-07-12
rev.	Issue Description	Author	Date

SABIZ PLANT



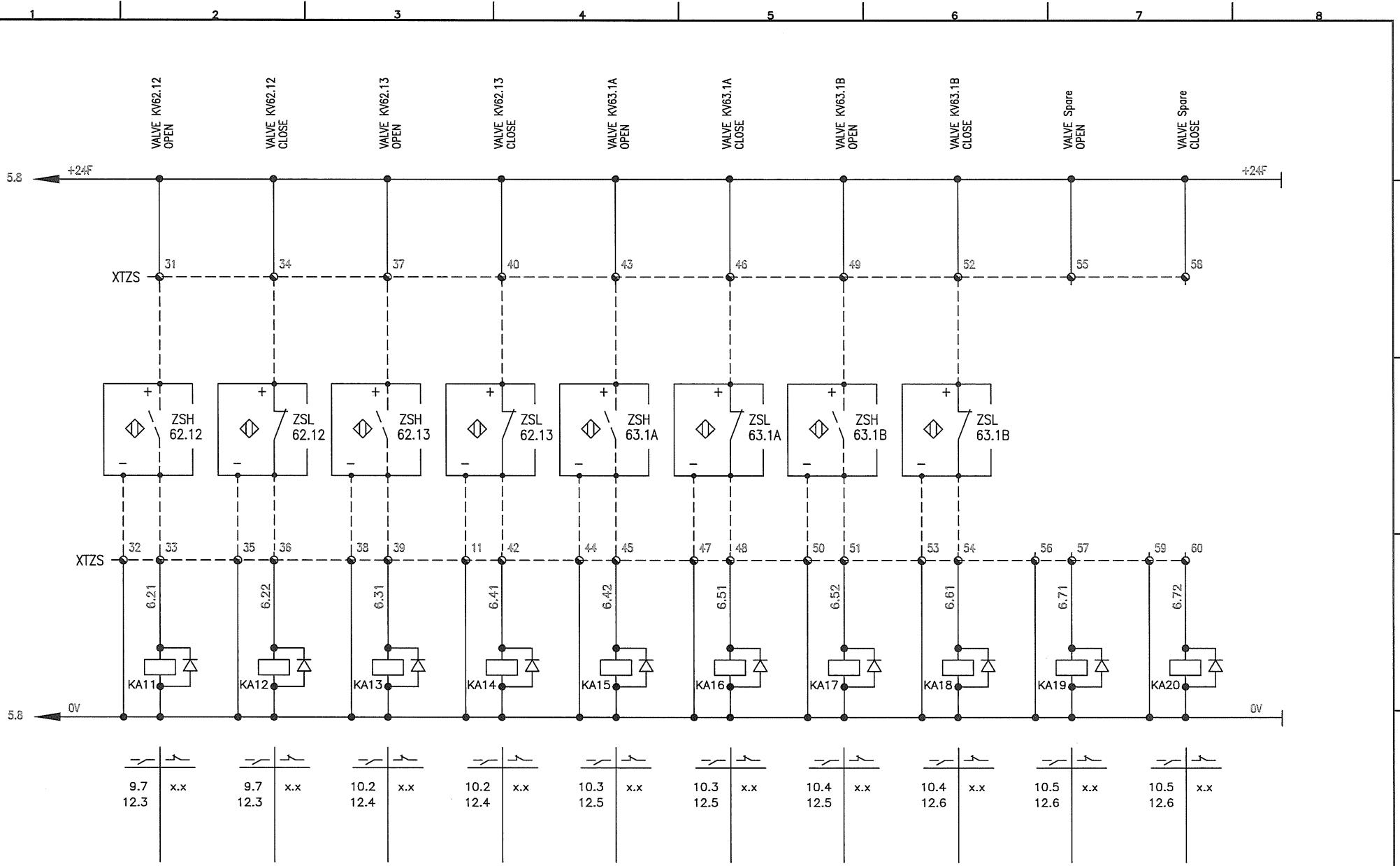
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drawing's title:

THR: 25332-CC10-E005A

= KC-62A3
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JOB : 2F11 dwg. 2F11-85-083

sheet 05
06 n.sh



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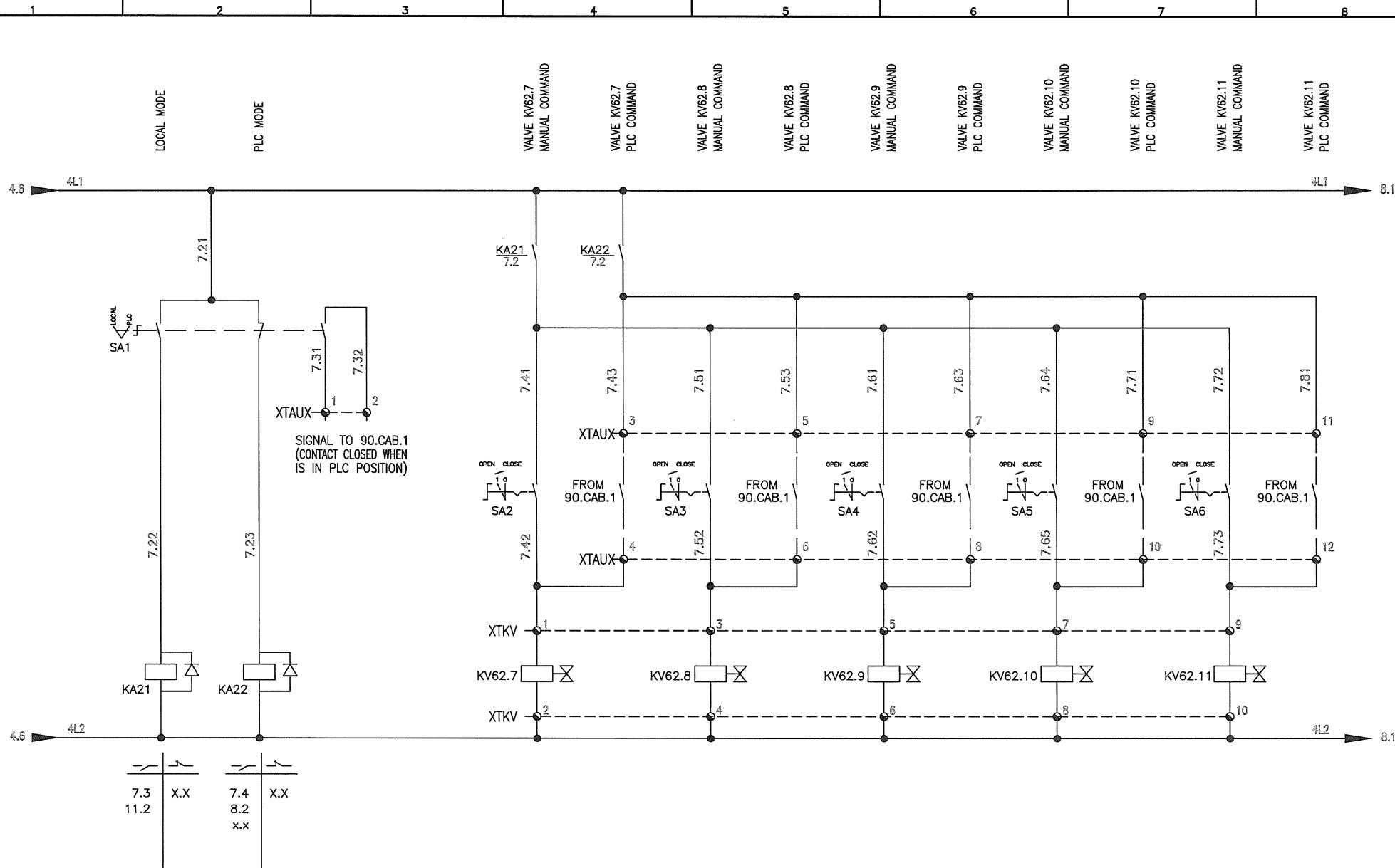
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1	UPDATE AFTER TEST	D.C.	11-09-12
0	ISSUE FOR CONSTRUCTION	D.M.	15-07-12
rev.	Issue Description	Author	Date

SABIZ PLANT



WIRING DIAGRAM
drawing's title:

THR: 25332-CC10-E006A = KC-62A3
+ .
JOB : 2F11 dwg. 2F11-85-083 sheet 06
07 n.sh



NOTE: SOLENOID VALVES (KY) ENERGIZED – VALVES KY OPEN

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1	UPDATE AFTER TEST	D.C.	11-09-12
0	ISSUE FOR CONSTRUCTION	D.M.	15-07-12

SABIZ PLANT

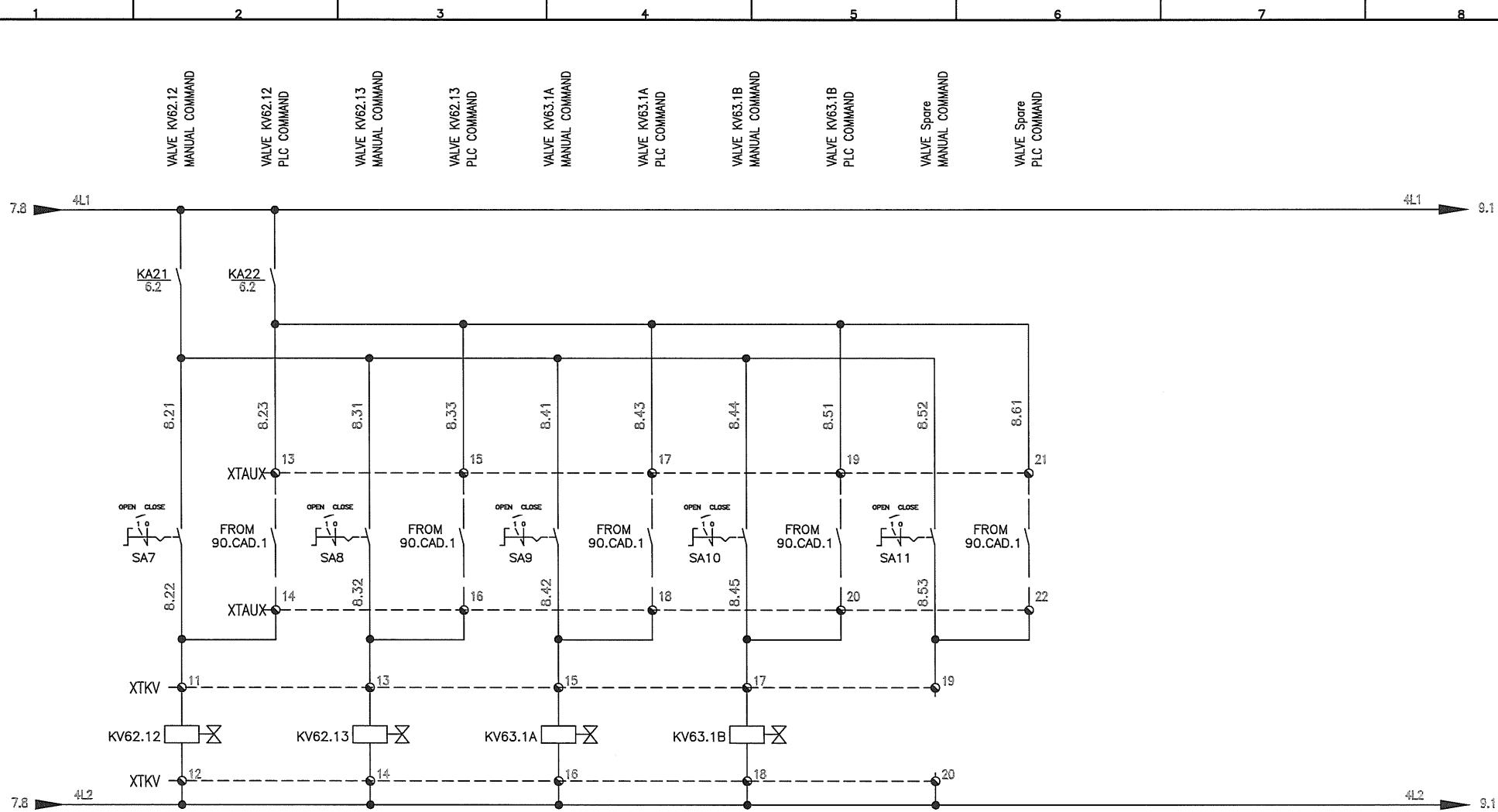


WIRING DIAGRAM
drawing's title:

THR: 25332-CC10-E007A = KC-62A3

JOB : 2F11 dwg. 2F11-85-083 sheet 07

n.sh 08



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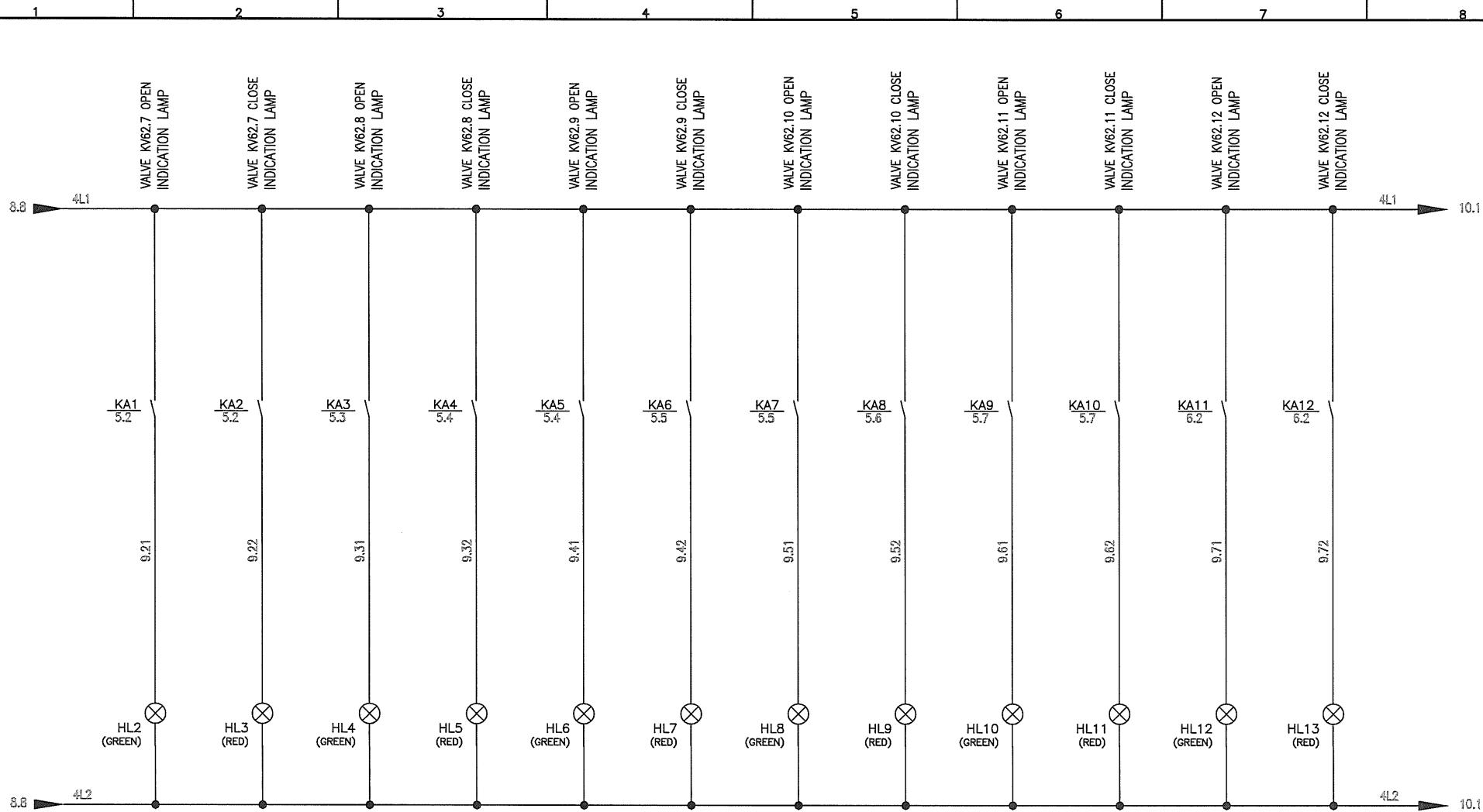
UNI A3			
1	UPDATE AFTER TEST	D.C.	11-09-12
0	ISSUE FOR CONSTRUCTION	D.M.	15-07-12
rev.	Issue Description	Author	Date

SABIZ PLANT



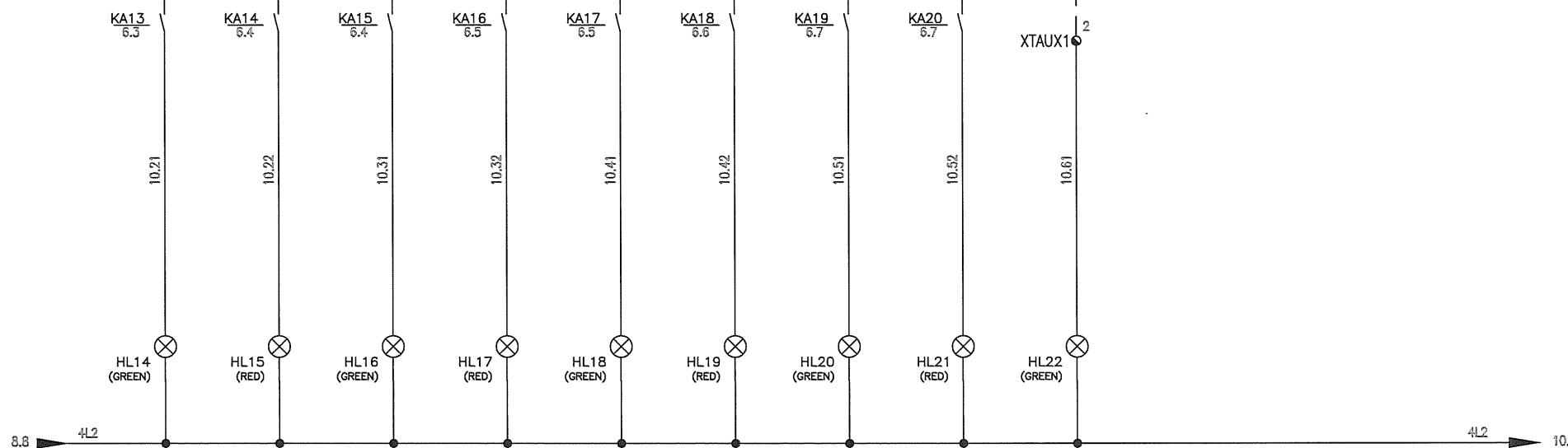
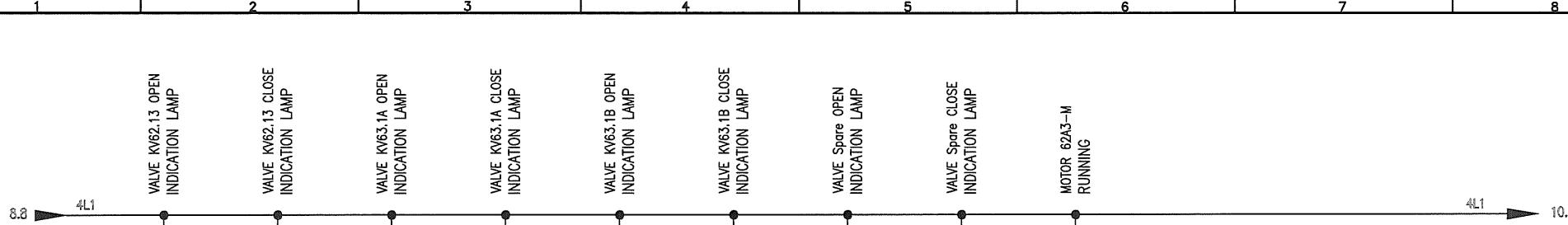
WIRING DIAGRAM
drawing's title:

THR: 25332-CC10-E008A	= KC-62A3
+	.
JOB : 2F11	dwg. 2F11-85-083
sheet 08	09 n.sh



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UNI A3				SABIZ PLANT		WIRING DIAGRAM		THR: 25332-CC10-E009A		= KC-62A3
1	UPDATE AFTER TEST	D.C.	11-09-12							+
0	ISSUE FOR CONSTRUCTION	D.M.	15-07-12					JOB : 2F11	dwg. 2F11-85-083	sheet 09
rev.	Issue Description	Author	Date							10 n.sh



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1	UPDATE AFTER TEST	D.C.	11-09-12
0	ISSUE FOR CONSTRUCTION	D.M.	15-07-12
rev.	Issue Description	Author	Date

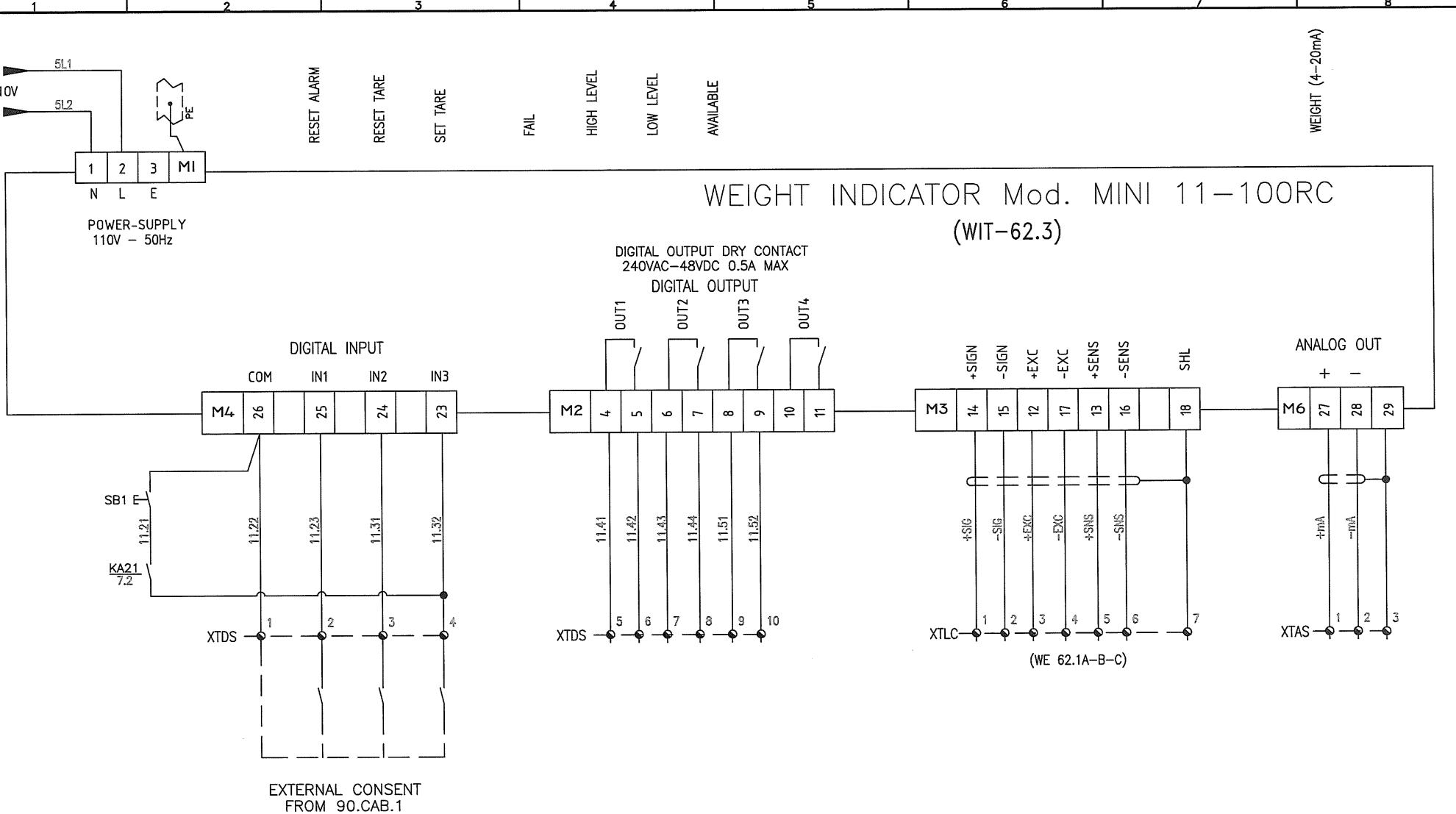
SABIZ PLANT



WIRING DIAGRAM
drawing's title:

THR: 25332-CC10-E010A = KC-62A3
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JOB : 2F11	dwg. 2F11-85-083	sheet 10
		11 n.sh



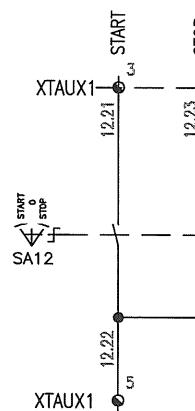
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UNI A3				SABIZ PLANT		WIRING DIAGRAM		THR: 25332-CC10-E011A		= KC-62A3	
1	UPDATE AFTER TEST	D.C.	11-09-12								+
0	ISSUE FOR CONSTRUCTION	D.M.	15-07-12								sheet 11
rev.	Issue Description	Author	Date					JOB : 2F11	dwg. 2F11-85-083		12 n.sh

1 2 3 4 5 6 7 8

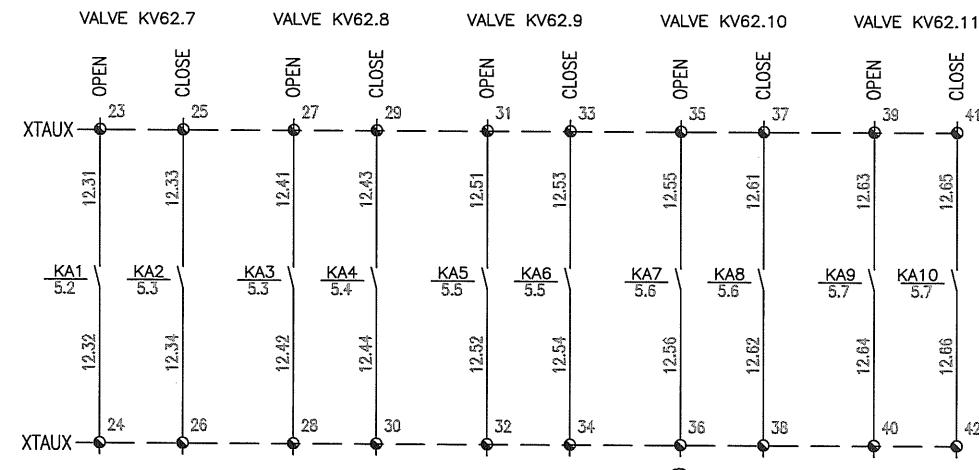
A

A

TO POWER BOARD FOR
MANUAL COMMAND 62A3-M

B

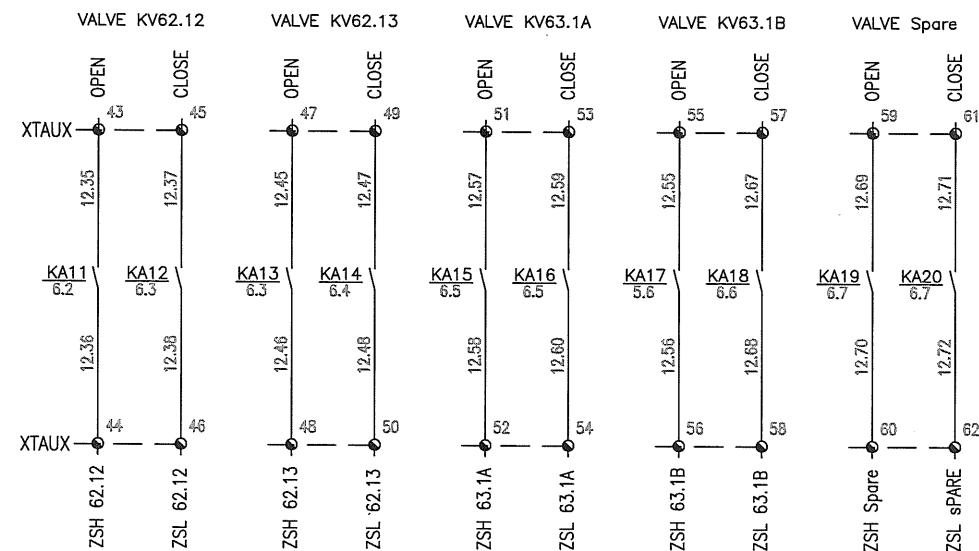
B



SIGNAL TO 90.CAB.1

C

C



SIGNAL TO 90.CAB.1

D

D

E

E

F

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1	UPDATE AFTER TEST	D.C.	11-09-12
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rev.	Issue Description	Author	Date
It. DIN 6771/Tell 5 1	2	3	4

SABIZ PLANT

WIRING DIAGRAM
drawing's title:

THR: 25332-CC10-E012A

KC-62A3

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JOB : 2F11

sheet 12

dwg. 2F11-85-083

13 n.sh

13

1 2 3 4 5 6 7 8

A

A

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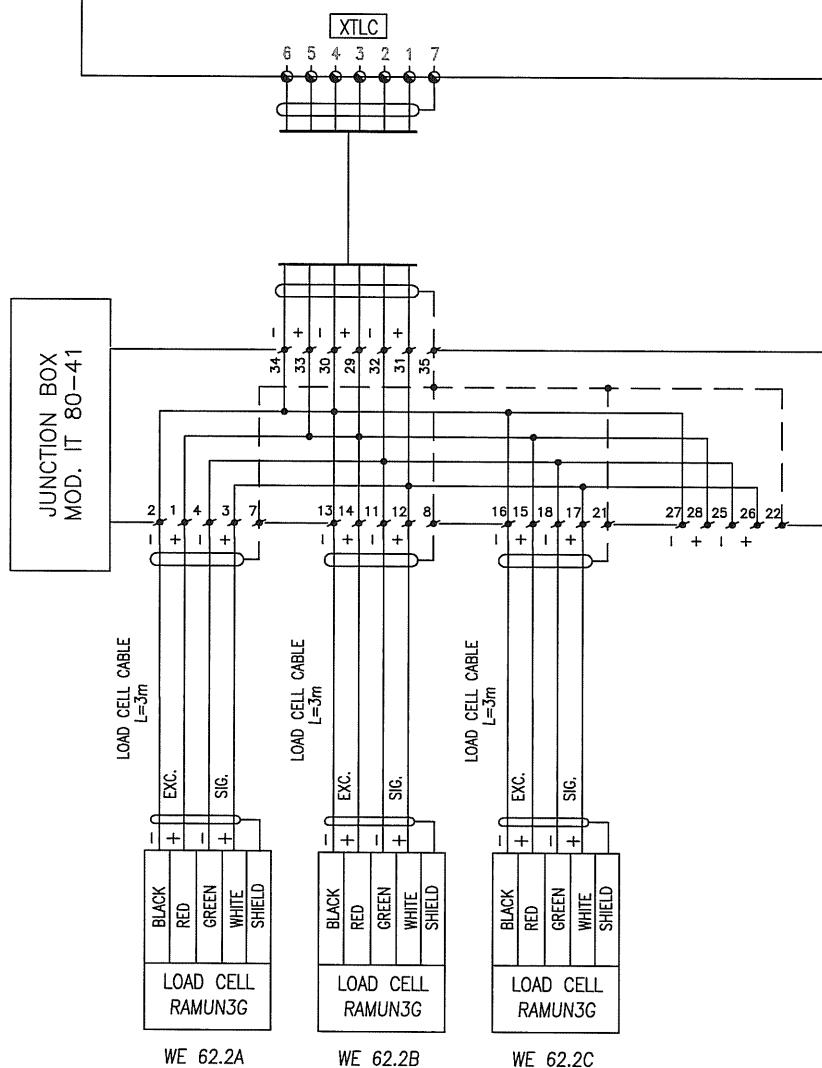
E

E

F

F

LOCAL CONTROL PANEL KC-62A3



NOTES

- DO NOT ALTER THE LENGTH OF LOAD CELLS CABLE
- CONNECT SHIELD ONLY WHERE INDICATED
- DO NOT WIRES SIGNAL WITH AS POWER LINES
- USE CABLE 2x1.5mm² + shield FOR SENSING CONNECTION NECESSARY FOR DISTANCES HIGHER THAN 60m BETWEEN LOAD CELLS AND WEIGHT TRANSMITTER
- CONNECT TERMINALS 16-17 AND 13-12 ON MOTHER BOARD WHEN IS NOT USED SENSING

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UNI A3	1	UPDATE AFTER TEST	D.C.	11-09-12
	0	ISSUE FOR CONSTRUCTION	D.M.	15-07-12
rev.	Issue Description	Author	Date	

It. DIN 6771/Teil 5 1

2 3 4 5 6 7 8

SABIZ PLANT



FIELD CONNECTION
drawing's title:

THR: 25332-CC10-E013A

KC-62A3
+.

JOB : 2F11 dwg. 2F11-85-083

sheet 13
14 n.sh

Cavo Nr. Cable Nr.	Tipo Type	Identificazione morsettiera / designation group strip													
		DESTINAZIONE Destination mark		Terminale Terminal		ORIGINE Destination mark		Identif. collegamento Designation group		Morsetto Terminal N.r.		Morsettiera Fish plate c.			
		O	L1	O	L1	O	L2	O	L2	O	PE	O	PE	O	PE
		XTWP		XTZS											
POWER SUPPLY 110V 50Hz						0	1		+24F						
FROM ZSH 62.7						0	2		0V						
FROM ZSL 62.7						0	3		5.21						
FROM ZSH 62.8						0	4		+24F						
FROM ZSL 62.8						0	5		0V						
FROM ZSH 62.9						0	6		5.22						
FROM ZSL 62.9						0	7		+24F						
FROM ZSH 62.10						0	8		0V						
FROM ZSL 62.10						0	9		5.31						
FROM ZSH 62.11						0	10		+24F						
FROM ZSL 62.11						0	11		0V						
FROM ZSH 62.12						0	12		5.41						
FROM ZSL 62.12						0	13		+24F						
FROM ZSH 62.13						0	14		0V						
FROM ZSH 62.14						0	15		5.42						
FROM ZSL 62.14						0	16		+24F						
FROM ZSH 62.15						0	17		0V						
FROM ZSL 62.15						0	18		5.51						
FROM ZSH 62.16						0	19		+24F						
FROM ZSL 62.16						0	20		0V						
FROM ZSH 62.17						0	21		5.52						
FROM ZSL 62.17						0	22		+24F						
FROM ZSH 62.18						0	23		0V						
FROM ZSL 62.18						0	24		5.61						
FROM ZSH 62.19						0	25		+24F						
FROM ZSL 62.19						0	26		0V						
FROM ZSH 62.20						0	27		5.71						
FROM ZSL 62.20						0	28		+24F						
FROM ZSH 62.21						0	29		0V						
FROM ZSL 62.21						0	30		5.72						
FROM ZSH 62.22						0	31		+24F						
FROM ZSL 62.22						0	32		0V						
FROM ZSH 62.23						0	33		6.21						
FROM ZSL 62.23						0	34		+24F						
FROM ZSH 62.24						0	35		0V						
FROM ZSL 62.24						0	36		6.22						
FROM ZSH 62.25						0	37		+24F						
FROM ZSL 62.25						0	38		0V						
FROM ZSH 63.1A						0	39		6.31						
FROM ZSL 63.1A						0	40		+24F						
FROM ZSH 63.1B						0	41		0V						
FROM ZSL 63.1B						0	42		6.41						
FROM ZSH 63.1C						0	43		+24F						
FROM ZSL 63.1C						0	44		0V						
FROM ZSH 63.1D						0	45		6.42						

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1	UPDATE AFTER TEST	D.C.	11-09-12	SABIZ PLANT		TERMINAL BLOCK drawing's title:	THR: 25332-CC10-E014A	KC-62A3
0	ISSUE FOR CONSTRUCTION	D.M.	15-07-12				+	.
rev.	Issue Description	Author	Date				JOB : 2F11	dwg. 2F11-85-083
It. DIN 6771/Teil 5 1				15 n.sh				

Cavo Nr. Cable Nr.	Tipo Type	Identificazione morsettiera / designation group strip		XTZS	XTAUX	DIGITAL SIGNALS TO/FROM 90.CAB.1	DIGITAL SIGNALS TO/FROM 90.CAB.1
		DESTINAZIONE Destinazione mark	Apparecchiatura Designation group				
		FROM ZSL 63.1A		O 46	+24F		
				O 47	0V		
				O 48	6.51		
		FROM ZSH 63.1B		O 49	+24F		
				O 50	0V		
				O 51	6.52		
		FROM ZSL 63.1B		O 52	+24F		
				O 53	0V		
				O 54	6.61		
				O 55	+24F		
		FROM ZSH Spare		O 56	0V		
				O 57	6.71		
				O 58	+24F		
		FROM ZSL Spare		O 59	0V		
				O 60	6.72		
				O 1	7.31		
				O 2	7.32		
				O 3	7.43		
				O 4	7.42		
				O 5	7.53		
				O 6	7.52		
				O 7	7.63		
				O 8	7.62		
				O 9	7.71		
				O 10	7.65		
				O 11	7.81		
				O 12	7.73		
				O 13	8.23		
				O 14	8.22		
				O 15	8.33		
				O 16	8.32		
				O 17	8.43		
				O 18	8.42		
				O 19	8.51		
				O 20	8.45		
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UNI A3	1	UPDATED AFTER TEST	D.C.	11-09-12	SABIZ PLANT	4		TERMINAL BLOCK drawing's title:	THR: 25332-CC10-E015A	KC-62A3 +.
	0	ISSUE FOR CONSTRUCTION	D.M.	15-07-12				JOB : 2F11	dwg. 2F11-85-083	sheet 15 16 n.sh
rev.	Issue Description	Author	Date							
It. DIN 6771/Teil 5 1 2 3 4 5 6 7 8										

A													
B													
C													
D													
E													
F													
A		Identificazione morsettiera / designation group strip											
B		Terminal type		Terminal Terminal		ORIGINE Destination mark		Destinazione mark		Identif. collegamento Designation group			
C		Morsetto Terminal N. N.		Morsettiera Fish plate c.		XTAUX							
D		Terminal Terminal		O 35 12.55									
E		O 36 12.56											
F		O 37 12.61											
G		O 38 12.62											
H		O 39 12.63											
I		O 40 12.64											
J		O 41 12.65											
K		O 42 12.66											
L		O 43 12.35											
M		O 44 12.36											
N		O 45 12.37											
O		O 46 12.38											
P		O 47 12.45											
Q		O 48 12.46											
R		O 49 12.47											
S		O 50 12.48											
T		O 51 12.57											
U		O 52 12.58											
V		O 53 12.59											
W		O 54 12.60											
X		O 55 12.55											
Y		O 56 12.56											
Z		O 57 12.67											
AA		O 58 12.68											
AB		O 59 12.69											
AC		O 60 12.70											
AD		O 61 12.71											
AE		O 62 12.72											
AF		XTAUX1											
AG		O 1 4L1											
AH		O 2 10.61											
AI		O 3 12.21											
AJ		O 4 12.22											
AK		O 5 12.23											
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BG													

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UNI A3	1	UPDA
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	rev.	Issue

SABIZ PLANT



TERMINAL BLOCK

THR: 25332-CC10-E017A

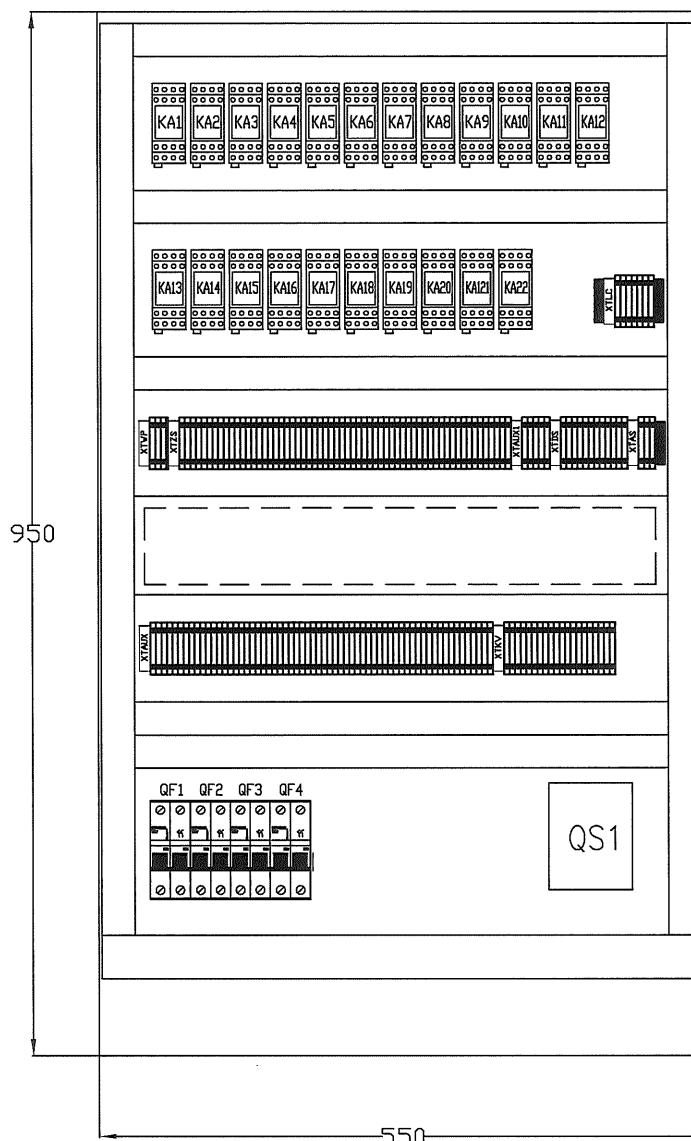
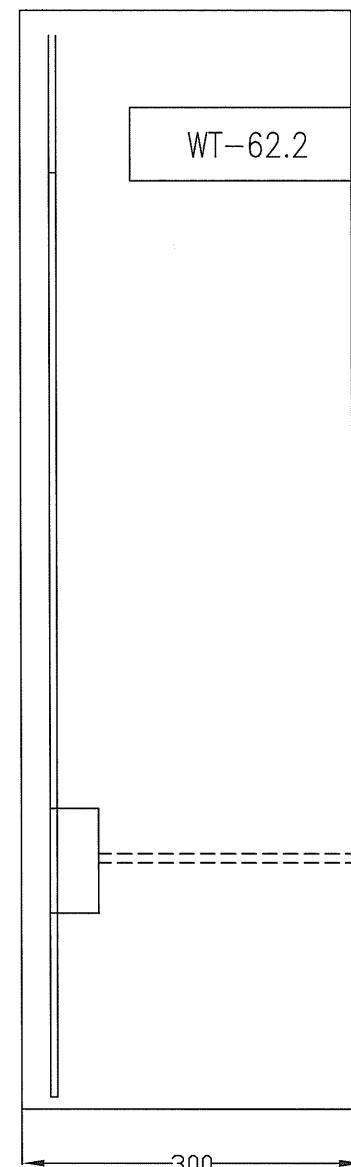
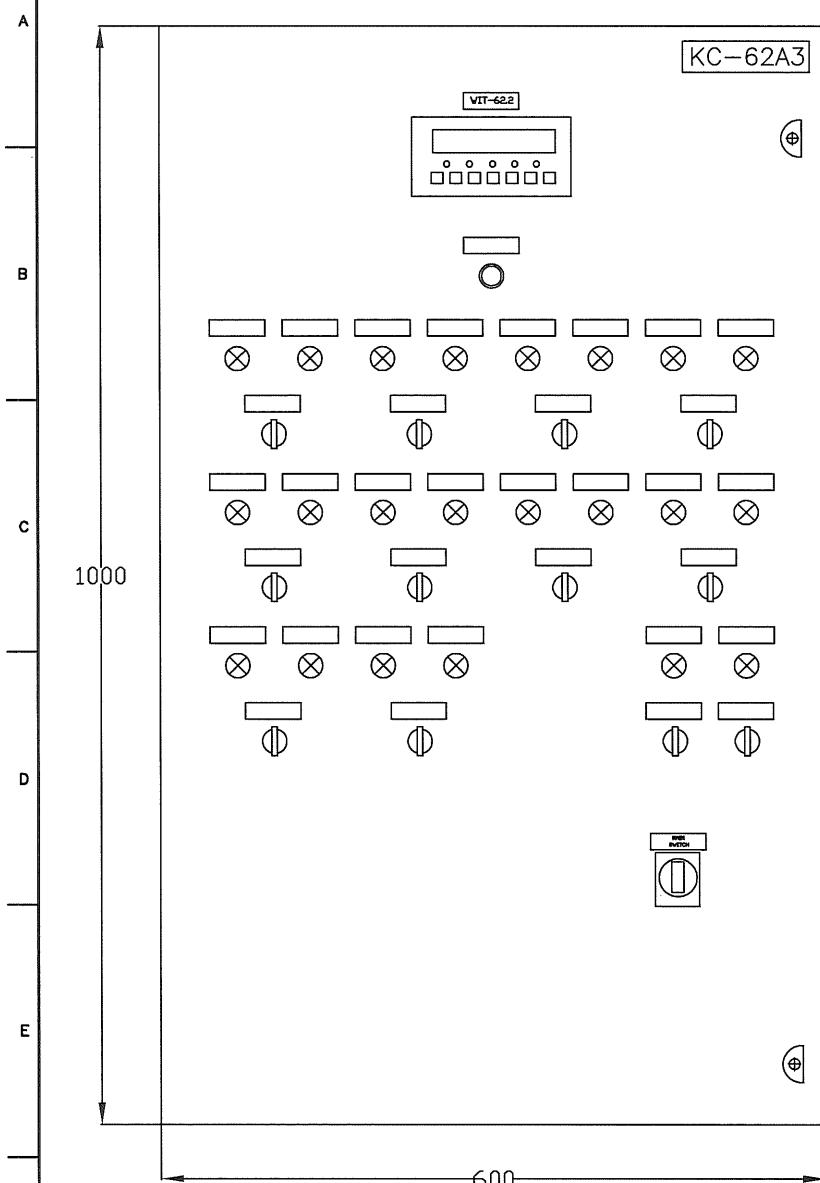
= KC-62A3

JOB : 2F11 2F11-85-083

sheet 17

It. DIN 6771/Teil

1 2 3 4 5 6 7 8

EXTERNAL LAYOUTINTERNAL LAYOUT

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UNI A3			
1	UPDATE AFTER TEST	D.C.	11-09-12
0	ISSUE FOR CONSTRUCTION	J.M.	15-07-12

SABIZ PLANT

rev. It. DIN 6771/Teil 5 1

Issue Description Author Date



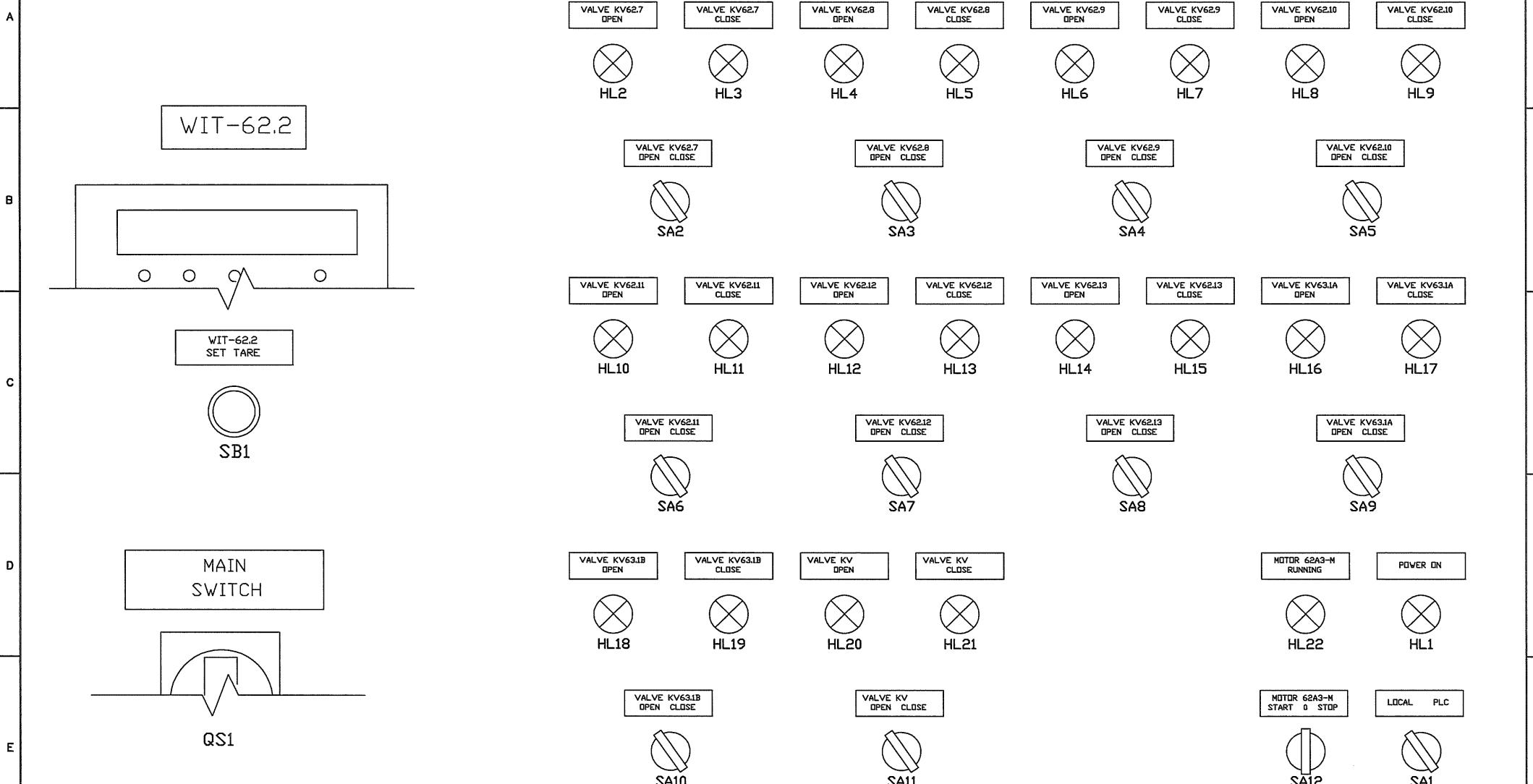
TOPOGRAPHIC VIEW
drawing's title:

THR: 25332-CC10-E018A	= KC-62A3
+	.
JOB : 2F11	dwg. 2F11-85-083

sheet 18

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UNI A3	UPDATE AFTER TEST	D.C.	11-09-12
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rev.	ISSUE FOR CONSTRUCTION	D.M.	15-07-12
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It. DIN 6771/Tell 5 1	Issue Description	Author	Date

SABIZ PLANT

LABELS
drawing's title:

THR: 25332-CC10-E019A

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+.

JOB : 2F11

sheet 19

dwg. 2F11-85-083

20 n.sh

EQUIPMENT LIST

SCHEMATIC WIRING DIAGRAM

CODE	EQUIPMENT DESCRIPTION	IDENTIFICATION DATA	MANUFACT.	Q.TY	ID TAG	UTILITIES TAG	CUBICLE	LABEL	DWG Nr.
QS1	MAIN SWITCH 3 X12A S0 2,8/4A 1L+1R	3RV1021-1EA15	SIEMENS	1					
QS1	DOOR LOCK ACCESSORIES	3RV1926-0K	SIEMENS	1					
QF1, QF2	MAGNETHERMAL SWITCH 2 POLE (4A) - "C" CURVE	5SY6 104-7	SIEMENS	2					
QF3, QF4	MAGNETHERMAL SWITCH 2 POLE (2A) - "C" CURVE	5SY6 202-7	SIEMENS	2					
HL1	LAMP WHITE	3SB3604-6AA60	SIEMENS	1					
HL...	LAMP GREEN	3SB3604-6AA40	SIEMENS	11					
HL...	LAMP RED	3SB3604-6AA20	SIEMENS	10					
HL1	LAMP HOLDER 110/130 VAC	3SB3400-1B	SIEMENS	22					
HL1..22	LAMP BA9s - 110V 2W	-	SIEMENS	22					
KA1..KA20	RELAY 4 CONTACT	MY4 (24VDC)	OMRON	20					
KA21, 22	RELAY 4 CONTACT	MY4 (110VAC)	OMRON	2					
KA..	SOCKET FOR RELAY	PYF14AN	OMRON	22					
SA1	SELECTOR SWITCH 2 Position BLACK	3SB3500-2KA11	SIEMENS	1					
SA2..11	SELECTOR SWITCH 1 Position SPRING RETURN BLACK	3SB3500-2LA11	SIEMENS	10					
SA12	SELECTOR SWITCH 2 Position SPRING RETURN BLACK	3SB3500-2EA11	SIEMENS	1					
SB1	PUSHBUTTON BLACK	3SB3500-0AA11	SIEMENS	1					

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	Drawing supplier 25332-CC10-E020A	Rev. 1	Plant SABIZ								
	Drawing 2F11-85-083	Sheet 20	Drawing's title EQUIPMENT LIST	1	UPDATE AFTER TEST	DC	11/09/2012	0	ISSUE FOR CONSTRUCTION	DM	15/07/2012
		Next 21		Revisi	Issue description	Author	Date				

EQUIPMENT LIST

SCHEMATIC WIRING DIAGRAM

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	Drawing supplier 25332-CC10-E021A	Rev. 1	Plant SABIZ				
 desmet ballestra	Drawing 2F11-85-083	Sheet 21	Drawing's title EQUIPMENT LIST	1 0	UPDATE AFTER TEST ISSUE FOR CONSTRUCTION	DC DM	11/09/2012 15/07/2012
	Next -			Revision	Issue description	Author	Date