



Instruction manual

Model No.: BV-134-60



INTRODUCTION

The operator should always keep safety principles in mind by reading the manual carefully.

Submit approved safety operations strictly in accordance with this manual.

We recommend that you read the manual carefully in order to guide the user with all the information pertinent to the use and operation of the equipment, such as; operating conditions.

By following the basic operating instructions, the equipment will remain in perfect condition, extending the warranty and quality of the equipment.

It is important to keep the manual accessible to everyone who needs it. Maintenance must be carried out by qualified technicians.



Illustrative Image:





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1. PRESENTATION

- 1.1. This manual is intended to inform about the correct way to use the equipment, seeking to avoid possible incidents or accidents, causing losses resulting from misuse or lack of knowledge. Read the manual before use.

2. RECOMMENDATIONS

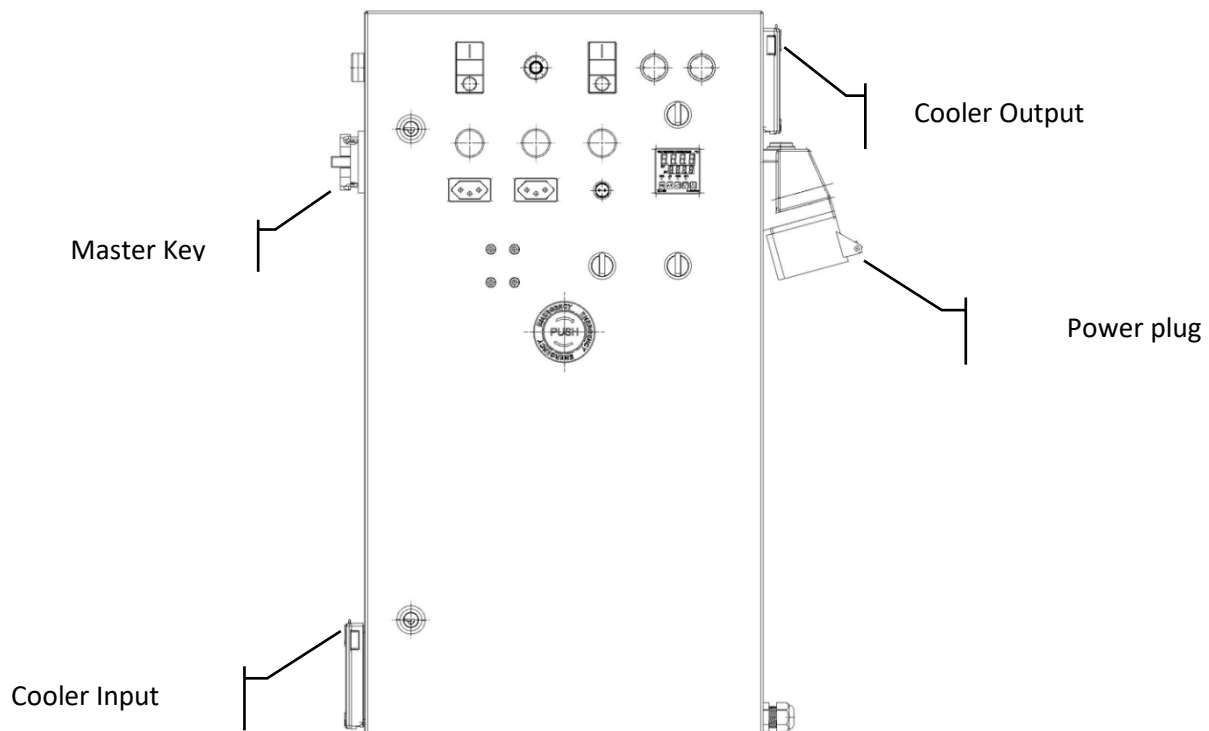
- 2.1. We recommend reading this manual in order to instruct the user in all information related to the operation of the equipment as well as structure, installation, operation, operation and maintenance. In order for the user to handle safely and maintain the product warranty, all instructions in this manual must be followed. It is important to keep the manual accessible to everyone who needs it. Maintenance must be carried out by trained people.

3. SECURITY MEASURES

- 3.1. Before using the equipment, read the manual carefully and perform all operations correctly.

Before turning on, check that the equipment is correctly connected to the mains to avoid any problem with the equipment.

Whenever the pump is on, keep the door of the electrical panel closed for cooling of the inverter.





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4. PRODUCT PRESENTATION

4.1. Bench designed to use flow meters; (1/2") and (2") inches, adapters can be used at the system inputs and outputs.

Reservoir volume; Maximum capacity for 300 liters.

Note. Always keep the reservoir level at the height of the display at the top as illustrated below. "5.1."

4.2. Operating fluid; drinking water at room temperature.

5. ELECTRICAL CONNECTION

5.1. Before connecting to an ELECTRICAL NETWORK, make sure that it can handle the power of the equipment. Check correct supply voltage to avoid a breakdown in electrical components.

5.2. Grounding; Always use grounding to avoid any type of discharge in the equipment, or a possible accident in operation.

5.3. The installation and connection operation should be done by a qualified technician.

6. OPERATION

6.1. Panel Bonding and Operation:

Powering the panel; Before plugging the extension cord into the panel, make sure that the main switch is in the OFF position, located on the left side of the panel.

6.2. Front panel for activation and control.

24-Dc voltmeter socket.

127-Ac voltmeter socket.

220-Ac voltmeter socket.

Selector switch on/off pump.

On/off valve button.

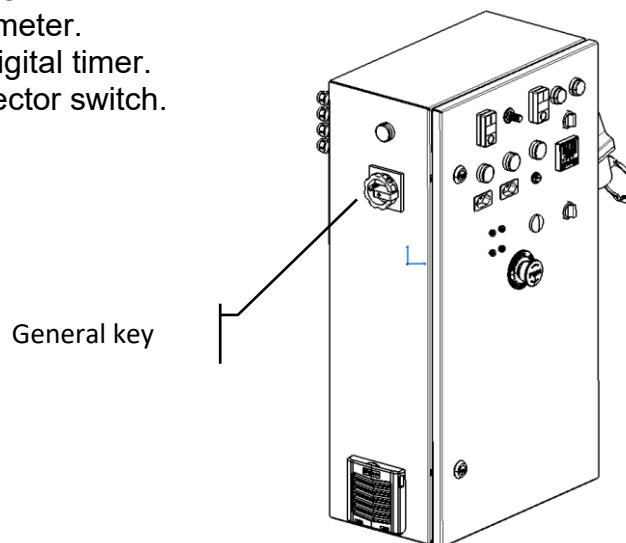
Selector switch selects defaults.

Standard Signal Connectors.

Inverter potentiometer.

Predetermined digital timer.

Auto/manual selector switch.





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7. PREVENTIVE MAINTENANCE AND CONSERVATION

- 7.1. Preventive Maintenance: Preventive maintenance of equipment must be done by a qualified person.
Before any maintenance, make sure it is turned off or de-energized.
In case of electrical problems, contact a professional in the area.
- 7.2. Cleaning of the reservoir; It can be done through the manhole cover on the top.
Access allows you to use a pressure washer or optional cleaning tools that are not pointed.
- 7.3. Avoid transporting the equipment with a full tank, if you need to move it with forklifts and overhead cranes.
- 7.4. Electric rotary actuator: Periodic inspections and adequate lubrication every six months are recommended.
- 7.5. Centrifugal pump: Low maintenance, periodic inspections by the operator are recommended such as; increased noise, vibration or low yield.
- 7.6. Electrical panel: Cleaning of the screen filters so as not to obstruct the ventilation at the entrance and exit of the coolers.
 - 7.6.1. Ideally, it should be removed and cleaned at an interval of three months.

8. WARRANTY

This term aims to guarantee for a period of 6 months from the date of issuance of the invoice.

9. CONSIDERATIONS

- 9.1. Manufacturing defect: If the quality of the product against manufacturing defects may affect its operation during this period, all parts and components that present proven design and/or manufacturing defects will be submitted at no cost to the customer.
- 9.2. For maintenance under warranty, it will be necessary to send the equipment to the address of the company FPP Engenharia.
- 9.3. Application of Warranty: The warranty applies only to new products, and does not apply to any components that have been modified.

10. LOSS OF WARRANTY

- 10.1. Incompatible material: Incompatibility caused by products purchased from third parties and installed together with the products.
- 10.2. Power supply: The product is connected to the mains outside the specified standards.





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- 10.3. Improper use; found that the equipment was altered, parts were replaced by unqualified people.
- 10.4. Improper handling: Negligence or malpractice in the use/improper handling of the equipment improper to the purposes for which it is intended or in disagreement with the product specification, such as the identification of objects that obstruct the ventilation of the equipment, considering that good ventilation is an indispensable requirement for the efficiency of most equipment.

11. CONSIDERATIONS

- 11.1. Warranty Term: The warranty of said term is conditioned to the correct handling and transportation of the product and the agreement with the conditions described below.
The product should not be handled abruptly.
- 11.2. Periodic and/or preventive maintenance: Adjustments are the responsibility of the customer and are not covered by the warranty.
FPP Engenharia is not responsible for any accident that occurs as a result of the improper use of the equipment, or lack of maintenance of the same.
- 11.3. Factory defect: If the product is defective, immediately contact FPP Engenharia.





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12. ELECTRICAL DIAGRAM

12.1. Cover.

Desenhado		Data	Nome		Assinaturas		Empresa: DS Elétrica LTDA Site: www.dselétrica.com E-mail: contato.dselétrica@gmail.com Telefone: (11) 9 4981-5031		Título: FOLHA DE CAPA Projeto: BV-134-60 Cliente: FPP ENGENHARIA		Data	Num:
Verificado		24/06/2025	Diego S.								24/06/2025	1 de 10
A	B	C	D	E	F	G	H					
5	4	3	2	1								





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12.2. Description.

Folha	DESCRIÇÃO
1	FOLHA DE CAPA
2	INDICE GERAL
3	SIMBOLOGIA
4	FOLHA DE DADOS
5	POTÊNCIA
6	COMANDO
7	ATUADORES/MEDIDORES
8	TEMPORIZADOR
9	COMANDO INVERSOR
10	RÉGUA DE BORNE

Data		Nome		Assinaturas		Empresa: DS Elétrica LTDA Site: www.dselétrica.com E-mail: contato.dselétrica@gmail.com Telefone: (11) 9.4987-9031		Título: INDICE Projeto: BV-134-60 Cliente: FPP ENGENHARIA		Data		Num:	
Desenhado		Daniel S.								24/06/2025		2 de 10	
Verificado		Diego S.								Arquivo: BV-134-60.CAD			

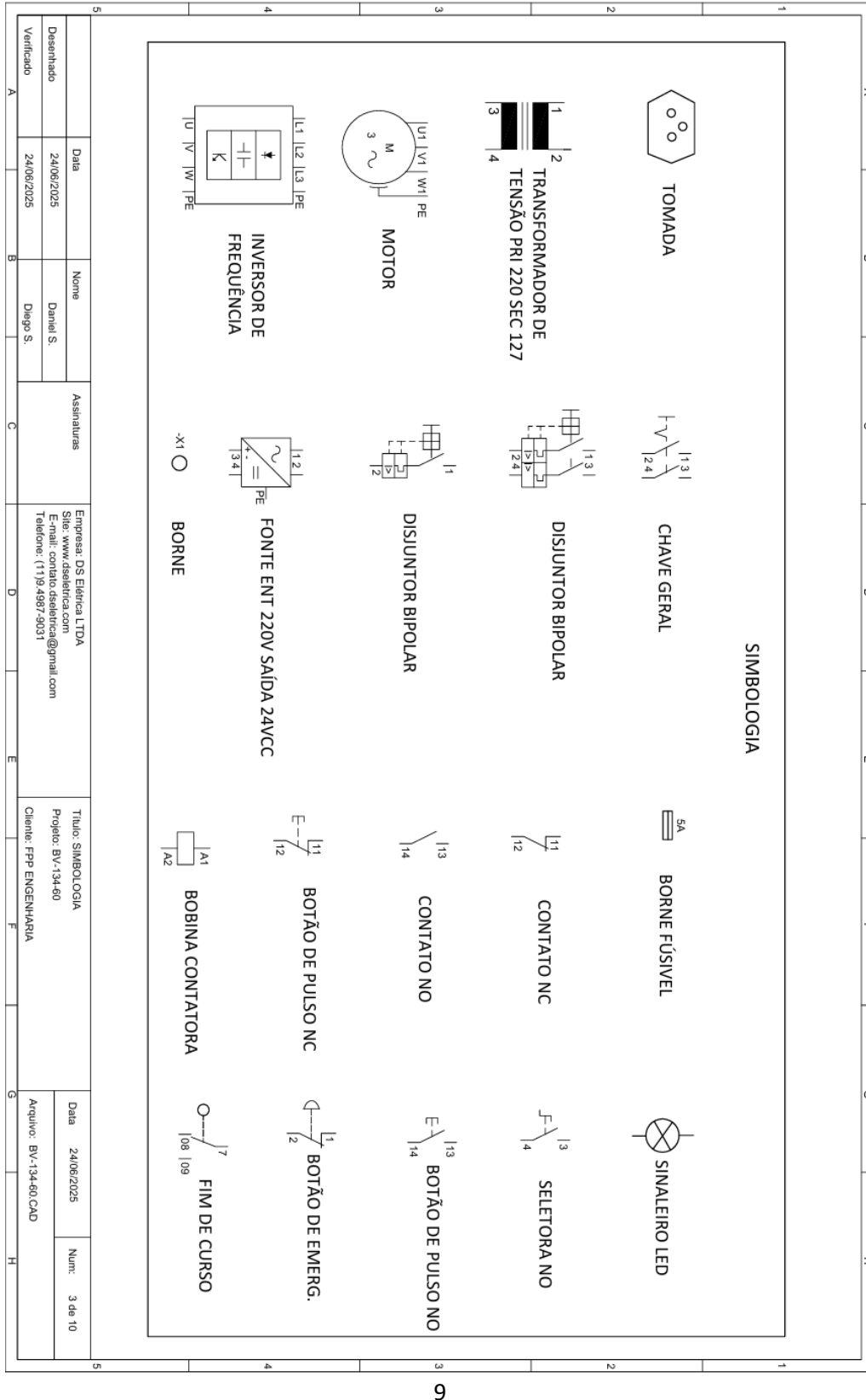




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12.3. Symbology.



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12.4. Technical information.

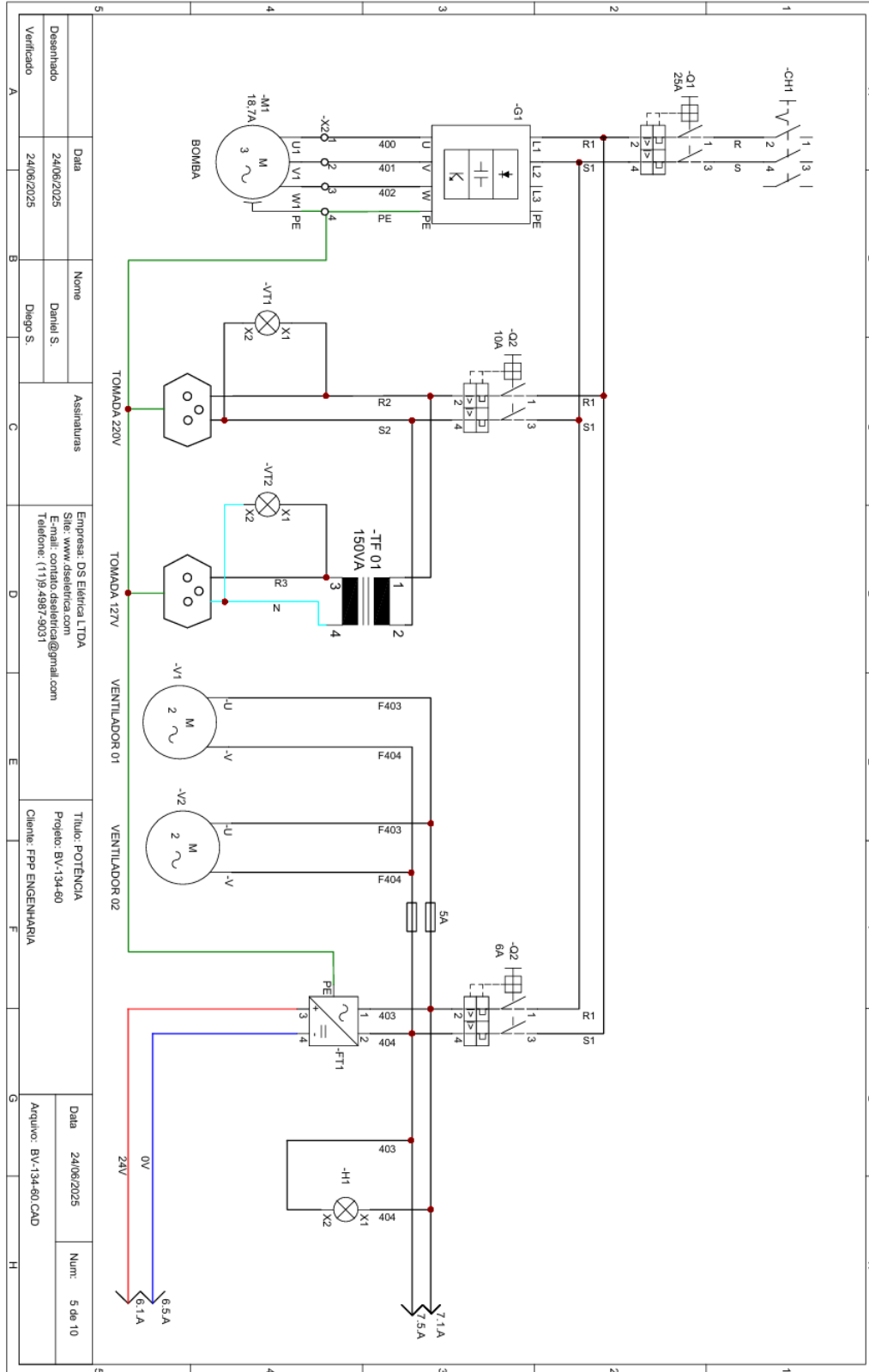
A	B	C	D	E	F	G	H
INFORMAÇÕES TÉCNICAS							
1- CONSTRUÇÃO							
Estrutura em aço inox:							
		<input type="checkbox"/> 1,2mm				<input type="checkbox"/> Superior	
		<input checked="" type="checkbox"/> 2,0mm				<input checked="" type="checkbox"/> Inferior	
Fechamento ext. (Portas, tampas laterais e fechamento superior) bitolas :							
		<input type="checkbox"/> 1,2mm				<input type="checkbox"/> Superior	
		<input checked="" type="checkbox"/> 2,0mm				<input checked="" type="checkbox"/> Inferior	
Placa de montagem bitola:							
		<input type="checkbox"/> 2,0mm				<input type="checkbox"/> Superior	
		<input type="checkbox"/> 2,5mm				<input type="checkbox"/> Inferior	
		<input checked="" type="checkbox"/> 3,0mm					
Painel de montagem							
		<input type="checkbox"/> Autosuportante					
		<input checked="" type="checkbox"/> Metal Enclosed					
		<input type="checkbox"/> Metal Clad					
2-ACABAMENTO FINAL EXTERNO E INTERNO							
Pintura eletrostatica a pó:							
		<input type="checkbox"/> Cinza RAL 7032					
		<input type="checkbox"/> Cinza Musell N6.5					
		<input type="checkbox"/> Laranja RAL 2000					
Pintura da placa de montagem:							
		<input checked="" type="checkbox"/> Conforme Norma A.B.N.T					
3- IDENTIFICAÇÃO DAS BARRAS							
Obs: Cores A.B.N.T							
		Fase R = Preto					
		Fase S= Preto					
		Neutro = Azul claro					
		Terra = Verde					
4- FIAÇÃO							
cabos de cobre mole extra flexíveis (sem emendas) Isolação 750V- 70° C							
Bitola Mínima para circuito de potencia 2,5mm e para circuito de comando 0,75mm							
cor preta para força e medição							
cor preta para comando em corrente alternada							
cor vermelha para comando em corrente alternada 24VCC							
cor azul claro para comando em corrente alternada 0VCC							
cor cinza para comando temporizador							
5- ALIMENTAÇÃO							
		<input checked="" type="checkbox"/> Cabos				<input type="checkbox"/> Superior	
		<input type="checkbox"/> Barras				<input type="checkbox"/> Inferior	
6- SAÍDA							
		<input checked="" type="checkbox"/> Cabos				<input type="checkbox"/> Superior	
		<input type="checkbox"/> Barras				<input checked="" type="checkbox"/> Inferior	
7- ETIQUETAS DE IDENTIFICAÇÃO							
Externas :							
		<input checked="" type="checkbox"/> Alumínio com grav em baixo relevo					
		<input type="checkbox"/> Acrílico Fundo preto					
		<input type="checkbox"/> ABS					
Internas							
		<input type="checkbox"/> outros					
		<input type="checkbox"/> Acrílico fundo preto					
		<input checked="" type="checkbox"/> ABS					
8- GRAL DE PROTEÇÃO							
		<input checked="" type="checkbox"/> IP 54					
		<input type="checkbox"/> IP 40					
9- TIPO DE INSTALAÇÃO							
		<input checked="" type="checkbox"/> Abridgada					
10- CARACTERÍSTICAS ELÉTRICAS							
		Tensão de linha	<input checked="" type="checkbox"/> 220VCA	<input type="checkbox"/> 380VCA		<input type="checkbox"/> 480VCA	
		Tensão de comando	<input checked="" type="checkbox"/> 24VCC	<input type="checkbox"/> 24VCA		<input type="checkbox"/> 220VCA	
		Frequencia	<input type="checkbox"/> 50Hz	<input checked="" type="checkbox"/> 60Hz			
11- ACESSO PARA MANUTENÇÃO							
Frontal							
12- GRAL DE PROTEÇÃO DOS INSTRUMENTOS							
Conforme fabricante							
Data: 24/06/2025 Nome: Daniel S. Assinaturas: Daniel S. Verificado: 24/06/2025 Diego S.		Empresa: DS Elétrica LTDA Site: www.dselétrica.com E-mail: contato.dselétrica@gmail.com Telefone: (11)9-4987-9031		Título: FOLHA DE DADOS Projeto: BV-134-60 Cliente: FPP ENGENHARIA		Data: 24/06/2025 Arquivo: BV-134-60.CAD Num: 4 de 10	



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12.4.1.

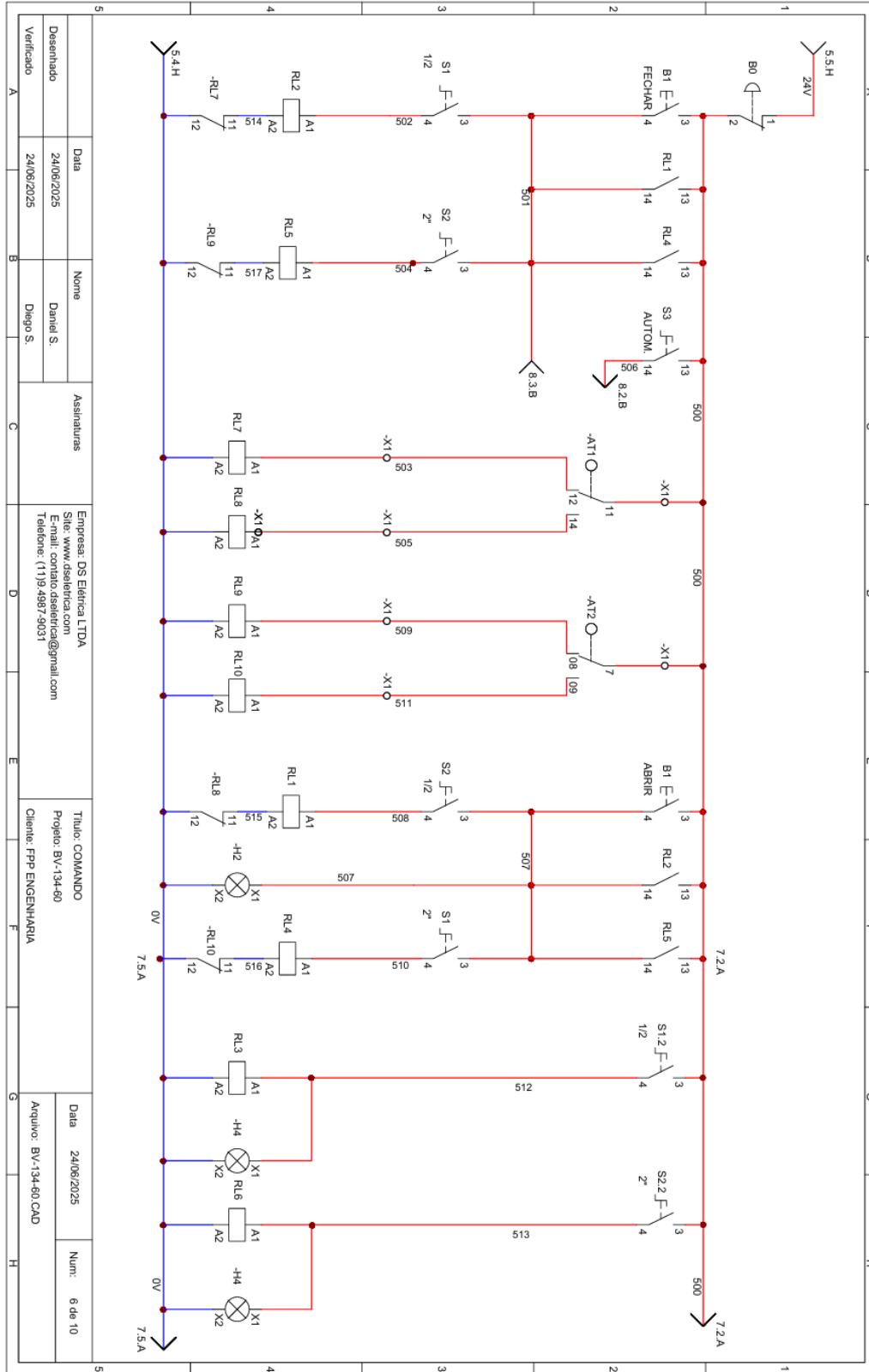




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12.4.2.

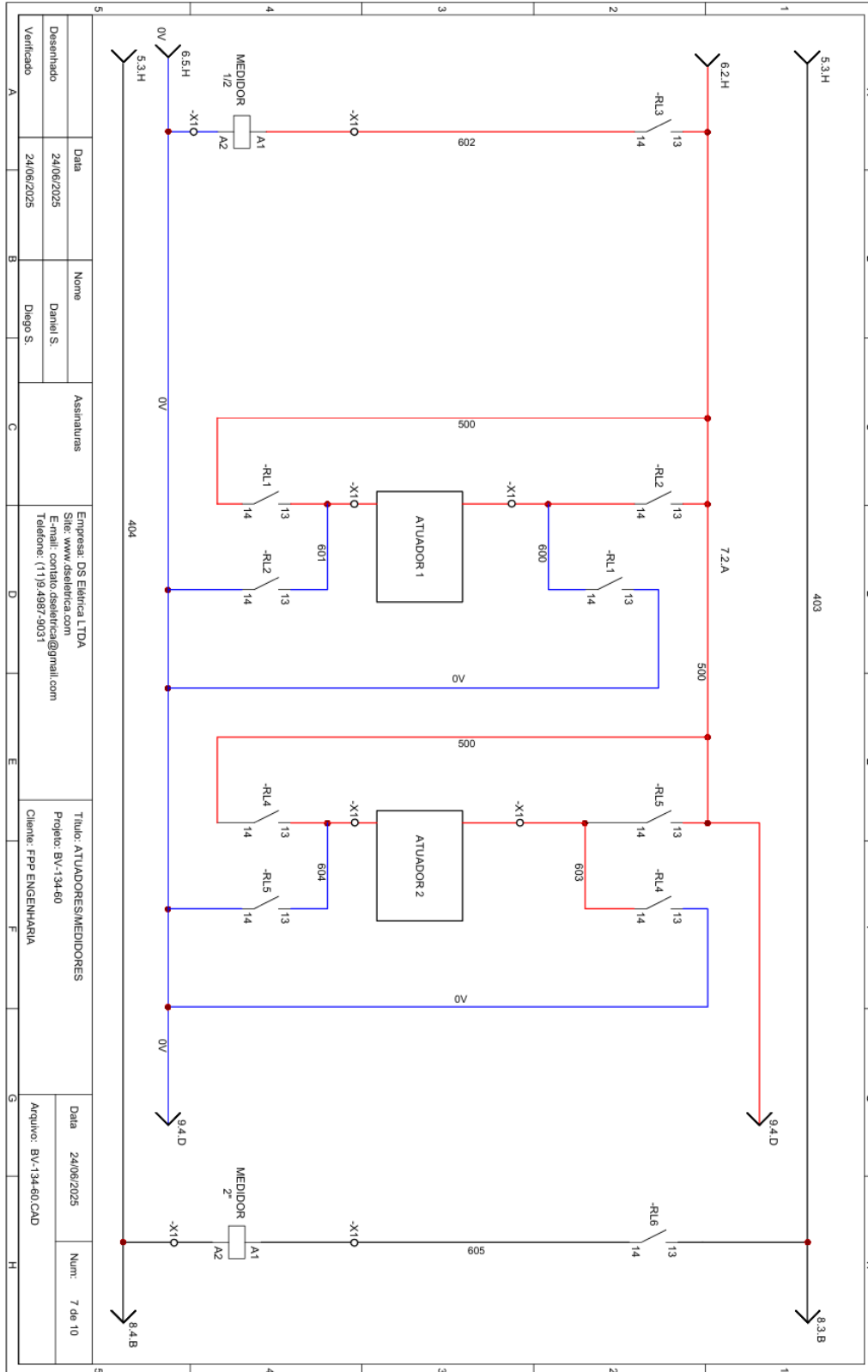




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12.4.3.

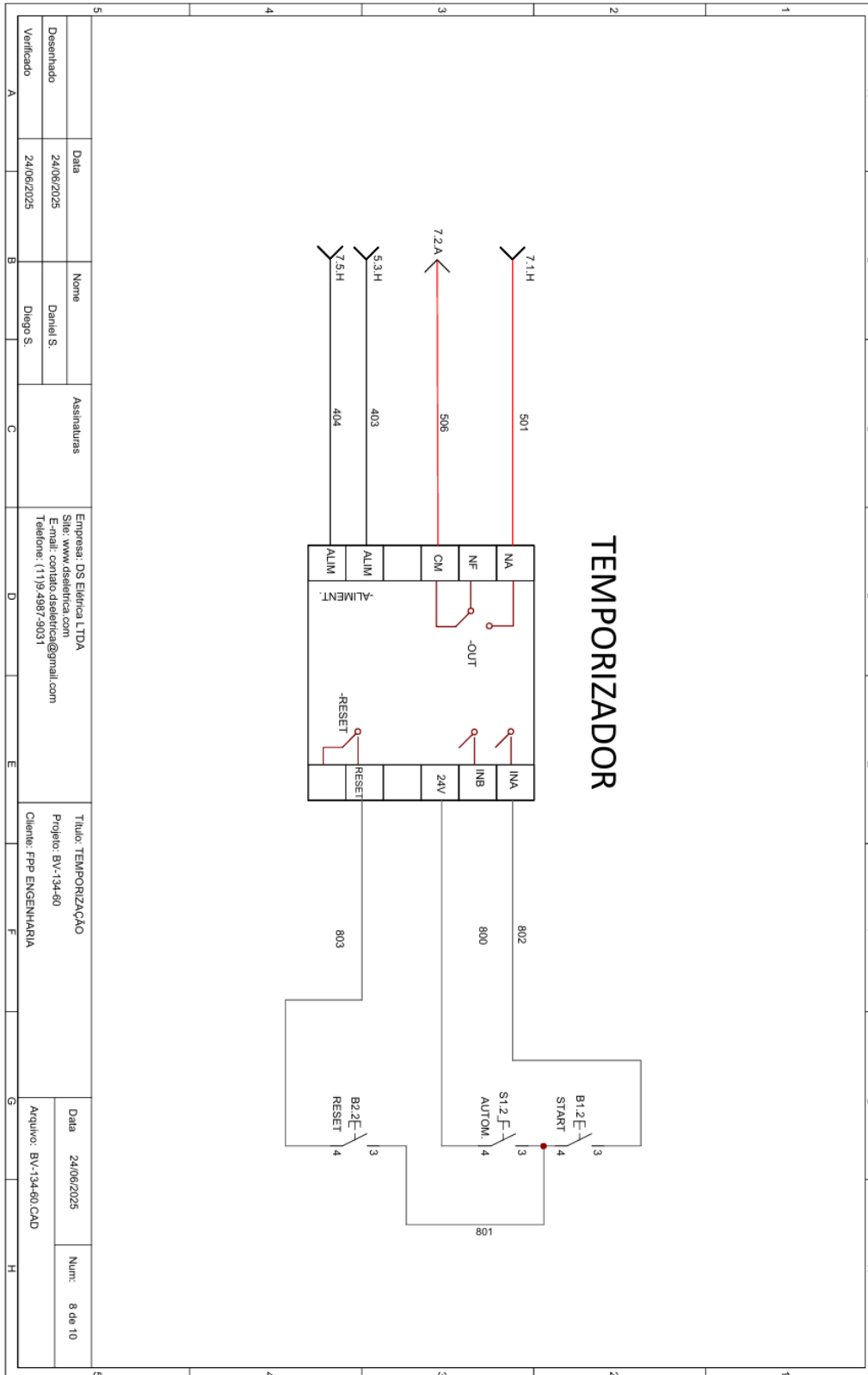




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12.4.4.



Data		24/06/2025		Nome		Daniel S.		Assinaturas		Empresa: DS Elétrica LTDA		Título: TEMPORIZAÇÃO	
Desenhado		24/06/2025		Diego S.		Daniel S.		Site: www.dselétrica.com		E-mail: contato.dselétrica@gmail.com		Projeto: BV-134-80	
Verificado		24/06/2025		Diego S.		Daniel S.		Telefone: (11) 9-4987-9031		Cliente: FPP ENGENHARIA		Data: 24/06/2025	
												Num: 8 de 10	
												Arquivo: BV-134-80.CAD	

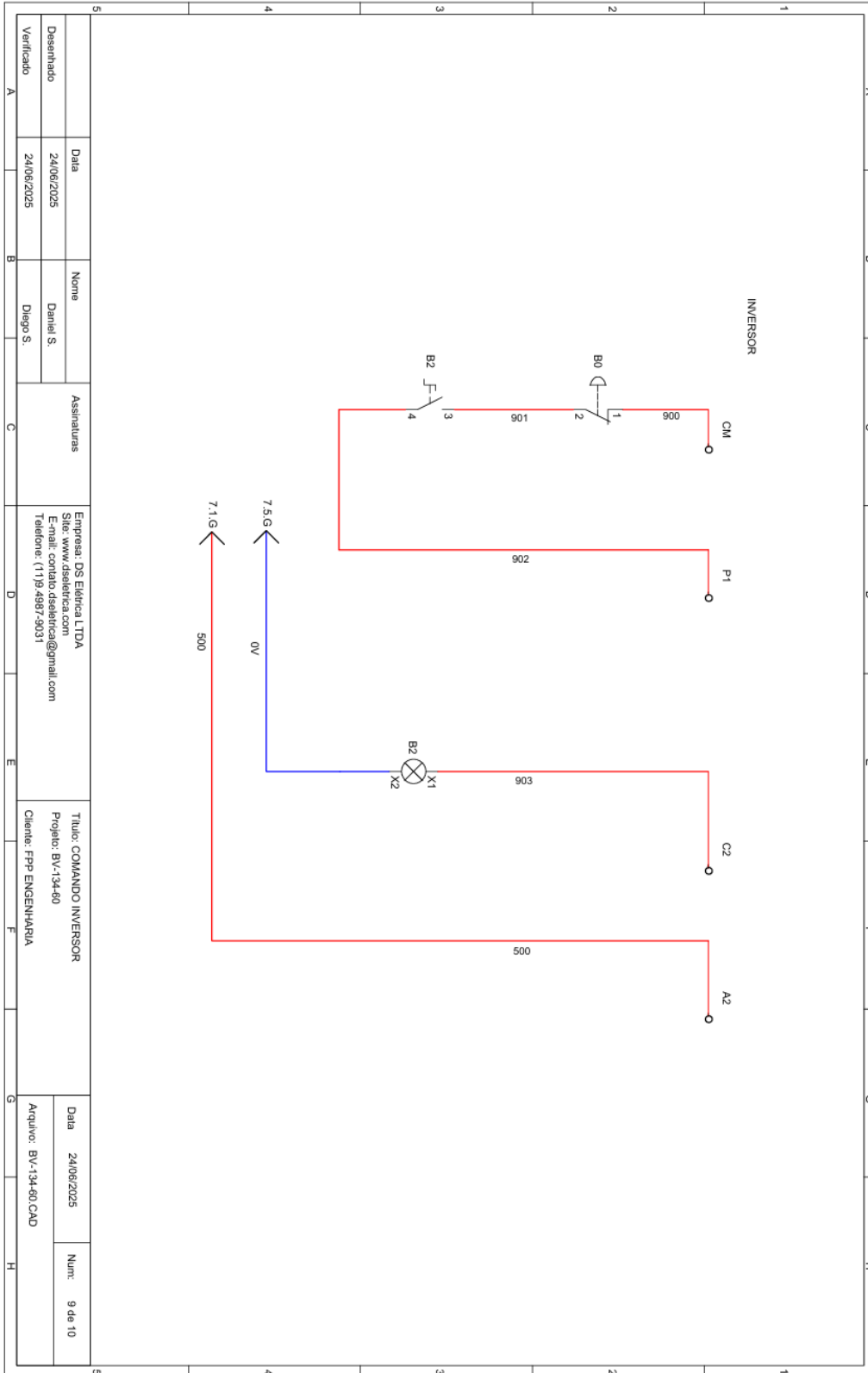




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12.4.5.



Data		Nome		Assinaturas		Empresa: DS Elétrica LTDA		Título: COMANDO INVERSOR	
Desenhado		Daniel S.				Site: www.dseletrica.com		Projeto: BV-134-60	
Verificado		Diego S.				E-mail: contato.dseletrica@gmail.com		Cliente: FPP ENGENHARIA	
		24/06/2025				Telefone: (11) 9.4987.9031		Arquivo: BV-134-60.CAD	





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12.4.6.

Desenhado	24/06/2025	Nome	Daniel S.	Assinaturas	Empresa: DS Elétrica LTDA Site: www.dselétrica.com E-mail: contato.dselétrica@gmail.com Telefone: (11)94987-9003	Título: BORNES	Projeto: BV-134-60	Data	24/06/2025	Num:	10 de 10																																																																																																																																																																																																									
	Verificado		24/06/2025				Diogo S.		Cliente: FPP ENGENHARIA		Arquivo: BV-134-60.CAD																																																																																																																																																																																																									
<table border="1"> <tr> <td rowspan="4">ATERRAMENTO</td> <td>PE 1.5mm² mm² - VERDE</td> <td>⊗</td> <td>PE 1</td> <td>BTWP</td> <td>⊗</td> <td>PE 1.5mm² mm² - VERDE</td> <td>PE</td> </tr> <tr> <td>PE 1.5mm² mm² - VERDE</td> <td>⊗</td> <td>PE 1</td> <td>BTWP</td> <td>⊗</td> <td>PE 1.5mm² mm² - VERDE</td> <td>PE</td> </tr> <tr> <td>PE 1.5mm² mm² - VERDE</td> <td>⊗</td> <td>PE 1</td> <td>BTWP</td> <td>⊗</td> <td>PE 1.5mm² mm² - VERDE</td> <td>PE</td> </tr> <tr> <td>PE 1.5mm² mm² - VERDE</td> <td>⊗</td> <td>PE 1</td> <td>BTWP</td> <td>⊗</td> <td>PE 1.5mm² mm² - VERDE</td> <td>PE</td> </tr> <tr> <td rowspan="3">BOMBA DE AGUA</td> <td>400 1.5mm² mm² - PRETO</td> <td>⊗</td> <td>1</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - PRETO</td> <td>400</td> </tr> <tr> <td>401 1.5mm² mm² - BRANCO</td> <td>⊗</td> <td>2</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - PRETO</td> <td>401</td> </tr> <tr> <td>402 1.5mm² mm² - VERMELHO</td> <td>⊗</td> <td>3</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - PRETO</td> <td>402</td> </tr> <tr> <td rowspan="2">MEDIDOR 2"</td> <td>404 1.5mm² mm² - MARROM</td> <td>⊗</td> <td>4</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - PRETO</td> <td>404</td> </tr> <tr> <td>605 1.5mm² mm² - AZUL</td> <td>⊗</td> <td>5</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - PRETO</td> <td>605</td> </tr> <tr> <td rowspan="2">MEDIDOR 1/2"</td> <td>602 1.5mm² mm² - MARROM</td> <td>⊗</td> <td>6</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - VERMELHO</td> <td>602</td> </tr> <tr> <td>0V 1.5mm² mm² - AZUL</td> <td>⊗</td> <td>7</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - AZUL</td> <td>0V</td> </tr> <tr> <td rowspan="2">ATUADOR 1/2"</td> <td>600 1.5mm² mm² - MARROM</td> <td>⊗</td> <td>8</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - VERMELHO</td> <td>600</td> </tr> <tr> <td>601 1.5mm² mm² - AZUL</td> <td>⊗</td> <td>9</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - VERMELHO</td> <td>601</td> </tr> <tr> <td rowspan="2">ATUADOR 2"</td> <td>603 1.5mm² mm² - MARROM</td> <td>⊗</td> <td>10</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - VERMELHO</td> <td>603</td> </tr> <tr> <td>604 1.5mm² mm² - AZUL</td> <td>⊗</td> <td>11</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - VERMELHO</td> <td>604</td> </tr> <tr> <td rowspan="2">ATUADOR 1/2"</td> <td>500 1.5mm² mm² - MARROM</td> <td>⊗</td> <td>12</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - VERMELHO</td> <td>500</td> </tr> <tr> <td>503 1.5mm² mm² - AZUL</td> <td>⊗</td> <td>13</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - VERMELHO</td> <td>503</td> </tr> <tr> <td rowspan="2">FC. ATUADOR 1/2"</td> <td>504 1.5mm² mm² - VERDE/AMAR</td> <td>⊗</td> <td>14</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - VERMELHO</td> <td>504</td> </tr> <tr> <td>500 1.5mm² mm² - MARROM</td> <td>⊗</td> <td>15</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - VERMELHO</td> <td>500</td> </tr> <tr> <td rowspan="2">FC. ATUADOR 2"</td> <td>509 1.5mm² mm² - AZUL</td> <td>⊗</td> <td>16</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - VERMELHO</td> <td>509</td> </tr> <tr> <td>511 1.5mm² mm² - VERDE/AMAR</td> <td>⊗</td> <td>17</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - VERMELHO</td> <td>511</td> </tr> <tr> <td rowspan="2">ALIMENT.</td> <td>R 1.5mm² mm² - PRETO</td> <td>⊗</td> <td>18</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - PRETO</td> <td>R</td> </tr> <tr> <td>S 1.5mm² mm² - PRETO</td> <td>⊗</td> <td>19</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - VERDE</td> <td>S</td> </tr> <tr> <td rowspan="2">PULSO MEDIDOR 1/2"</td> <td>1000 1.5mm² mm² - PRETO</td> <td>⊗</td> <td>20</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - PRETO</td> <td>1000</td> </tr> <tr> <td>1001 1.5mm² mm² - VERMELHO</td> <td>⊗</td> <td>21</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - VERMELHO</td> <td>1001</td> </tr> <tr> <td rowspan="2">PULSO MEDIDOR 2"</td> <td>1002 1.5mm² mm² - PRETO</td> <td>⊗</td> <td>22</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - PRETO</td> <td>1002</td> </tr> <tr> <td>1003 1.5mm² mm² - VERMELHO</td> <td>⊗</td> <td>23</td> <td>BTWP</td> <td>⊗</td> <td>1.5mm² mm² - VERMELHO</td> <td>1003</td> </tr> </table>												ATERRAMENTO	PE 1.5mm² mm² - VERDE	⊗	PE 1	BTWP	⊗	PE 1.5mm² mm² - VERDE	PE	PE 1.5mm² mm² - VERDE	⊗	PE 1	BTWP	⊗	PE 1.5mm² mm² - VERDE	PE	PE 1.5mm² mm² - VERDE	⊗	PE 1	BTWP	⊗	PE 1.5mm² mm² - VERDE	PE	PE 1.5mm² mm² - VERDE	⊗	PE 1	BTWP	⊗	PE 1.5mm² mm² - VERDE	PE	BOMBA DE AGUA	400 1.5mm² mm² - PRETO	⊗	1	BTWP	⊗	1.5mm² mm² - PRETO	400	401 1.5mm² mm² - BRANCO	⊗	2	BTWP	⊗	1.5mm² mm² - PRETO	401	402 1.5mm² mm² - VERMELHO	⊗	3	BTWP	⊗	1.5mm² mm² - PRETO	402	MEDIDOR 2"	404 1.5mm² mm² - MARROM	⊗	4	BTWP	⊗	1.5mm² mm² - PRETO	404	605 1.5mm² mm² - AZUL	⊗	5	BTWP	⊗	1.5mm² mm² - PRETO	605	MEDIDOR 1/2"	602 1.5mm² mm² - MARROM	⊗	6	BTWP	⊗	1.5mm² mm² - VERMELHO	602	0V 1.5mm² mm² - AZUL	⊗	7	BTWP	⊗	1.5mm² mm² - AZUL	0V	ATUADOR 1/2"	600 1.5mm² mm² - MARROM	⊗	8	BTWP	⊗	1.5mm² mm² - VERMELHO	600	601 1.5mm² mm² - AZUL	⊗	9	BTWP	⊗	1.5mm² mm² - VERMELHO	601	ATUADOR 2"	603 1.5mm² mm² - MARROM	⊗	10	BTWP	⊗	1.5mm² mm² - VERMELHO	603	604 1.5mm² mm² - AZUL	⊗	11	BTWP	⊗	1.5mm² mm² - VERMELHO	604	ATUADOR 1/2"	500 1.5mm² mm² - MARROM	⊗	12	BTWP	⊗	1.5mm² mm² - VERMELHO	500	503 1.5mm² mm² - AZUL	⊗	13	BTWP	⊗	1.5mm² mm² - VERMELHO	503	FC. 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