

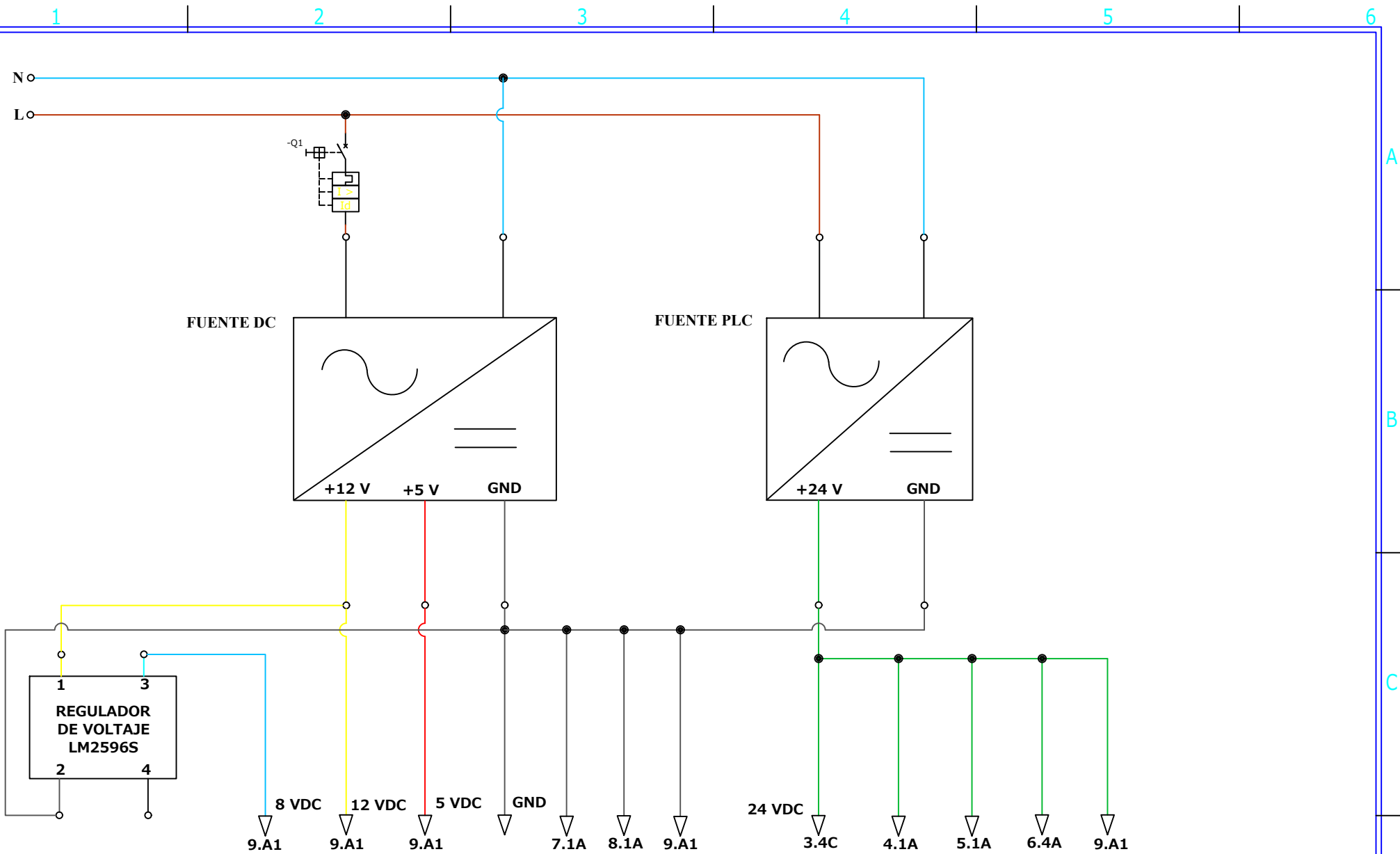
PLANTA CERÁMICA PROTOTIPO AUTOMATIZADA


PLANOS ELÉCTRICOS PLC S7-300 Y CAJA DE CONTROL

ELABORADO POR:

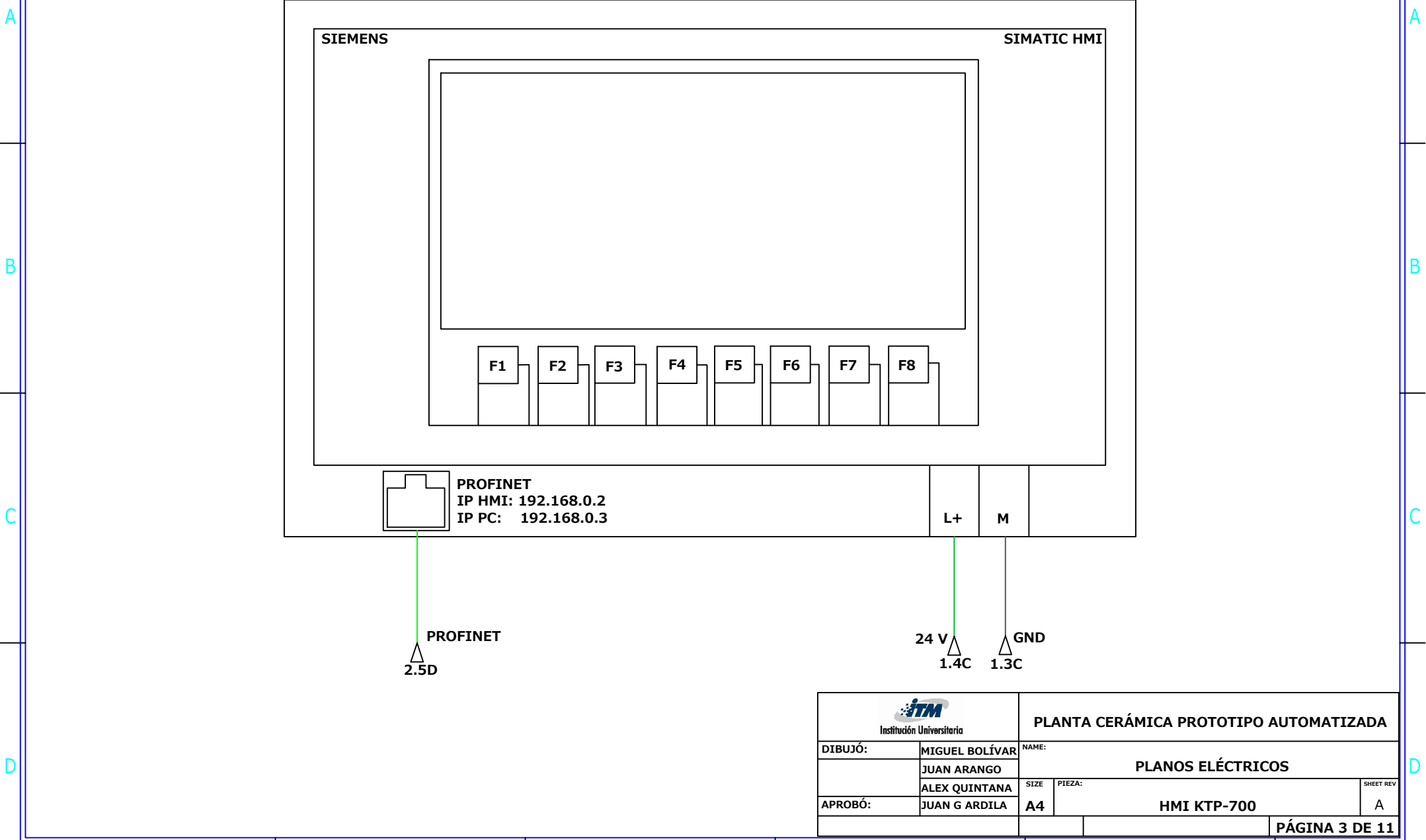
**MIGUEL ÁNGEL BOLÍVAR CALLE
JUAN ESTEBAN ARANGO AMAYA
ALEXANDER QUINTANA TANGARIFE**

**FACULTAD DE INGENIERÍAS
INGENIERÍA MECATRÓNICA
I.T.M**



| | | | | |
|--|----------------|---|-----------|-----------------------|
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| DIBUJÓ: | MIGUEL BOLÍVAR | NAME: | | |
| | JUAN ARANGO | PLANOS ELÉCTRICOS | | |
| | ALEX QUINTANA | SIZE: | PIEZA: | SHEET REV: |
| APROBÓ: | JUAN G ARDILA | A4 | ACOMETIDA | A |
| | | | | PÁGINA 1 DE 11 |

1 2 3 4 5 6



SIEMENS

SIMATIC HMI

F1

F2

F3

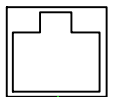
F4

F5

F6

F7

F8



PROFINET
 IP HMI: 192.168.0.2
 IP PC: 192.168.0.3


L+

M

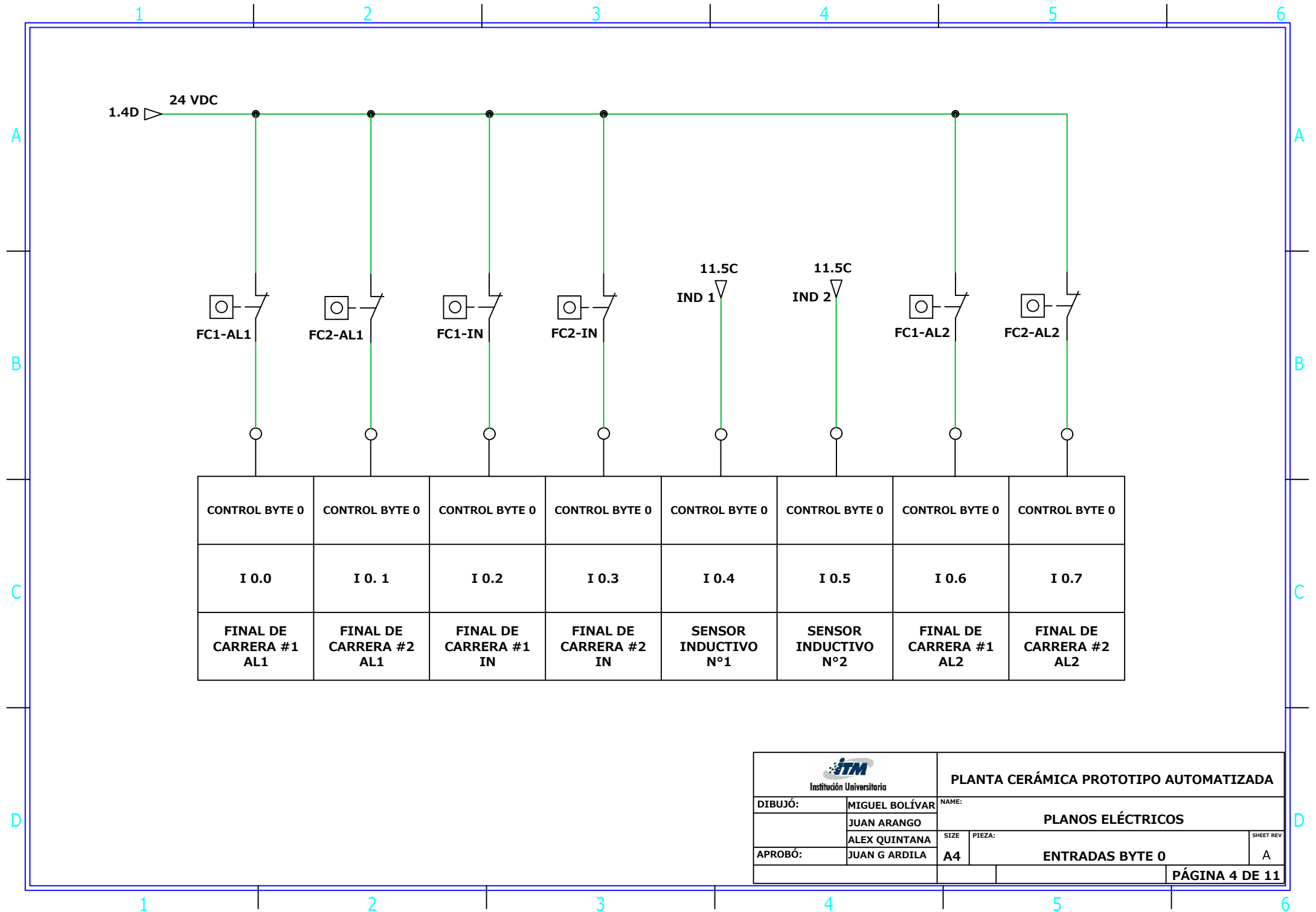
PROFINET
 2.5D

24 V
 1.4C

GND
 1.3C

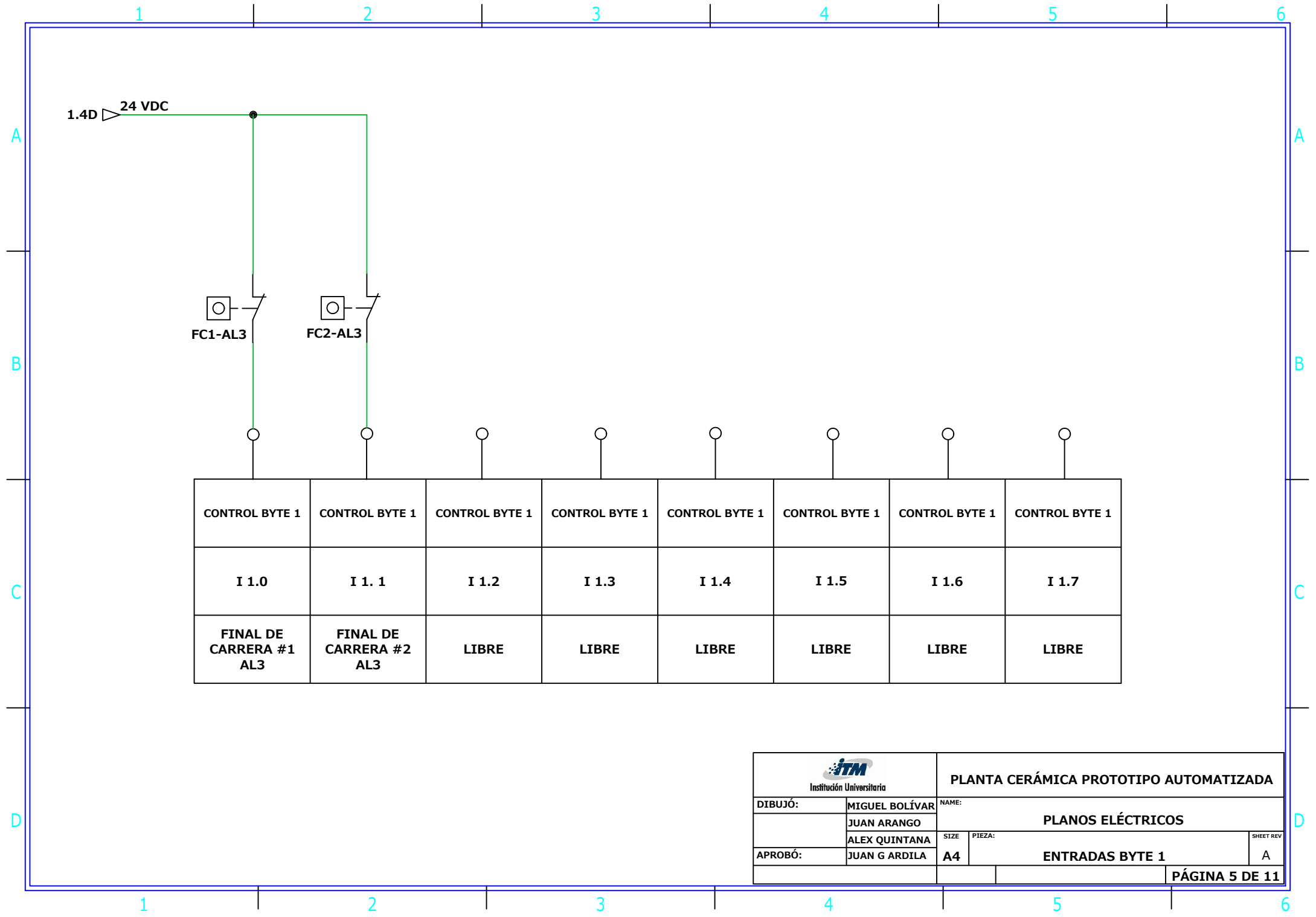
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| DIBUJÓ: | MIGUEL BOLÍVAR | NAME: PLANOS ELÉCTRICOS | | |
| | JUAN ARANGO | SIZE | PIEZA: | SHEET REV |
| | ALEX QUINTANA | A4 | HMI KTP-700 | A |
| APROBÓ: | JUAN G ARDILA | PÁGINA 3 DE 11 | | |

1 2 3 4 5 6




| | | | | | | | |
|-------------------------|-------------------------|------------------------|------------------------|----------------------|----------------------|-------------------------|-------------------------|
| CONTROL BYTE 0 | CONTROL BYTE 0 | CONTROL BYTE 0 | CONTROL BYTE 0 | CONTROL BYTE 0 | CONTROL BYTE 0 | CONTROL BYTE 0 | CONTROL BYTE 0 |
| I 0.0 | I 0.1 | I 0.2 | I 0.3 | I 0.4 | I 0.5 | I 0.6 | I 0.7 |
| FINAL DE CARRERA #1 AL1 | FINAL DE CARRERA #2 AL1 | FINAL DE CARRERA #1 IN | FINAL DE CARRERA #2 IN | SENSOR INDUCTIVO N°1 | SENSOR INDUCTIVO N°2 | FINAL DE CARRERA #1 AL2 | FINAL DE CARRERA #2 AL2 |

| | | | | | |
|--|----------------|---|------------------------|-----------|-----------------------|
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| DIBUJÓ: | MIGUEL BOLÍVAR | NAME: | | | |
| | JUAN ARANGO | PLANOS ELÉCTRICOS | | | |
| | ALEX QUINTANA | SIZE | PIEZA: | SHEET REV | |
| APROBÓ: | JUAN G ARDILA | A4 | ENTRADAS BYTE 0 | | A |
| | | | | | PÁGINA 4 DE 11 |



| | | | | | | | |
|-------------------------|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| CONTROL BYTE 1 | CONTROL BYTE 1 | CONTROL BYTE 1 | CONTROL BYTE 1 | CONTROL BYTE 1 | CONTROL BYTE 1 | CONTROL BYTE 1 | CONTROL BYTE 1 |
| I 1.0 | I 1.1 | I 1.2 | I 1.3 | I 1.4 | I 1.5 | I 1.6 | I 1.7 |
| FINAL DE CARRERA #1 AL3 | FINAL DE CARRERA #2 AL3 | LIBRE | LIBRE | LIBRE | LIBRE | LIBRE | LIBRE |

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| DIBUJÓ: | MIGUEL BOLÍVAR | NAME: | | | |
| | JUAN ARANGO | PLANOS ELÉCTRICOS | | | |
| | ALEX QUINTANA | SIZE: | PIEZA: | SHEET REV: | |
| APROBÓ: | JUAN G ARDILA | A4 | ENTRADAS BYTE 1 | | A |
| | | | | | PÁGINA 5 DE 11 |

1 2 3 4 5 6

A

A

B

B

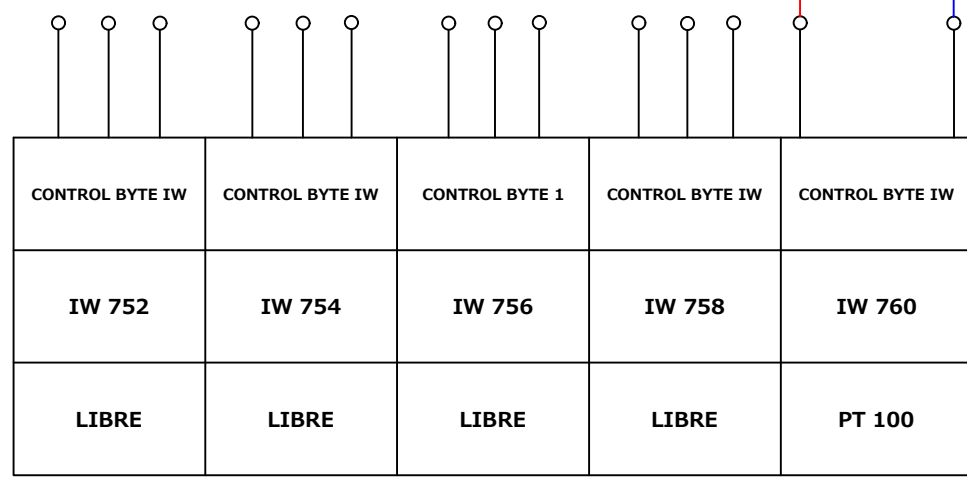
C


C

D

D

1.5D
▽ 24 VDC

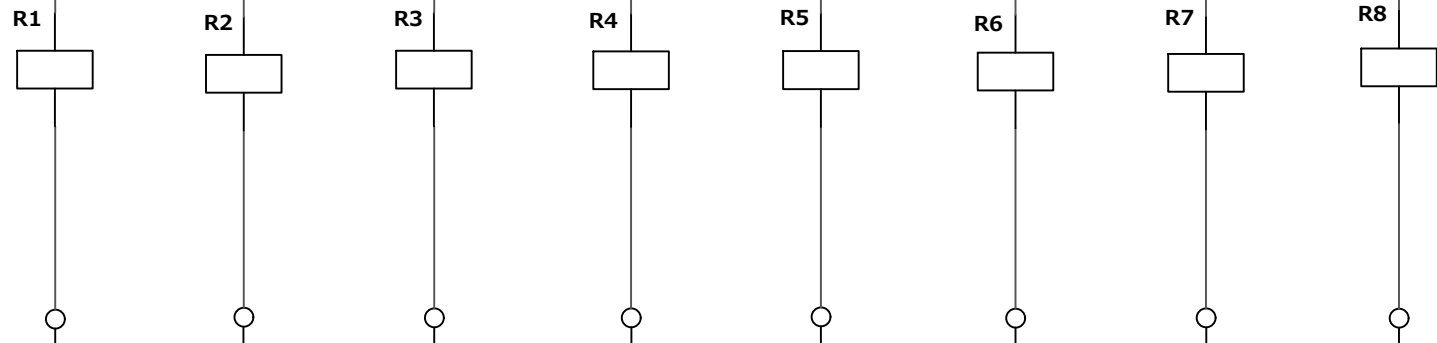


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| DIBUJÓ: | MIGUEL BOLÍVAR | NAME: PLANOS ELÉCTRICOS | | |
| | JUAN ARANGO | SIZE | PIEZA: | SHEET REV |
| | ALEX QUINTANA | A4 | ENTRADAS ANÁLOGAS BYTE | A |
| APROBÓ: | JUAN G ARDILA | PÁGINA 6 DE 11 | | |

1 2 3 4 5 6


1 2 3 4 5 6

1.3D GND



| | | | | | | | |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| CONTROL BYTE 0 | CONTROL BYTE 0 | CONTROL BYTE 0 | CONTROL BYTE 0 | CONTROL BYTE 0 | CONTROL BYTE 0 | CONTROL BYTE 0 | CONTROL BYTE 0 |
| Q 0.0 | Q 0.1 | Q 0.2 | Q 0.3 | Q 0.4 | Q 0.5 | Q 0.6 | Q 0.7 |
| RELÉ 1 | RELÉ 2 | RELÉ 3 | RELÉ 4 | RELÉ 5 | RELÉ 6 | RELÉ 7 | RELÉ 8 |

| | | | | | | | |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| NO NC 10.1B | NO NC 10.1B | NO NC 10.2B | NO NC 10.2B | NO NC 10.2B | NO NC 10.4B | NO NC 10.2B | NO NC 10.3B |
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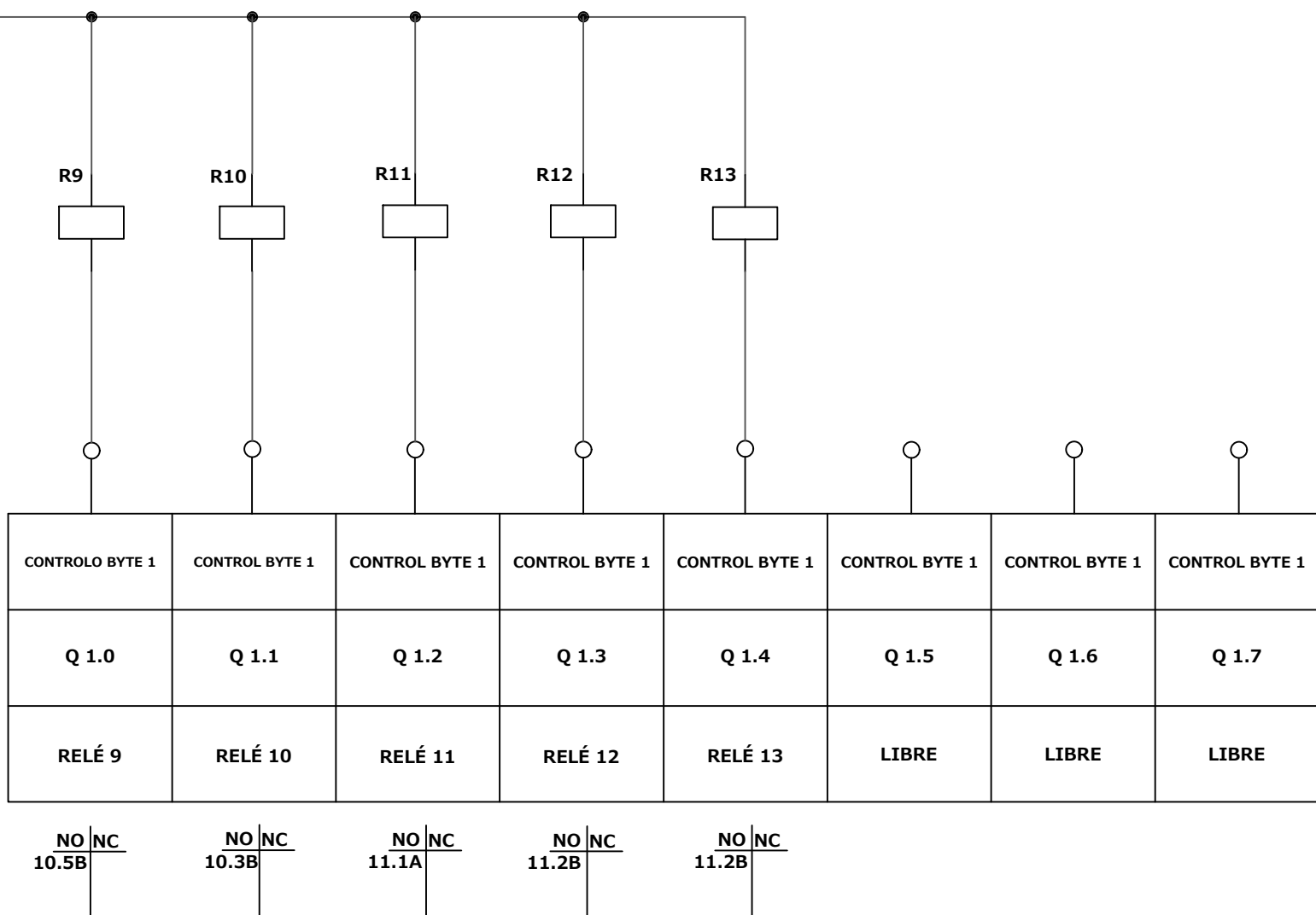
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|  Institución Universitaria | | PLANTA CERÁMICA PROTOTIPO AUTOMATIZADA | | | |
| DIBUJÓ: | MIGUEL BOLÍVAR | NAME: | | | |
| | JUAN ARANGO | PLANOS ELÉCTRICOS | | | |
| | ALEX QUINTANA | SIZE | PIEZA: | SHEET REV | |
| APROBÓ: | JUAN G ARDILA | A4 | SALIDAS BYTE 0 | | A |
| | | | | | PÁGINA 7 DE 11 |


1 2 3 4 5 6

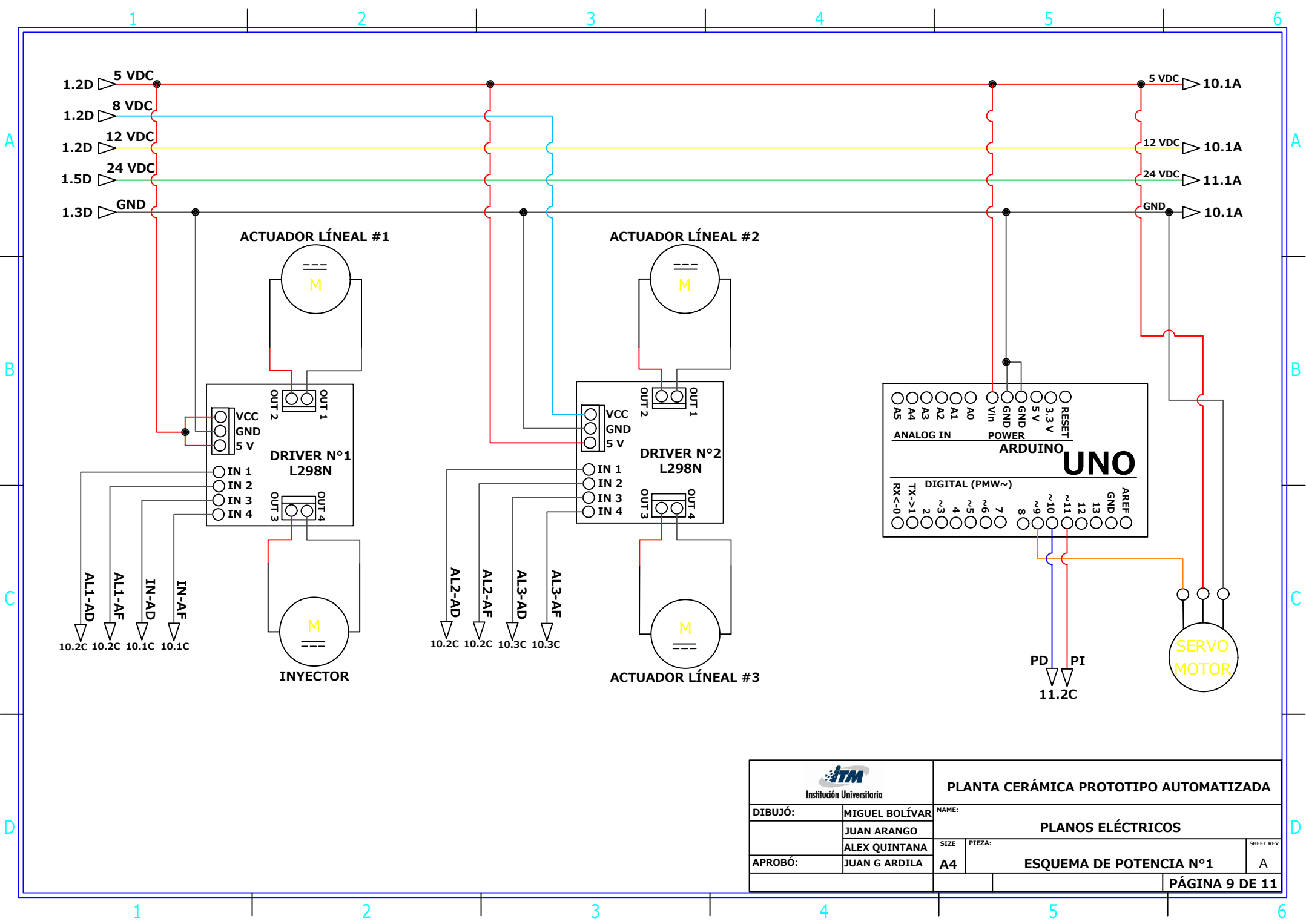
A
B
C
D


A
B
C
D

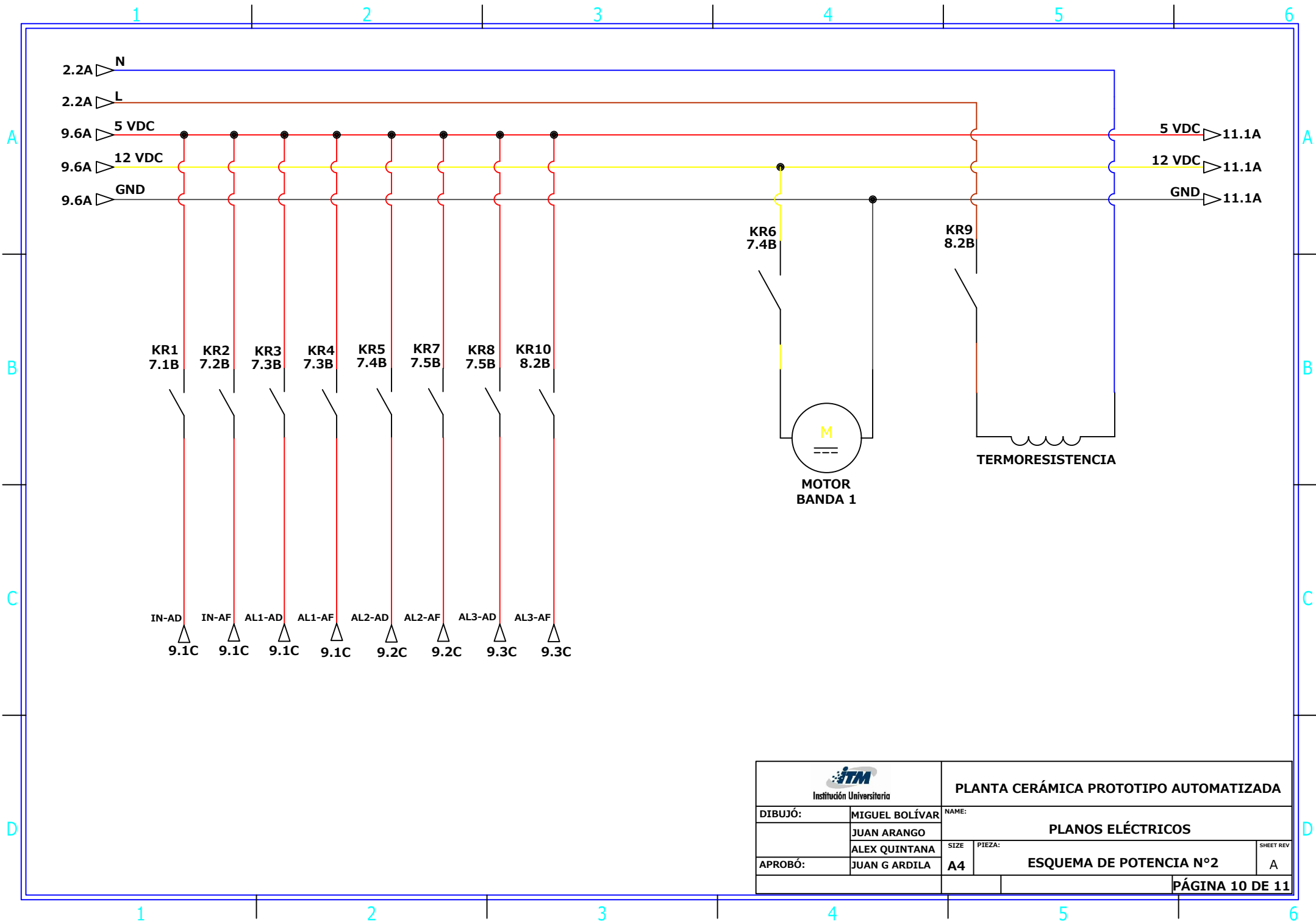
1.3D GND




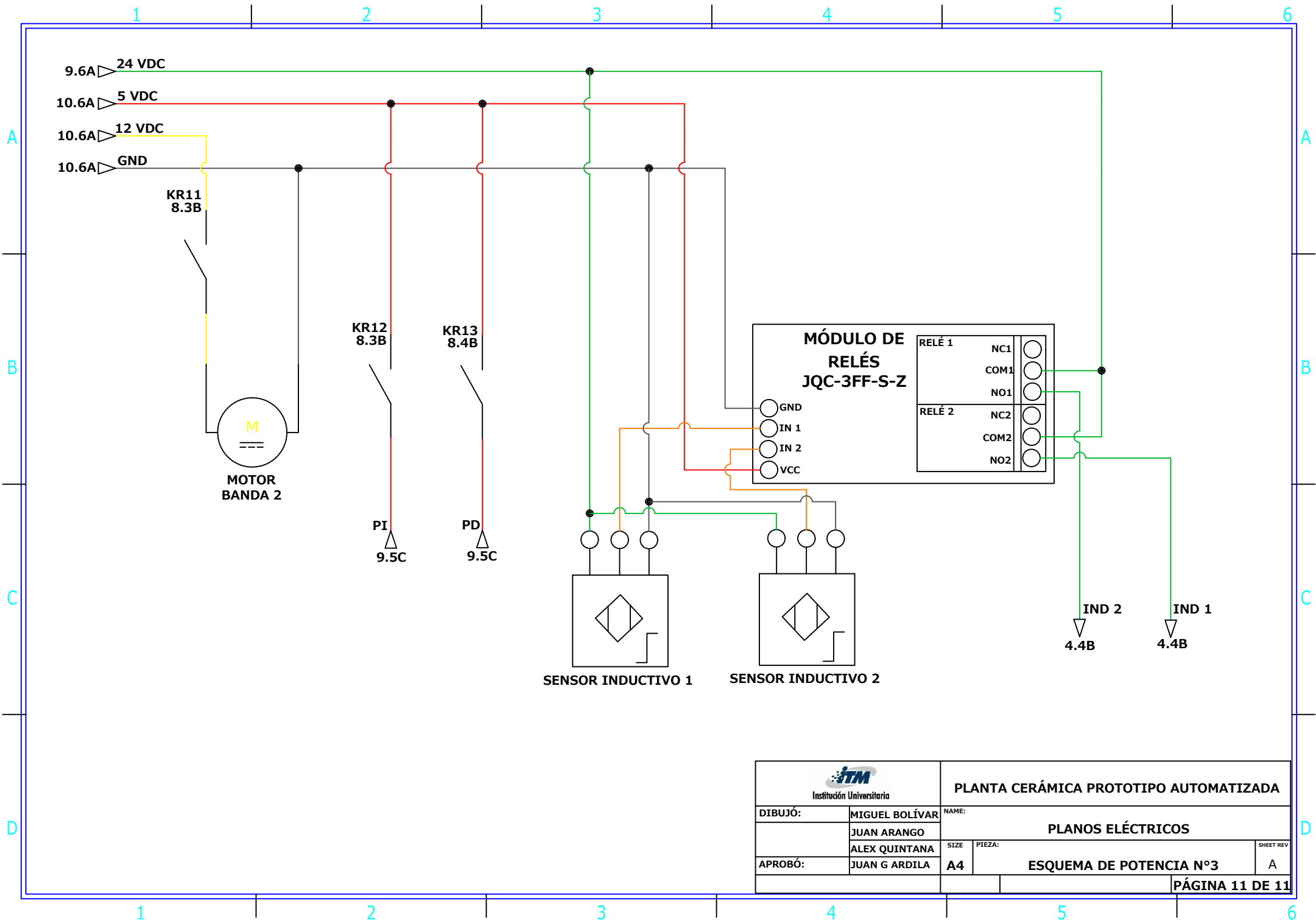
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| DIBUJÓ: | MIGUEL BOLÍVAR | NAME: | | | |
| | JUAN ARANGO | PLANOS ELÉCTRICOS | | | |
| | ALEX QUINTANA | SIZE: | PIEZA: | SHEET REV: | |
| APROBÓ: | JUAN G ARDILA | A4 | SALIDAS BYTE 1 | | A |
| | | | | | PÁGINA 8 DE 11 |




| | | | | |
|--|----------------|---|--------------------------------|-----------------------|
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| DIBUJÓ: | MIGUEL BOLÍVAR | NAME: | | |
| | JUAN ARANGO | PLANOS ELÉCTRICOS | | |
| | ALEX QUINTANA | SIZE: | PIEZA: | SHEET REV: |
| APROBÓ: | JUAN G ARDILA | A4 | ESQUEMA DE POTENCIA N°1 | |
| | | | | A |
| | | | | PÁGINA 9 DE 11 |



| | | | | |
|--|----------------|---|--------------------------------|-----------------|
|  Institución Universitaria | | PLANTA CERÁMICA PROTOTIPO AUTOMATIZADA | | |
| DIBUJÓ: | MIGUEL BOLÍVAR | NAME: | | |
| | JUAN ARANGO | PLANOS ELÉCTRICOS | | |
| | ALEX QUINTANA | SIZE: | PIEZA: | SHEET REV: |
| APROBÓ: | JUAN G ARDILA | A4 | ESQUEMA DE POTENCIA N°2 | |
| | | | | PÁGINA 10 DE 11 |



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|--|----------------|---|--------------------------------|------------|------------------------|
|  Institución Universitaria | | PLANTA CERÁMICA PROTOTIPO AUTOMATIZADA | | | |
| DIBUJÓ: | MIGUEL BOLÍVAR | NAME: | | | |
| | JUAN ARANGO | PLANOS ELÉCTRICOS | | | |
| | ALEX QUINTANA | SIZE: | PIEZA: | SHEET REV: | |
| APROBÓ: | JUAN G ARDILA | A4 | ESQUEMA DE POTENCIA N°3 | | A |
| | | | | | PÁGINA 11 DE 11 |