

JOB: 2F11

SABIZ PLANT

SLURRY PREPARATION WEIGHING SYSTEM

ITEM: 62WG1

DESMET BALLESTRA SUPPLY

LOCAL CONTROL PANEL: WK-62.1

WEIGHT INDICATOR & TRANSMITTER UNIT: WIT-62.1

PNEUMATIC BOX: KC-62.11

ELECTRICAL & PNEUMATICAL DOCUMENTATION

WIRING DIAGRAMS - PNEUMATIC DIAGRAMS - LAYOUT - TERMINAL STRIP - MATERIAL LIST

 Thermo Scientific Thermo Ransley Italia Srl - Strada Rivoltana km 6/7 - Rodano (MI)	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-CC09-E001A	Rev. 1				
 desmet ballestra	Drawing 2F11-85-082	Sheets 1 of 24				
	Plant SABIZ		1	UPDATE AFTER TEST	DC	11/09/2012
			0	ISSUE FOR CONSTRUCTION	DM	24/08/12
		Rev.	Issue description		Author	Date

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	WK-62.1 - WIRING DIAGRAM	x	x		
006	WK-62.1 - WIRING DIAGRAM	x	x		
007	WK-62.1 - WIRING DIAGRAM	x	x		
008	WK-62.1 - WIRING DIAGRAM	x	x		
009	WK-62.1 - WIRING DIAGRAM	x	x		
010	WK-62.1 - WIRING DIAGRAM	x	x		
011	WK-62.1 - FIELD CONNECTION	x	x		
012	WK-62.1 - TERMINAL BLOCK	x	x		
013	WK-62.1 - TERMINAL BLOCK	x	x		
014	WK-62.1 - TERMINAL BLOCK	x	x		
015	WK-62.1 - TOPOGRAPHIC VIEW	x	x		
016	WK-62.1 - I-LABELS	x	x		
017	WK-62.1 - EQUIPMENT LIST	x	x		
018	WK-62.1 - EQUIPMENT LIST	x	x		
019	KC-62.11 - WIRING DIAGRAM	x	x		
020	KC-62.11 - PNEUMATIC DIAGRAM	x	x		
021	KC-62.11 - TERMINAL BLOCK	x	x		
022	KC-62.11 - INTERNAL VIEW	x	x		
023	KC-62.11 - EXTERNAL VIEW	x	x		
024	KC-62.11 - EQUIPMENT LIST	x	x		
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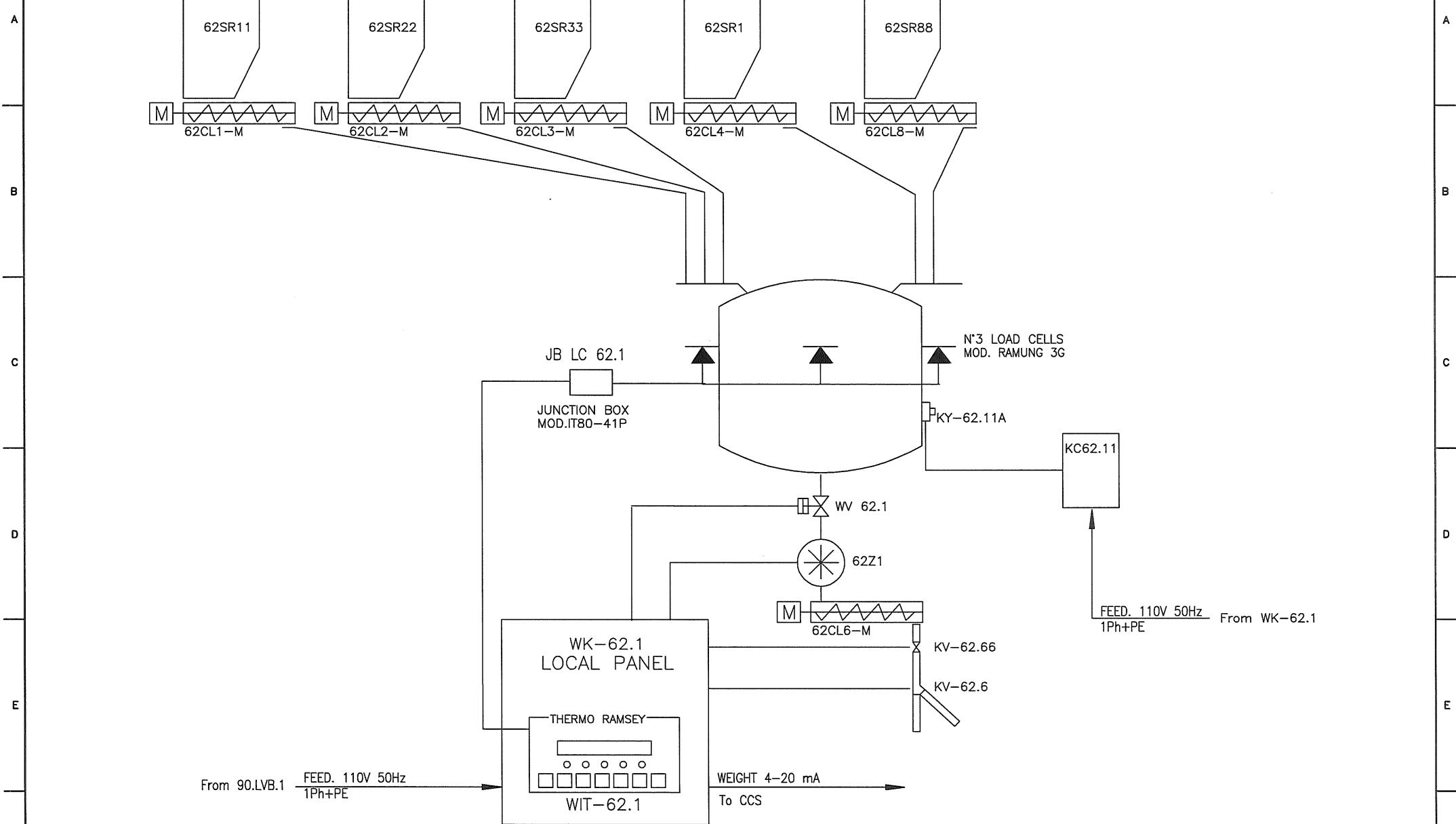
Sheet	Revisions				
	Description	0	1	2	3
046					
047					
048					
049					
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	Drawing supplier 25332-CC09-E002A	Rev. 1	Plant SABIZ			
	Drawing 2F11-85-082	Sheet 2	Drawing's title INDEX	1 0	UPDATE AFTER TEST ISSUE FOR CONSTRUCTION	DC DM 11/09/2012 24/08/2012
		Next 3		Revision	Issue description	Author Date

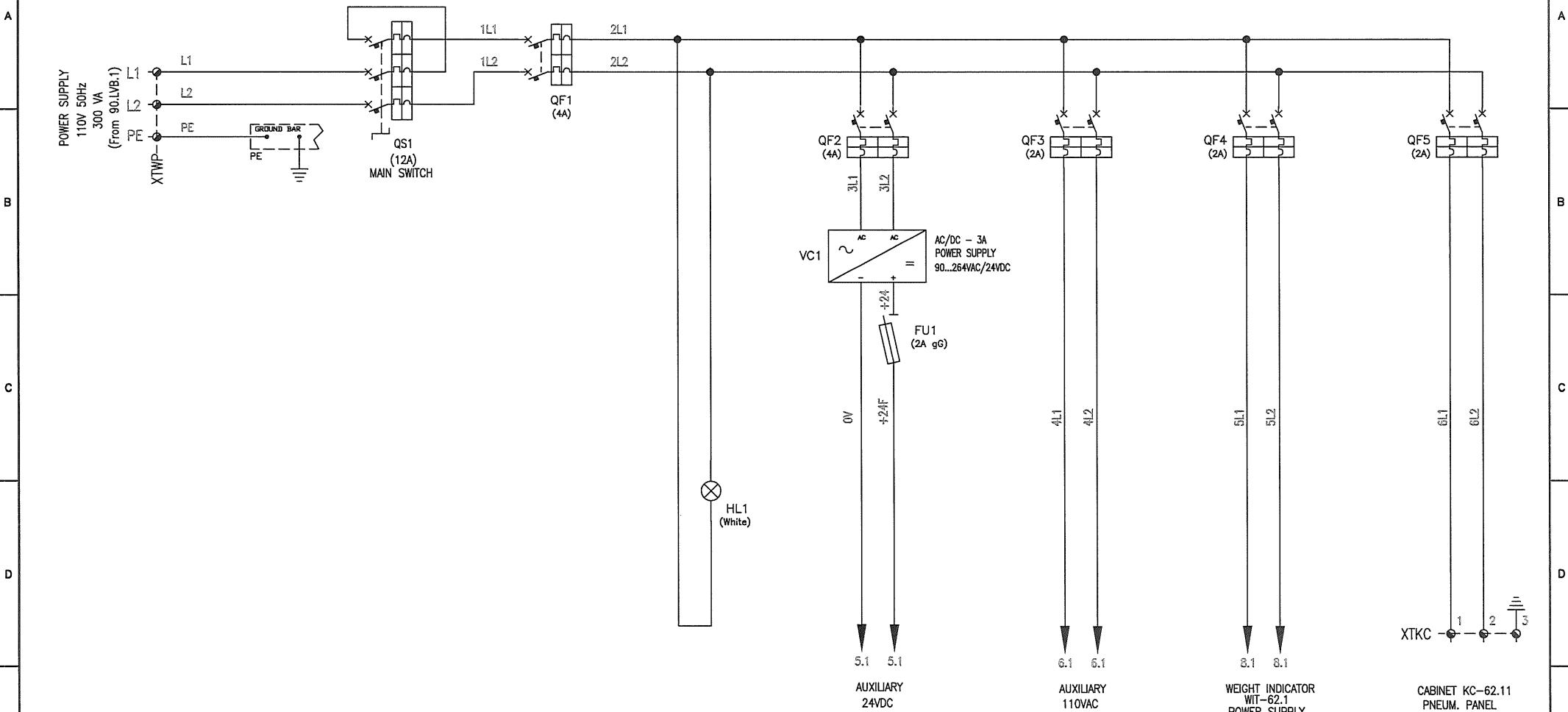
1 2 3 4 5 6 7 8



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UNI A3				SABIZ PLANT		BLOCK DIAGRAM		THR: 25332-CC09-E003A		= WK-62.1	
1	UPDATE AFTER TEST	D.C.	11-09-12							+	
0	ISSUE FOR CONSTRUCTION	D.M.	24-08-12								sheet 03
rev.	Issue Description	Author	Date					JOB : 2F11	dwg. 2F11-85-082	04	n.sh

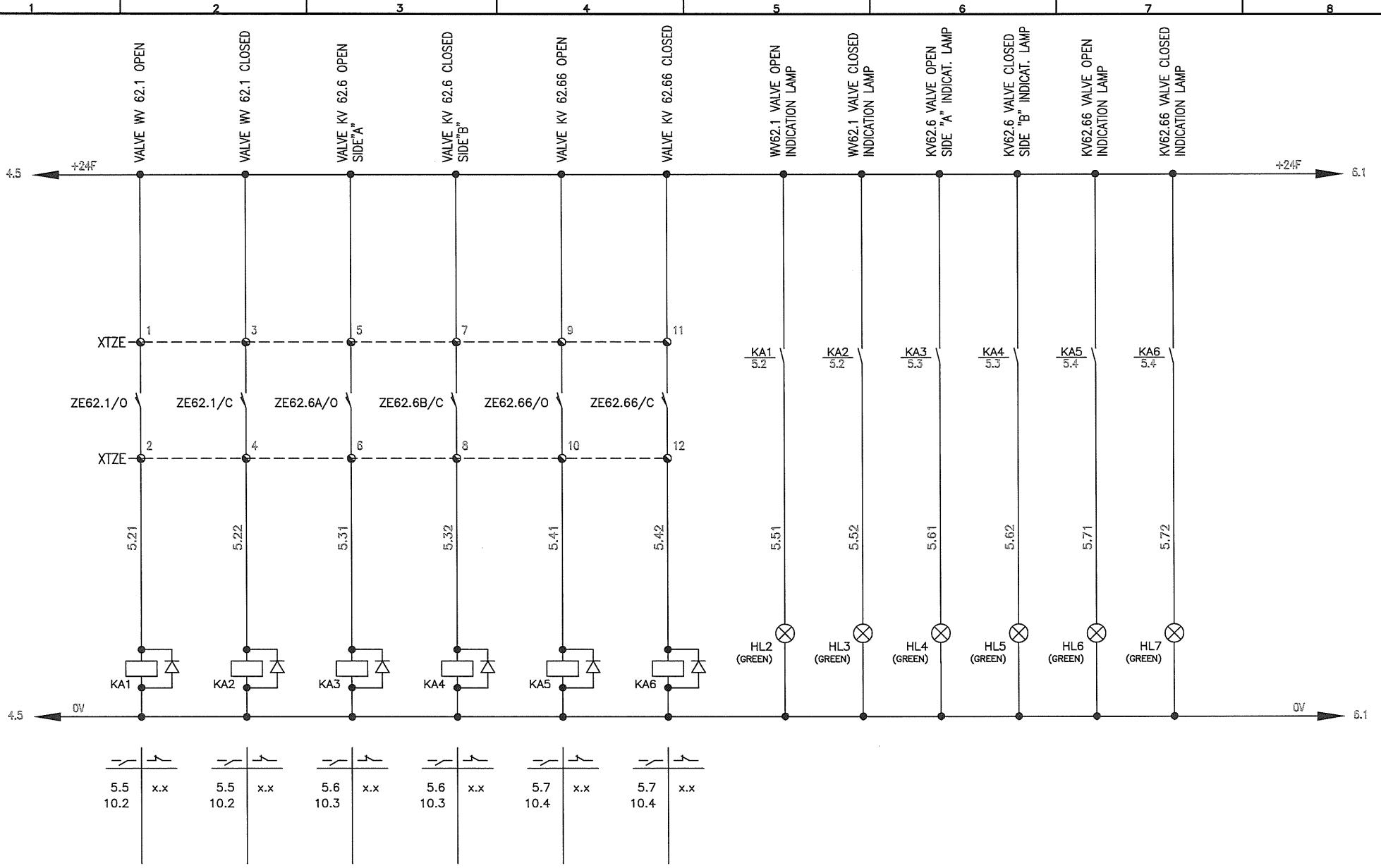
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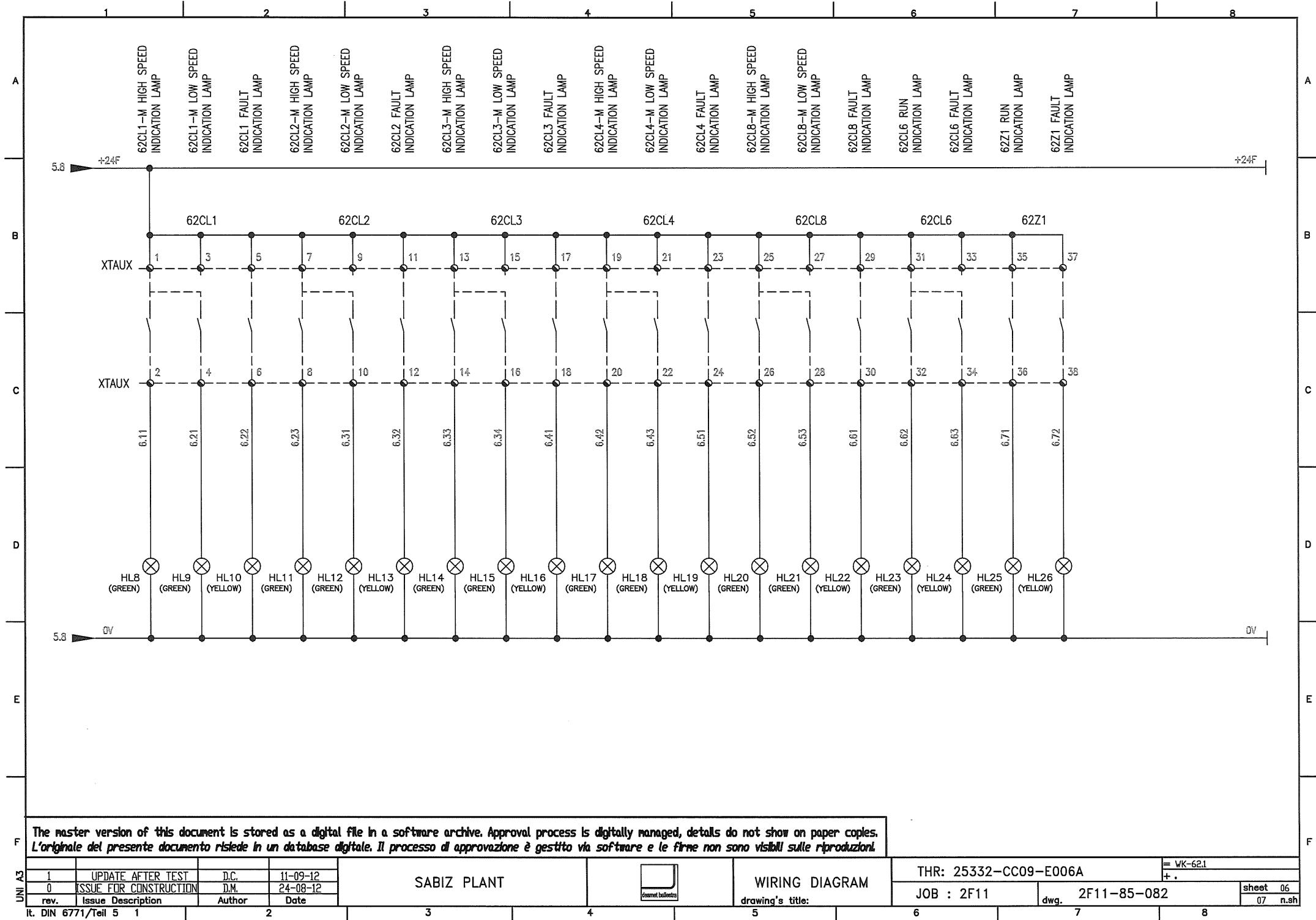
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1	UPDATE AFTER TEST	D.C.	11-09-12				+
0	ISSUE FOR CONSTRUCTION	D.M.	24-08-12			JOB : 2F11	sheet 04
rev.	Issue Description	Author	Date		drawing's title:	dwg. 2F11-85-082	05 n.sh

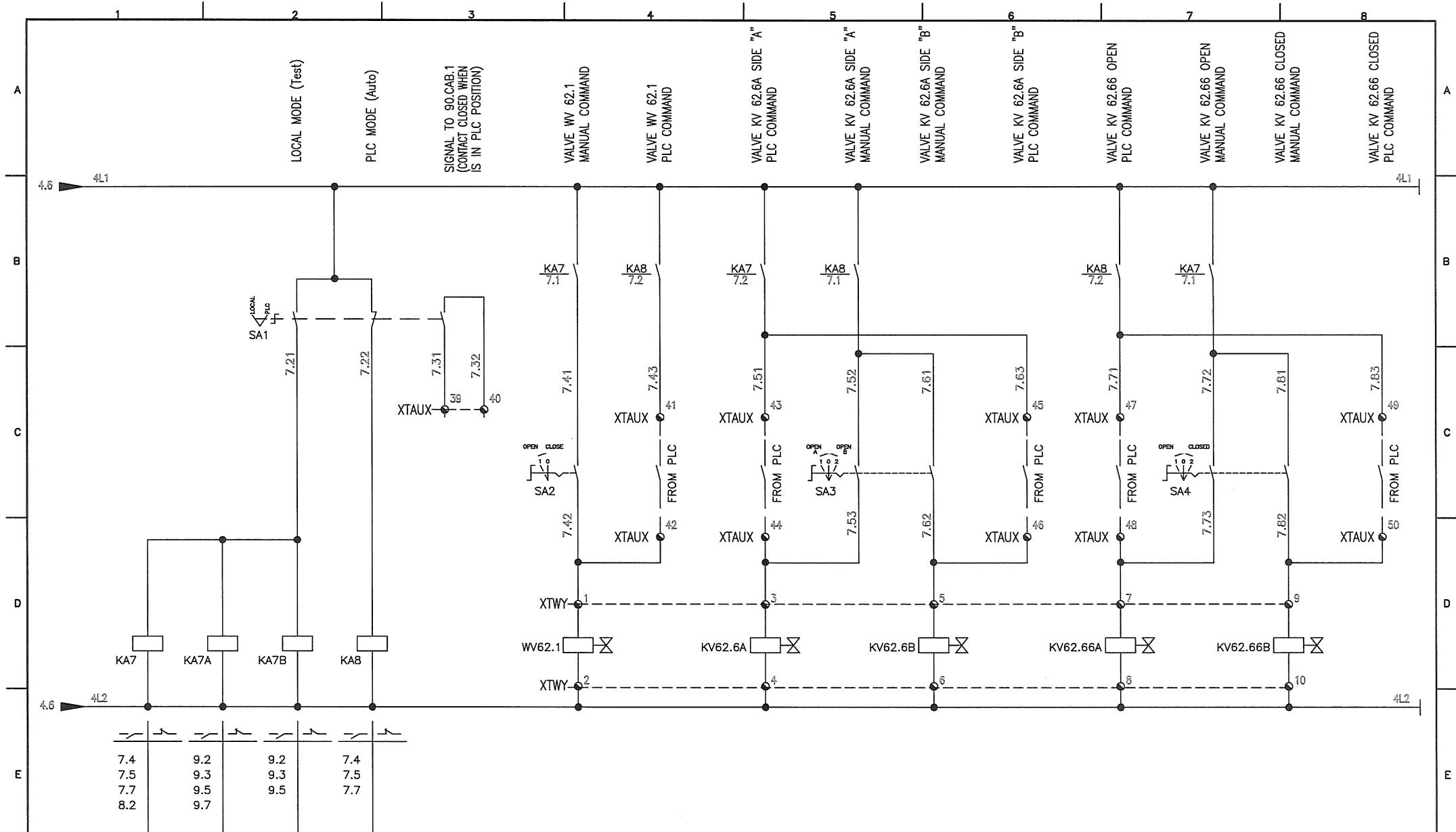
It. DIN 6771/Teil 5 1 2 3 4 5 6 7 8



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UNI A3				SABIZ PLANT		WIRING DIAGRAM		THR: 25332-CC09-E005A		= WK-62.1	
1	UPDATE AFTER TEST	D.C.	11-09-12							+	
0	ISSUE FOR CONSTRUCTION	D.M.	24-08-12							sheet 05	
rev.	Issue Description	Author	Date							06 n.sh	
It. DIN 6771/Teil 5 1	2	3	4	5	6	7	8	JOB : 2F11	dwg. 2F11-85-082	sheet 05	06 n.sh





NOTE: SOLENOID VALVES (WY) ENERGIZED - a) VALVE WY 62.1 CLOSE

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UNI A3	1	UPDATE AFTER TEST	D.C.	11-09-12
	0	ISSUE FOR CONSTRUCTION	D.M.	24-08-12
	rev.	Issue Description	Author	Date

SABIZ PLANT

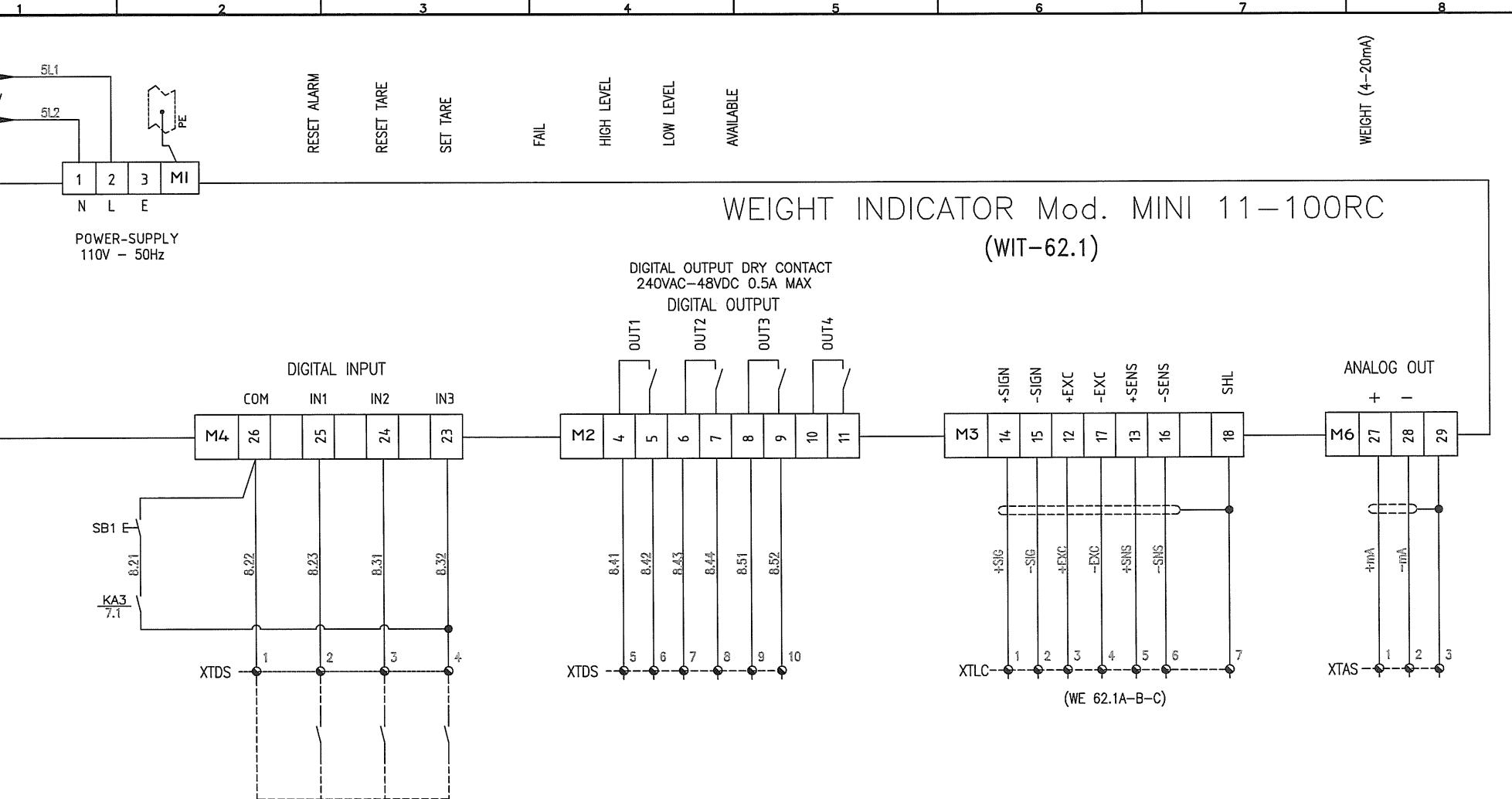


WIRING DIAGRAM
drawing's title:

THR: 25332-CC09-E007A

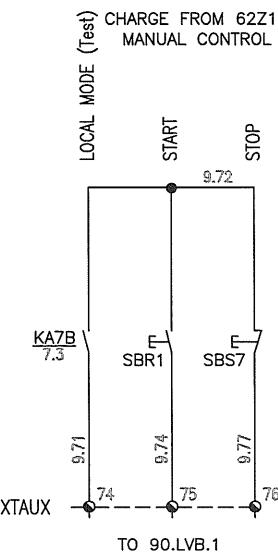
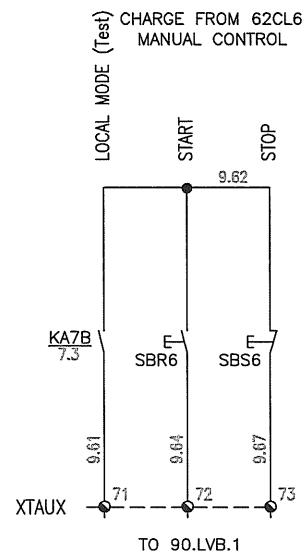
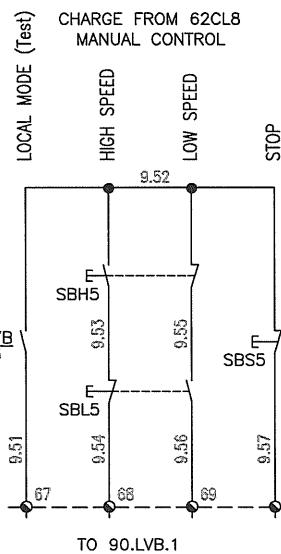
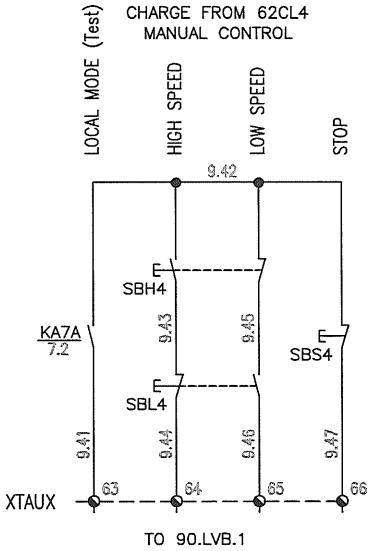
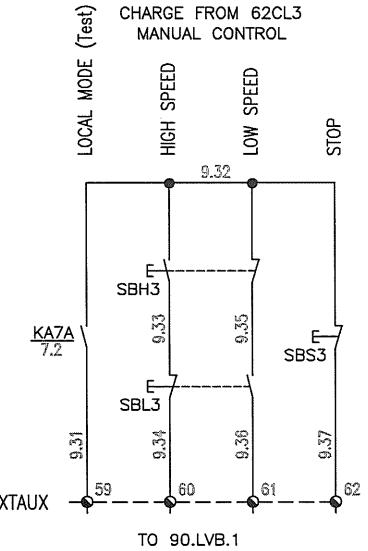
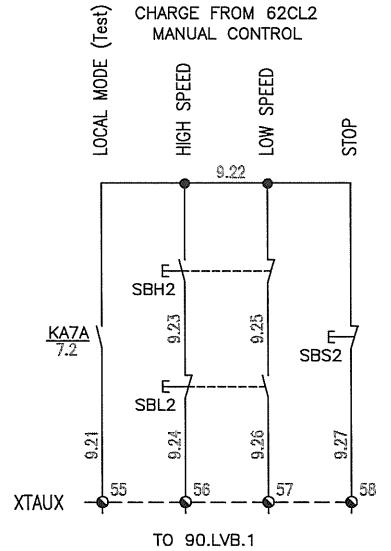
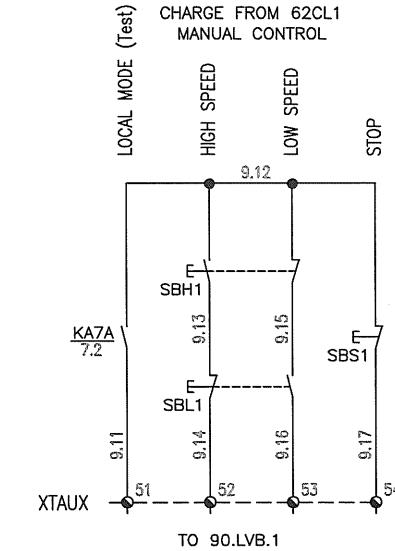
JOB : 2F11 2F11-85-082

sheet 07
08 n.sh



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UNI A3				SABIZ PLANT		WIRING DIAGRAM		THR: 25332-CC09-E008A		= WK-62.1	
1	UPDATE AFTER TEST	D.C.	11-09-12								+
0	ISSUE FOR CONSTRUCTION	D.M.	24-08-12								sheet 08
rev.	Issue Description	Author	Date					JOB : 2F11	dwg. 2F11-85-082		09 n.sh



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UNI A3			
1	UPDATE AFTER TEST	D.C.	11-09-12
0	ISSUE FOR CONSTRUCTION	D.M.	24-08-12

SABIZ PLANT



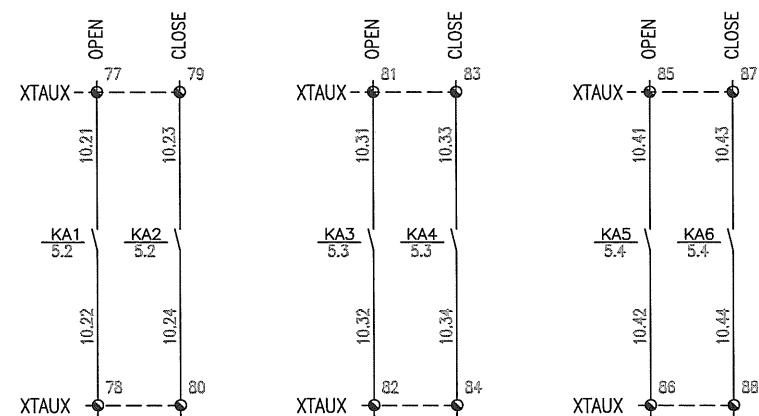
WIRING DIAGRAM
drawing's title:

THR: 25332-CC09-E009A = WK-621
+ .
JOB : 2F11 dwg. 2F11-85-082 sheet 09
It. DIN 6771/Teil 5 1 2 3 4 5 6 7 8 9 10 n.sh

1 2 3 4 5 6 7 8

A

A

SIGNAL TO 90.CAB.1
VALVE WV62.1SIGNAL TO 90.CAB.1
VALVE KV62.6ASIGNAL TO 90.CAB.1
VALVE KV62.66

B

B

C

C

D

D

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	1	UPDATE AFTER TEST	D.C.	11-09-12

rev. Issue Description Author Date

SABIZ PLANT



WIRING DIAGRAM
drawing's title:

THR: 25332-CC09-E010A

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JOB : 2F11 dwg. 2F11-85-082

sheet 10
11 n.sh

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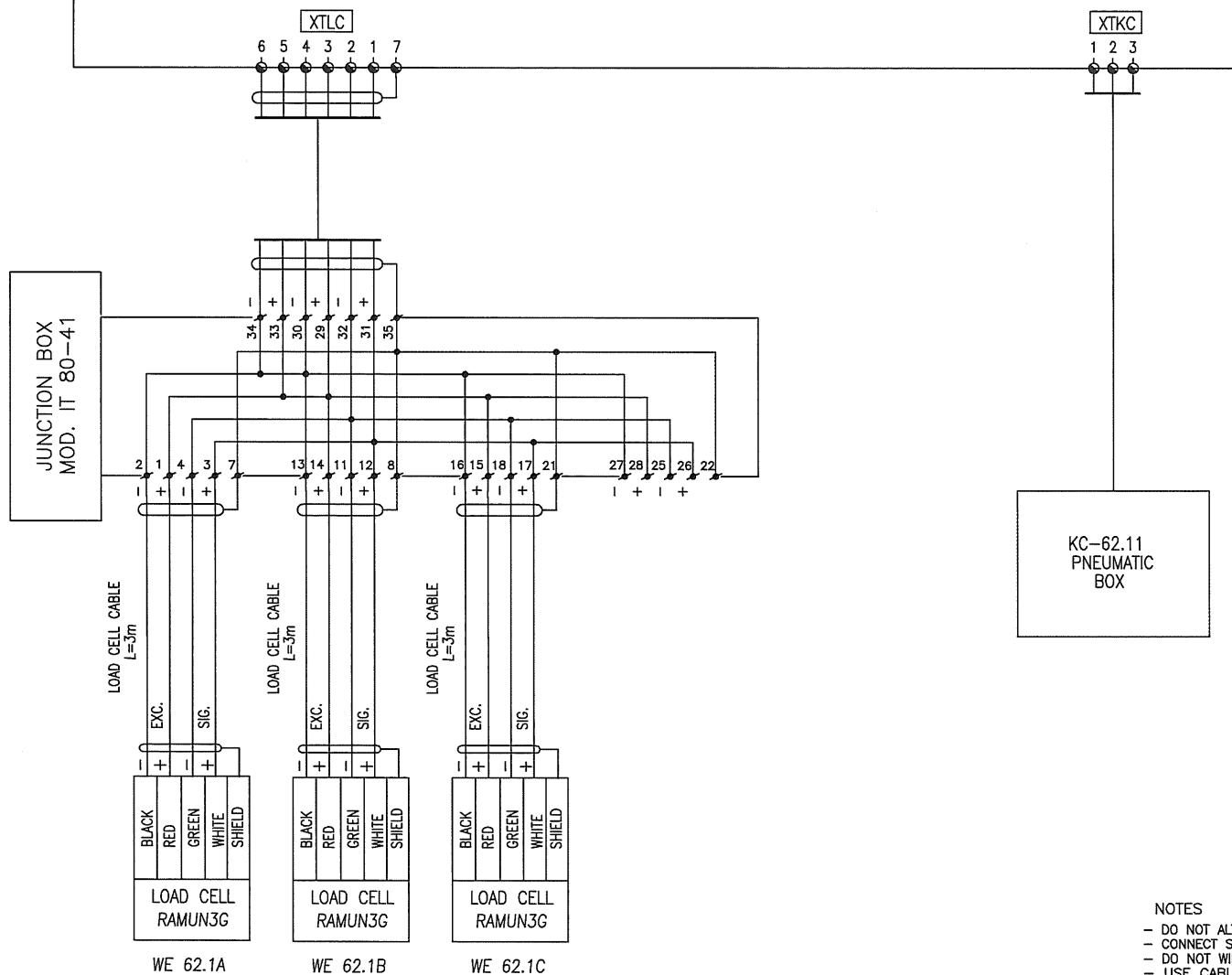
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LOCAL CONTROL PANEL WK-62.1



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UNI A3	1	UPDATE AFTER TEST	D.C.	11-09-12
	0	ISSUE FOR CONSTRUCTION	D.M.	24-08-12
rev.	Issue Description	Author	Date	
It. DIN 6771/Tell	5 1	2	3	4

SABIZ PLANT



FIELD CONNECTION
drawing's title:

THR: 25332-CC09-E011A

= WK-62.1
+ .

JOB : 2F11 dwg. 2F11-85-082

sheet 11
11 n.sh

Cavo Nr. Cable Nr.	Tipo Type	Identificazione morsettiera / designation group strip											
		DESTINAZIONE Destination mark		ORIGINE Destination mark		Identif. collegamento Designation group		Terminale Terminal		Terminale Terminal		Morsetto Terminal N. r.	
		Morsettiera Fish plate	Terminal N. r.	Morsettiera Fish plate	Terminal N. r.	Morsettiera Fish plate	Terminal N. r.	Morsettiera Fish plate	Terminal N. r.	Morsettiera Fish plate	Terminal N. r.	Morsettiera Fish plate	Terminal N. r.
		XTPW		XTKC		XTZE		0 1	6L1	0 2	6L2	0 3	PE
		POWER SUPPLY 110V 50Hz	PANEL KC-62.11					0 1	+24F	0 2	5.21	0 3	+24F
		DISCHARGE VALVE W 62.1 SWITCHES						0 4	5.22	0 5	+24F	0 6	5.31
		DEVIATION VALVE KV 62.6 SWITCHES						0 7	+24F	0 8	5.32	0 9	+24F
		CLOSING VALVE KV 62.66 SWITCHES						0 10	5.41	0 11	+24F	0 12	5.42
		XTAUX						0 1	+24F	0 2	6.11	0 3	+24F
								0 4	6.21	0 5	+24F	0 6	6.22
								0 7	+24F	0 8	6.23	0 9	+24F
								0 10	6.31	0 11	+24F	0 12	6.32
		DI, DO SIGNALS FROM / TO 90.CAB.1						0 13	+24F	0 14	6.33	0 15	+24F
								0 16	6.34	0 17	+24F	0 18	6.41
								0 19	+24F	0 20	6.42	0 21	+24F
								0 22	6.43	0 23	+24F	0 24	6.51
		DI, DO SIGNALS FROM / TO 90.CAB.1						0 25	+24F	0 26	6.52	0 27	+24F
								0 28	6.53	0		0	

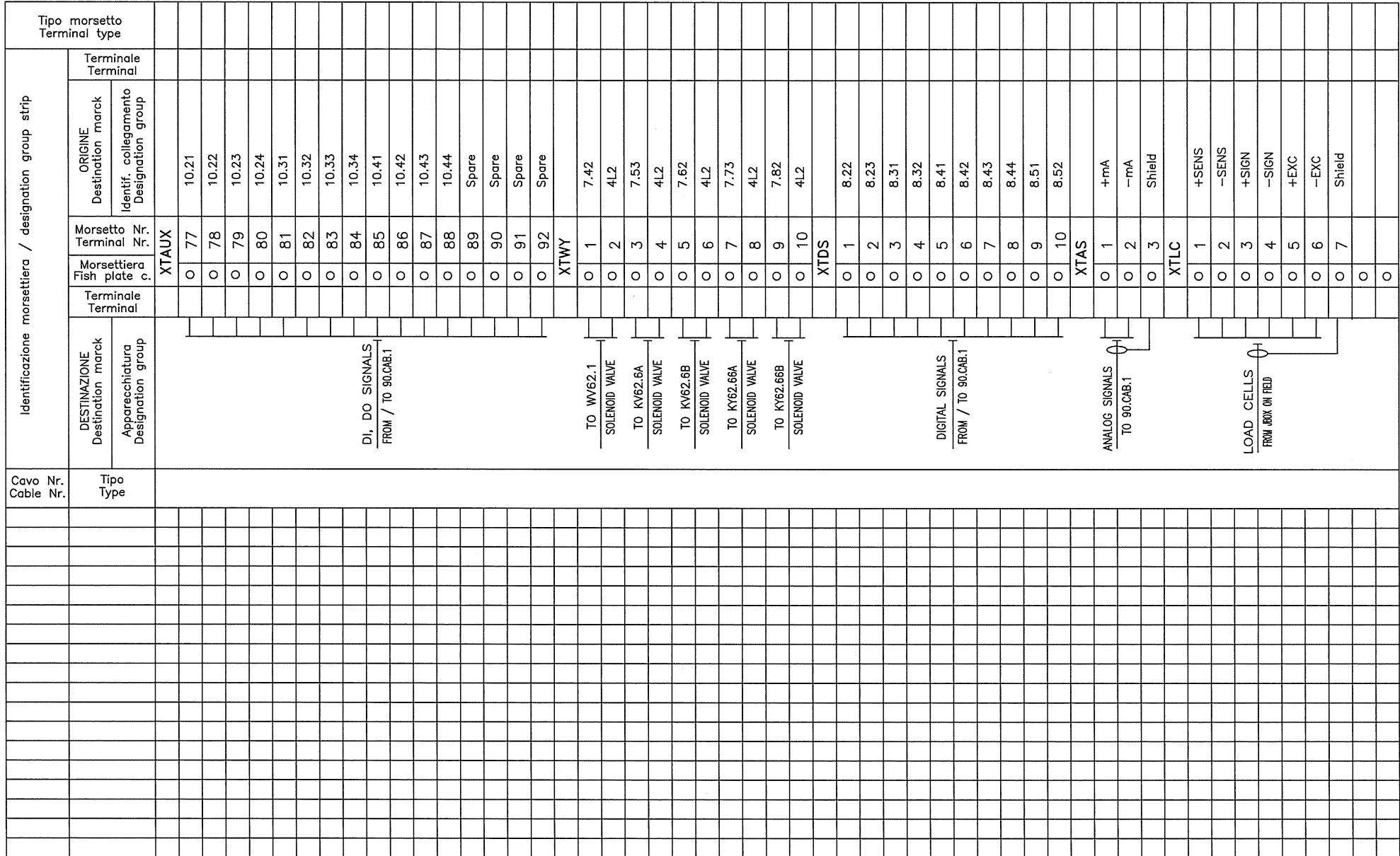
TO SHEET 13

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UNI A3	1	UPDATE AFTER TEST	D.C.	11-09-12	SABIZ PLANT	4		TERMINAL BLOCK drawing's title:	THR: 25332-CC09-E012A			= WK-62.1	
		ISSUE FOR CONSTRUCTION	D.M.	24-08-12					JOB : 2F11	dwg. 2F11-85-082	sheet 12		
It. DIN 6771/Teil 5 1	0	Issue Description	Author	Date		5						13 n.sh	

Identificazione morsettiera / designation group strip		Tipo morsetto Terminal type																		
Cavo Nr. Cable Nr.	Tipo Type	DESTINAZIONE Destination mark	Apparecchiatura Designation group	ORIGINE Destination mark	Identif. collegamento Designation group															
		Morsetto Nr. Terminal Nr.	Morsettiera Fish plate c.	Morsetto Nr. Terminal Nr.	Morsettiera Fish plate c.	XTAUX														
		0	29	0	30	0	29	+24F	0	31	0	32	0	33	+24F	0	34	6.63	0	
		0	6.61	0	35	0	35	+24F	0	36	0	36	0	37	+24F	0	38	6.72	0	
FROM SHEET 12																				
DI, DO SIGNALS FROM / TO 90.CAB.1																				
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	0	ISSUE FOR CONSTRUCTION	D.M.	24-08-12
	rev.	Issue Description	Author	Date

SABIZ PLANT



TERMINAL BLOCK

THR: 25332-CC09-E014A

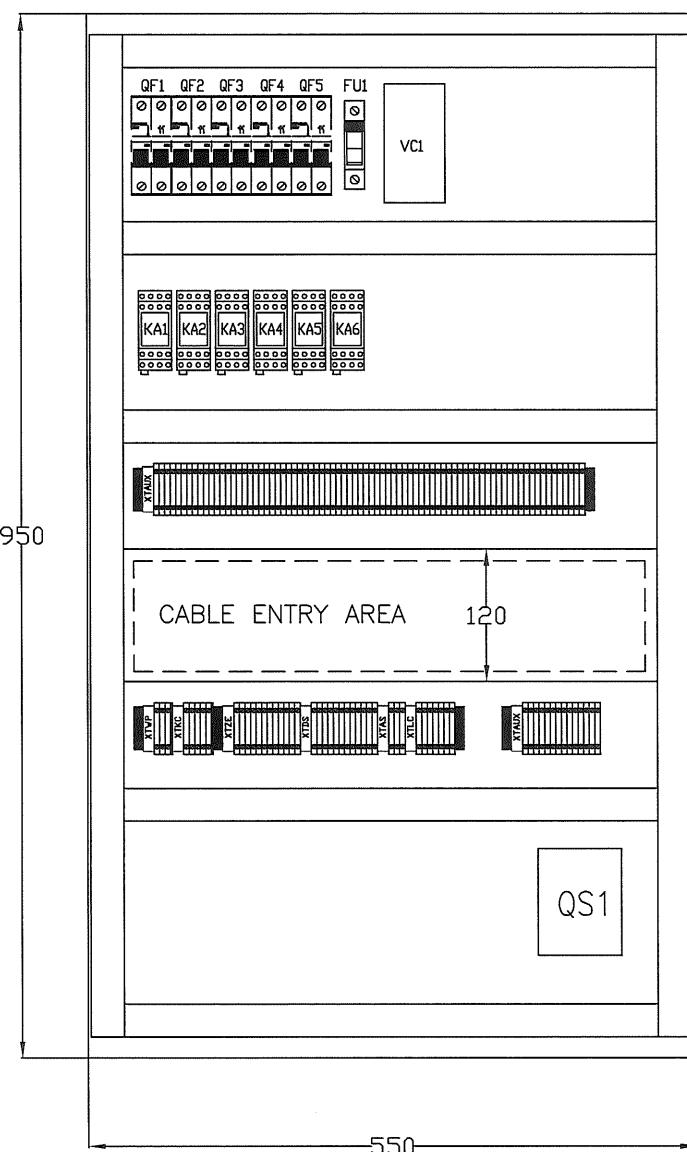
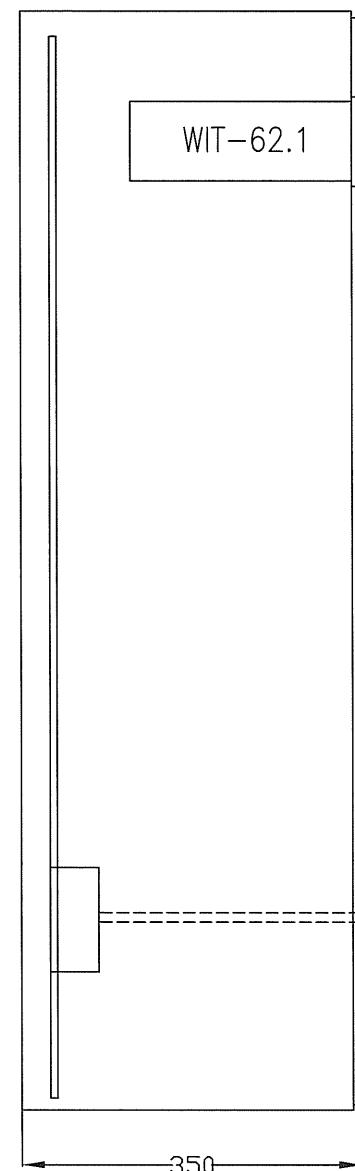
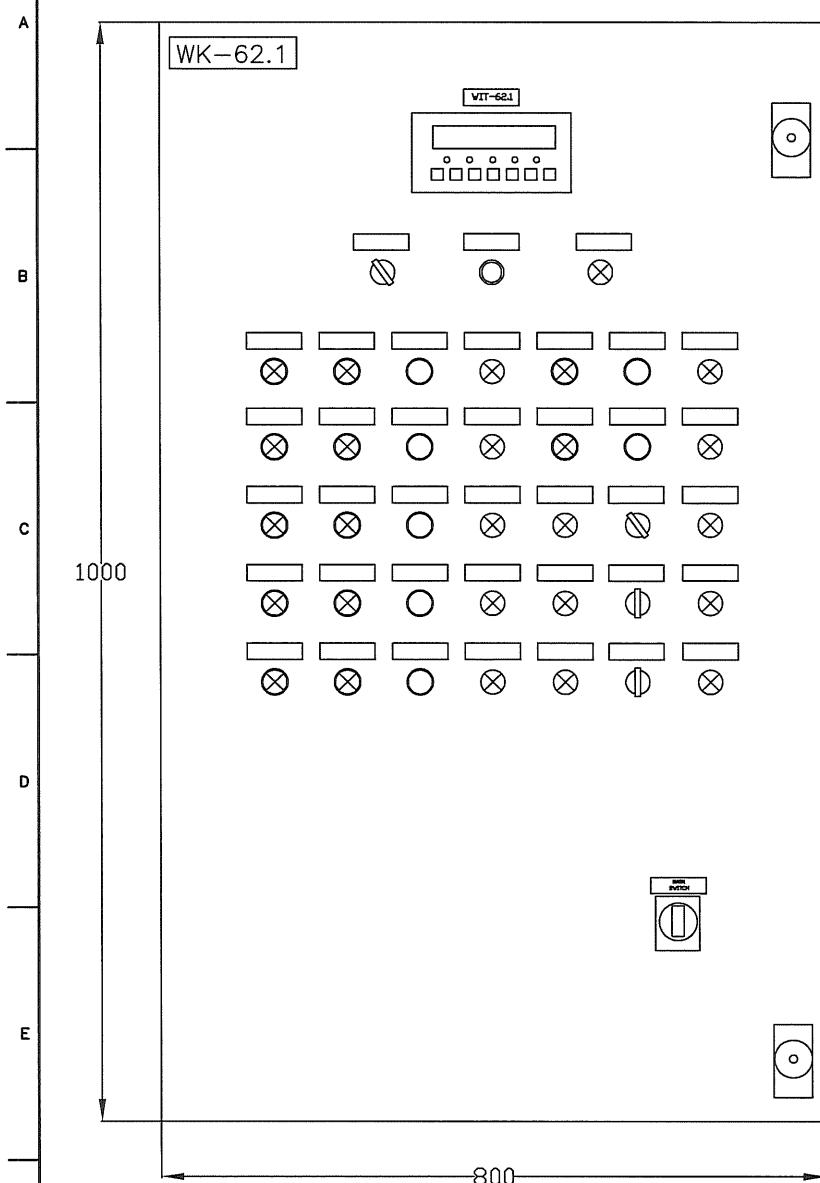
JOB : 2F11 dwg. 2F11-85-081

-62.1

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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	D.M.	24-08-12
rev.	Issue Description	Author	Date
It. DIN 6771/Teil 5	1	2	3

SABIZ PLANT



TOPOGRAPHIC VIEW
drawing's title:

THR: 25332-CC09-E015A	WK-62.1
+	.
JOB : 2F11	dwg. 2F11-85-082
sheet 15	n.sh 16

1 2 3 4 5 6 7 8

PLCL LOCAL

WIT-62.1
SET TARE

POWER ON

A

A



SA1



SB1



HL1

B

B



SBH1+HL8



SBL1+HL9



SBS1



HL10



SBR6+HL23



SBS6



HL24

C

C



SBH2+HL11



SBL2+HL12



SBS2



HL13



SBR1+HL25



SBS7



HL26

D

D



SBH3+HL14



SBL3+HL15



SBS3



HL16



HL2



HL3

E

E



SBH4+HL17



SBL4+HL18



SBS4



HL19



HL4



SA3



HL5

F

F

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UNI A3	1	UPDATE AFTER TEST	D.C.	11-09-12
	0	ISSUE FOR CONSTRUCTION	D.M.	24-08-12
rev.	Issue Description	Author	Date	

SABIZ PLANT



LABELS

drawing's title:

THR: 25332-CC09-E016A

= WK-62.1

+

JOB : 2F11

sheet 16

dwg. 2F11-85-082

17

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 2,2/3,2A 1L+1R	3RV1021-1DA15	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, QF5	MAGNETHERMAL SWITCH 2 POLE (2A) - "C" CURVE	5SY6 202-7	SIEMENS	3					
FU1	FUSEHOLDER 1P	3NW7011	SIEMENS	1					
FU1	FUSE 2A gG	3NW6 002-1	SIEMENS	1					
VC1	STABILIZED POWER SUPPLY 90..264VAC/24VDC - 3A	XCSD70C	CABUR	1					
HL1	LAMP WHITE	3SB3604-6BA60	SIEMENS	1					
HL10,13,16 19,22,24,26	LAMP YELLOW	3SB3604-6BA30	SIEMENS	7					
HL2,3,4,5 6,7	LAMP GREEN	3SB3604-6BA40	SIEMENS	6					
HL1	LAMP HOLDER 110/130 VAC	3SB3400-3A	SIEMENS	1					
SB..+HL..	GREEN LIGHT BUTTON 1L+1R	3SB3605-0AA41	SIEMENS	12					
HL1	LAMP BA9s - 110VAC 2W	-	SIEMENS	1					
HL2..26	LAMP BA9s - 24VDC 2W	-	SIEMENS	25					
SA1	SELECTOR SWITCH 2 Position BLACK	3SB3500-2KA11	SIEMENS	1					
SA2	SELECTOR SWITCH 1 Position SPRING RETURN BLACK	3SB3500-2LA11	SIEMENS	1					
SA3, SA4	SELECTOR SWITCH 2 Position SPRING RETURN BLACK	3SB3500-2EA11	SIEMENS	2					

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	Drawing supplier 25332-CC09-E016A	Rev. 1	Plant SABIZ				
				1	UPDATE AFTER TEST	DC	11/09/2012
				0	ISSUE FOR CONSTRUCTION	DM	24/08/2012
				Revisi	Issue description	Author	Date



EQUIPMENT LIST

SCHEMATIC WIRING DIAGRAM

CODE	EQUIPMENT DESCRIPTION	IDENTIFICATION DATA	MANUFACT.	Q.TY	ID TAG	UTILITIES TAG	CUBICLE	LABEL	DWG Nr.
SB1	PUSHBUTTON BLACK	3SB3500-0AAA11	SIEMENS	1					
SBS1..7	PUSHBUTTON RED	3SB3500-0AAA21	SIEMENS	7					
SA..,SB1	CONTACT 1 NO	3SB3400-0B	SIEMENS	8					
SA1, SBS	CONTACT 1 NC	3SB1400-0C	SIEMENS	8					
KA1..6	RELAY 4 CONTACT	MY4 (24VDC)	OMRON	6					
KA7,7A, 7B,8	RELAY 4 CONTACT	MY4 (110VAC)	OMRON	4					
KA...	SOCKET FOR RELAY	PYF14AN	OMRON	10					
XT..	TERMINAL 4 mmq		SIEMENS	138					
XT..	GROUND TERMINAL 4 mmq		SIEMENS	2					
-	SET OF LABELS	DWG. 2F11-85-082 Sheet 16	-	1					
WK-62.1	CABINET 600x1000x300	NSYS 3D10630P	SCHNEIDER	1					
WT-62.1	WEIGHT INDICATOR TRANSMITTER	MINI 11-100RCS	THERMO RAMSEY	1					

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	Drawing supplier 25332-CC09-E017A	Rev. 1	Plant SABIZ				
	Drawing 2F11-85-082	Sheet 18	Drawing's title EQUIPMENT LIST	1	UPDATE AFTER TEST	DC	11/09/2012
		Next 19		0	ISSUE FOR CONSTRUCTION	DM	24/08/2012
				Revision	Issue description	Author	Date

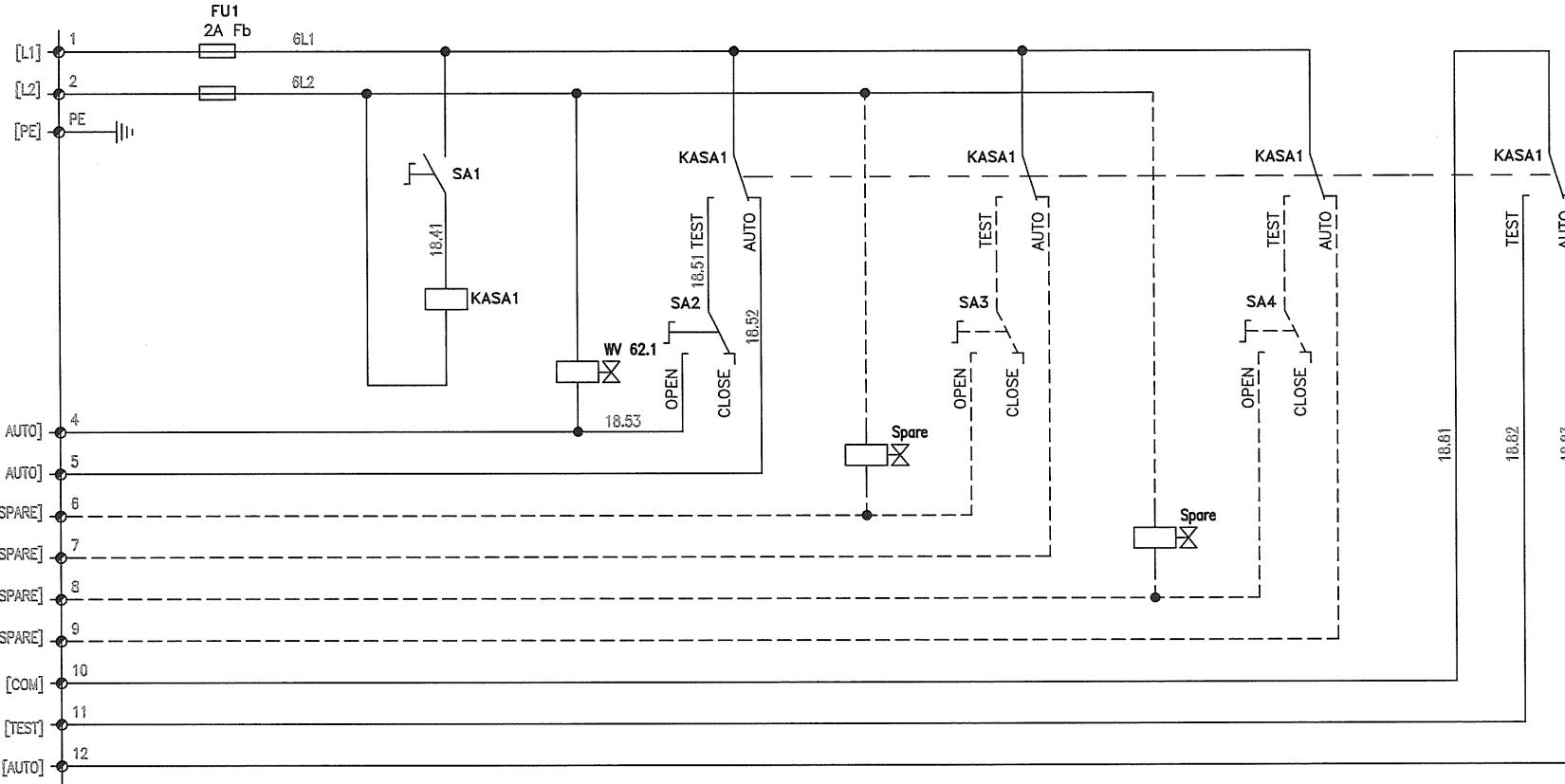
POWER SUPPLY
110VAC 50Hz
FROM WK-62.1

START VIBRATOR 1
FROM 90.CAB.1
(DRY CONTACT)

SPARE
FROM 90.CAB.1
(DRY CONTACT)

SPARE
FROM 90.CAB.1
(DRY CONTACT)

FUNCTIONING
MODE (AUTO/TEST)
TO 90.CAB.1



KASA1
AUTO/TEST
AUX. RELAY

WV62.1
VIBRATOR
SOLENOID VALVE

Spare
SOLENOID VALVE

Spare
SOLENOID VALVE

PLC MODE
FUNCTIONING
INDICATION

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UNI A3			
1	UPDATE AFTER TEST	D.C.	11-09-12
0	ISSUE FOR CONSTRUCTION	D.M.	24-08-12
rev.	Issue Description	Author	Date

SABIZ PLANT



WIRING DIAGRAM
drawing's title:

THR: 25332-CC09-E018A = KC-62.11
+.

JOB : 2F11 dwg. 2F11-85-082

sheet 19
20 n.sh

1 2 3 4 5 6 7 8

A

A

B

B

C

C

D

D

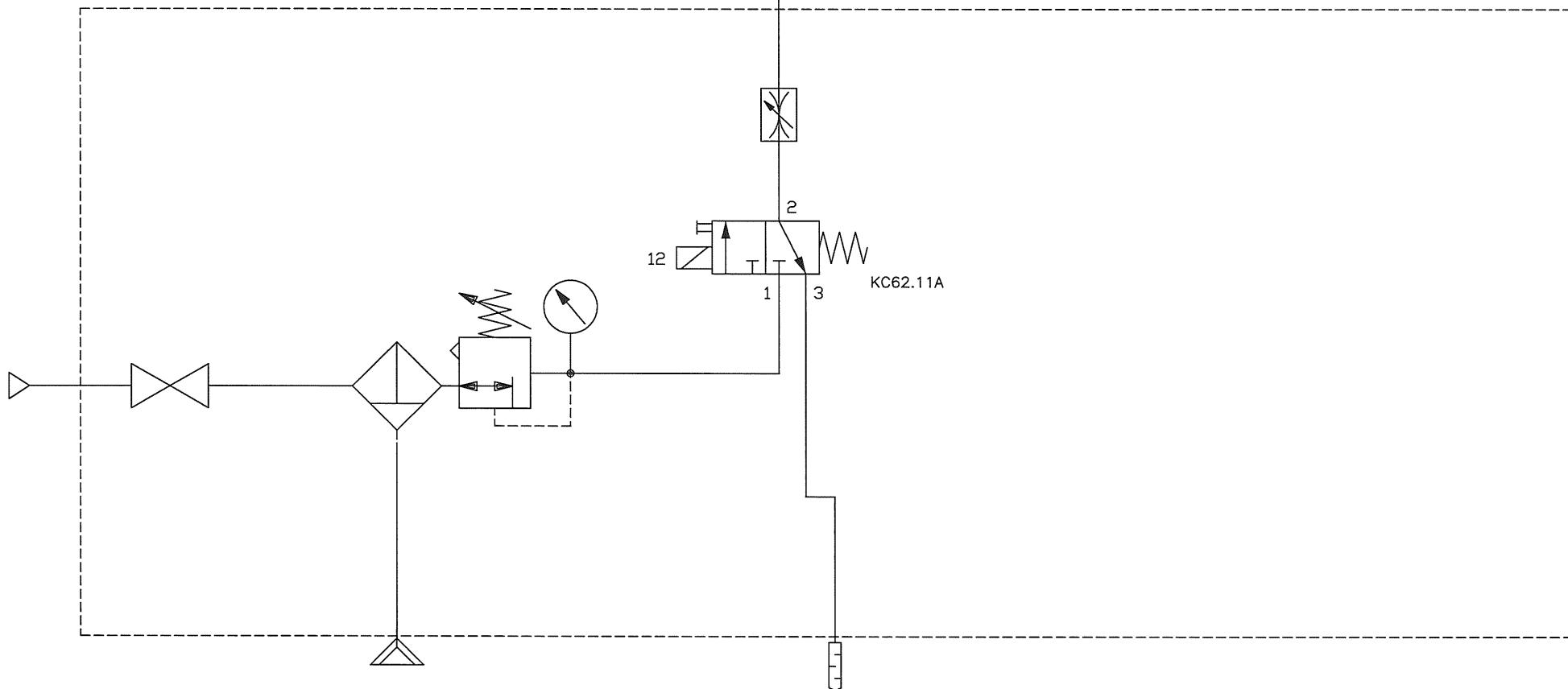
E

E

F

F

VIBRATOR 1



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UNI A3	1	UPDATE AFTER TEST	D.C.	11-09-12
	0	ISSUE FOR CONSTRUCTION	D.M.	24-08-12
	rev.	Issue Description	Author	Date

SABIZ PLANT



PNEUMATIC DIAGRAM
 drawing's title:

THR: 25332-CC09-E019A = KC-62.11

+

JOB : 2F11 dwg. 2F11-85-082

sheet 20
 21 n.sh

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1	UPDATE AFTER TEST	D.C.	11-09-12
0	ISSUE FOR CONSTRUCTION	D.M.	24-08-12
rev.	Issue Description	Author	Date
If. DIN 6771 Teil 5 1		2	

SABIZ PLANT



TERMINAL BLOCK

THR: 25332-CC09-E020A

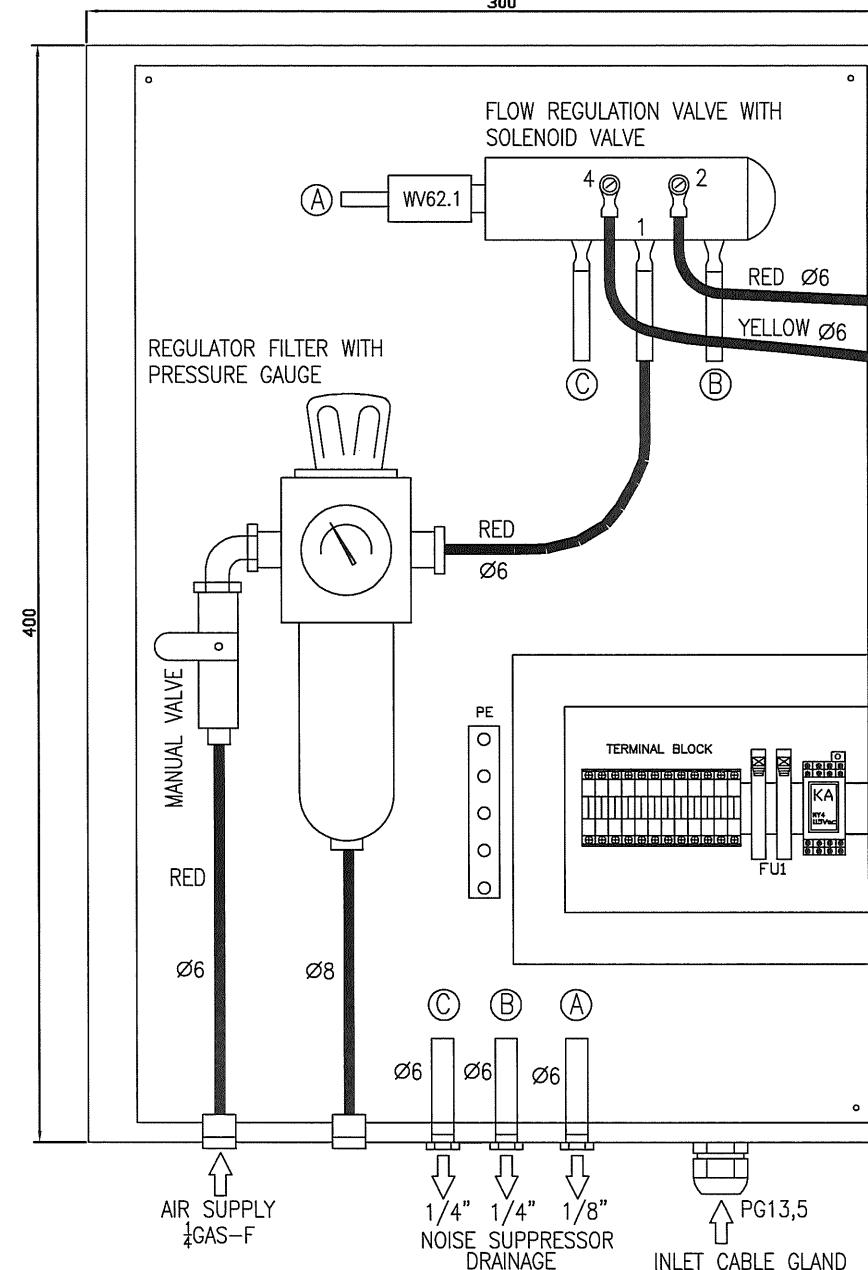
= KC-62.11

JOB : 2F11 dwg. 2F11-85-082

sheet 21
22 n.sh

1 2 3 4 5 6 7 8

300



400

SABIZ PLANT



INTERNAL VIEW

drawing's title:

THR: 25332-CC09-E021A

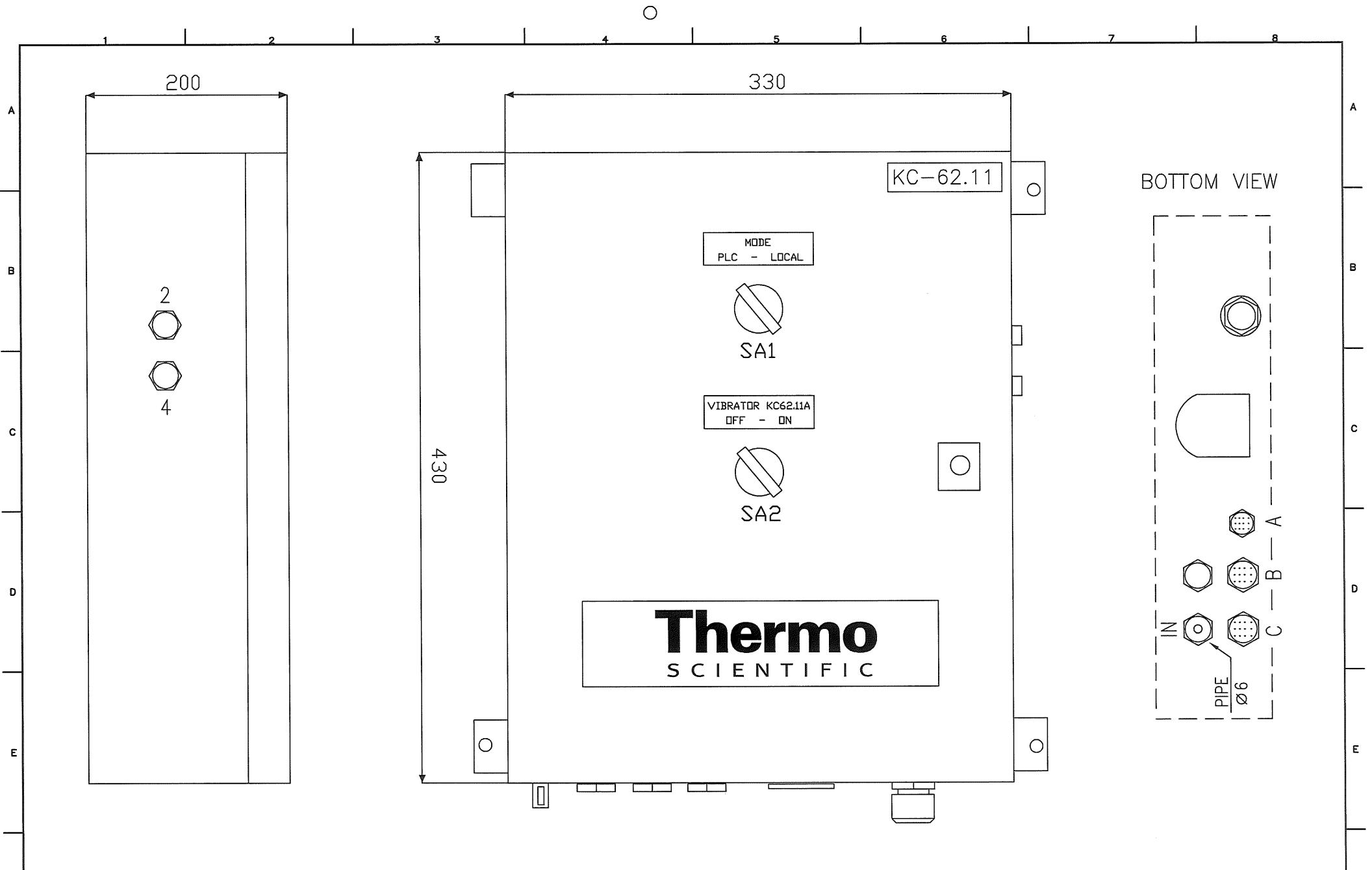
= KC-62.11
+.

JOB : 2F11 dwg. 2F11-85-082

sheet 22
23 n.sh

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UNI A3	1	UPDATE AFTER TEST	D.C.	11-09-12
	0	ISSUE FOR CONSTRUCTION	D.M.	24-08-12
rev.	Issue Description	Author	Date	



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1	UPDATE AFTER TEST	D.C.	11-09-12
0	ISSUE FOR CONSTRUCTION	D.M.	24-08-12
rev.	Issue Description	Author	Date

SABIZ PLANT



EXTERNAL VIEW
drawing's title:

THR: 25332-CC09-E022A

= KC-62.11
+.

JOB : 2F11 dwg. 2F11-85-082

sheet 23
24 n.sh

PNEUMATIC BOX KC-62.11 - EQUIPMENT LIST					SCHEMATIC WIRING DIAGRAM								
					CODE	EQUIPMENT DESCRIPTION	IDENTIFICATION DATA	MANUFACT.	Q.TY	ID TAG	UTILITIES TAG	CUBICLE	LABEL
-	FILTER & REGULATOR GROUP 1/4"	LFR-1/4-D-MINI - 159631	FESTO	1									
-	FILTER & REG.GROUP - FIXING	HR-D-MINI - 164939	FESTO	1									
-	UNIDIRECT. FLOW REGULATION	GRLA-1/4-QS-6-D - 193146	FESTO	2									
-	SOLENOID VALVE 1/4 3WAY- BODY	55102005	JOUCOMATIC (Ballestra Supply)	1									
	SOLENOID VALVE - 110VAC BOBBIN												
-	SOLENOID VALVE - CONNECTOR												
-	MANUAL VALVE			1									
-	FITTINGS 1/4 PASS THROUGH			1									
-	NOISE SUPPRESSOR DRAINAGE 1/4"			2									
-	NOISER SUPPRESSOR DRAINAGE 1/8"			1									
SA1, SA2	SELECTOR SWITCH 2 POSITION	3SB3500-2KA11	SIEMENS	2									
SA1, SA2	CONTACT 1 NO	3SB3400-0B	SIEMENS	2									
KASA1	RELAY 4 CONTACT	MY4 (110VAC)	SIEMENS	1									
KASA1	SOCKET FOR RELAY	PYF14AN	SIEMENS	1									
FU1	FUSE TERMINAL		SIEMENS	2									
FU1	FUSE 5x20 Fb - 2A		SIEMENS	2									
XT	TERMINAL 4 mmq		SIEMENS	11									
XT	GROUND TERMINAL 4 mmq		SIEMENS	1									
WKP-62.2	JUNCTION BOX (IP66) Dimensions 430(h) x 330(w) x 200(d)	NSY PLM43	SCHNEIDER	1									

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 25332-CC09-E023A	Drawing supplier	Rev. 1	Plant SABIZ							
 2F11-85-082	Drawing	Sheet 24	Drawing's title EQUIPMENT LIST	1	UPDATE AFTER TEST	DC	11/09/2012			
				0	ISSUE FOR CONSTRUCTION	DM	24/08/2012			
Revision				Issue description		Author	Date			
Next -										