

JOB: 2F11

SABIZ PLANT

DOSING BELTS SYSTEM ITEM: 64WG4

DESMET BALLESTRA SUPPLY

LOCAL CONTROL PANEL: KC-64WG4

WEIGHT CONTROLLER & TRANSMITTER UNIT: WIC-64.4

PNEUMATIC BOX: WKP-64WG4

ELECTRICAL & PNEUMATICAL DOCUMENTATION

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

| | | | | | | | |
|--|--|-------------------|-------------------|------------------------|----|------------|------|
| Thermo SCIENTIFIC <small>Thermo Ramsey Italia S.r.l.-Strada Rivellana km 5/1 - Rodengo (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-CC03-E001A | Rev. 1 | | | | | |
| | Drawing 2F11-85-088 | Sheets 1 of 22 | | | | | |
| | Plant SABIZ | | 1 | UPDATE AFTER TEST | DC | 11/09/2012 | |
| | | | 0 | ISSUE FOR CONSTRUCTION | DM | 25/07/2012 | |
| | | 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-64WG4 - WIRING DIAGRAM | x | x | | |
| 005 | KC-64WG4 - WIRING DIAGRAM | x | x | | |
| 006 | KC-64WG4 - WIRING DIAGRAM | x | x | | |
| 007 | KC-64WG4 - WIRING DIAGRAM | x | x | | |
| 008 | KC-64WG4 - WIRING DIAGRAM | x | x | | |
| 009 | KC-64WG4 - TERMINAL BLOCK | x | x | | |
| 010 | KC-64WG4 - TERMINAL BLOCK | x | x | | |
| 011 | KC-64WG4 - INTERCONNECTION | x | x | | |
| 012 | KC-64WG4 - TOPOGRAPHIC VIEW | x | x | | |
| 013 | KC-64WG4 - LABELS | x | x | | |
| 014 | WIC-64.4 - TOPOGRAPHIC VIEW | x | x | | |
| 015 | KC-64WG4 - EQUIPMENT LIST | x | x | | |
| 016 | KC-64WG4 - EQUIPMENT LIST | x | x | | |
| 017 | WKP-64WG4 - WIRING DIAGRAM | x | x | | |
| 018 | WKP-64WG4 - PNEUMATIC DIAGRAM | x | x | | |
| 019 | WKP-64WG4 - INTERNAL VIEW | x | x | | |
| 020 | WKP-64WG4 - EXTERNAL VIEW | x | x | | |
| 021 | WKP-64WG4 - ELECTR. EQUIPMENT LIST | x | x | | |
| 022 | WKP-64WG4 - PNEUM. EQUIPMENT LIST | x | x | | |
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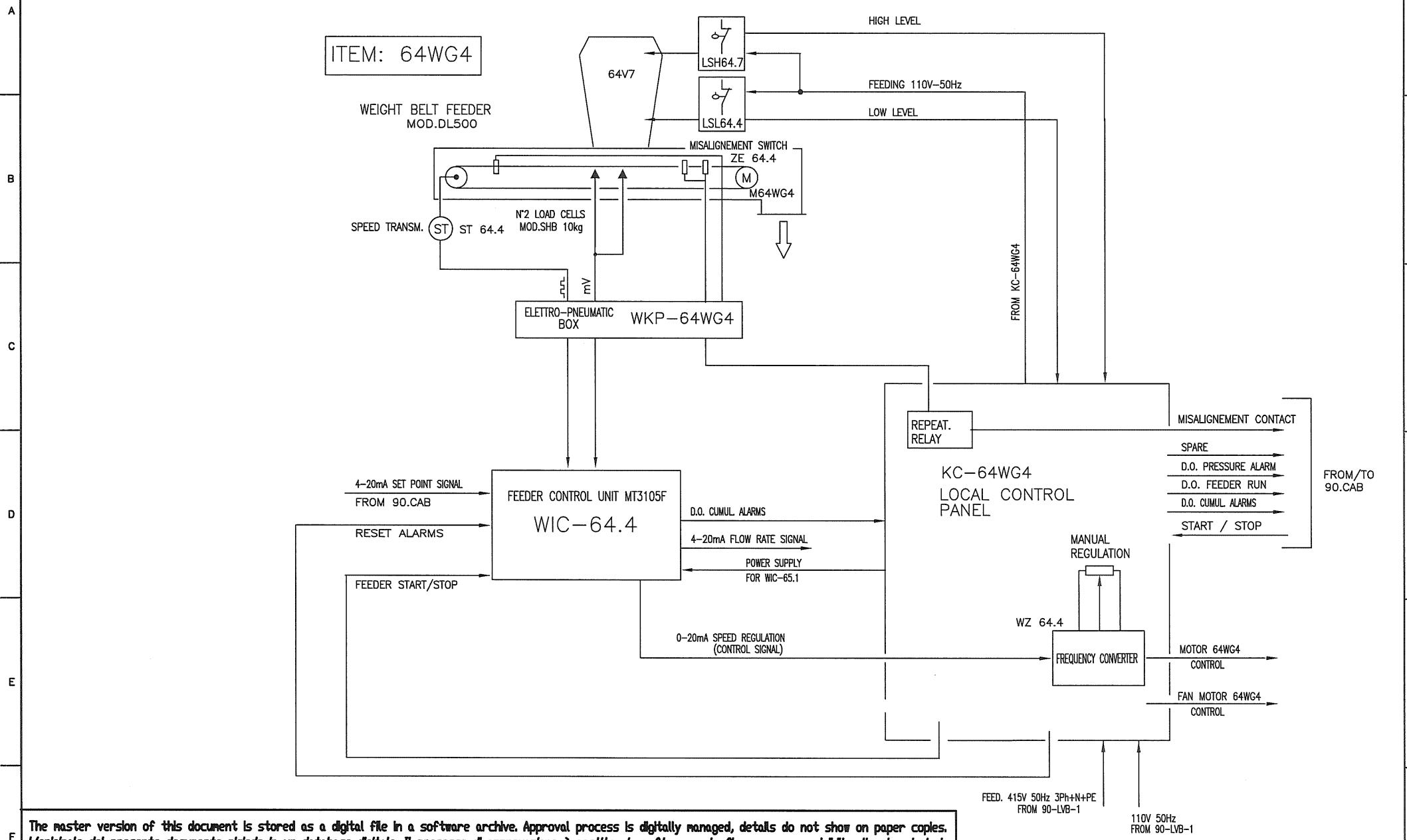
| Sheet | Revisions | | | | |
|-------|-------------|---|---|---|---|
| | Description | 0 | 1 | 2 | 3 |
| 046 | | | | | |
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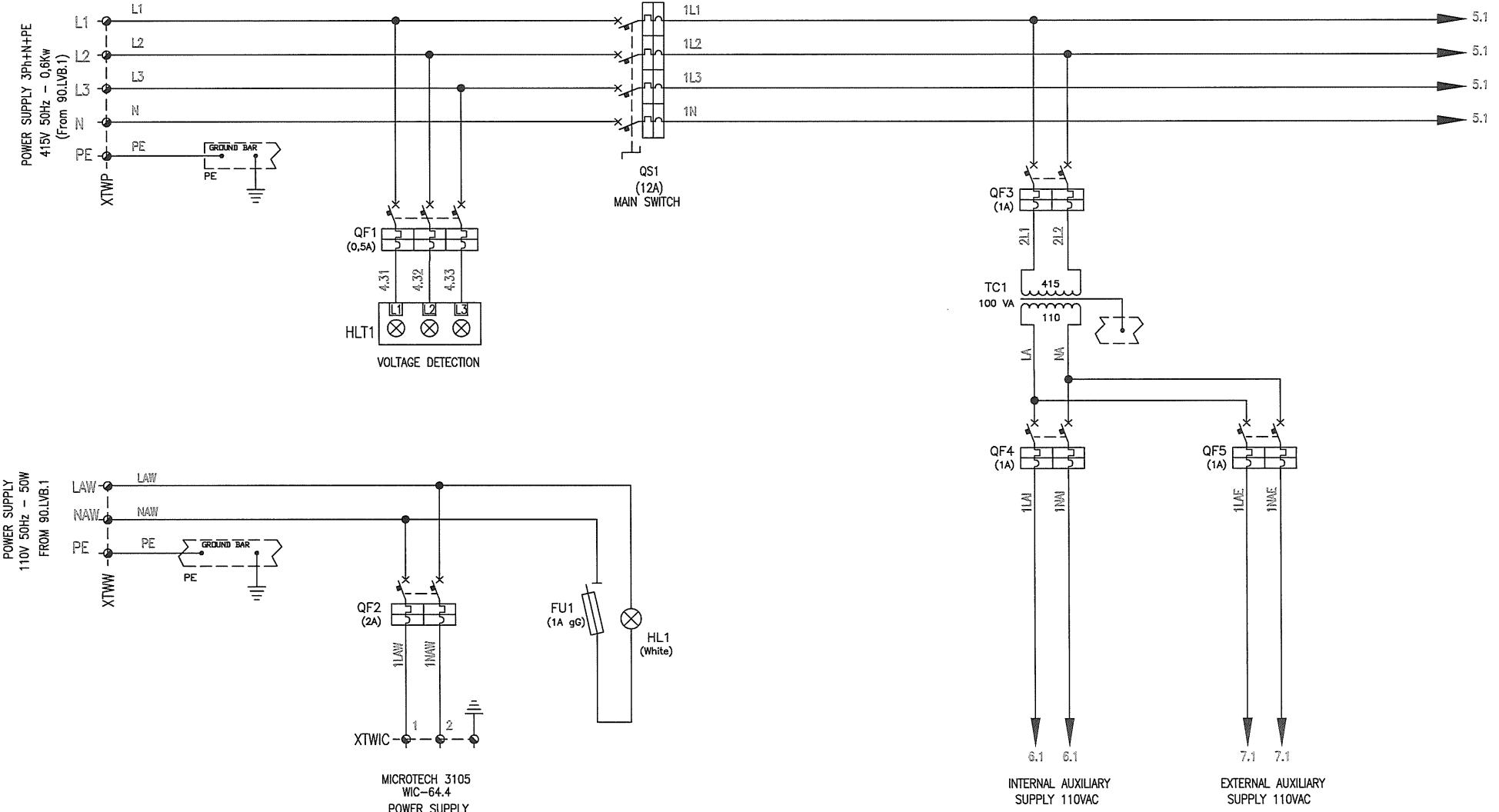
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|---|---|-------------------|---------------------------------|----------|---|----------|--------------------------|
| | Drawing supplier 25332-CC03-E002A | Rev. 1 | Plant SABIZ | | | | |
|  | Drawing 2F11-85-088 | Sheet 2 | Drawing's title INDEX | 1 0 | UPDATE AFTER TEST ISSUE FOR CONSTRUCTION | DC DM | 11/09/2012 25/07/2012 |
| | | 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-CC03-E003A | | = KC-64WG4 | |
|--------|------------------------|--------|----------|-------------|--|---------------|--|-----------------------|------------------|------------|---------|
| 1 | UPDATE AFTER TEST | D.C. | 11-09-12 | | | | | | | | + |
| 0 | ISSUE FOR CONSTRUCTION | D.M. | 25-07-12 | | | | | | | | |
| rev. | Issue Description | Author | Date | | | | | JOB : 2F11 | dwg. 2F11-85-088 | sheet 03 | 04 n.sh |



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| 0 | ISSUE FOR CONSTRUCTION | D.M. 25-07-12 |
| rev. | Issue Description | Author Date |

SABIZ PLANT



WIRING DIAGRAM
drawing's title:

THR: 25332-CC03-E004A

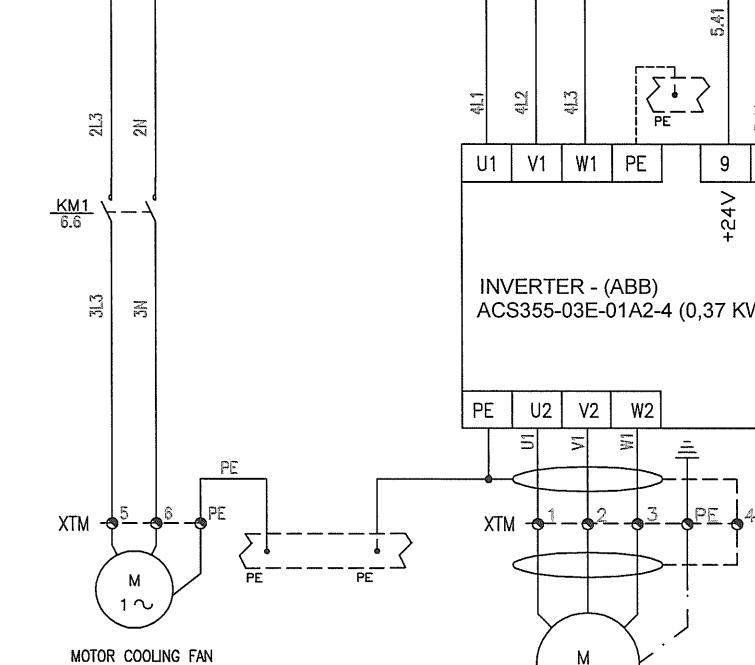
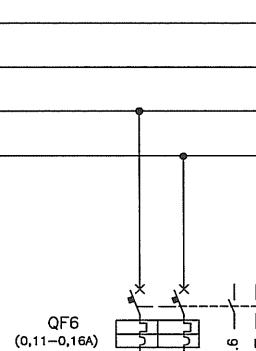
= KC-64WG4
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JOB : 2F11 dwg. 2F11-85-088

sheet 04
05 n.sh

1 2 3 4 5 6 7 8

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INVERTER - (ABB)
ACS355-03E-01A2-4 (0,37 KW)WEIGHFEEDER MOTOR
0,25KW 0,78A

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| | 0 | ISSUE FOR CONSTRUCTION | D.M. | 25-07-12 |
| rev. | Issue | Description | Author | Date |

SABIZ PLANT



WIRING DIAGRAM
drawing's title:

THR: 25332-CC03-E005A

KC-64WG4

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JOB : 2F11

sheet 05

dwg. 2F11-85-088

06 n.sh

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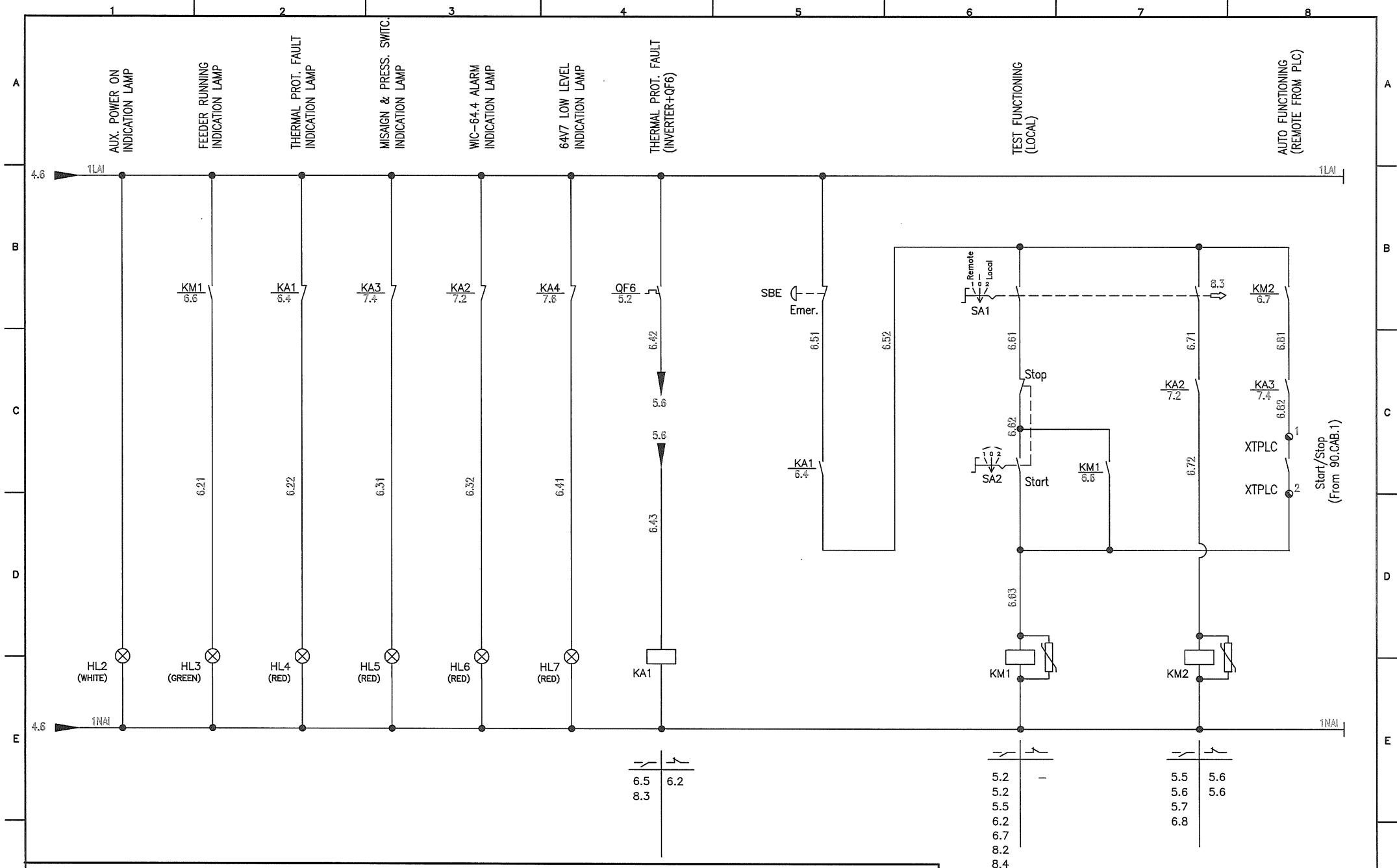
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| rev. | Issue Description | Author | Date | |
| It. DIN 6771/Tail 5 | 1 | | 2 | |

SABIZ PLANT



WIRING DIAGRA

THR: 25332-CC03-E006A

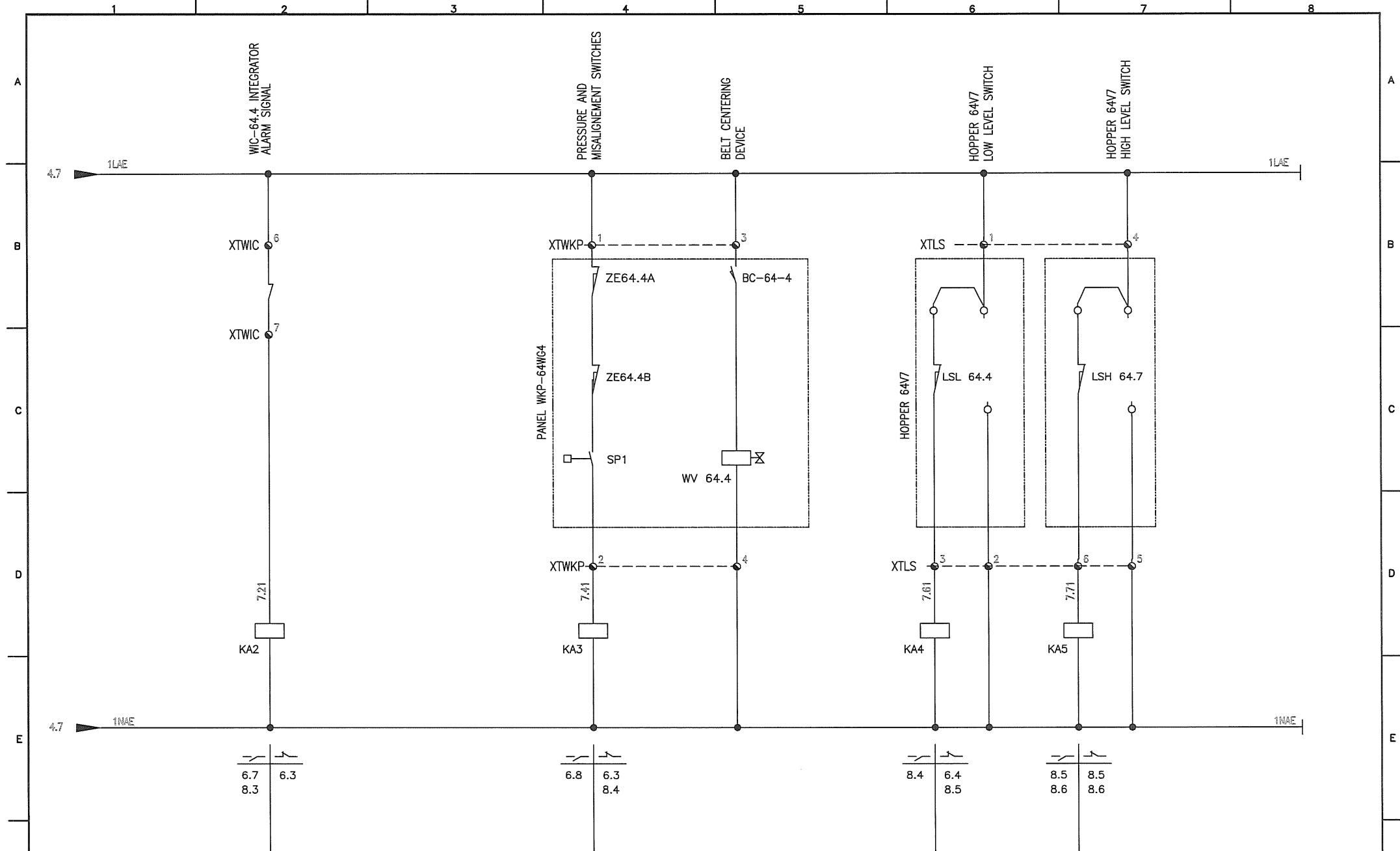
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JOB : 2F11

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| rev. | Issue Description | Author | Date |

SABIZ PLANT



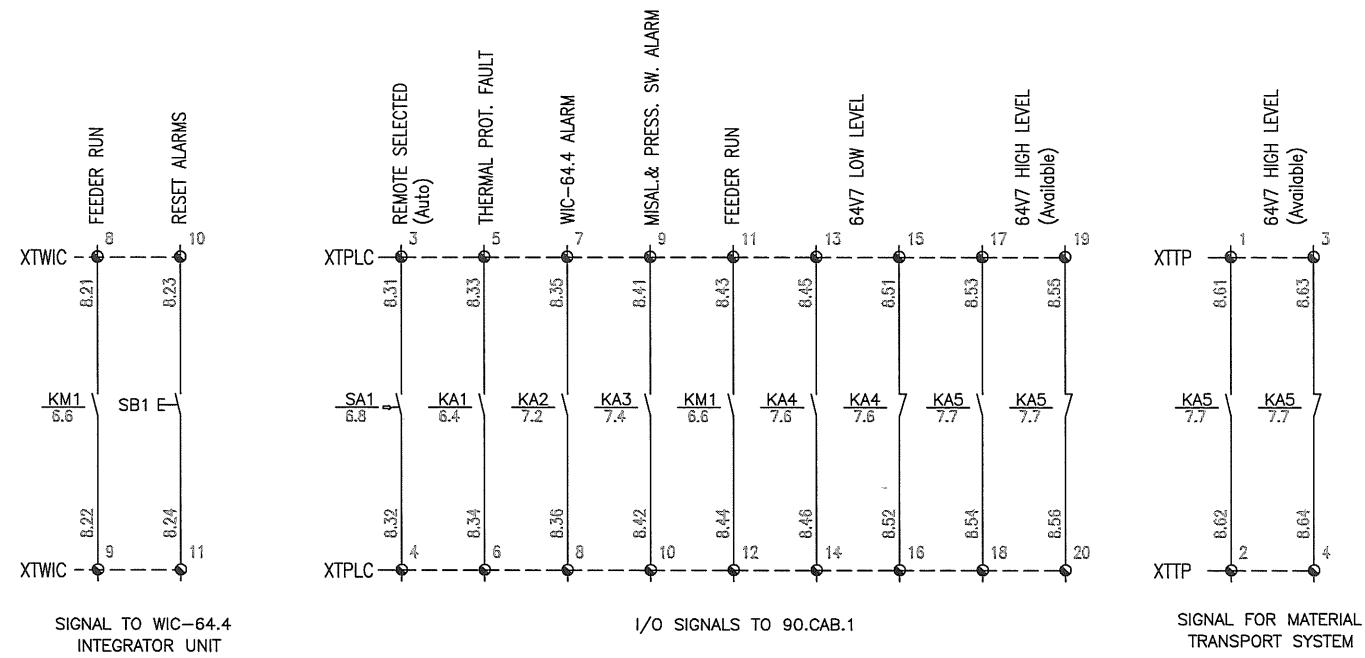
WIRING DIAGRAM
drawing's title:

THR: 25332-CC03-E007A

= KC-64WG4
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JOB : 2F11 dwg. 2F11-85-088

sheet 07
08 n.sh



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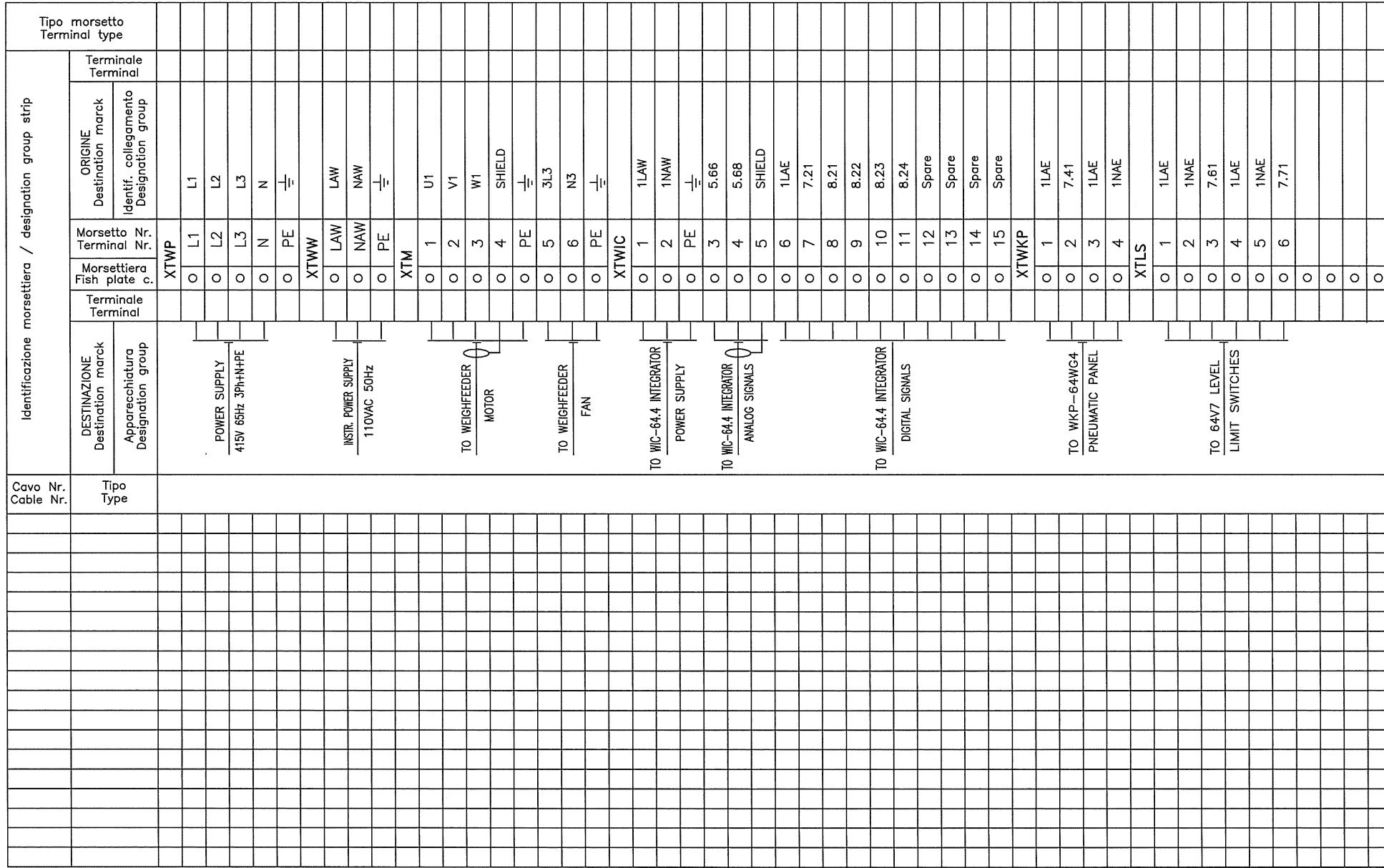
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| | 0 | ISSUE FOR CONSTRUCTION | D.M. | 25-07-12 |
| | rev. | Issue Description | Author | Date |

SABIZ PLANT



WIRING DIAGRAM

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| THR: 25332-CC03-E008A | | = KC-64VG4 | |
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| JOB : 2F11 | dwg. | 2F11-85-088 | sheet 08 |
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| | rev. | Issue Description | Author | Date |
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SABIZ PLANT



TERMINAL BLOCK

THR: 25332-CC03-E009

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JOB : 2F11 dwg. 2F11-85-088

sheet 09

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| F | | | | | | | | | | | | | | | |
| A | | Identificazione morsettiera / designation group strip | | Terminal type | | | | | | | | | | | |
| B | | Terminal type | | Terminal | | ORIGINE | | Destination mark | | Identif. collegamento | | Designation group | | | |
| C | | Terminal | | Nr. | | Nr. | | Terminal | | Terminal | | Terminal | | | |
| D | | Morsetto Terminal | | Morsettiera Fish plate c. | | XTPLC | | | | | | | | | |
| E | | O 1 | | O 2 | | O 3 | | O 4 | | O 5 | | O 6 | | O 7 | |
| F | | 6.82 | | 6.63 | | 8.31 | | 8.32 | | 8.33 | | 8.34 | | 8.35 | |
| G | | O 8 | | O 9 | | O 10 | | O 11 | | O 12 | | O 13 | | O 14 | |
| H | | 8.36 | | 8.41 | | 8.42 | | 8.43 | | 8.44 | | 8.45 | | 8.46 | |
| I | | O 15 | | O 16 | | O 17 | | O 18 | | O 19 | | O 20 | | O 21 | |
| J | | 8.51 | | 8.52 | | 8.53 | | 8.54 | | 8.55 | | 8.56 | | Spare | |
| K | | O 22 | | | | | | | | | | | | | |
| L | | XTPP | | | | | | | | | | | | | |
| M | | O 1 | | O 2 | | O 3 | | O 4 | | O 5 | | O 6 | | | |
| N | | 8.61 | | 8.62 | | 8.63 | | 8.64 | | | | | | | |
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UNI A3
1 UPDATE AFTER TEST D.C. 11-09-12
0 ISSUE FOR CONSTRUCTION D.M. 25-07-12
rev. Issue Description Author Date
It. DIN 6771/Teil 5 1 2 3 4 5 6 7 8

SABIZ PLANT



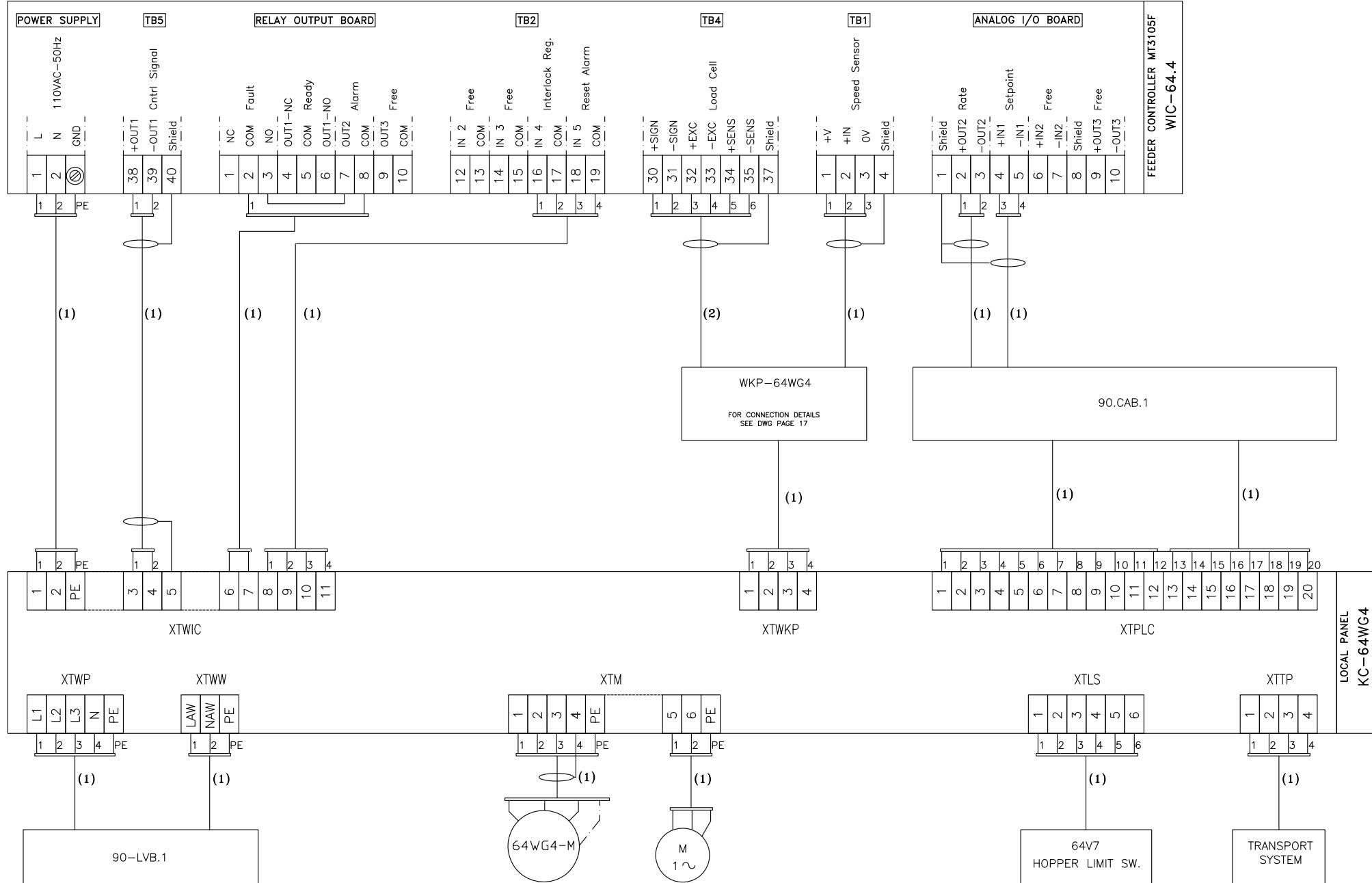
TERMINAL BLOCK
drawing's title:

THR: 25332-CC03-E010A

= KC-64WG4
+ .

JOB : 2F11 dwg. 2F11-85-088

sheet 10
11 n.sh



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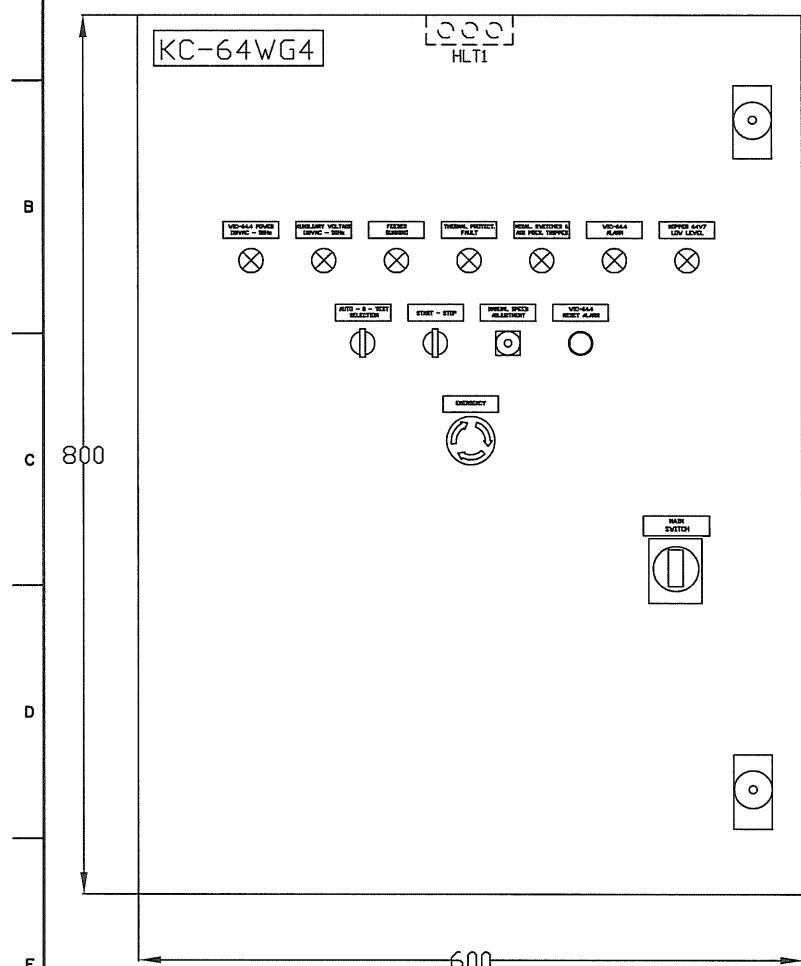
(1) Cable supply by Ballestra (2) Cable supply by Ramsey

| | | | | | | | | |
|------|------------------------|--------|----------|-------------|--|-------------------------------------|-----------------------|-------------|
| 1 | UPDATE AFTER TEST | D.C. | 11-09-12 | SABIZ PLANT | | INTERCONNECTION drawing's title: | THR: 25332-CC03-E011A | = KC-64WG4 |
| 0 | ISSUE FOR CONSTRUCTION | D.M. | 25-07-12 | | | | JOB : 2F11 | + |
| rev. | Issue Description | Author | Date | | | | dwg. | 2F11-85-088 |

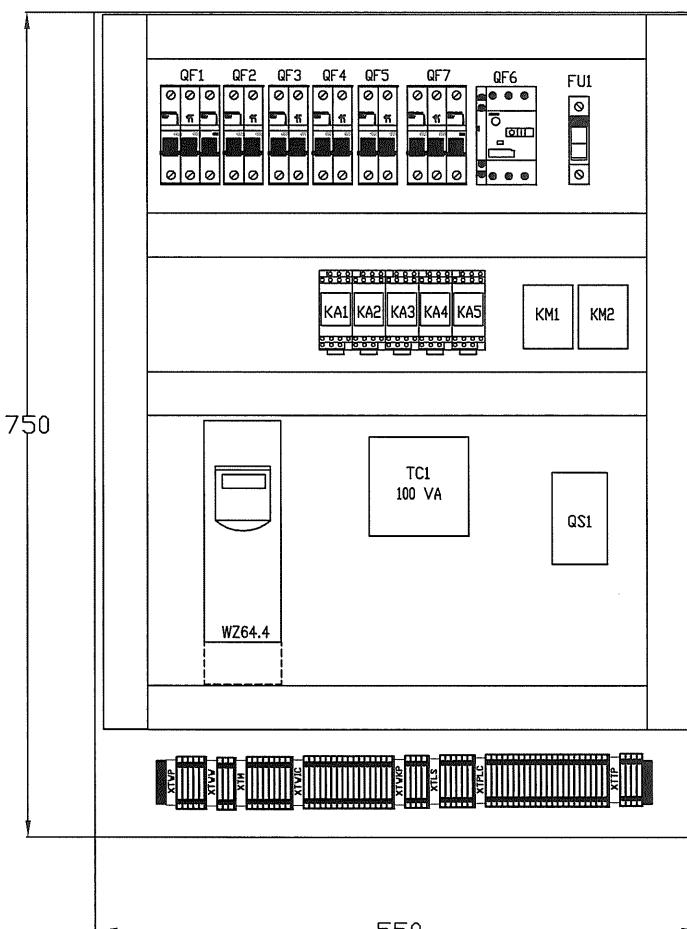
sheet 11
12 n.sh

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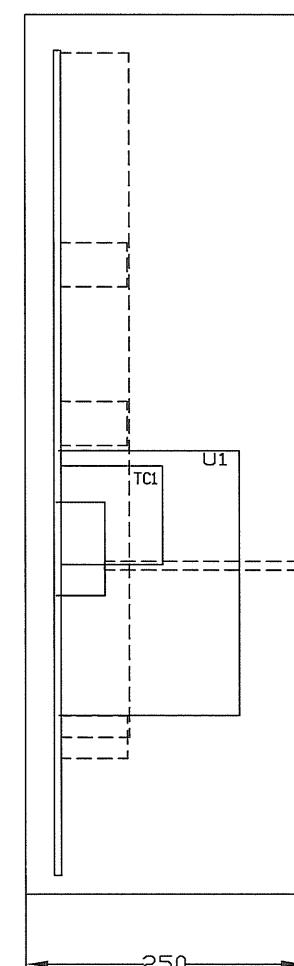
EXTERNAL VIEW



INTERNAL VIEW



SIDE VIEW



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| | rev. | Issue Description | Author | Date |
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SABIZ PLANT



TOPOGRAPHIC VIEW
drawing's title:

THR: 25332-CC03-E012A

JOB : 2F11 dwg. 2F11-85-088

/G4

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| WIC 64.4 POWER 110VAC - 50Hz | AUXILIARY VOLTAGE 110VAC - 50 Hz | FEEDER RUNNING | THERMAL PROTECT. FAULT | MISAL. SWITCHES & AIR PRES. TRIPPED | WIC-64.4 ALARM | HOPPER 64V7 LOW LEVEL |
|---------------------------------|-------------------------------------|-------------------|---------------------------|--|-------------------|--------------------------|



HL1



HL2



HL3



HL4



HL5



HL6



HL7

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|------------------------------|--------------|----------------------------|-------------------------|
| AUTO - 0 - TEST SELECTION | START - STOP | MANUAL SPEED ADJUSTMENT | WIC-64.4 RESET ALARM |
|------------------------------|--------------|----------------------------|-------------------------|



SA1



SA2

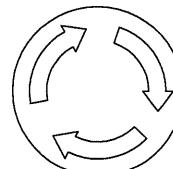


RP1



SB1

EMERGENCY



SBE

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UNI A3

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| 1 | UPDATE AFTER TEST | D.C. | 11-09-12 |
| 0 | ISSUE FOR CONSTRUCTION | D.M. | 25-07-12 |
| rev. | Issue Description | Author | Date |

SABIZ PLANT



LABELS

drawing's title:

THR: 25332-CC03-E013A

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JOB : 2F11 dwg. 2F11-85-088

sheet 13
14 n.sh

It. DIN 6771/Teil 5 1

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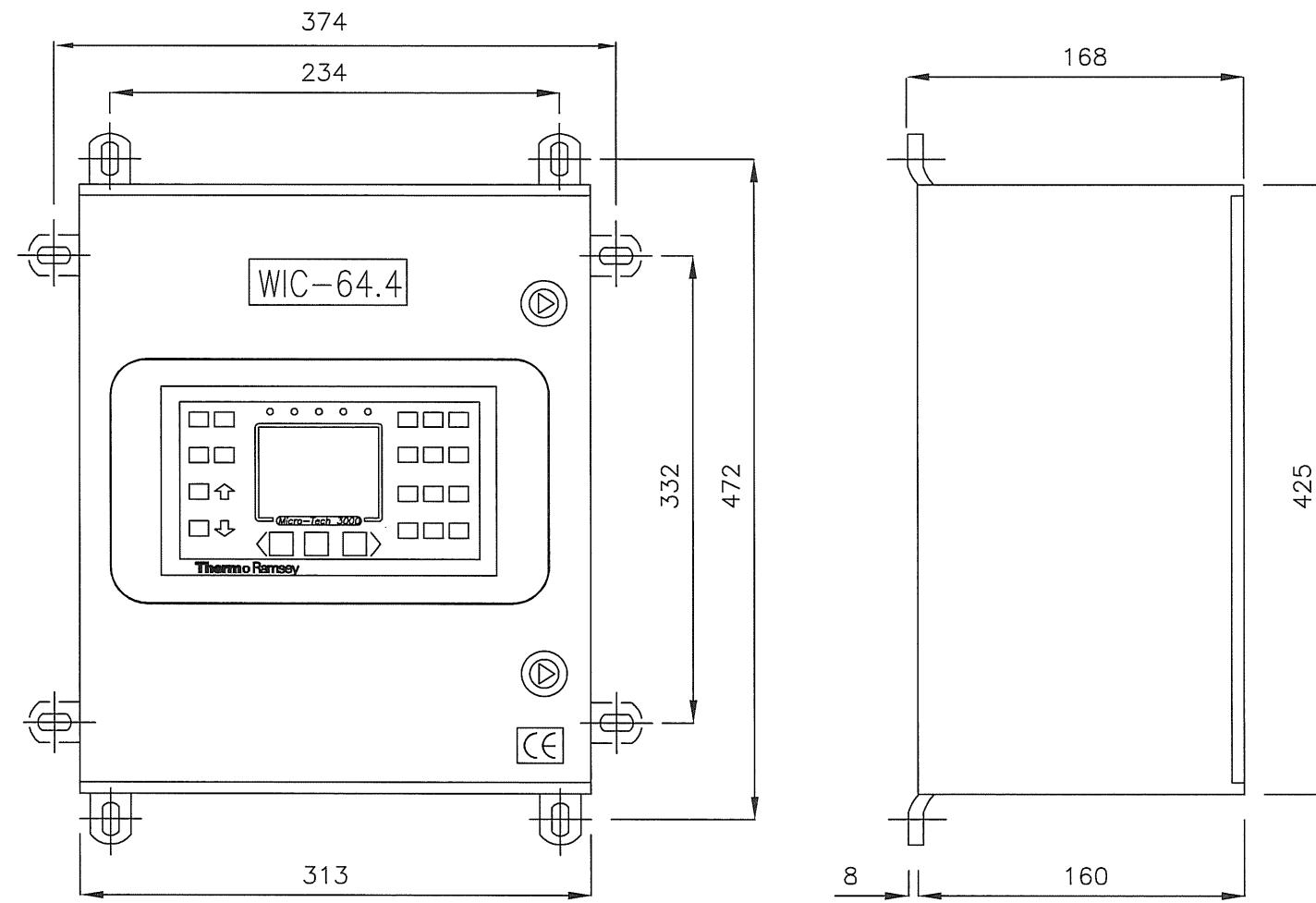
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| 1 | UPDATE AFTER TEST | D.C. | 11-09-12 |
| 0 | ISSUE FOR CONSTRUCTION | D.M. | 25-07-12 |
| rev. | Issue Description | Author | Date |

SABIZ PLANT



WIC-64.4
TOPOGRAPHIC VIEW
drawing's title:

THR: 25332-CC03-E014A
+ .
JOB : 2F11 dwg. 2F11-85-088

sheet 14
15 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 | 3RV1011-1DA15 | 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 | MAGNETHERMAL SWITCH 2 POLE (2A) - "C" CURVE | 5SY6 202-7 | SIEMENS | 1 | | | | | |
| QF3,QF4, QF5 | MAGNETHERMAL SWITCH 2 POLE (2A) - "C" CURVE | 5SY6 101-7 | SIEMENS | 3 | | | | | |
| QF6 | MAGNETHERMAL SWITCH 0,11-0,16A 1L+1R | 3RV1011-OAA15 | 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 100 VA | Primary:400-415 VAC Secondary : 110 VAC | MG | 1 | | | | | |
| WZ 64.4 | INVERTER ABB 0,37 Kw | ACS355-03E01A2-4 | ABB | 1 | | | | | |
| WZ 64.4 | BASIC CONTROL PANEL ACS-CP-C | J404 | ABB | 1 | | | | | |
| KM1, KM2 | CONTACTOR 110VAC - 3+1NO | 3RT10 16-1AF01 | SIEMENS | 2 | | | | | |
| KM1, KM2 | VARISTOR FOR CONTACTOR | 3RT1916-1JK00 | SIEMENS | 2 | | | | | |
| KM1 | AUXILIARY CONTACT S00 4NO | 3RH1911-1FA40 | SIEMENS | 1 | | | | | |
| KM2 | AUXILIARY CONTACT S00 2NO+2NC | 3RH1911-1FA22 | SIEMENS | 1 | | | | | |
| KA1,2,3,4,5 | RELAY 4 CONTACT WITH SURGE SUPPRESSION | MY4N-CR (110VAC) | OMRON | 5 | | | | | |
| KA1,2,3,4,5 | SOCKET FOR RELAY | PYF14AN | OMRON | 5 | | | | | |

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| | Drawing supplier 25332-CC03-E015A | Rev. 1 | Plant SABIZ | | | | | |
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|  | Drawing 2F11-85-088 | Sheet 15 Next 16 | Drawing's title EQUIPMENT LIST | 1 | UPDATE AFTER TEST | DC | 11/09/2012 | |
| | | | | 0 | ISSUE FOR CONSTRUCTION | DM | 25/07/2012 | |
| | | | | 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 | | | | | |
| SBE | EMERGENCY PLUNGER WITH MECHANICAL LOCK | 3SB3500-1HA20 | SIEMENS | 1 | | | | | |
| SB1 | PUSHBUTTON BLACK | 3SB3500-0AA11 | SIEMENS | 1 | | | | | |
| SA1, SA2, SB1 | CONTACT 1 NO | 3SB3400-0B | SIEMENS | 5 | | | | | |
| SBE, SA2 | CONTACT 1 NC | 3SB3400-0C | SIEMENS | 2 | | | | | |
| HL1, HL2 | LAMP WHITE | 3SB3604-6AB60 | SIEMENS | 2 | | | | | |
| HL3 | LAMP GREEN | 3SB3604-6AB40 | SIEMENS | 1 | | | | | |
| HL4..7 | LAMP RED | 3SB3604-6AB20 | SIEMENS | 4 | | | | | |
| HL1...7 | LAMP BA9s - 110VAC 2W | | SIEMENS | 7 | | | | | |
| XT.. | TERMINAL 4 mmq | | SIEMENS | 63 | | | | | |
| XT.. | GROUND TERMINAL 4 mmq | | SIEMENS | 5 | | | | | |
| - | SET OF LABELS | DWG. 2F11-85-088 Sheet 13 | - | 1 | | | | | |
| KC-64WG4 | CABINET 800(H)x600(W)x250(D) | NSYS 3D8625P | SCHNEIDER | 1 | | | | | |
| | | | | | | | | | |
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| | Drawing supplier 25332 -CC03-E016A | Rev. 1 | Plant SABIZ | | | | |
|  | Drawing 2F11-85-088 | Sheet 16 | Drawing's title EQUIPMENT LIST | 1 | UPDATE AFTER TEST | DC | 11/09/2012 |
| | Next 17 | | | 0 | ISSUE FOR CONSTRUCTION | DM | 25/07/2012 |
| | | | | Revision | Issue description | Author | Date |

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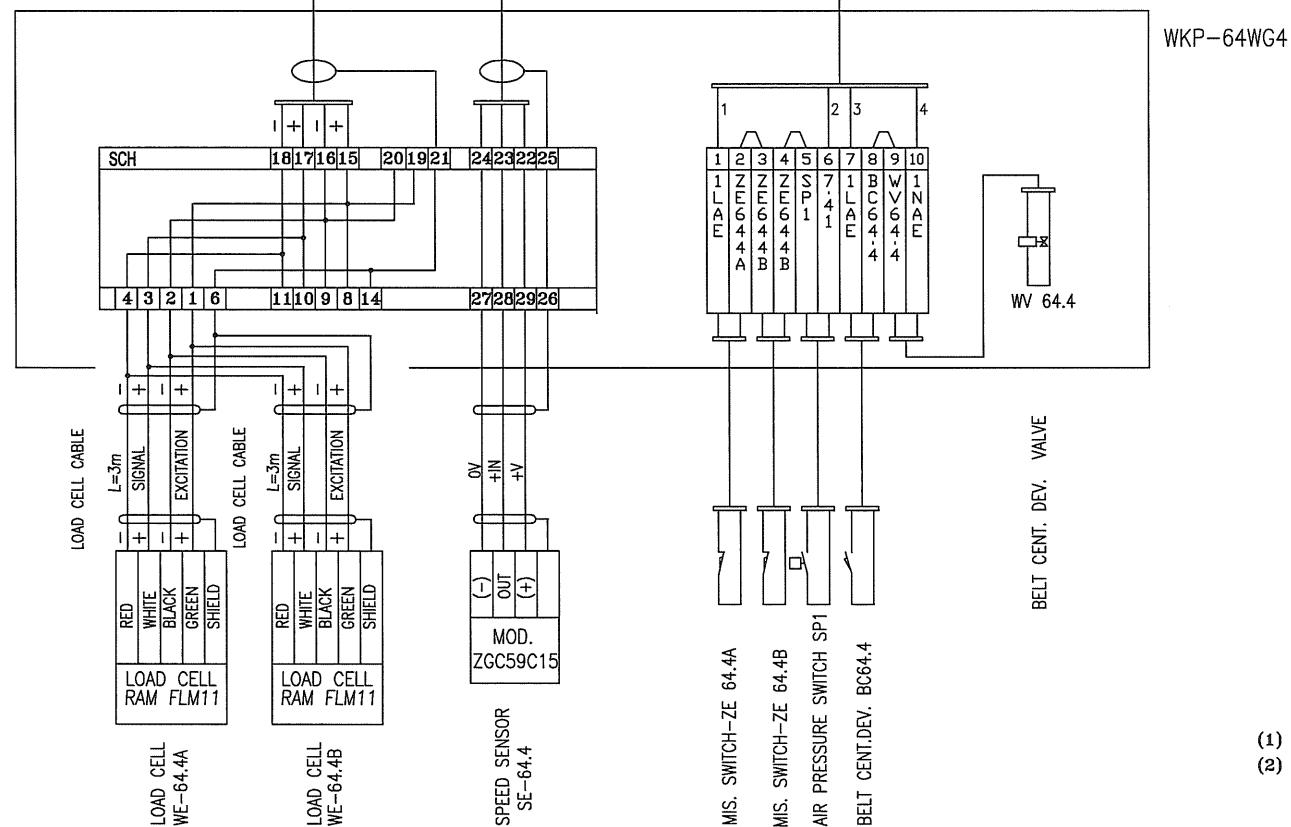
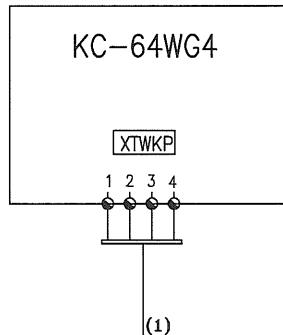
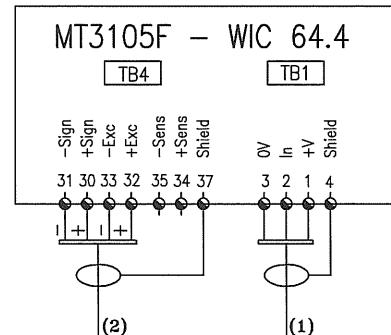
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(1) Cable supply by Ballestra
(2) Cable supply by Ramsey

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| UNI A3 | | 1 UPDATE AFTER TEST | D.C. | 11/09/2012 |
|--------------------------|-------------------|---------------------|------------|------------|
| 0 ISSUE FOR CONSTRUCTION | | D.M. | 25/07/2012 | |
| rev. | Issue Description | Author | Date | |

SABIZ PLANT

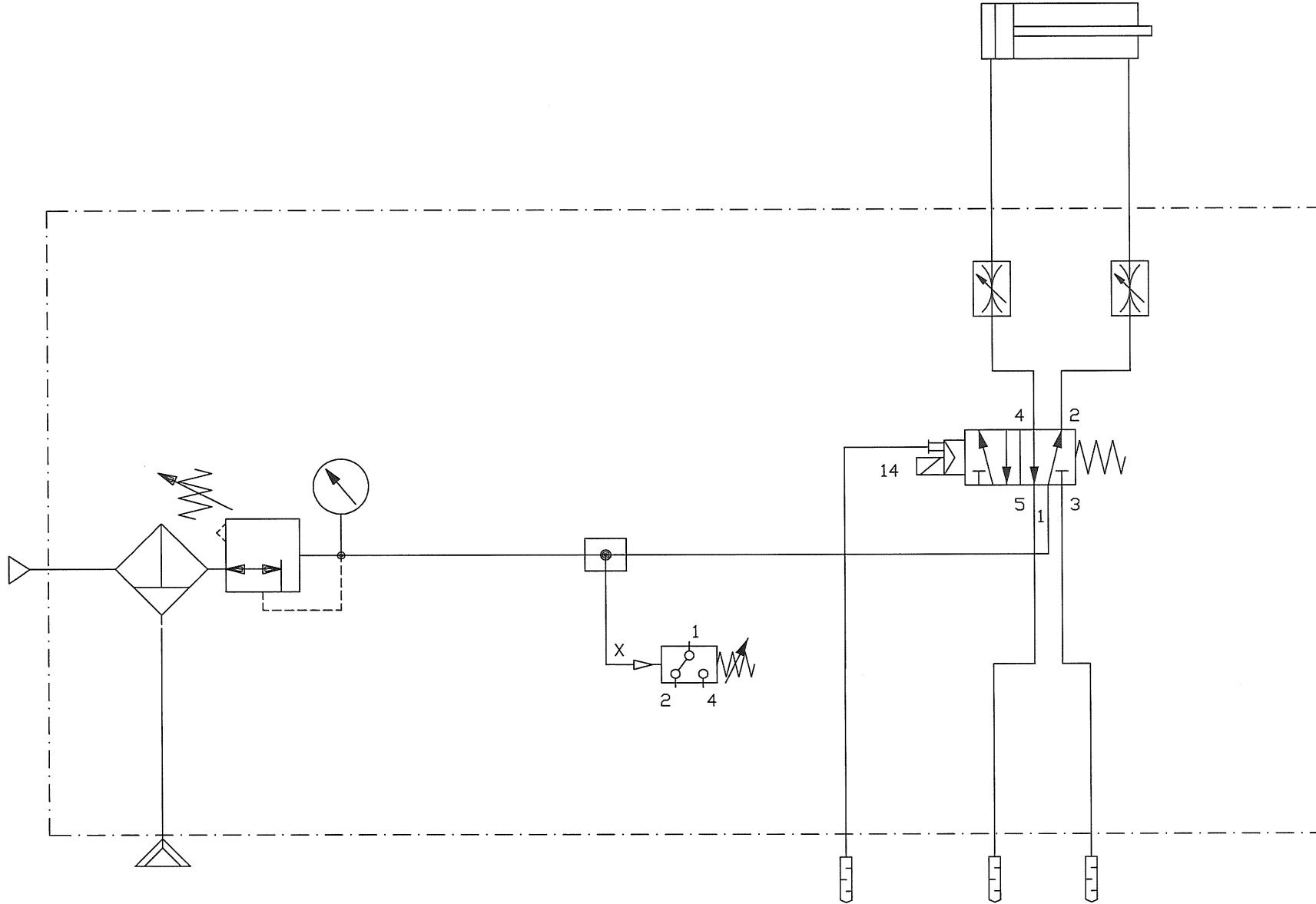


WKP-64WG4
ELECTRICAL AND PNEUMATIC
JUNCTION BOX
drawing's title:

THR: 25332-CC03-E017A

JOB : 2F11 dwg. 2F11-85-088

sheet 17
18 n.sh



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|---------------------|-------------------|------------------------|------|------------|-------------|---|---|-----------------------|-------------|----------------------|
| UNI A3 | 1 | UPDATE AFTER TEST | D.C. | 11/09/2012 | SABIZ PLANT |  | WKP-64WG4 ELECTRICAL AND PNEUMATIC JUNCTION BOX drawing's title: | THR: 25332-CC03-E018A | | = - |
| | 0 | ISSUE FOR CONSTRUCTION | D.M. | 25/07/2012 | | | | JOB : 2F11 | | + - |
| rev. | Issue Description | Author | Date | | | | | dwg. | 2F11-85-088 | sheet 18 19 n.s.t |
| It. DIN 6771/Teil 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |

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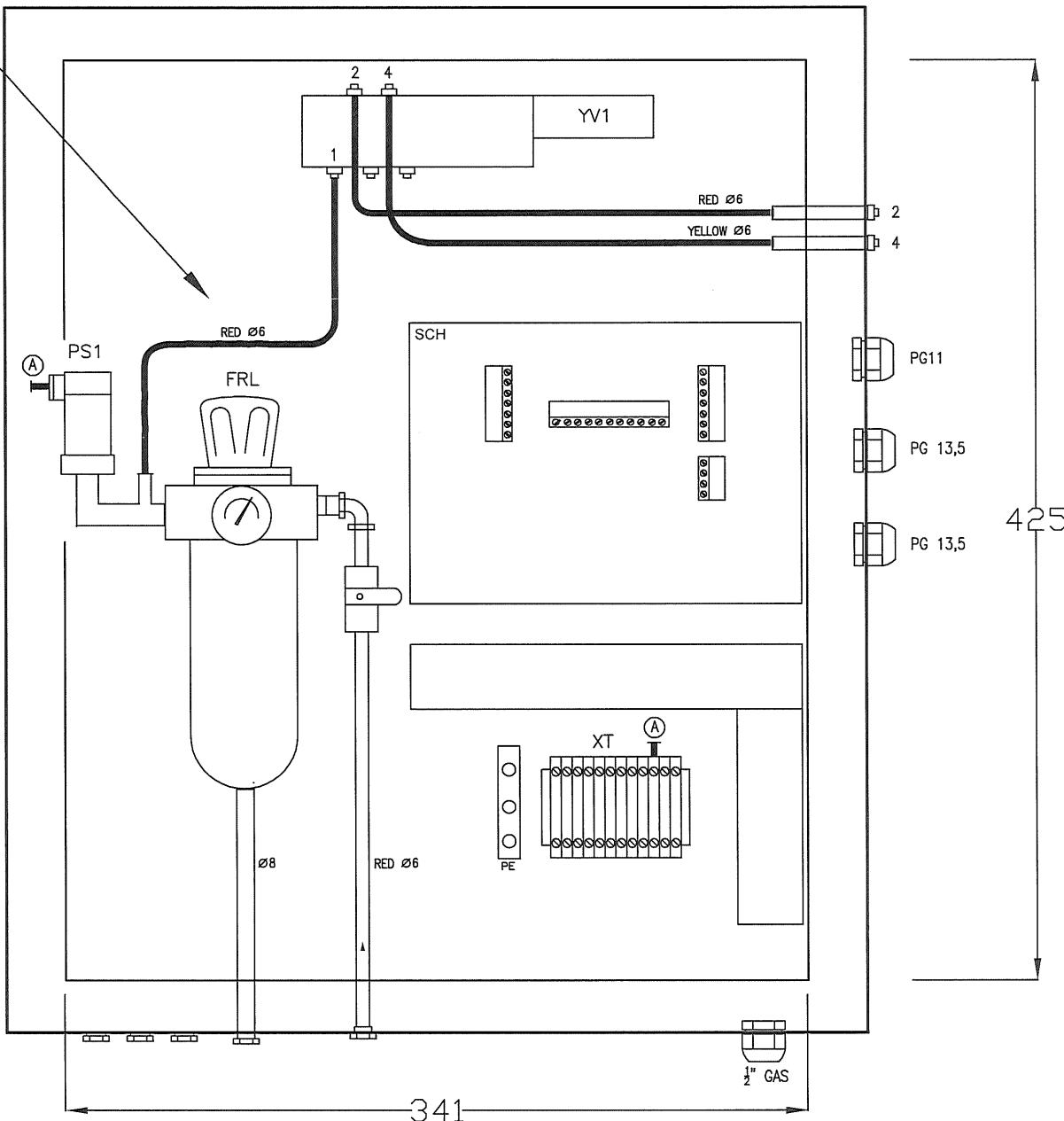
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Internal Plate



341

425

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| 1 | UPDATE AFTER TEST | DC | 11/09/2012 |
| 0 | ISSUE FOR CONSTRUCTION | DM | 25/07/2012 |
| rev. | Issue Description | Author | Date |
| It. DIN 6771/Teil 5 1 | 2 | 3 | 4 |

SABIZ PLANT



WKP-64WG4
 INTERNAL VIEW FOR
 PNEUMATIC BOX
 drawing's title:

THR: 25332-CC03-E019A

JOB : 2F11 dwg. 2F11-85-088

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 sheet 19
 20 n.sh

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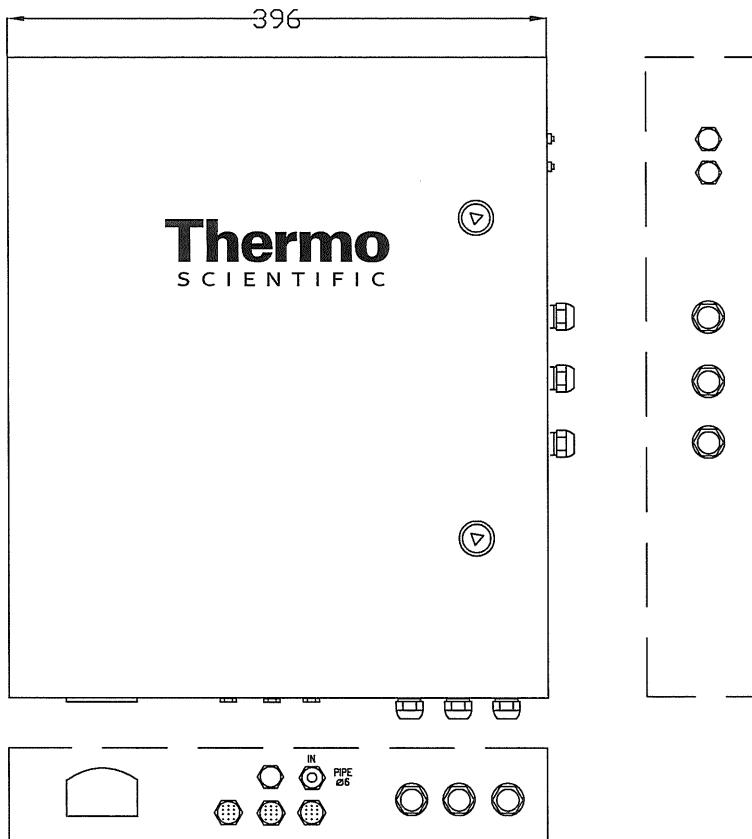
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| | 0 | ISSUE FOR CONSTRUCTION | DM | 25/07/2012 |
| rev. | Issue Description | Author | Date | |
| It. DIN 6771/Teil 5 1 | 2 | 3 | 4 | 5 |

SABIZ PLANT



WKP-64WG4
TOPOGRAPHIC VIEW FOR
PNEUMATIC BOX
drawing's title:

THR: 25332-CC03-E020A
JOB : 2F11 dwg. 2F11-85-088

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sheet 20
21 n.sh

ELECTRICAL EQUIPMENT LIST

SCHEMATIC WIRING DIAGRAM

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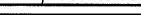
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|---|-------------------------|------------------|-----------------------------|----------|------------------------|--------|------------|
|  Thermo Fisher Scientific Thermo Fisher Scientific è una divisione della Thermo Fisher Scientific Inc. | Drawing supplier | Rev. 1 | Plant SABIZ PLANT | | | | |
| | 25332-CC03-E021A | | | | | | |
| | | | | | | | |
|  desmet ballestra | Drawing | | Drawing's title | 1 | UPDATE AFTER TEST | DC | 11/09/2012 |
| | 2F11-85-088 | Sheet 21 | | 0 | ISSUE FOR CONSTRUCTION | DM | 25/07/2012 |
| | | Next 22 | ELECTRICAL EQUIPMENT LIST | Revision | Issue description | Author | Date |

PNEUMATICAL EQUIPMENT LIST

SCHEMATIC WIRING DIAGRAM

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|  Thermo SCIENTIFIC <small>Thermo Fisher Scientific Inc. - Strada Giovanni da Verrazzano 17 - Bologna (BO)</small> | Drawing supplier 25332-CC03-E022A | Rev. 1 | Plant SABIZ PLANT | | | | |
|  desmet ballestra | Drawing 2E50-85-088 | Sheet 22 | Drawing's title PNEUMATICAL EQUIPMENT LIST | 1 0 | UPDATE AFTER TEST ISSUE FOR CONSTRUCTION | DC DM | 11/09/2012 25/07/2012 |
| | Next - | | | Revision | Issue description | Author | Date |