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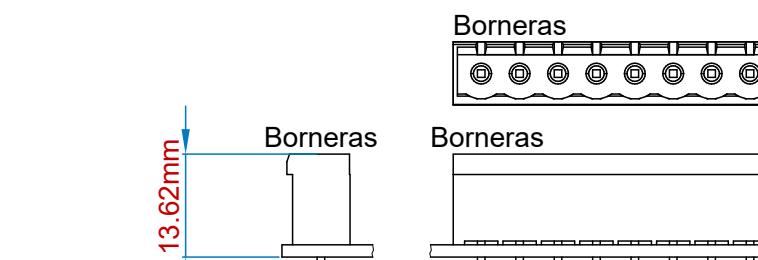
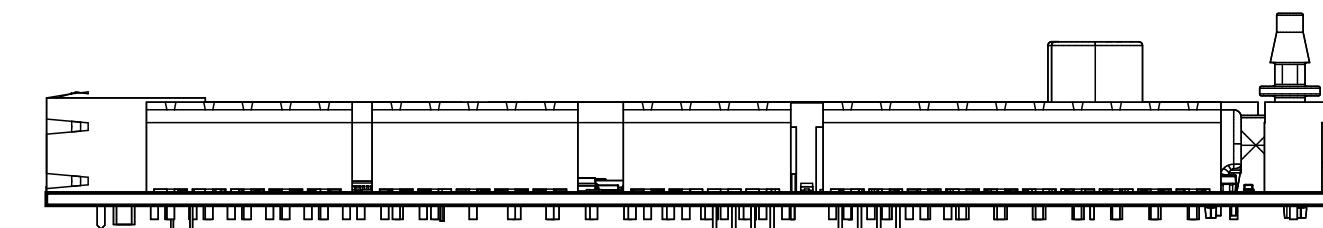
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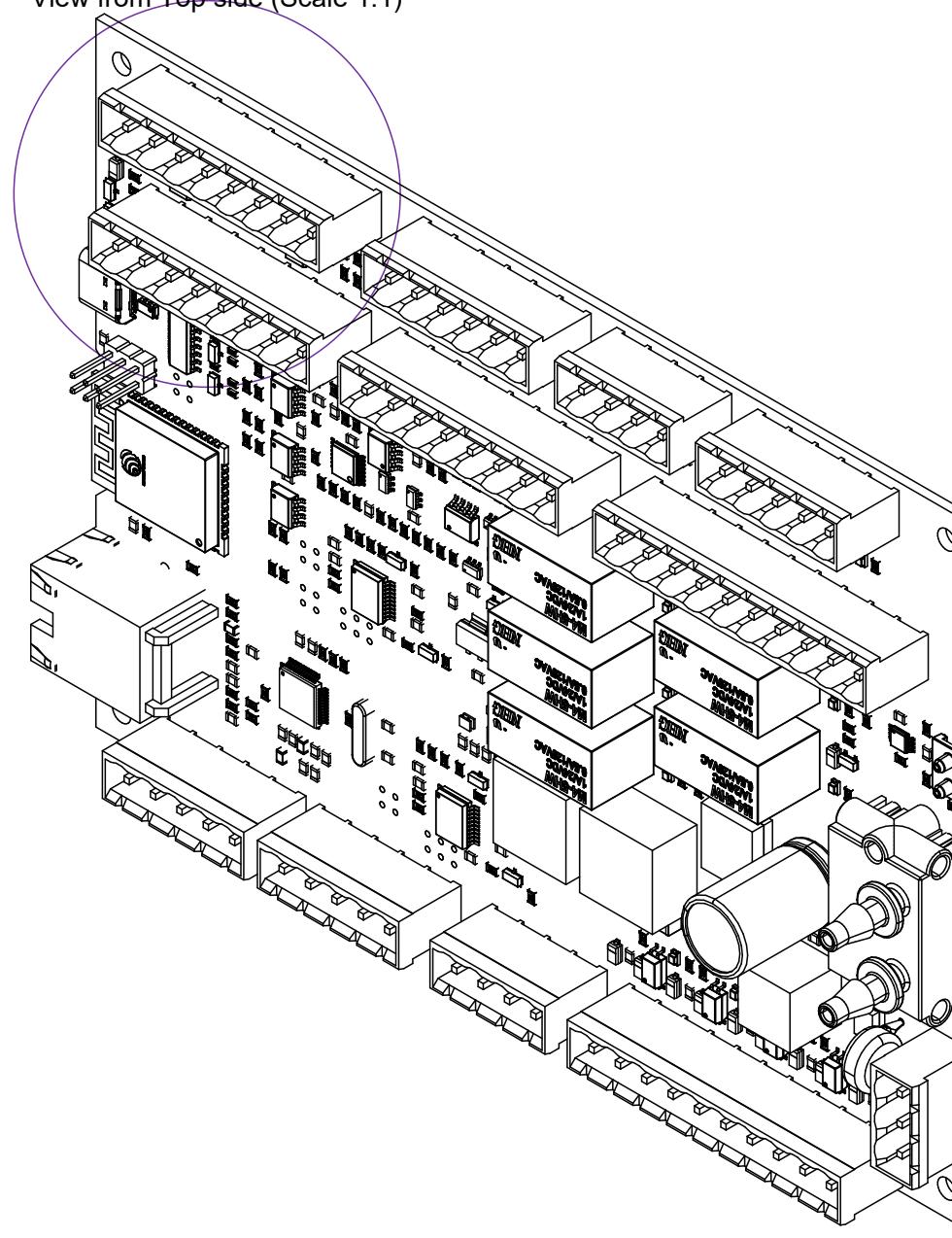
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SHEET			

ZONE	REV	DESCRIPTION	DATE	APPROVED

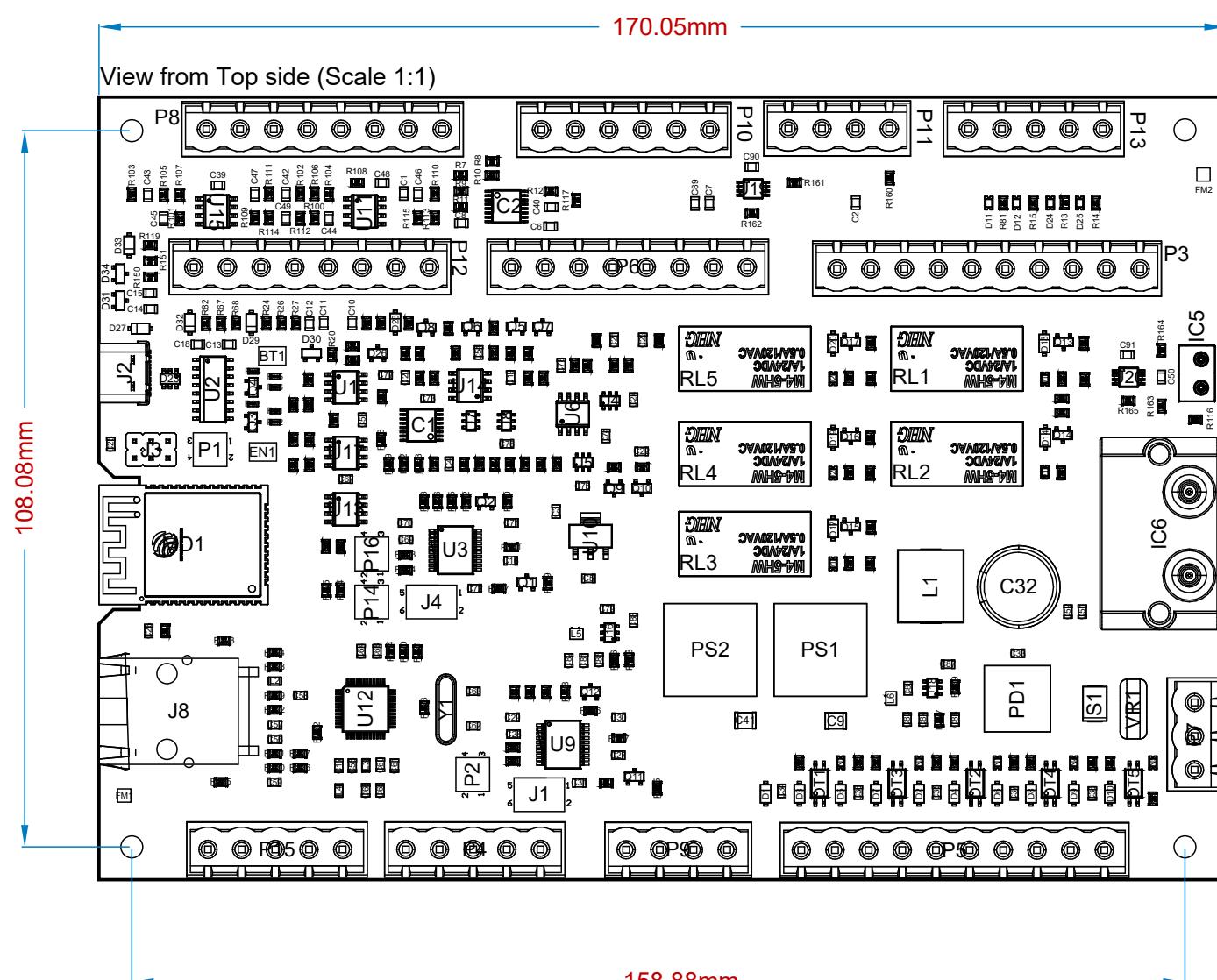
View from Front side (Scale 1:1)



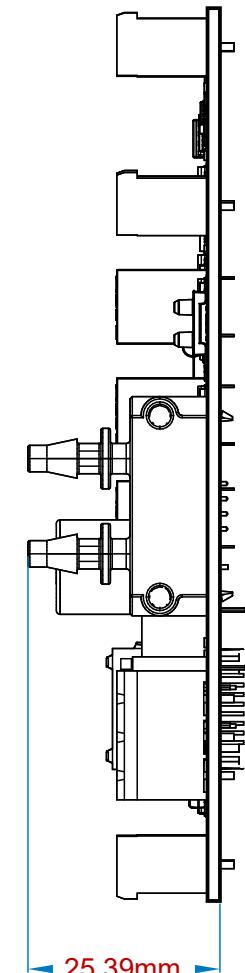
View from Top side (Scale 1:1)



View from Top side (Scale 1:1)



View from Right side (Scale 1:1)



PART NO: =PCB_PART_NUMBER

APPROVALS DATE

ENGINEER: Ignacio Islas

DESIGNER: Ignacio Islas

CHECKER: Ignacio Islas

REFERENCE DOCUMENTS

BOM DOC:

ASSY DOC:

SCH DOC:

PCB DOC:

APPLICATION



MAYOR NOVOA 845
(7000) Tandil Bs. As. Argentina
TEL.: +54 (249) 444 2280
www.redimec.com.ar

DESIGN ITEM: EcoControl

DESIGN ITEM REVISION:

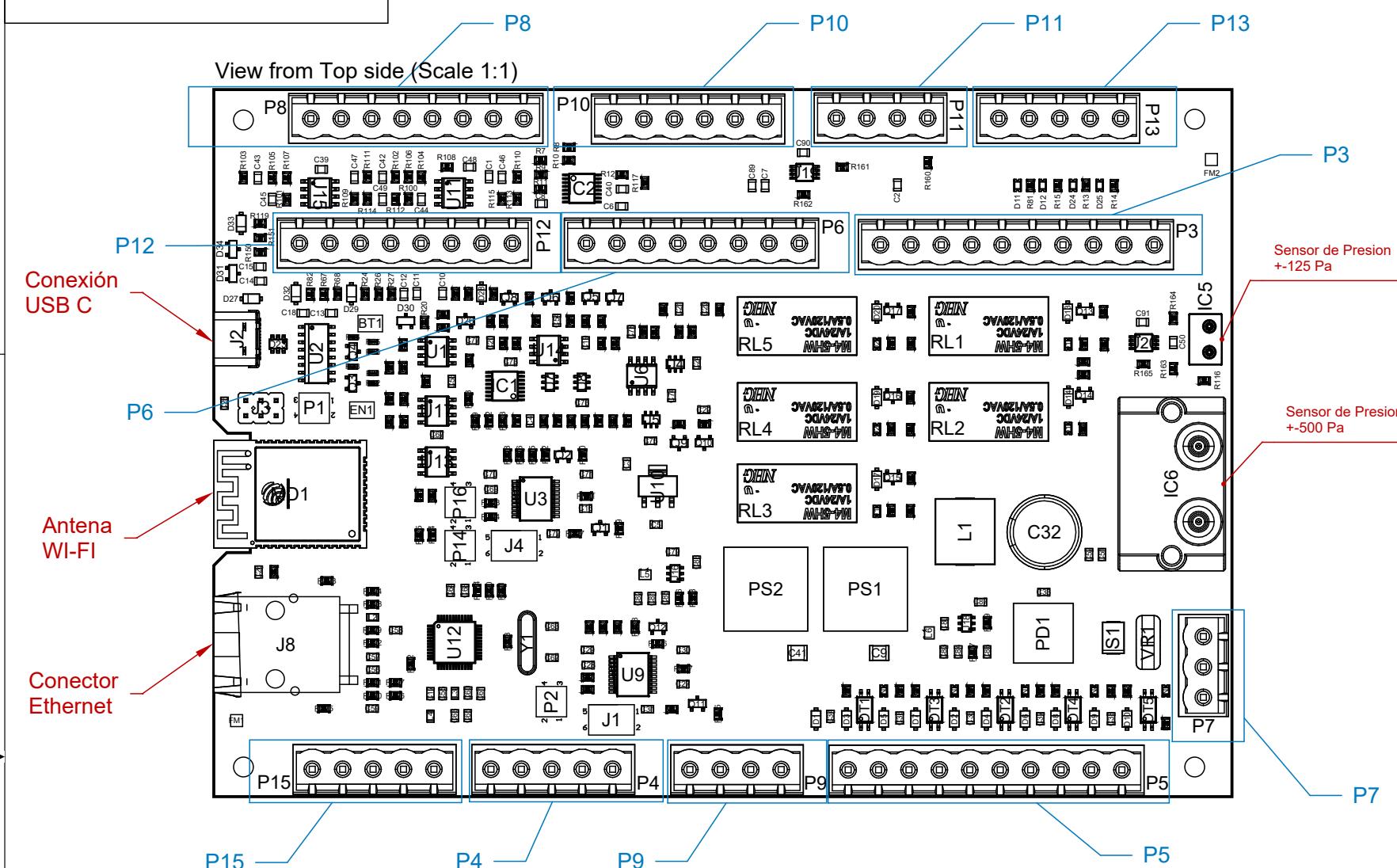
TITLE: EcoControl

SIZE: CAGE CODE: DWG NO:

B

REV:

SCALE:



DETAIL P8 (Scale 2:1)

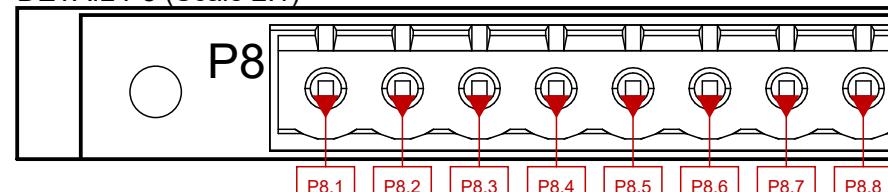


Tabla Bornera P8

PIN	Nombre	C.Central	HVAC	Presurizado
P8.1	Current 1	ADC Libre	Corriente Compresor	Corriente motor Presurizado
P8.2	GND			
P8.3	Current 2	ADC Libre	Corriente Ventilador	ADC Libre
P8.4	GND			
P8.5	Current 3	ADC Libre	Corriente Compresor 2	ADC Libre
P8.6	GND			
P8.7	Current 4	ADC Libre	Corriente Ventilador 2	ADC Libre
P8.8	GND			

DETAIL P11 (Scale 2:1)

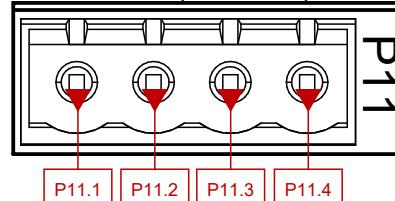


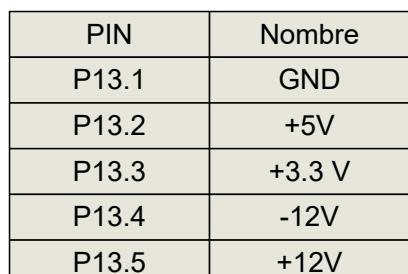
Tabla Bornera P11

PIN	Nombre	C.Central	HVAC	Presurizador
P11.1	SCL1	Temperatura y Humedad -Interior -Exterior	No utilizado	No utilizado
P11.2	GND			
P11.3	+5 V			
P11.4	SDA1			

PART NO: =PCB PART NUMBER

ANGLE PROJECTION 	PART NO.: -PC_1 PART NUMBER		 REDIMEC WWW.REDIMEC.COM.AR	MAYOR NOVOA 845 (7000) Tandil Bs. As. Argentina TEL.: +54 (249) 444 2280 www.redimec.com.ar		
	APPROVALS	DATE				
	ENGINEER:	Ignacio Islas				
	DESIGNER:	Ignacio Islas				
	CHECKER:	Ignacio Islas				
	Reference Documents			DESIGN ITEM: EcoControl		
BOM DOC:		TITLE: EcoControl				
ASSY DOC:		SIZE:	CAGE CODE:	DWG NO:	REV:	
SCH DOC:		B				
NEXT ASSY	USED ON	PCB DOC:			SCALE:	
APPLICATION					SHEET: 2 OF 7	

Tabla Bornera P13



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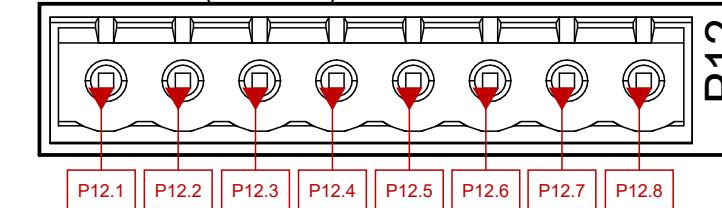
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REV STATUS OF SHEETS	REV SHEET	REVISIONS					
		ZONE	REV	DESCRIPTION		DATE	APPROVED

DETAIL P12 (Scale 2:1)

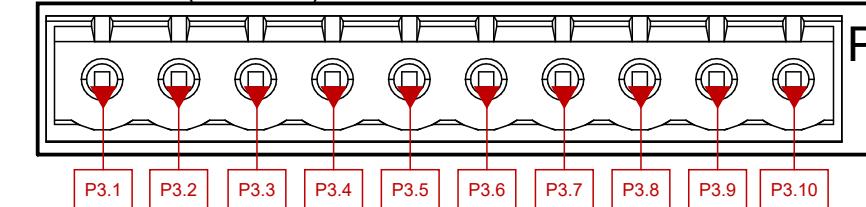


P12

Tabla Bornera P12

PIN	Nombre	C.Central	HVAC	Presurizador
P12.1	ADCIN4	ADC Spare	ADC Spare	ADC Spare
P12.2	GND			
P12.3	ADC_IN3	ADC Spare	ADC Spare	ADC Spare
P12.4	GND			
P12.5	ADC_IN2	ADC Spare	ADC Spare	ADC Spare
P12.6	GND			
P12.7	ADC_IN1	ADC Spare	ADC Spare	ADC Spare
P12.8	GND			

DETAIL P3 (Scale 2:1)

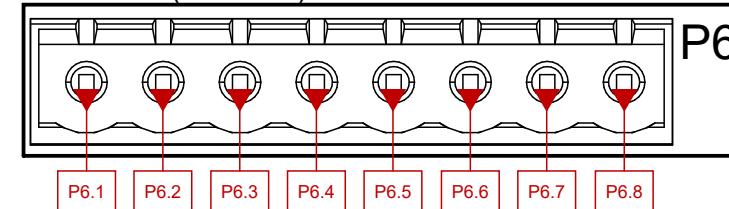


P3

Tabla Bornera P3

PIN	Nombre	C.Central	HVAC	Presurizador
P3.1	Rele 5 NO	No utilizado	Ventilación ON-OFF	G ON-OFF
P3.2	Rele 5 COM		Enfriamiento ON-OFF	W1 Calefacción ON-OFF
P3.3	Rele 4 NO		Calefacción ON-OFF	No utilizado
P3.4	Rele 4 COM		Selector Bomba de Calor ON-OFF	No utilizado
P3.5	Rele 3 NO		Humidificación	No utilizado
P3.6	Rele 3 COM			
P3.7	Rele2 NO			
P3.8	Rele 2 COM			
P3.9	Rele 1 NO			
P3.10	Rele 1 COM			

DETAIL P6 (Scale 2:1)



P6

Tabla Bornera P8

PIN	Nombre	C.Central	HVAC	Presurizador
P6.1	(4-20 mA) B1	Salidas 4-20mA No utilizadas	Deshumidificación (Salida)	G- Proporcional (salida)
P6.2	(4-20 mA) B2		Salida 4-20mA No utilizada	Deshumidificación(Salida)
P6.3	(4-20 mA) A1		Salida (0-10V) No Utilizado	Salida (0-10V) No Utilizado
P6.4	(4-20 mA) A2		Salida (0-10V) No Utilizado	Salida (0-10V) No Utilizado
P6.5	DAC(10V) 2		Salida (0-10V) No Utilizado	Salida (0-10V) No Utilizado
P6.6	GND		Salida (0-10V) No Utilizado	Salida (0-10V) No Utilizado
P6.7	DAC(10V) 1		Salida (0-10V) No Utilizado	Salida (0-10V) No Utilizado
P6.8	GND		Salida (0-10V) No Utilizado	Salida (0-10V) No Utilizado

PART NO: =PC8_PART_NUMBER

APPROVALS DATE

ENGINEER: Ignacio Islas

DESIGNER: Ignacio Islas

CHECKER: Ignacio Islas

Reference Documents

BOM DOC:

ASSY DOC:

SCH DOC:

NEXT ASSY USED ON PCB DOC:

APPLICATION

PCB DOC:

SCALE:

DWG NO:

CAGE CODE: B

REV: 0


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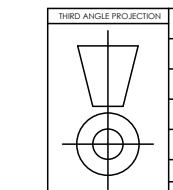
DESIGN ITEM: EcoControl

DESIGN ITEM REVISION:

TITLE:

EcoControl

SCALE: 3 OF 7



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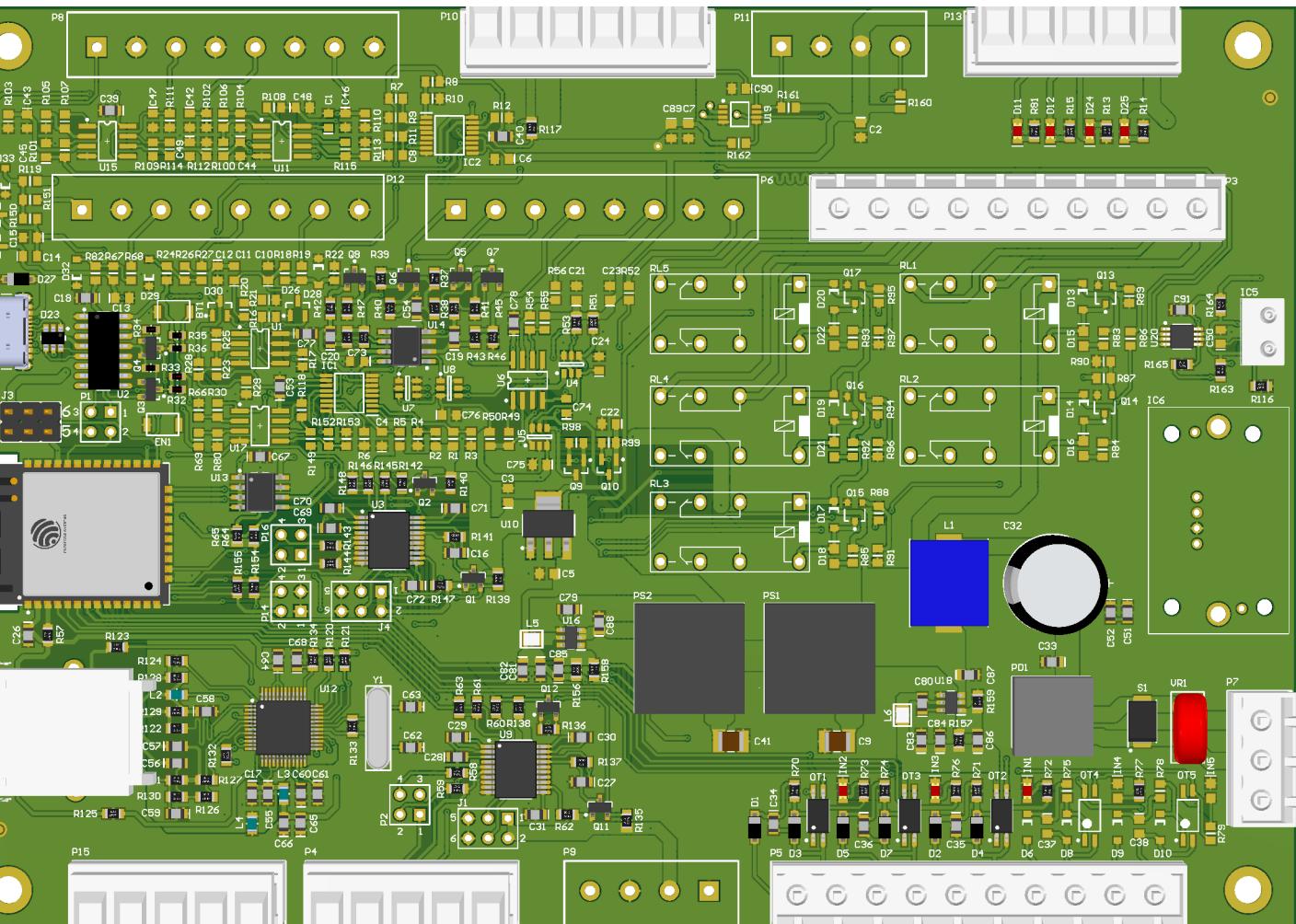
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A		B		C		D		E		F	
Ref.	Componente	Description		Precio	Quantity	Total	REV STATUS OF SHEETS	REV		REVISIONS	
										ZONE	REV
1	SPST.B3U-1000P(M)-B			0.58	2	1.16					
	USBLC6-2			0.58	1	0.58					
	SDP32-125Pa-TR-250pcs	Pressure Sensor ±0.018PSI (± 0.125kPa)	Differential Male - 0.08" (2.00mm) Tube, Dual 16 b 16-SMD Module	34.22	1	34.22					
	USB4105-GF-A	Conn USB 2.0 Type C RCP 24 POS 0.3mm/0.5mm Solder RA SMD 24 Terminal 1		0.85	1	0.85					
	ESP32-WROOM-32D (16MB)	1 Port RJ45 Through Hole 10/100 Base-T, AutoMDIX		4.65	1	4.65					
	RJ45	Conn RJ-45 RCP 8 POS 2.54mm Solder RA Thru-Hole 12 Terminal 1 Port		5.64	1	5.64					
2	1-796636-0 (Conector 10posiciones)	Header 10		4.12	2	8.24					
	796636-5 (Conector 5 posiciones)	Header, 5-Pin		2.31	2	4.62					
	796636-4 (Conector 4 posiciones hembra)	Conn Shrouded Header (4 Sides) HDR 10 POS 5.08mm Solder ST Top Entry Thru-Hole Box		1.64	1	1.64					
	796636-3 (Conector 3 posiciones)	Header, 3-Pin		1.24	1	1.24					
	796636-6 (Conector 6 posiciones hembra)	Header Shrouded 6 Position 5.08 mm Pitch Euro Style Terminal Block		3.31	1	3.31					
	796636-8 (Conector 8 posiciones)	Header, 5-Pin		3.29	1	3.29					
	Puente Rectificador	5		5	1	5					
	ITU0324D12	DC-DC Converter, Dual Output, 3W, +/-12V, +/-125mA, 9-36V In, ITU03 Series		14.5	1	14.5					
	ITU0324S05	DC-DC Converter, Single Output, 3W, 5V, 600mA, 9-36V In, ITU03 Series		13.95	1	13.95					
	CH340C	USB to serial chip CH340		0	1	0					
	ISL81387	ISL3138 Series ±15 kV ESD 5 V One Port RS-232/RS-485 Transceiver - SSOP-20		8.33	2	16.66					
	LM1117-33	IC REG LDO 3.3V 0.8A SOT223		0.42	1	0.42					
	W5500	IC CTLR 3-1 ETH TCP/IP 48LQFP		4.07	1	4.07					
3	AT24CM02-SSHD-T	1Kbit, 400kHz, 1.8V, I2C Serial EEPROM, 8-Pin MSOP, Industrial Temperature		3.29	1	3.29					
	AP63205WU-7	IC REG BUCK 5V 2A TSOT26		0.91	2	1.82					
	HMHA2801R2	Phototransistor Optocouple, 6 V, 50 mA, -55 to 100 degC, 4-Pin SOIC, RoHS, Tube		0.71	3	2.13					
	PCA9515BDGKR	Dual Bidirectional I2C Bus and SMBus Repeater, 2 Channel Width, 2.3 to 3.6 V, -40 to 85 degC, 8-pin MSOP (DGK), Green (RoHS &		1.3	1	1.3					
	796634-5(Conector 5 posiciones)	Header, 5-Pin		4.63	2	9.26					
	796634-4 (Conector 4 posiciones macho)	Conn Shrouded Header (4 Sides) HDR 10 POS 5.08mm Solder ST Top Entry Thru-Hole Box		3.71	2	7.42					
	796636-3 (Conector 3 posiciones)	Header, 3-Pin		2.46	1	2.46					
	796634-6 (Conector 6 posiciones macho)	Header Shrouded 6 Position 5.08 mm Pitch Euro Style Terminal Block		7.58	1	7.58					
	796636-8 (Conector 8 posiciones)	Header, 5-Pin		8.98	1	8.98					
4	Resistencias 0805			0.72	80	57.6					
	Transistores			0.35	10	3.5					
	Inductores			0.57	6	3.42					
	Diodos			0.39	15	5.85					
	Cristal			0.74	1	0.74					
	Capacitores 0805/1206			0.57	56	31.92					
	Total en ARS a USD oficial(112.59)				Total FOB	271.31					
	30546.8										

Variante Control Central

Realistic View



PART NO: =PC8_PART_NUMBER

APPROVALS DATE

ENGINEER: Ignacio Islas

DESIGNER: Ignacio Islas

CHECKER: Ignacio Islas

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Reference Documents

BOM DOC:

ASSY DOC:

SCH DOC:

PCB DOC:

APPLICATION

SCALE:

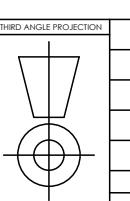
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CAGE CODE:

DWG NO:

Sheet: 5 of 7

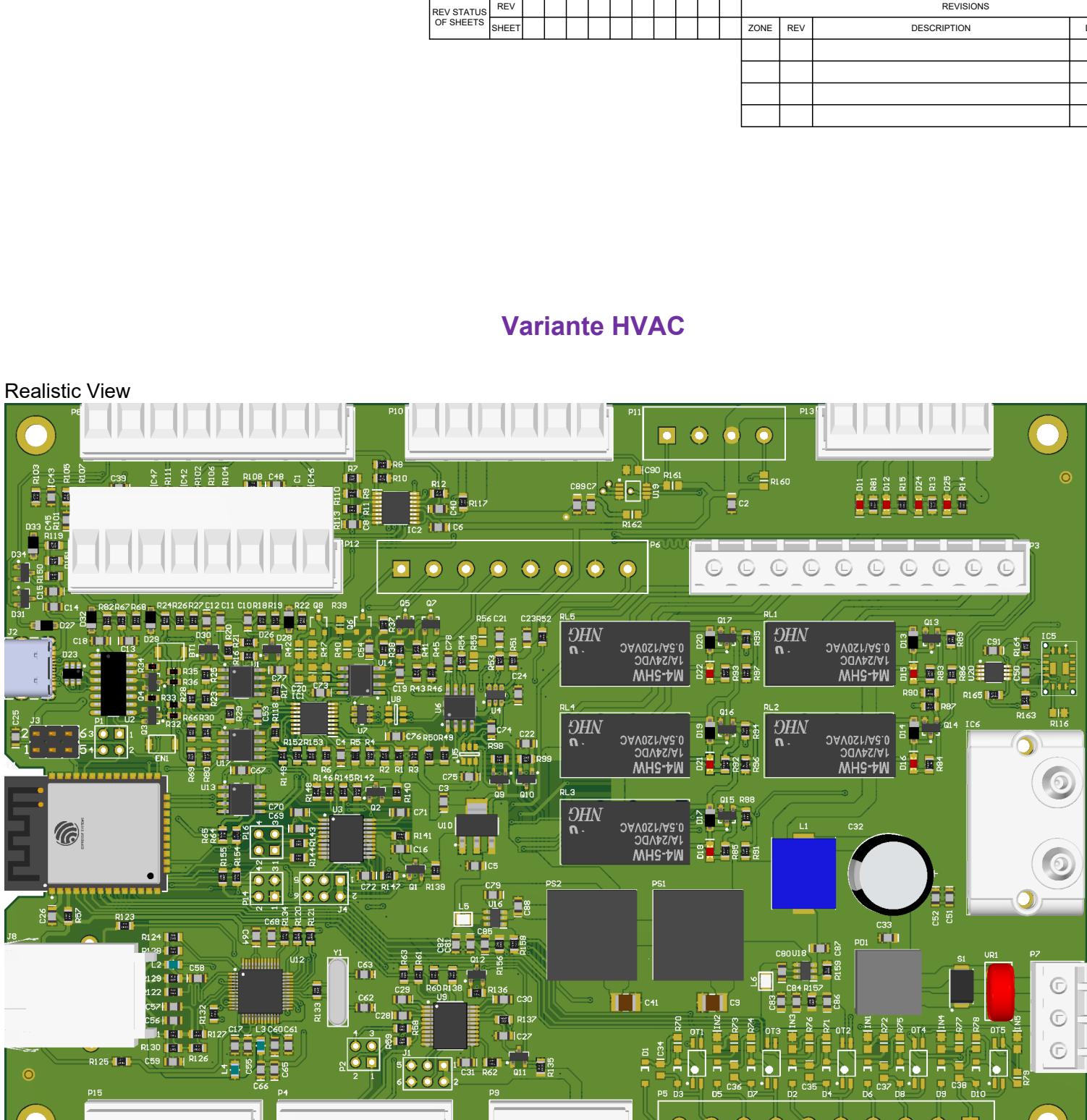


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A				B				C				D				E				F				
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													SHEET				ZONE	REV	DESCRIPTION		DATE	APPROVED		
1	USBLC6-2	0.58	1	0.58																				
1	ADS1219IPWR	7.21	2	14.42																				
1	SDP810-500PA	34.22	1	34.22																				
1	USB4105-GF-A	0.85	1	0.85																				
1	RJ45	5.64	1	5.64																				
1	ESP32-WROOM-32D (16MB)	4.65	1	4.65																				
1	1-796636-0	4.12	1	4.12																				
1	796636-5	2.31	3	6.93																				
1	796636-3	1.24	1	1.24																				
1	796636-8	3.29	2	6.58																				
1	796636-4	1.64	1	1.64																				
1	796636-6	3.31	1	3.31																				
2	Puente Rectificador	0	1	0																				
2	ITU0324D12	14.5	1	14.5																				
2	ITU0324S05	13.95	1	13.95																				
2	Rele HJR 1-2C	2.5	5	12.5																				
2	CH340C	0	1	0																				
2	ISL81387	8.33	2	16.66																				
2	MCP4725A2T-E/CH	1.28	2	2.56																				
2	LM1117-33	0.42	1	0.42																				
2	W5500	4.07	1	4.07																				
2	AT24CM02-SSHD-T	3.29	1	3.29																				
2	AP63205WU-7	0.91	2	1.82																				
2	PCA9515BDGKR	1.3	1	1.3																				
3	Resistencias 0805	0.72	143	102.96																				
3	Transistores	0.35	15	5.25																				
3	Inductores	0.57	6	3.42																				
3	Diodos	0.39	24	9.36																				
3	Cristal	0.74	1	0.74																				
3	Capacitores 0805/1206	0.57	84	47.88																				
3	796634-5(Conecotor 5 posiciones macho)	4.63	3	13.89																				
3	796634-4 (Conecotor 4 posiciones macho)	3.71	1	3.71																				
3	796636-3 (Conecotor 3 posiciones macho)	2.46	1	2.46																				
3	796634-6 (Conecotor 6 posiciones macho)	7.58	1	7.58																				
3	796636-8 (Conecotor 8 posiciones macho)	8.98	2	17.96																				
4	1-1546108-0(Conecotor 10 posiciones macho)	6.03	1	6.03																				
4				Total FOB	426.63																			
4	Pinzas de Corriente (Sct013)(mercadolibre)	1857	4	7428																				
4	DS18b20(mercadolibre)	650	4	2600																				
4				Total(ARS)	10028																			
4	Total en ARS a USD oficial(112.59)						52155.8591																	



PART NO: =PCB_PART_NUMBER		APPROVALS		DATE	
ENGINEER: Ignacio Islas		DESIGNER: Ignacio Islas		CHECKER: Ignacio Islas	
Reference Documents		BOM DOC:		ASSY DOC:	
SCH DOC:		NEXT ASSY		USED ON	
PCB DOC:		APPLICATION		PCB DOC:	
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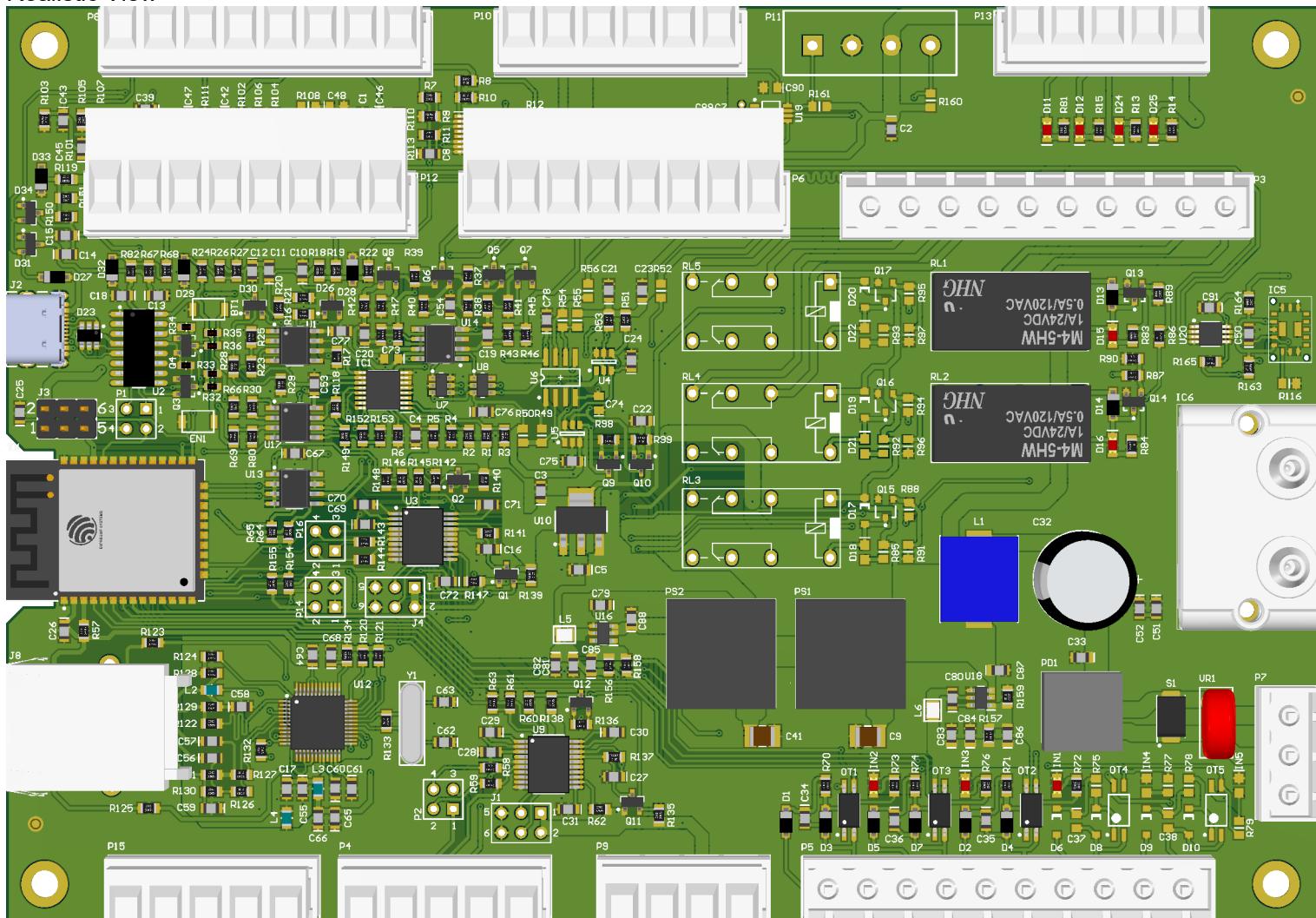
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DESIGN ITEM: EcoControl DESIGN ITEM REVISION: **EcoControl**

A	B	C	D	E	F			
				REV STATUS OF SHEETS	REVISIONS			
				SHEET	ZONE REV	DESCRIPTION	DATE	APPROVED
1	Comment	Precio	Quantity	Total				
	SPST.B3U-1000P(M)-B	0.58	2	1.16				
	USBLC6-2	0.58	1	0.58				
	ADS1219IPWR	7.21	2	14.42				
	SDP810-500PA	34.22	1	34.22				
	USB4105-GF-A	0.85	1	0.85				
	RJ45	5.64	1	5.64				
	ESP32-WROOM-32D (16MB)	4.65	1	4.65				
	HMHA2801R2	0.71	3	2.13				
	796636-5	2.31	3	6.93				
	1-796636-0	4.12	2	8.24				
	796636-3	1.24	1	1.24				
	796636-8	3.29	3	9.87				
	796636-4	1.64	1	1.64				
	796636-6	3.31	1	3.31				
2	Puente Rectificador	5	1	5				
	ITU0324D12	14.5	1	14.5				
	ITU0324S05	13.95	1	13.95				
	Rele HJR 1-2C	2.5	2	5				
	OPA2333	2.5	4	10				
	CH340C	0	1	0				
	ISL81387	8.33	2	16.66				
	MCP4725A1T-E/CH	1.28	2	2.56				
	LM1117-33	0.42	1	0.42				
	W5500	4.07	1	4.07				
	AT24CM02-SSHD-T	3.29	1	3.29				
	AP63205WU-7	0.91	2	1.82				
	PCA9515BDGKR	1.3	1	1.3				
	XTAL	0.74	1	0.74				
3	Capacitores	0.57	82	46.74				
	Resistencias	0.72	134	96.48				
	Inductores	0.57	6	3.42				
	Diodos	0.39	15	5.85				
	Transistores	0.35	12	4.2				
	796634-5(Conector 5 posiciones macho)	4.63	3	13.89				
	796634-4 (Conector 4 posiciones hembra)	3.71	1	3.71				
	796636-3 (Conector 3 posiciones hembra)	2.46	1	2.46				
	796634-6 (Conector 6 posiciones hembra)	7.58	1	7.58				
	796636-8 (Conector 8 posiciones hembra)	8.98	3	26.94				
4	1-1546108-0(Conector 10 posiciones macho)	6.03	1	6.03				
		Total FOB(USD)		391.49				
	Pinzas de Corriente (Sct013)	1857	4	7428				
	DS18b20	650	1	650				
		Total(ARS)		8078				
	Total en ARS a USD oficial(112.59)			52155.8591				

Variante Presurizador

Realistic View



PART NO: =PC8_PART_NUMBER

APPROVALS DATE

ENGINEER: Ignacio Islas

DESIGNER: Ignacio Islas

CHECKER: Ignacio Islas

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DESIGN ITEM: EcoControl DESIGN ITEM REVISION:

Reference Documents

BOM DOC:

ASSY DOC:

SCH DOC:

PCB DOC:

APPLICATION

SCALE:

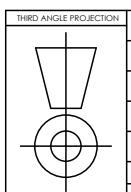
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CAGE CODE:

DWG NO:

Sheet: 7 of 7



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