

JOB: 2F11

SABIZ PLANT

DOSING BELTS SYSTEM

ITEM: 64WG2 & 64V9

DESMET BALLESTRA SUPPLY

LOCAL CONTROL PANEL: KC-64WG2

FEEDER CONTROL UNIT: WIC-64.2

LEVEL CONTROL UNIT: KC-64V9

PNEUMATIC BOX: WKP-64WG2

ELECTRICAL & PNEUMATICAL DOCUMENTATION

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

Thermo SCIENTIFIC <small>Thermo Ramsey Italia S.r.l.-Strada Rivalta 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-CC01-E001A	Rev. 1					
	Drawing 2F11-85-084	Sheets 1 of 24					
Plant	SABIZ		1	UPDATE AFTER TEST	DC	11/09/2012	
			0	ISSUE FOR CONSTRUCTION	DM	06/08/2012	
		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	BLOCK DIAGRAM	x	x		
004	KC-64WG2 - WIRING DIAGRAM	x	x		
005	KC-64WG2 - WIRING DIAGRAM	x	x		
006	KC-64WG2 - WIRING DIAGRAM	x	x		
007	KC-64WG2 - WIRING DIAGRAM	x	x		
008	KC-64WG2 - WIRING DIAGRAM	x	x		
009	KC-64WG2 - TERMINAL BLOCK	x	x		
010	KC-64WG2 - TERMINAL BLOCK	x	x		
011	KC-64WG2 - INTERCONNECTION	x	x		
012	KC-64WG2 - INTERCONNECTION	x	x		
013	KC-64WG2 - TOPOGRAPHIC VIEW	x	x		
014	KC-64WG2 - LABELS	x	x		
015	WIC-64.2 - TOPOGRAPHIC VIEW	x	x		
016	KC-64V9 - TOPOGRAPHIC VIEW	x	x		
017	KC-64WG2 - EQUIPMENT LIST	x	x		
018	KC-64WG2 - EQUIPMENT LIST	x	x		
019	WKP-64WG2 & JB-64.9 - WIRING DIAGRAM	x	x		
020	WKP-64WG2 - PNEUMATIC DIAGRAM	x	x		
021	WKP-64WG2 - INTERNAL VIEW	x	x		
022	WKP-64WG2 - EXTERNAL VIEW	x	x		
023	WKP-64WG2 - ELECTR. EQUIPMENT LIST	x	x		
024	WKP-64WG2 - PNEUM. EQUIPMENT LIST	x	x		
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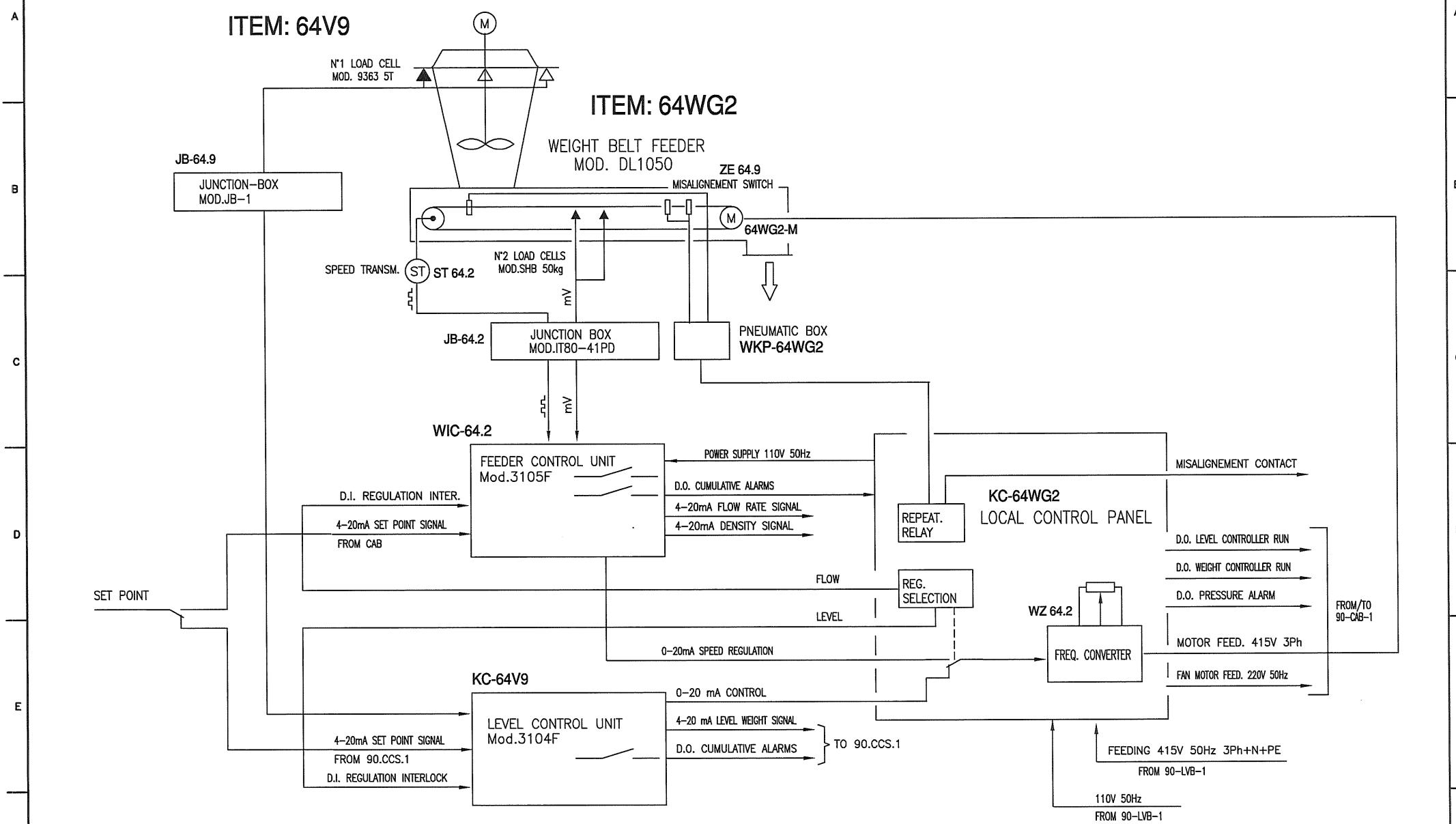
Sheet	Revisions				
	Description	0	1	2	3
046					
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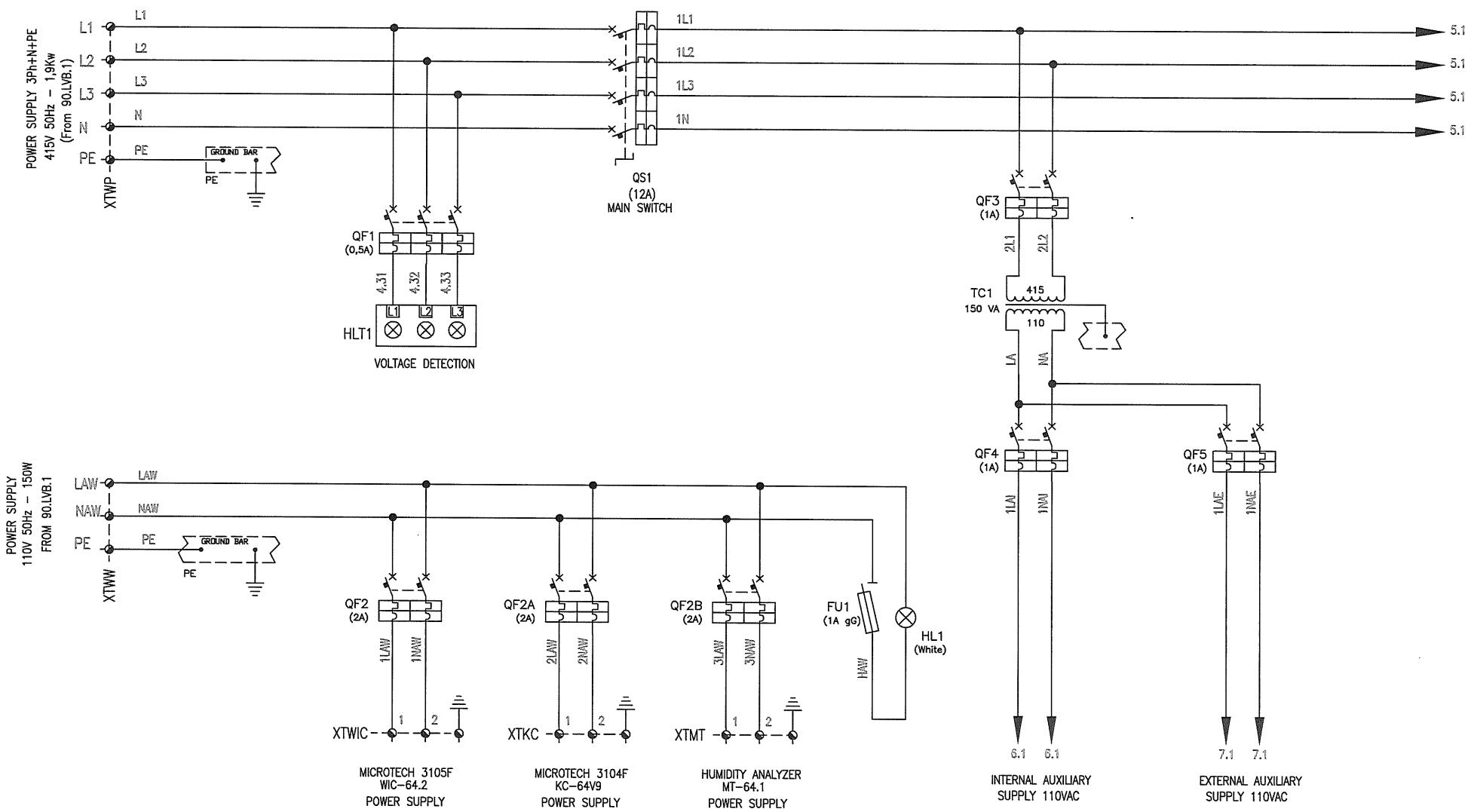
	Drawing supplier 25332-CC01-E002A	Rev. 1	Plant SABIZ				
	Drawing 2F11-85-084	Sheet 2	Drawing's title INDEX	1	UPDATE AFTER TEST	DC	11/09/2012
				0	ISSUE FOR CONSTRUCTION	DM	06/08/2012
				Revision	Issue description	Author	Date

1 2 3 4 5 6 7 8



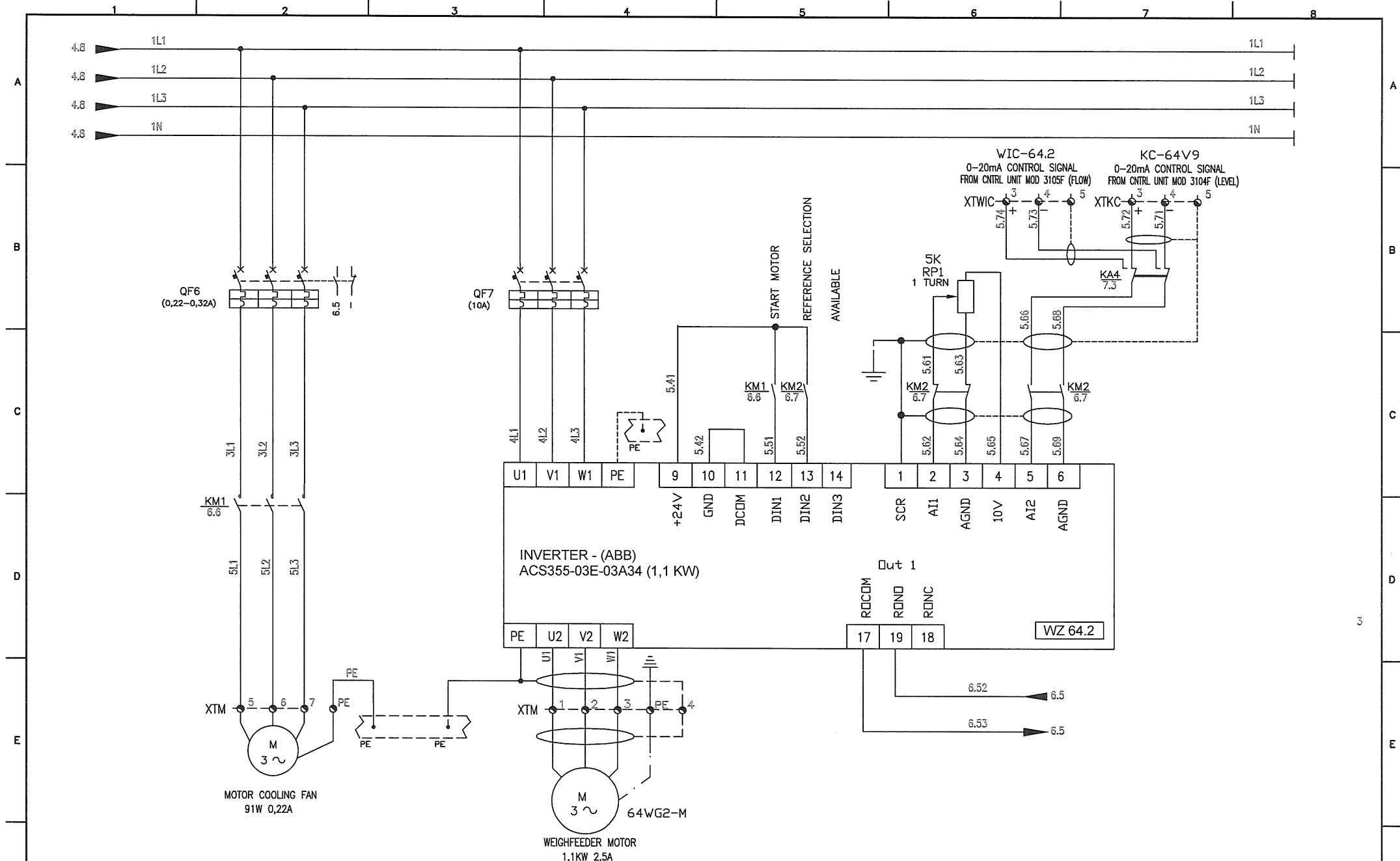
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UNI A3				SABIZ PLANT		BLOCK DIAGRAM		THR: 25332-CC01-E003A		= KC-64WG2	
1	UPDATE AFTER TEST	D.C.	11-09-12							+	.
0	ISSUE FOR CONSTRUCTION	D.M.	06-08-12					JOB : 2F11	dwg. 2F11-85-084	sheet 03	n.sh



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UNI A3	1	UPDATE AFTER TEST	D.C.	11-09
	0	ISSUE FOR CONSTRUCTION	D.M.	06-08
	rev.	Issue Description	Author	Date



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rev.	Issue	Description	Author	Date
it.	DIN 6771	/Teil 5	1	2

SABIZ PLANT



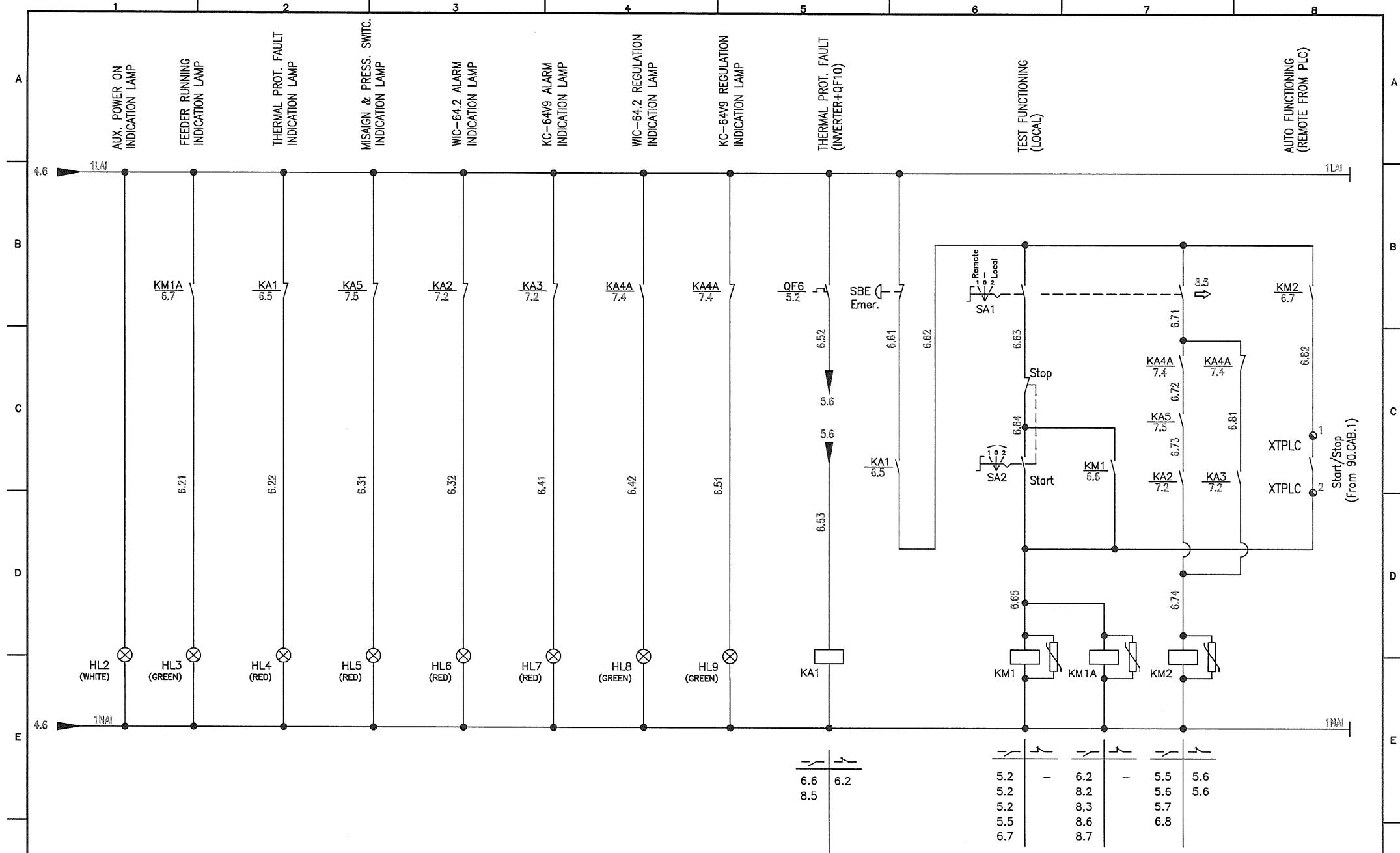
WIRING DIAGRAM

THR: 25332-CC01-E005

= KC-64WG2

JOB : 2F11

sheet 05



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1	UPDATE AFTER TEST	D.C.	11-09-12
0	ISSUE FOR CONSTRUCTION	D.M.	06-08-12
rev.	Issue Description	Author	Date

SABIZ PLANT



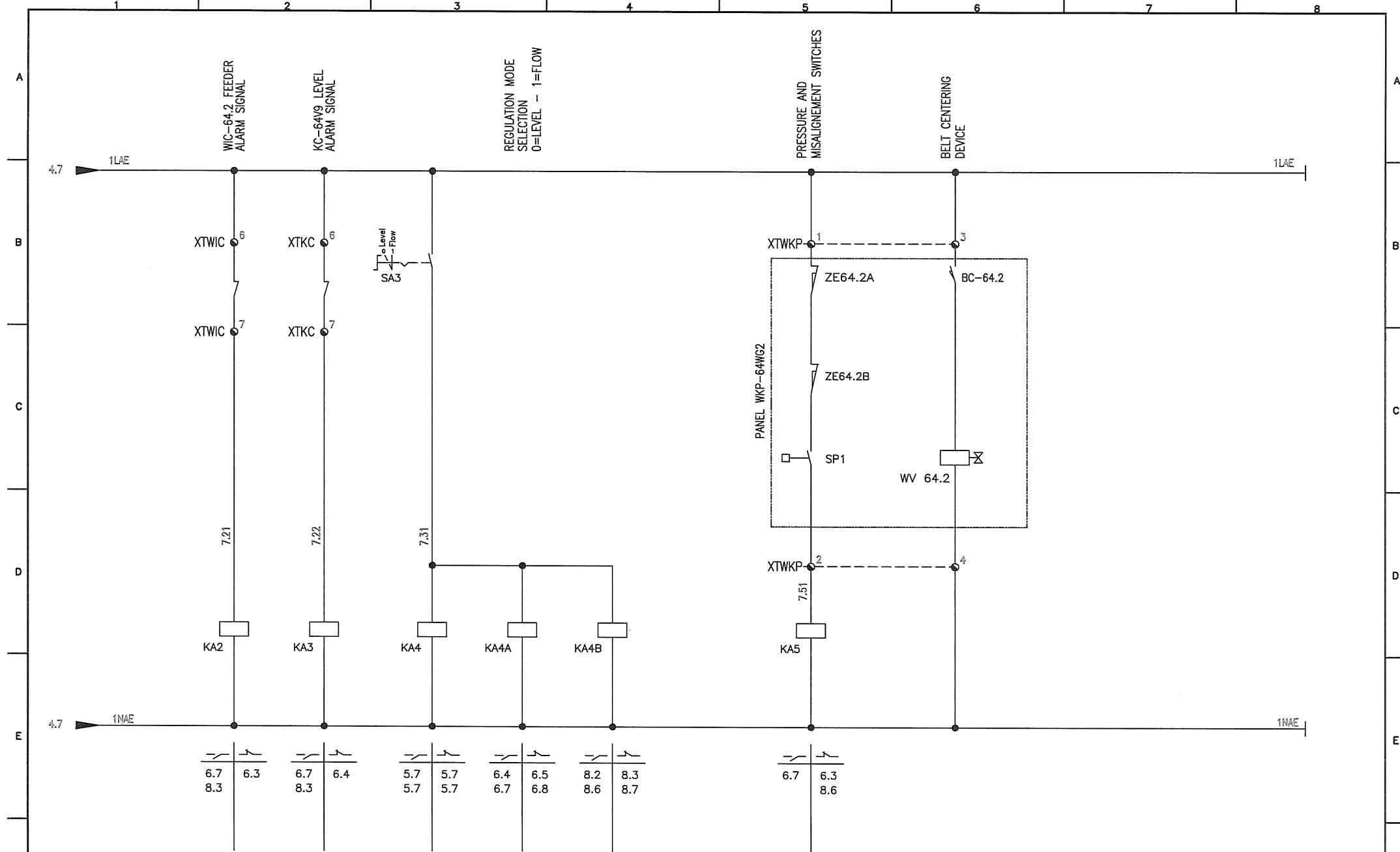
WIRING DIAGRAM
drawing's title:

THR: 25332-CC01-E006A
JOB : 2F11
dwg. 2F11-85-084

AUTO FUNCTIONING (REMOTE FROM PLC)

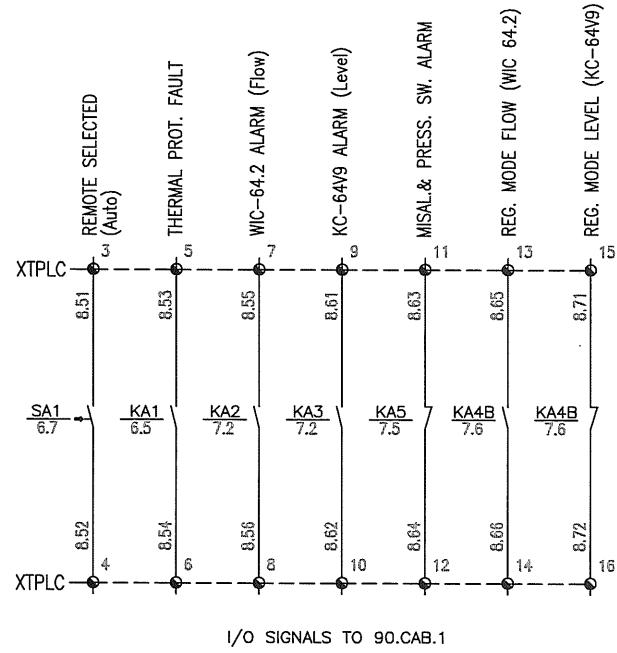
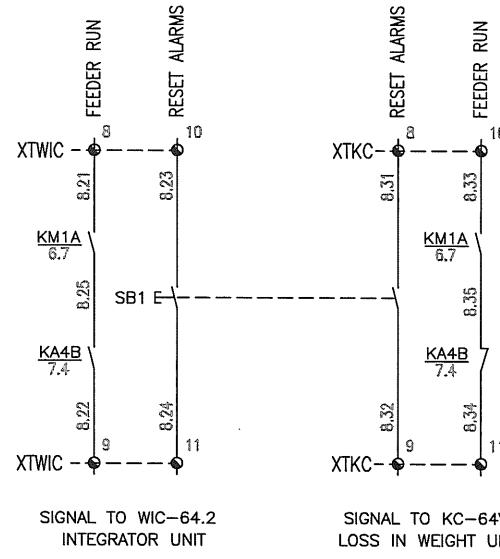
Start/Stop (From 90.CAB.1)

sheet 06
07 n.sh



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UNI A3				SABIZ PLANT				WIRING DIAGRAM				THR: 25332-CC01-E007A			
1	UPDATE AFTER TEST	D.C.	11-09-12										KC-64WG2		
0	ISSUE FOR CONSTRUCTION	D.M.	06-08-12										+		
rev.	Issue Description	Author	Date										JOB : 2F11	dwg. 2F11-85-084	sheet 07 08 n.sh



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rev.	Issue Description	Author	Date	

It. DIN 6771/Teil 5 1

SABIZ PLANT



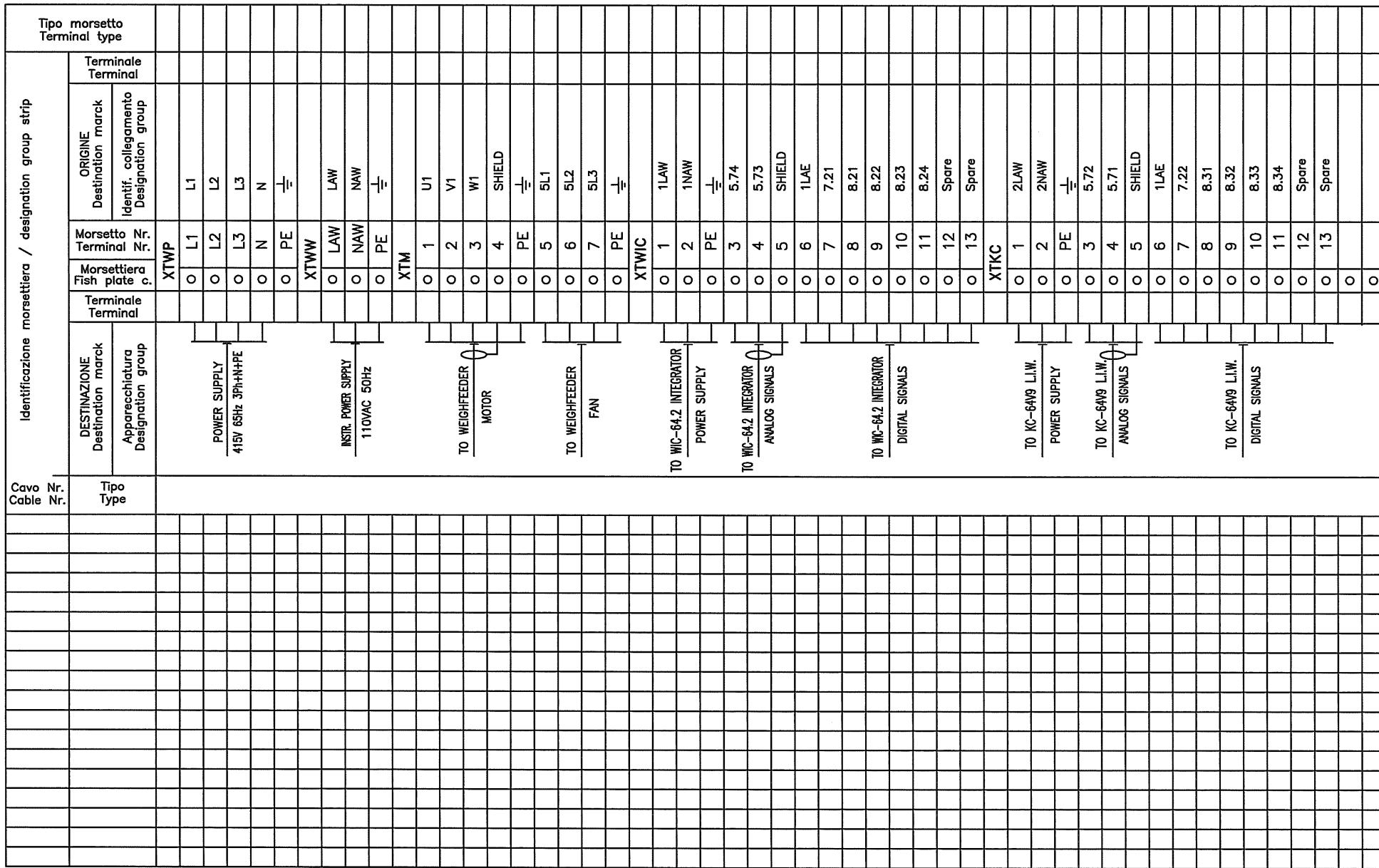
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drawing's title:

THR: 25332-CC01-E008A

= KC-64WG2
+ .

JOB : 2F11 dwg. 2F11-85-084

sheet 08
09 n.sh



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UNI A3	1	UPDATE AFTER TEST	D.C.	11-09-12
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SABIZ PLANT



TERMINAL BLOCK

THR: 25332-CC01-E009A

= KC-64WG2

10 of 10

JOB : 2F11 2F11-85-084

sheet 09
10 n.sh

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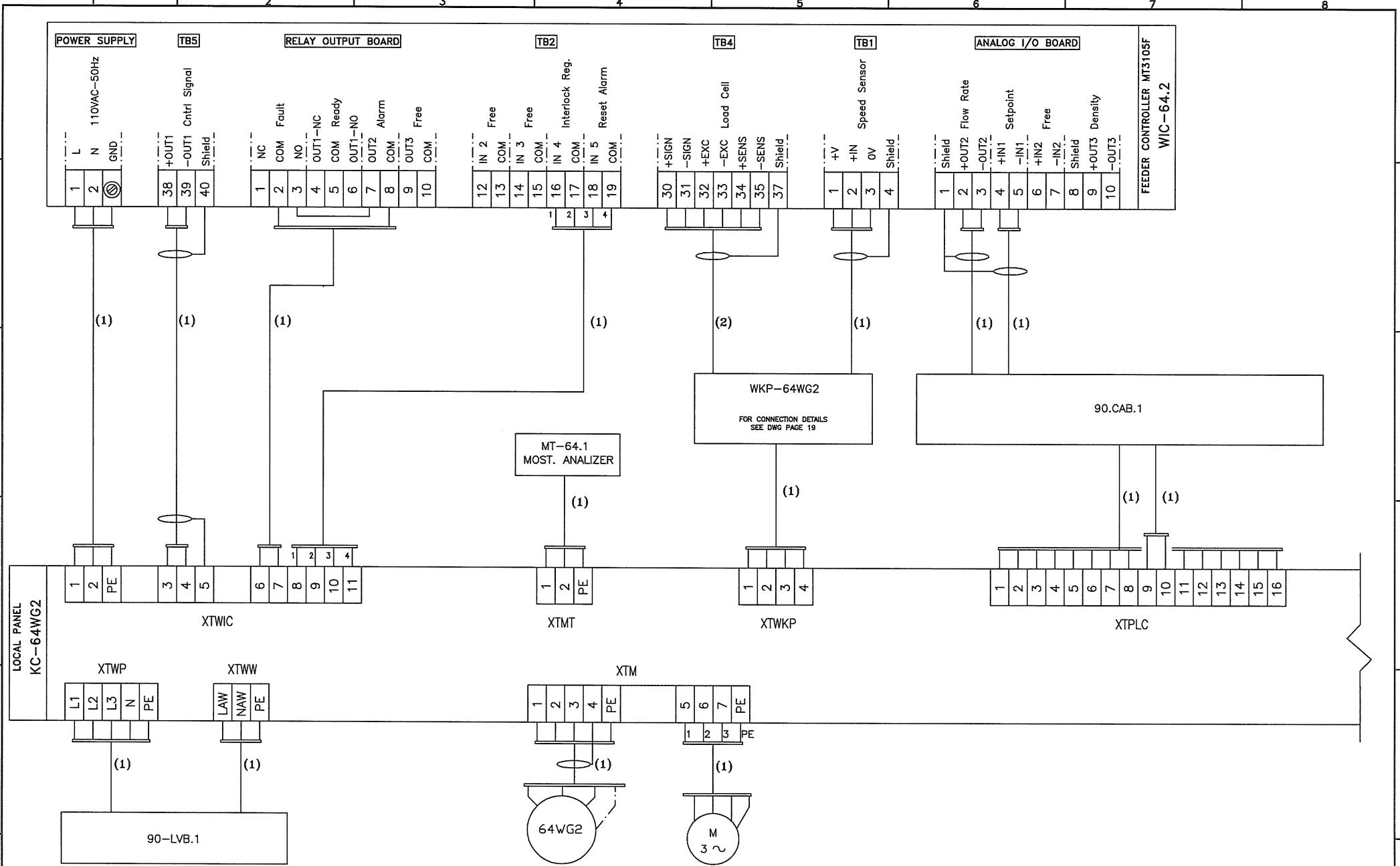
UNI A3	1	UPDATE AFTER TEST	D.C.	11-09-12
	0	ISSUE FOR CONSTRUCTION	D.M.	06-08-12
	rev.	Issue	Description	Author
It. DIN 6771/Teil 5	1			2

SABIZ PLANT



TERMINAL BLOCK

THR: 25332-CC01-E010A = KC-64WG2
+ .
JOB : 2F11 dwg. 2F11-85-084 sheet 10
6 7 8 9 11 n.sh



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(1) Cable supply by Ballestra (2) Cable supply by Ramsey

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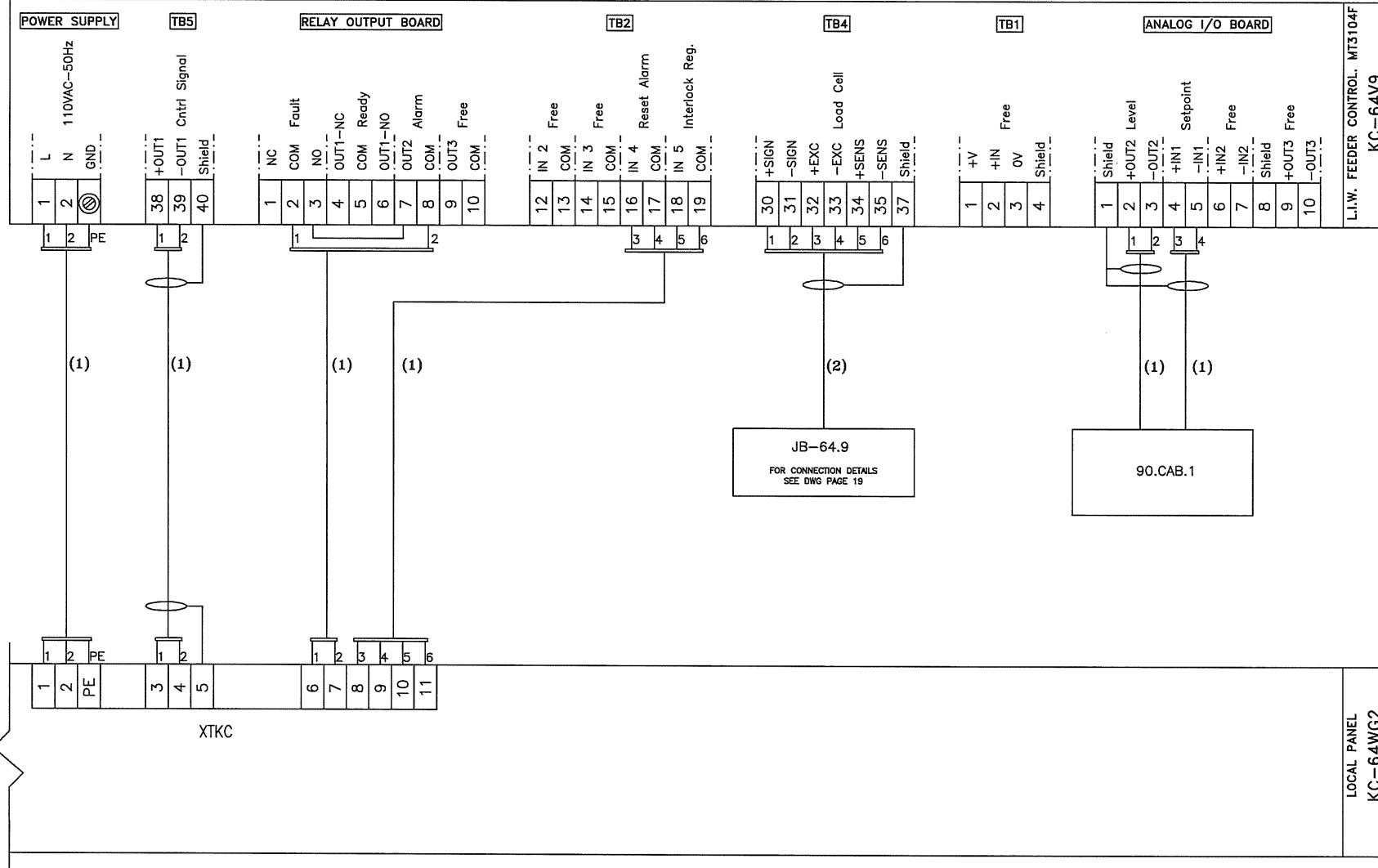
SABIZ PLANT



INTERCONNECTION
drawing's title:
THR: 25332-CC01-E011A

JOB : 2F11 dwg. 2F11-85-084

sheet 11
12 n.sh



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(1) Cable supply by Ballestra (2) Cable supply by Ramsey

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SABIZ PLANT

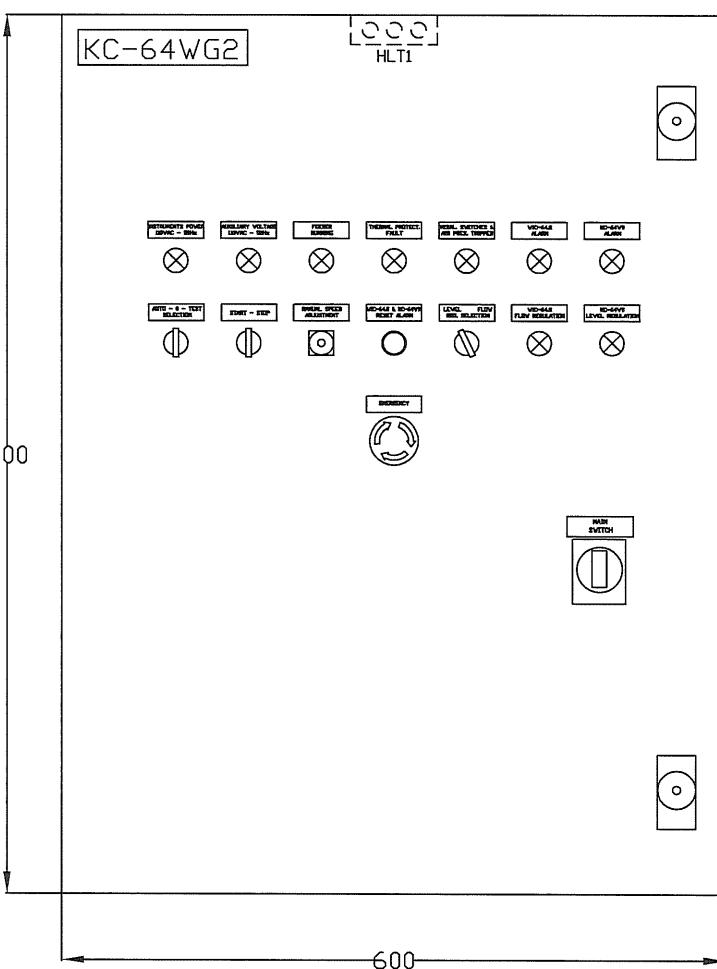


INTERCONNECTION
drawing's title:

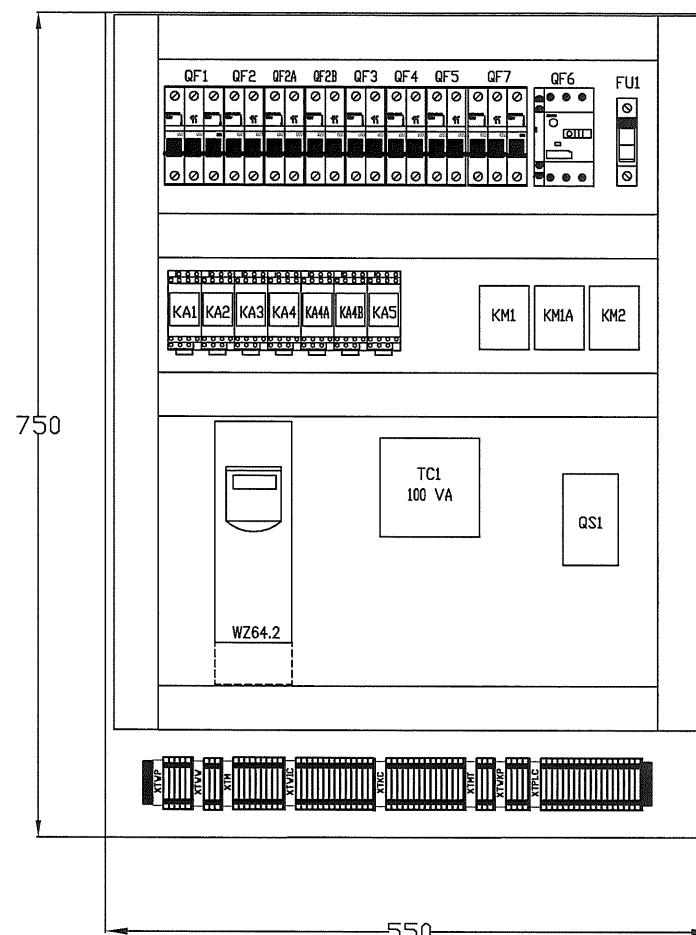
THR: 25332-CC01-E012A	= KC-64WG2
+	.
JOB : 2F11	dwg. 2F11-85-084
sheet 12	13 n.sh

1 2 3 4 5 6 7 8

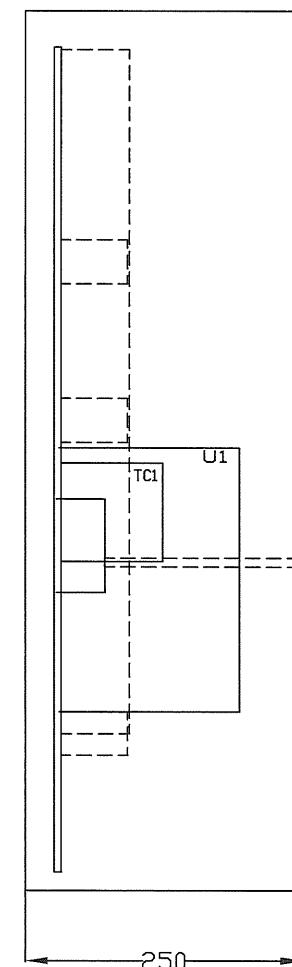
EXTERNAL VIEW



INTERNAL VIEW



SIDE VIEW



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SABIZ PLANT



TOPOGRAPHIC VIEW
drawing's title:

THR: 25332-CC01-E013A

= KC-64WG2

+

084

JOB : 2F11 2F11-85-084

1

1

Item	Description	Author	Date
It. DIN 6771/Teil 5	1		2

1 2 3 4 5 6 7 8

A

A

B

B

INSTRUMENTS POWER
110VAC - 50Hz

AUXILIARY VOLTAGE
110VAC - 50Hz

FEEDER
RUNNING

THERMAL PROTECT.
FAULT

MISAL. SWITCHES &
AIR PRES. TRIPPED

WIC-64.2
ALARM

KC-64V9
ALARM



HL1



HL2



HL3



HL4



HL5



HL6



HL7

AUTO - 0 - TEST
SELECTION

START - STOP

MANUAL SPEED
ADJUSTMENT

WIC-64.2 & KC-64V9
RESET ALARM

LEVEL FLOW
REG. SELECTION

WIC-64.2
FLOW REGULATION

KC-64V9
LEVEL REGULATION



SA1



SA2



RP1



SB1



SA3

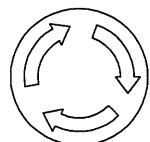


HL8



HL9

EMERGENCY



SBE

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SABIZ PLANT



LABELS

drawing's title:

THR: 25332-CC01-E014A

= KC-64WG2
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JOB : 2F11 dwg. 2F11-85-084

sheet 14
15 n.sh

It. DIN 6771/Tell 5 1

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1 2 3 4 5 6 7 8

A

A

B

B

C

C

D

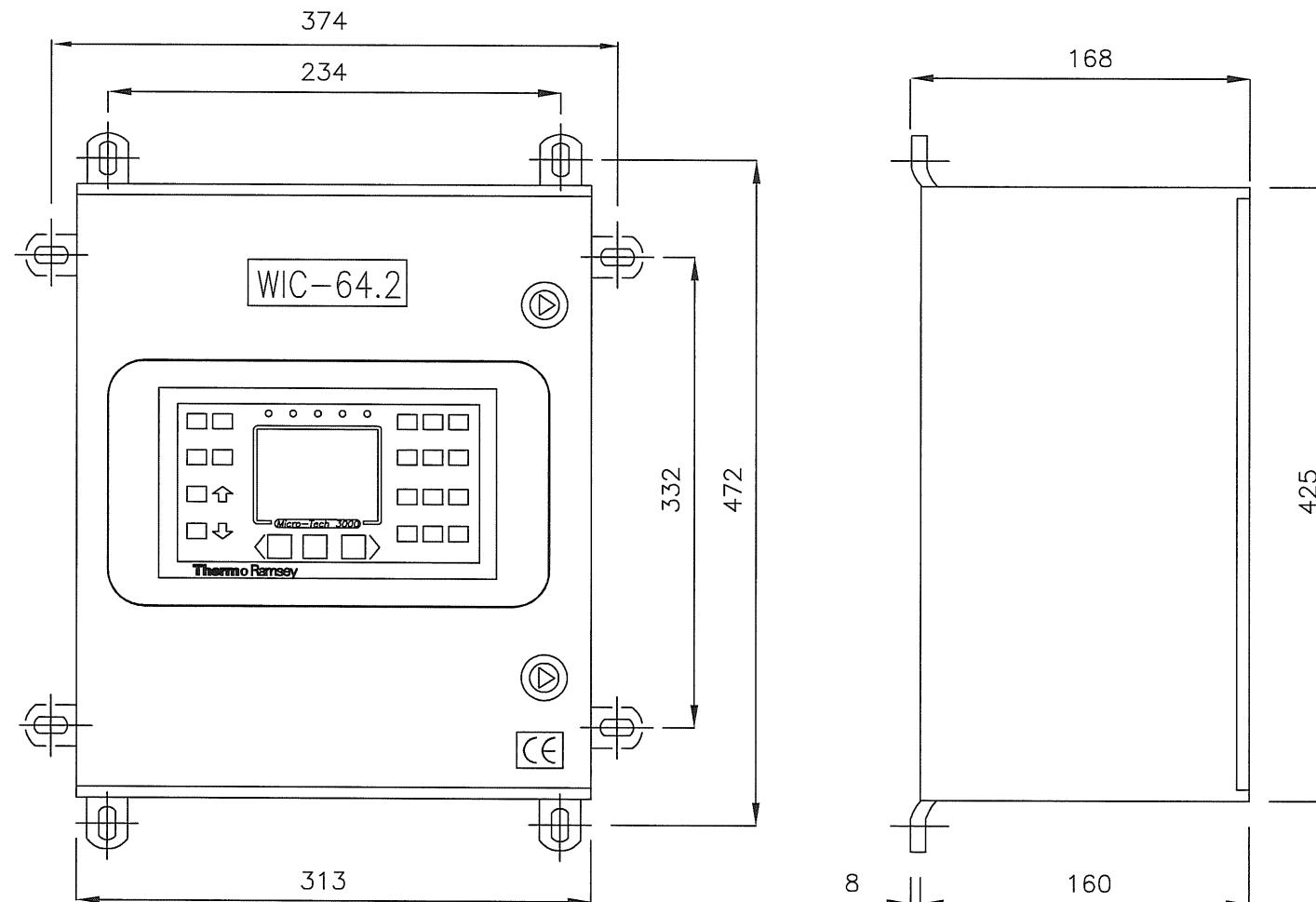
D

E

E

F

F



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	0	ISSUE FOR CONSTRUCTION	D.M.	06-08-12	
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It. DIN 6771/Teil 5	1				

SABIZ PLANT



WIC-64.2
TOPOGRAPHIC VIEW
drawing's title:

THR: 25332-CC01-E015A = WIC-64.2

+ .

JOB : 2F11 dwg. 2F11-85-084

sheet 15

16 n.sh

1 2 3 4 5 6 7 8

A

A

B

B

C

C

D

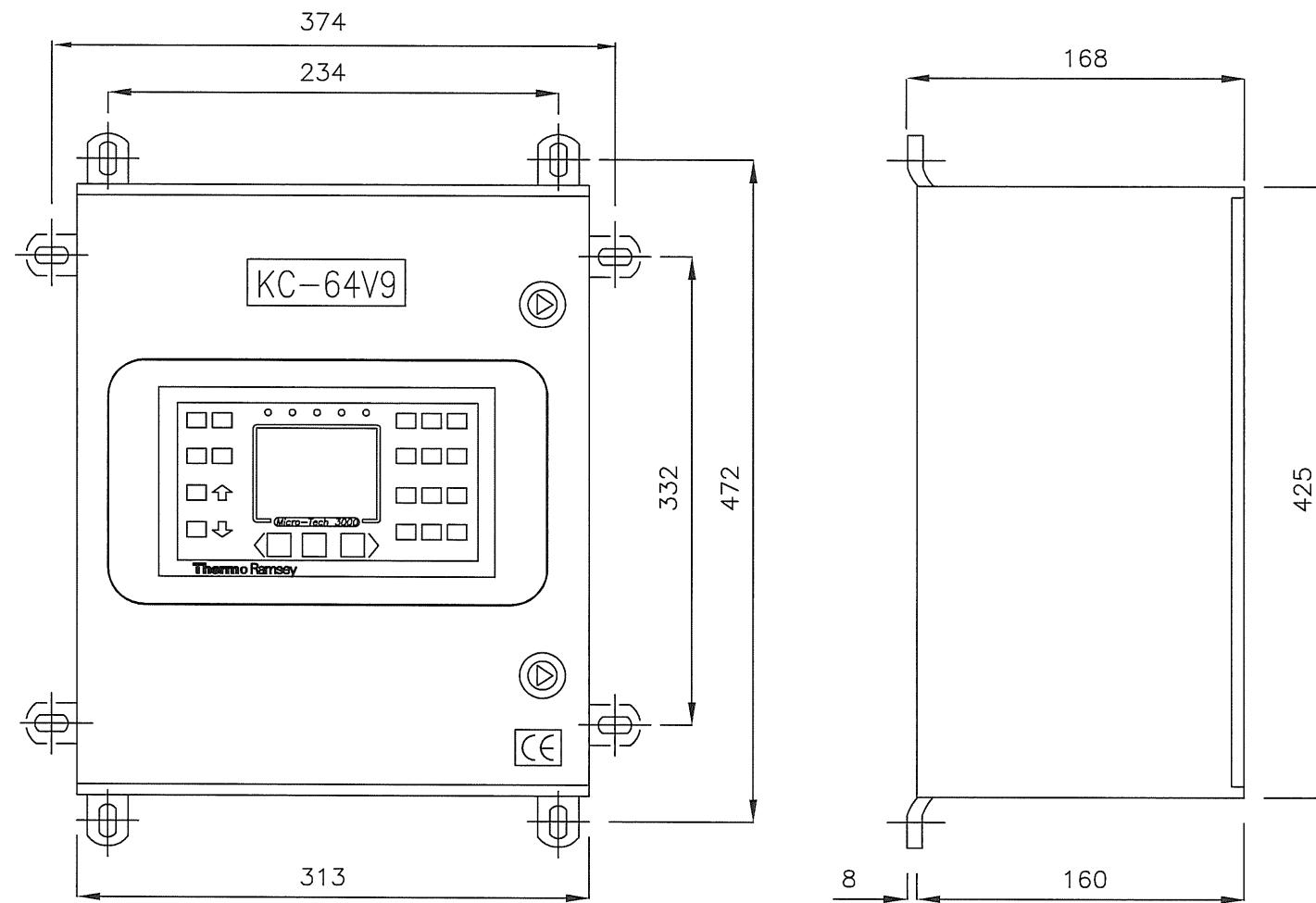
D

E

E

F

F



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SABIZ PLANT

It. DIN 6771/Tell 5 1



KC-64V9
TOPOGRAPHIC VIEW
drawing's title:

THR: 25332-CC01-E016A

KC-64V9
+.

JOB : 2F11 dwg. 2F11-85-084

sheet 16
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 4,5/6,3A 1L+1R	3RV1011-1GA15	SIEMENS	1					
QS1	DOOR LOCK ACCESSORIES	3RV1926-0K	SIEMENS	1					
HLT1	VOLTAGE DETECTION INDICATION LAMP DSL3	050ASL500	ELFIN	1					
QF1	MAGNETHERMAL SWITCH 3 POLE (0,5A) - "C" CURVE	5SY6 305-7	SIEMENS	1					
QF2, QF2A, QF2B	MAGNETHERMAL SWITCH 2 POLE (2A) - "C" CURVE	5SY6 202-7	SIEMENS	3					
QF3, QF4, QF5	MAGNETHERMAL SWITCH 2 POLE (2A) - "C" CURVE	5SY6 101-7	SIEMENS	3					
QF6	MAGNETHERMAL SWITCH 0,22-0,32A 1L+1R	3RV1011-ODA15	SIEMENS	1					
QF7	MAGNETHERMAL SWITCH 3 POLE (10A) - "C" CURVE	5SY4 310-7KK11	SIEMENS	1					
F1	FUSEHOLDER 1P	3NW7011	SIEMENS	1					
TC1	SAFETY AND INSULATION TRANSFORMER 150 VA	Primary:400-415 VAC Secondary : 110 VAC	MG	1					
WZ 64.2	INVERTER ABB 1,1 Kw	ACS355-03E03A3-4	ABB	1					
WZ 64.2	BASIC CONTROL PANEL ACS-CP-C	J404	ABB	1					
KM1, 1A, KM2	CONTACTOR 110VAC - 3+1NO	3RT10 16-1AF01	SIEMENS	3					
KM1, 1A, KM2	VARISTOR FOR CONTACTOR	3RT1916-1JK00	SIEMENS	3					
KM1, 1A	AUXILIARY CONTACT S00 4NO	3RH1911-1FA40	SIEMENS	2					
KM2	AUXILIARY CONTACT S00 2NO+2NC	3RH1911-1FA22	SIEMENS	1					
KA1,2,3,4, K4A,4B,5	RELAY 4 CONTACT WITH SURGE SUPPRESSION	MY4N-CR (110VAC)	OMRON	7					
KA1,2,3,4, K4A,4B,5	SOCKET FOR RELAY	PYF14AN	OMRON	7					

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	Drawing supplier 25332-CC01-E017A	Rev. 1	Plant SABIZ				
	Drawing 2F11-85-084	Sheet 17	Drawing's title EQUIPMENT LIST	1	UPDATE AFTER TEST	DC	11/09/2012
		Next 18		0	ISSUE FOR CONSTRUCTION	DM	06/08/2012
			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.
RP1	OPERATOR FOR POTENTIOMETER	CEP9MZ	CEMA	1					
RP1	POTENTIOMETER SINGLE TURN	5 KOhm	SBC	1					
SA1	SELECTOR SW. 3 Position BLACK	3SB3500-2SA11	SIEMENS	1					
SA2	SELECTOR SW. 2 Position BLACK SPRING RETURN	3SB3500-2EA11	SIEMENS	1					
SA3	SELECTOR SW. 2 Position BLACK	3SB3500-2KA11	SIEMENS	1					
SBE	EMERGENCY PLUNGER WITH MECHANICAL LOCK	3SB3500-1HA20	SIEMENS	1					
SB1	PUSHBUTTON BLACK	3SB3500-0AA11	SIEMENS	1					
SA1, SA2, SA3, SB1	CONTACT 1 NO	3SB3400-0B	SIEMENS	7					
SBE, SA2	CONTACT 1 NC	3SB3400-0C	SIEMENS	2					
HL1, HL2	LAMP WHITE	3SB3604-6AB60	SIEMENS	2					
HL3, HL8, HL9	LAMP GREEN	3SB3604-6AB40	SIEMENS	3					
HL4..7	LAMP RED	3SB3604-6AB20	SIEMENS	4					
HL1...9	LAMP BA9s - 110VAC 2W		SIEMENS	9					
XT..	TERMINAL 4 mmq		SIEMENS	63					
XT..	GROUND TERMINAL 4 mmq		SIEMENS	7					
-	SET OF LABELS	DWG. 2F11-85-084 Sheet 14	-	1					
KC-64WG2	CABINET 800(H)x600(W)x250(D)	NSYS 3D8625P	SCHNEIDER	1					

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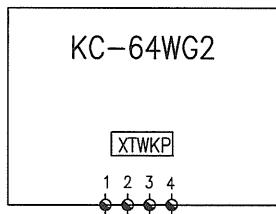
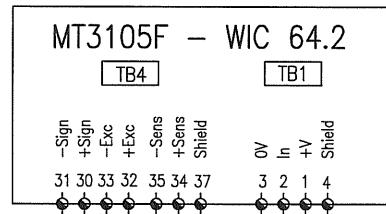
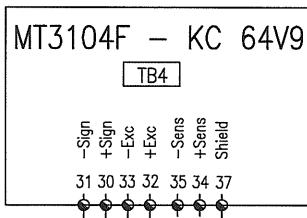
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	Drawing supplier 25332-CC01-E018A	Rev. 1	Plant SABIZ								
	Drawing 2F11-85-084	Sheet 18	Drawing's title EQUIPMENT LIST	1	UPDATE AFTER TEST	DC	11/09/2012				
				0	ISSUE FOR CONSTRUCTION	DM	06/08/2012				
Revision				Issue description		Author	Date				
Next 19											

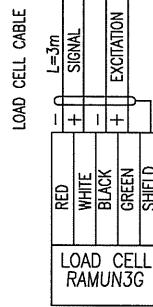
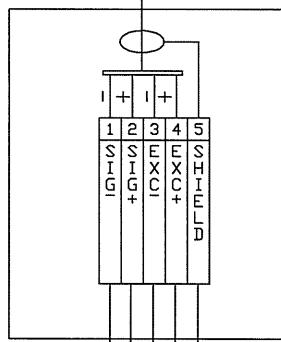
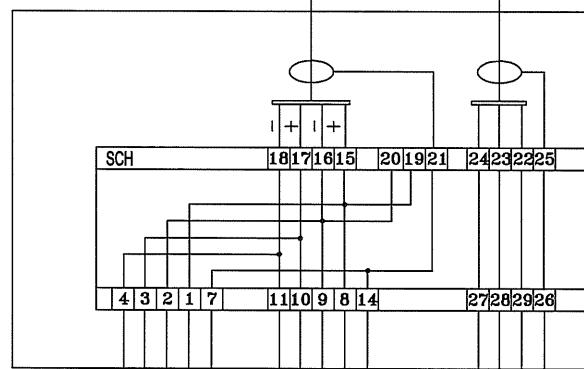
1 2 3 4 5 6 7 8

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JB-64.9

LOAD CELL
LE-64.9

LOAD CELL CABLE

L=3m

SIGNAL

EXCITATION

RED

WHITE

BLACK

GREEN

SHIELD

LOAD CELL RAM FLM11

LOAD CELL CABLE

L=3m

SIGNAL

EXCITATION

RED

WHITE

BLACK

GREEN

SHIELD

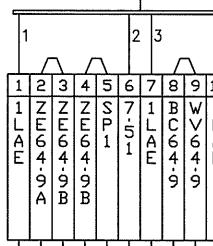
LOAD CELL RAM FLM11

LOAD CELL WE-64.2A

LOAD CELL WE-64.2B

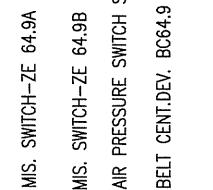
SPEED SENSOR ST-64.2

MOD. ZGC59C15



WPK-64WG2

BELT CENT. DEV. VALVE



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(1) Cable supply by Ballestra
(2) Cable supply by Ramsey

UNI A3	UPDATE AFTER TEST	D.C.	11-09-12
0	ISSUE FOR CONSTRUCTION	D.M.	06-08-12
rev.	Issue Description	Author	Date

SABIZ PLANT



WPK-64WG2 & JB-64.9
ELECTRICAL AND PNEUMATIC
JUNCTION BOXES
drawing's title:

THR: 25332-CC01-E019A

JOB : 2F11 dwg. 2F11-85-084

sheet 19
20 n.sh

1 2 3 4 5 6 7 8

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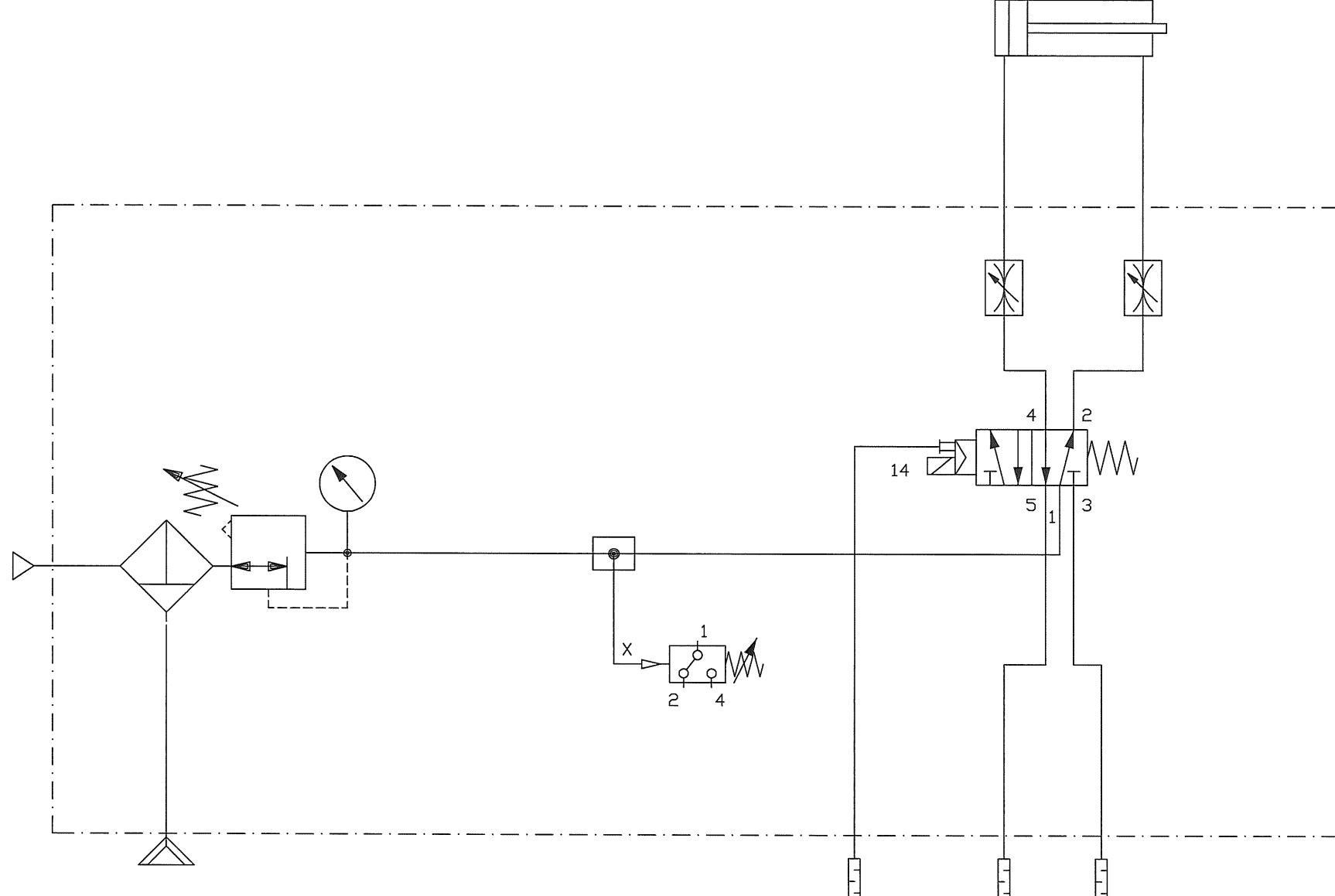
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UNI A3	1	UPDATE AFTER TEST	D.C.	11-09-2012
	0	ISSUE FOR CONSTRUCTION	D.M.	06-08-2012
rev.	Issue Description	Author	Date	
It. DIN 6771/Teil 5	1	2	3	4

SABIZ PLANT



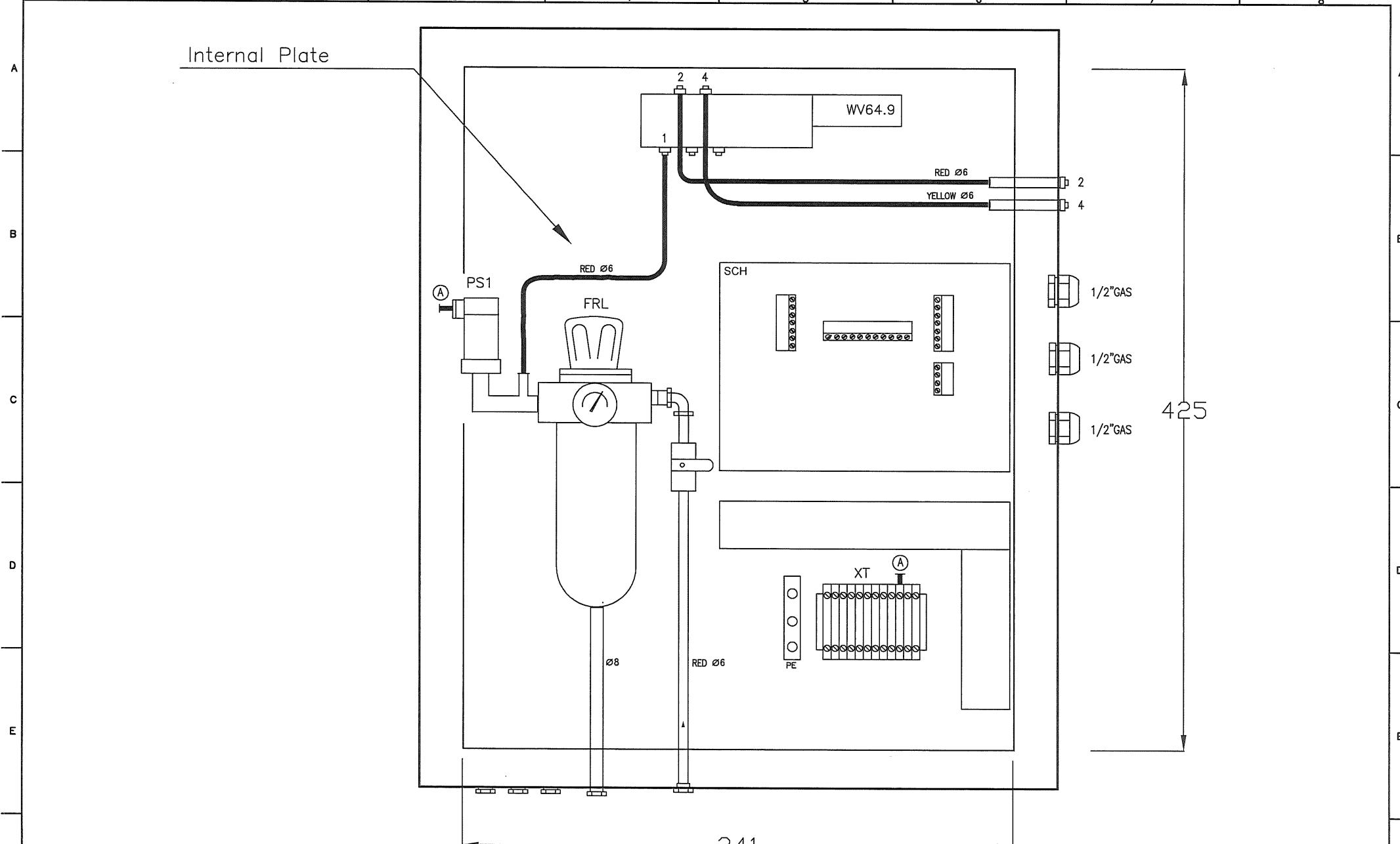
WKP-64WG2
ELECTRICAL AND PNEUMATIC
JUNCTION BOX
drawing's title:

THR: 25332-CC01-E020A

JOB : 2F11 dwg. 2F11-85-084

sheet 20
21 n.sh

1 2 3 4 5 6 7 8



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A3	1	UPDATE AFTER TEST	DC	11-09-2012	SABIZ PLANT		WKP-64WG2 INTERNAL VIEW FOR PNEUMATIC BOX drawing's title:	THR: 25332-CC01-E021A	= -
UNI	0	ISSUE FOR CONSTRUCTION	DM	06-08-2012				JOB : 2F11	+
rev.	Issue Description	Author	Date					dwg. 2F11-85-084	sheet 21 22 n.sh
It. DIN 6771/Teil 5 1	2	3	4	5	6	7	8		

1 2 3 4 5 6 7 8

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1	UPDATE AFTER TSET	DC	11-09-2012
0	ISSUE FOR CONSTRUCTION	DM	06-08-2012
rev.	Issue Description	Author	Date
It. DIN 6771/Tell	5 1	2	3

SABIZ PLANT



WKP-64WG2
TOPOGRAPHIC VIEW FOR
PNEUMATIC BOX
drawing's title:

THR: 25332-CC01-E022A

JOB : 2F11 dwg. 2F11-85-084

sheet 22
23 n.sh

ELECTRICAL EQUIPMENT LIST

SCHEMATIC WIRING DIAGRAM

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	Drawing supplier 25332-CC01-E023A	Rev. 1	Plant SABIZ PLANT				
	Drawing 2F11-85-084	Sheet 23	Drawing's title ELECTRICAL EQUIPMENT LIST	1	UPDATE AFTER TEST	DC	11/09/2012
		Next 24		0	ISSUE FOR CONSTRUCTION	DM	06/08/2012
				Revision	Issue description	Author	Date

PNEUMATICAL EQUIPMENT LIST

SCHEMATIC WIRING DIAGRAM

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 Thermo SCIENTIFIC <small>Thermo Fisher Scientific Inc. 500 River Street, New Jersey 07098-0001</small>	Drawing supplier 25332-CC01-E024A	Rev. 1	Plant SABIZ PLANT				
 desmet ballestra	Drawing 2E50-85-084	Sheet 24	Drawing's title PNEUMATICAL EQUIPMENT LIST	1	UPDATE AFTER TEST	DC	11/09/2012
		Next -		0	ISSUE FOR CONSTRUCTION	DM	06/08/2012
				Revision	Issue description	Author	Date