

1 DEFINITION AND MAIN INFORMATION

Definições e Principais Informações



HIGH VOLTAGE - 480 TO 880Vdc

Alta Tensão - 480 a 880Vcc

WARNING! BEFORE ANY MAINTENANCE ON HIGH VOLTAGE, SWITCH OFF HIGH VOLTAGE AND WAIT 20 MIN FOR ELECTRICAL DISCHARGE.

Atenção! Antes de qualquer manutenção na Alta Tensão, desconectar a Alta Tensão e aguardar 20 min, para descarga elétrica.

HIGH VOLTAGE FUSES IS UNDER CHASSIS/BODYBUILDER RESPONSABILITY.

Fusíveis de Alta Tensão sob responsabilidade do chassis / carroceria.

HIGH VOLTAGE INPUT CABLE INTO THE ROOF UNIT IS UNDER CHASSIS/BODYBUILDER RESPONSABILITY.

Cabo de entrada de Alta Tensão no aparelho de teto sob responsabilidade do chassis / carroceria.

DO NOT SWAP WIRES PHASES ON INVERTER COMPRESSOR CONNECTION.

Não inverter as fases na conexão entre o Inversor e o Compressor.

MINIMUM CABLE GAUGE FOR PE 25mm².

Mínima secção para o Condutor de Proteção de 25mm²

GROUNDING POINTS CPE1 TO CPE4 MUST BE DIRECTLY CONNECTED TO THE BODY STRUCTURE TO GUARANTEE THE EMC.

Pontos de Aterramento CPE1 ao CPE4 devem estar diretamente conectados a estrutura da carroceria para garantir a Compatibilidade Eletomagnética.

DEFINITIONS / Definições

| | |
|------|--------------------------------------------------------------------------------|
| ICN | INTERFACE CONTROLLER CONNECTOR - Conector Interface Controlador |
| ISV | INTERFACE VEHICLE SIGNAL - Conector Interface com Veículo |
| IC | INTERFACE CONNECTOR WITH BODY - Conector Interface com Carroceria |
| B10M | POSITIVE BORNE CONNECTOR M10 - 24V - Borne Positivo M10 |
| B8M | NEGATIVE BORNE CONNECTOR M8 - 24V - Borne Negativo M8 |
| RB | RELAY BASE - Base de Relé |
| IPTC | INTERFACE CONNECTOR HEATING SYSTEM - Conector Interface Sistema de Aquecimento |
| STD | SENSOR DUCT TEMPERATURE - Sensor Temperatura de Duto |
| STE | SENSOR EXTERNAL TEMPERATURE - Sensor Temperatura Externa |
| STR | SENSOR ROOM TEMPERATURE - Sensor Temperatura de Retorno |
| RAR | FRESH AIR - Renovação de Ar |
| FB | FUSE BASE - Base de Fusíveis |
| VR | RADIAL BLOWER - Ventilador Radial |
| CD | CONDENSER INTERFACE CONNECTOR - Conector Interface Condensador |
| CAN | COMMUNICATION WITH FREQUENCY INVERTER - Comunicação com Inversor de Frequência |
| VA | AXIAL FANS - Ventiladores Axiais |
| HPS | HIGH PRESSURE SENSOR - Sensor de Alta Pressão |
| LPS | LOW PRESSURE SENSOR - Sensor de Baixa Pressão |
| PSL | PRESSURE SWITCH LOW - Pressostato de Baixa |
| PSH | PRESSURE SWITCH HIGH - Pressostato de Alta |
| CTS | COMPRESSOR TEMPERATURE SENSOR - Sensor Temperatura do Compressor |
| FI | FREQUENCY INVERTER - Conectores do Inversor de Frequência |
| CPTC | CONNECTOR PTC - Conector PTC |
| CPE | CONNECTION PROTECTION EARTH - Conexão Condutor de Proteção |

WIRE COLORS ACCORDING IEC 60757

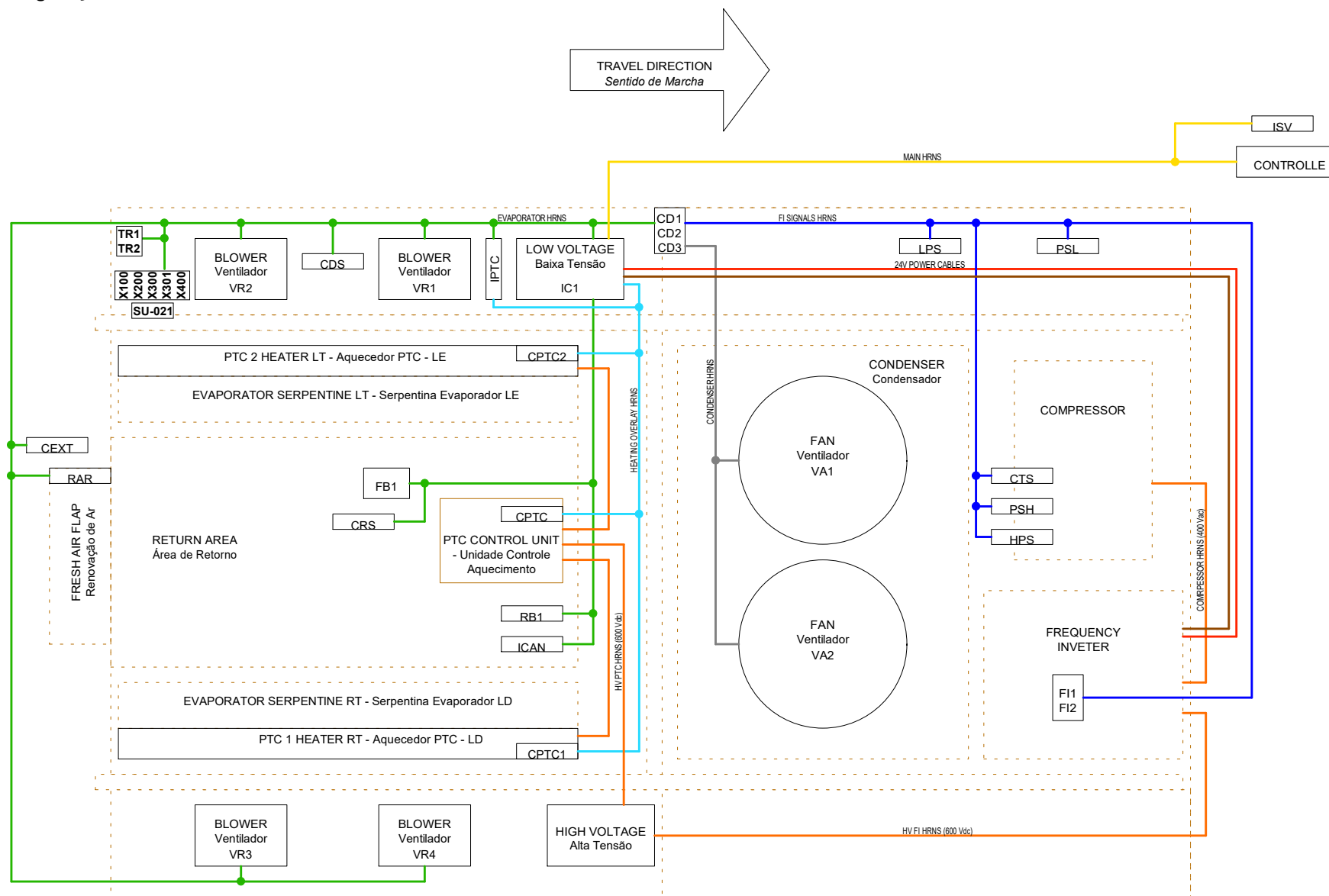
Cores de fio conforme IEC 60757

| ABREV. | ENGLISH | Português |
|--------|-----------|-----------|
| BN | BROWN | Marrom |
| RD | RED | Vermelho |
| BU | BLUE | Azul |
| OG | ORANGE | Laranja |
| BK | BLACK | Preto |
| YE | YELLOW | Amarelo |
| GN | GREEN | Verde |
| VT | VIOLETT | Violeta |
| GY | GRAY | Cinza |
| WH | WHITE | Branco |
| PK | PINK | Rosa |
| TQ | TURQUOISE | Turquesa |

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|------------------|-----|----------|------|------|--------------------|----------------------------------------------|---------|------------|-----------|------------------|-------------------------|
| | | | | | | CC205-E / CC35X-E W/ SU021 AND SCB2000 | DRAW | 01/12/2022 | DJANUARIO | Part No.: | 036-00313-001 |
| | | | | | | CC205-E / CC35X-E com SU021 e painel SCB2000 | CHECK | 01/12/2022 | RPEDRONI | Page Size: | A3 |
| A | | | | | | | APPROVE | 01/12/2022 | FKATZ | Valeo | Unit: CC205-E / CC35X-E |
| Previous Page: 0 | | | | | | | | | | Next Page: 2 | |

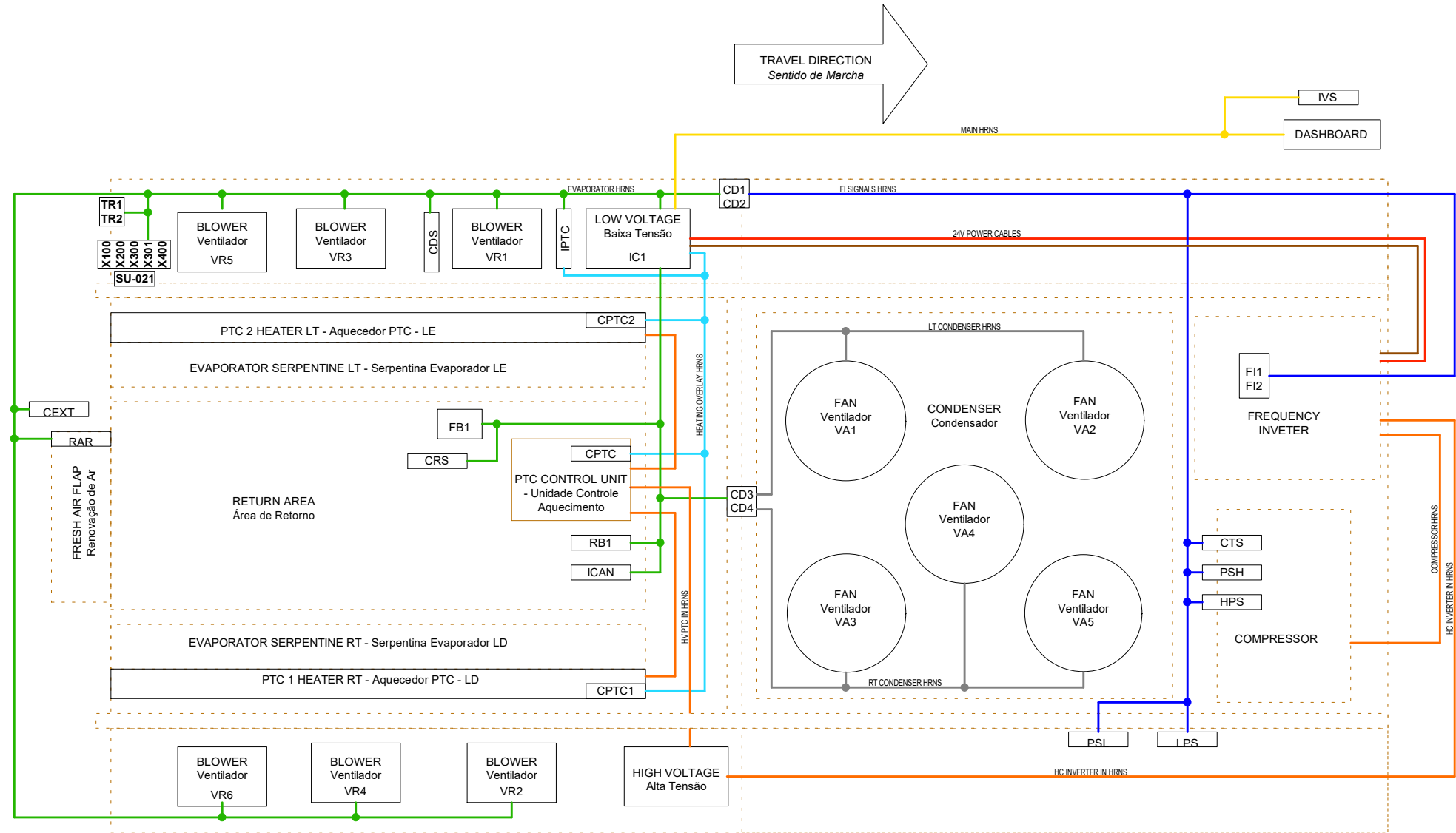
2 CC205-E HARNESS CONFIGURATION

CC205-E Configuração de Chicotes



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| | | | | | | CC205-E / CC35X-E com SU021 e painel SCB2000 | CHECK | 01/12/2022 | RPEDRONI | Page Size: A3 |
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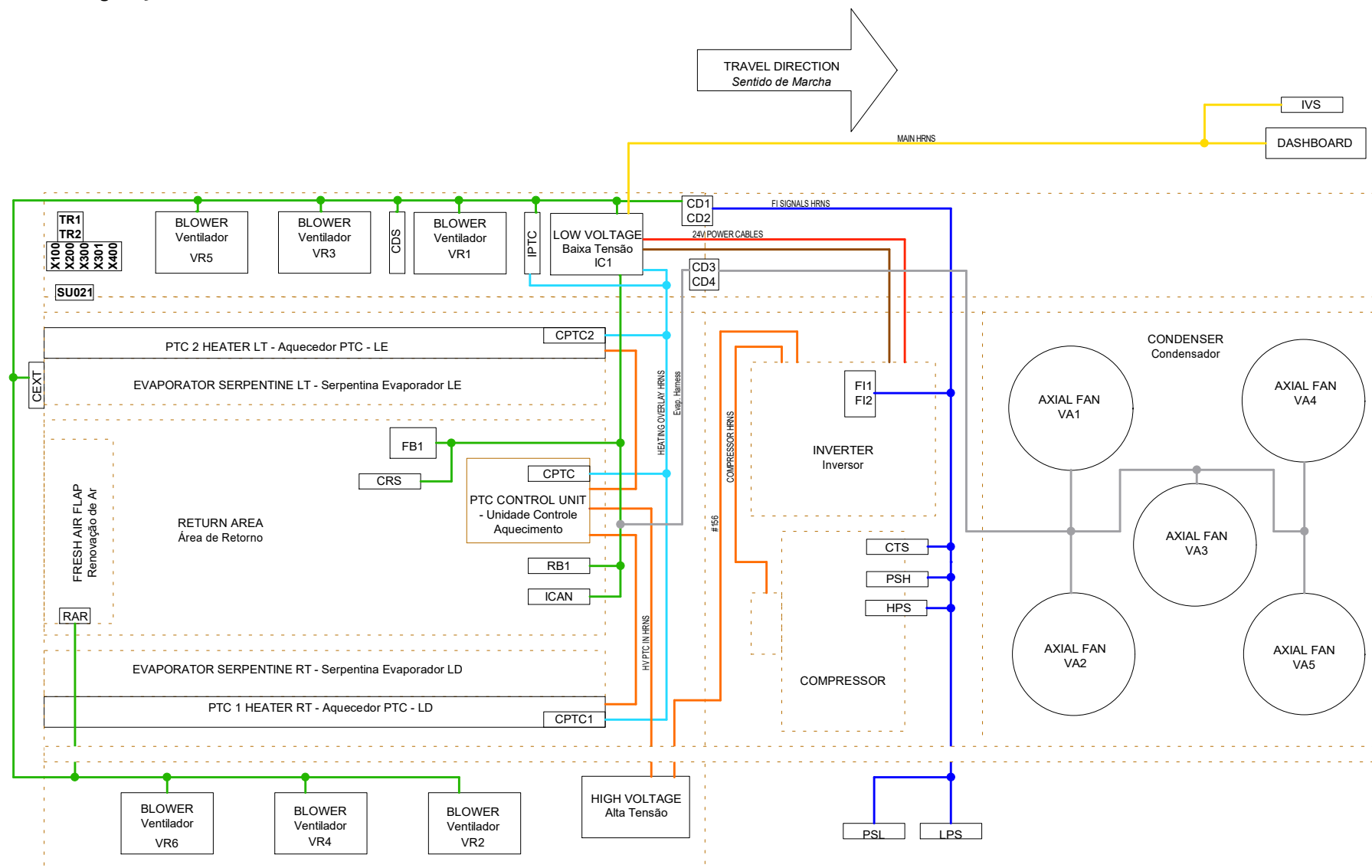
3 CC355-E HARNESS CONFIGURATION
CC355-E Configuração de Chicotes




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| | | | | | | CC205-E / CC35X-E W/ SU021 AND SCB2000 | DRAW | 01/12/2022 | DJANUARIO | Part No.: 036-00313-001 |
| | | | | | | CC205-E / CC35X-E com SU021 e painel SCB2000 | CHECK | 01/12/2022 | RPEDRONI | Page Size: A3 |
| | | | | | | | APPROVE | 01/12/2022 | FKATZ | Voltage: 900VDC/380VAC/24VDC |
| A | | | | | | | | | | Unit: CC355-E |
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4 CC356-E HARNESS CONFIGURATION

CC356-E Configuração de Chicotes



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| | | | | | | CC205-E / CC35X-E W/ SU021 AND SCB2000 | DRAW | 01/12/2022 | DJANUARIO | Part No.: 036-00313-001 | | Page Size: A3 |
| | | | | | | | CHECK | 01/12/2022 | RPEDRONI | Voltage: 900VDC/380VAC/24VDC | | |
| | | | | | | CC205-E / CC35X-E com SU021 e painel SCB2000 | APPROVE | 01/12/2022 | FKATZ |  Unit: CC356-E | | Page: 4 |
| A | | | | | | | | | | of 13 | | |

5 MAIN HARNESS - DASHBOARD TO ROOF UNIT
Chicote Principal - Controlador a Unidade de Teto

VEHICLE INTERFACE
Interface com o veículo

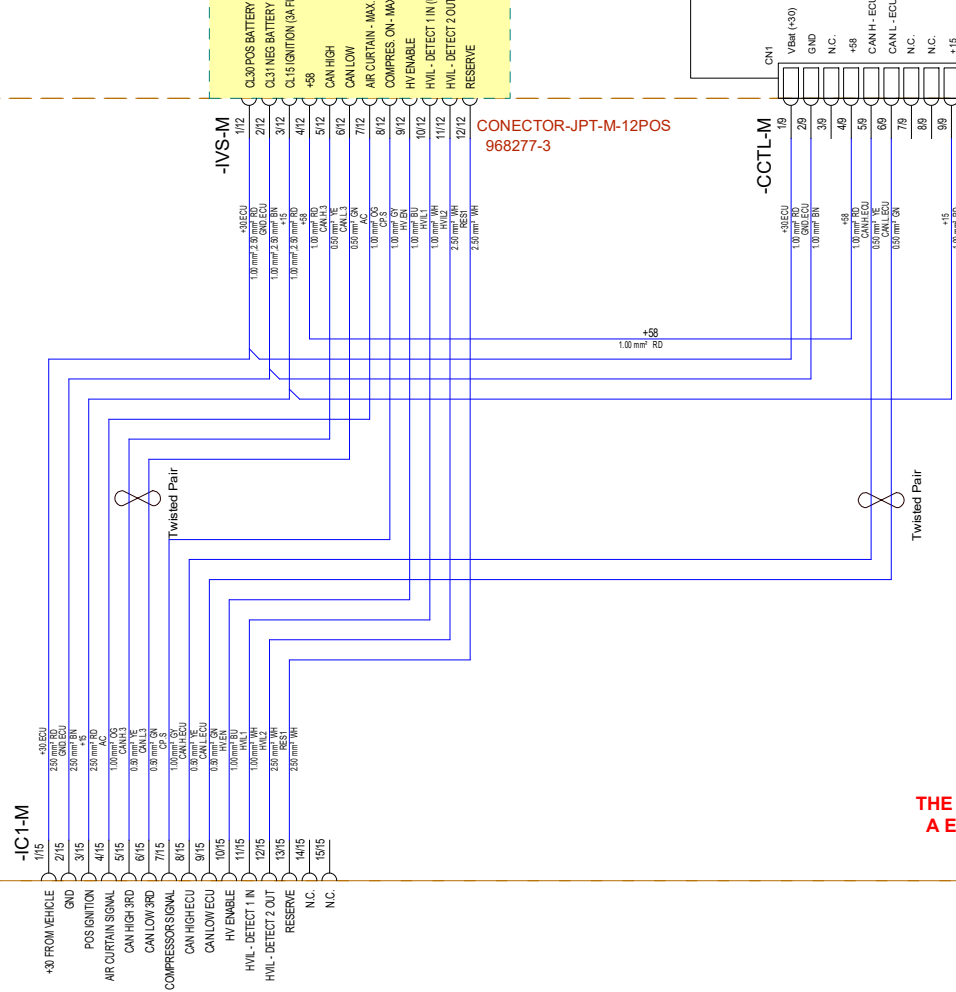
VEHICLE BODY
Carroceria do Veículo

EVAPORATOR SIDE
Lado do Evaporador

BODYBUILDER RESPONSIBILITY
Responsabilidade do encarregador

Q33 POS BATTERY 24VDC (1.5A FUSE)
Q31 NEG BATTERY
Q15 IGNITION (3A FUSE)
+58
CAN HIGH
CAN LOW
AIR CURTAIN - MAX. 400mA - ON W/ VBAT
COMPRESSOR ON - MAX. 400mA - ON W/ VBAT
HV/ENABLE
HVIL - DETECT 1 IN (Under Development)
HVIL - DETECT 2 OUT (Under Development)
RESERVE

DASHBOARD
Painel SC2000



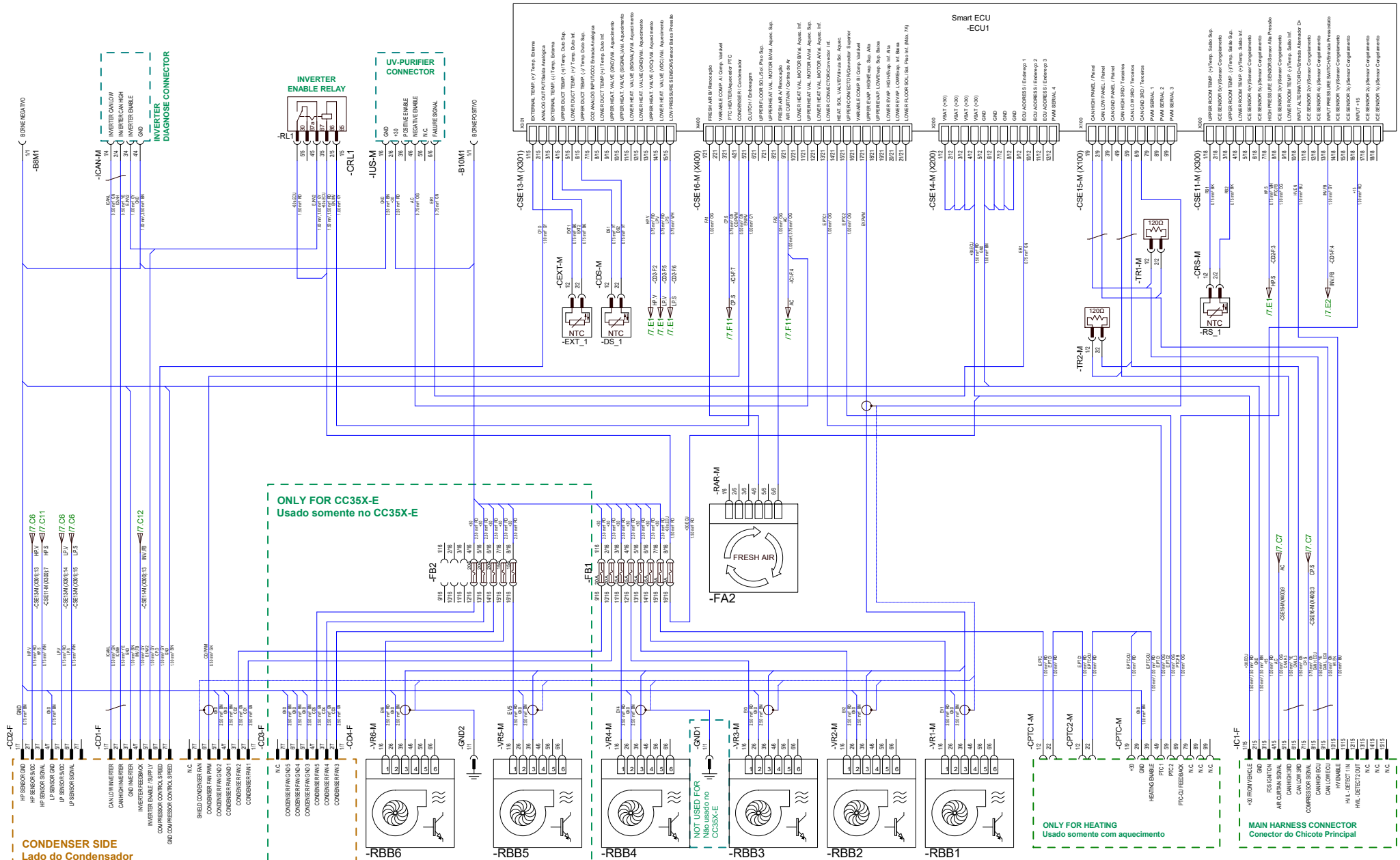
CAN BUS CONNECTION WITH VEHICLE
Conexão do Barramento CAN com Veículo

THE ECU OF UNIT MUST BE THE START/END OF THE BACKBONE.
THE TERMINATOR RESISTOR IS SENDCONNECTED CLOSE TO THE ECU.
A ECU da unidade deve ser o início/fim da rede. O resistor de terminação
é enviado montado próximo a ECU.

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| | | | | | | CC205-E / CC35X-E com SU021 e painel SCB2000 | CHECK | 01/12/2022 | DJANUARIO | Page Size: | A3 |
| A | | | | | | | APPROVE | 01/12/2022 | FKATZ | Unit: | CC205-E / CC35X-E |
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7 EVAPORATOR HARNESS

Chicote do Evaporador



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| | | | | | | CC205-E / CC35X-E com SU021 e painel SCB2000 | | | | 01/12/2022 | DJANUARIO | | | |
| | | | | | | | | | | 01/12/2022 | FKATZ | | | |

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|-------|-------------------|-------|----|
| Unit: | CC205-E / CC35X-E | Page: | 7 |
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8 CONDENSER AND FREQUENCY INVERTER SIGNAL HARNESS

Chicote do Condensador e Sinais do Inversor

EVAPORATOR SIDE

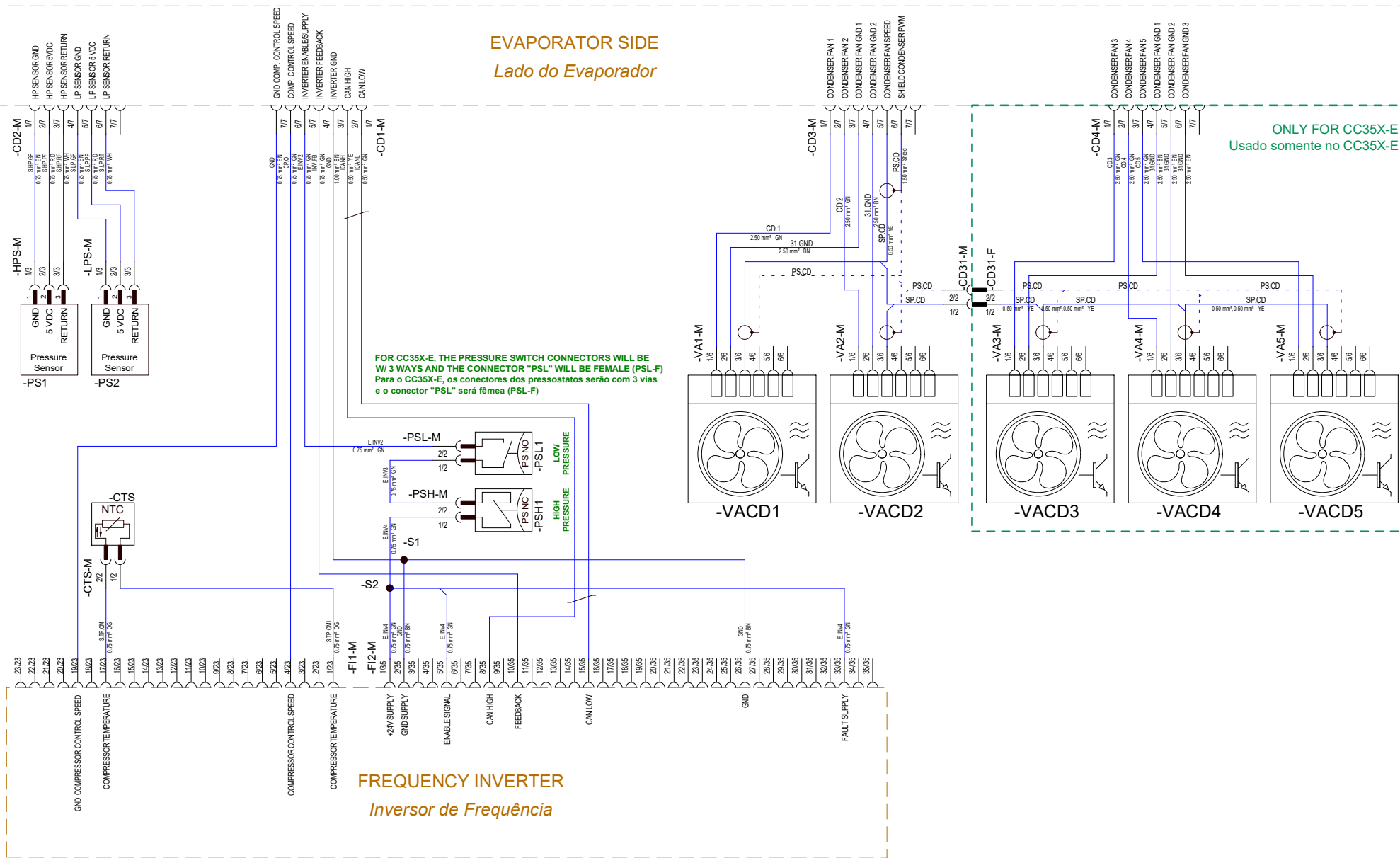
Lado do Evaporador

ONLY FOR CC35X-E
Usado somente no CC35X-E

FREQUENCY INVERTER

Inversor de Frequência

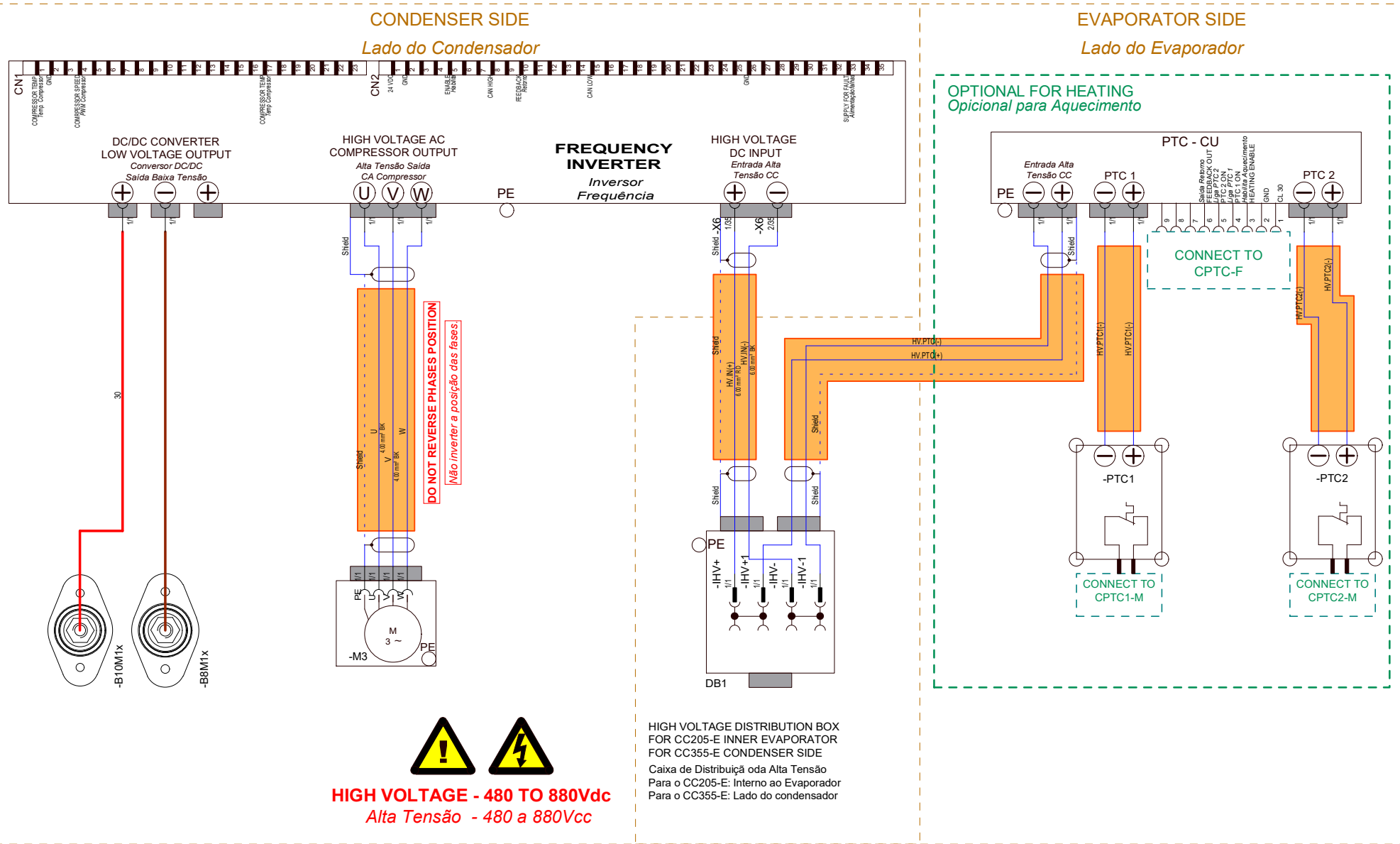
FOR CC35X-E, THE PRESSURE SWITCH CONNECTORS WILL BE W/ 3 WAYS AND THE CONNECTOR "PSL" WILL BE FEMALE (PSL-F)
Para o CC35X-E, os conectores dos pressostatos serão com 3 vias e o conector "PSL" será fêmea (PSL-F)



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| | | | | | | CC205-E / CC35X-E com SU021 e painel SCB2000 | CHECK | 01/12/2022 | RPEDRONI | Page Size: A3 |
| | | | | | | | APPROVE | 01/12/2022 | FKATZ | Voltage: 900VDC/380VAC/24VDC |
| A | | | | | | | | | | Unit: CC205-E / CC35X-E |
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9 FREQUENCY INVERTER AND HIGH VOLTAGE CONNECTIONS

Inversor de Frequência e Conexões de Alta Tensão

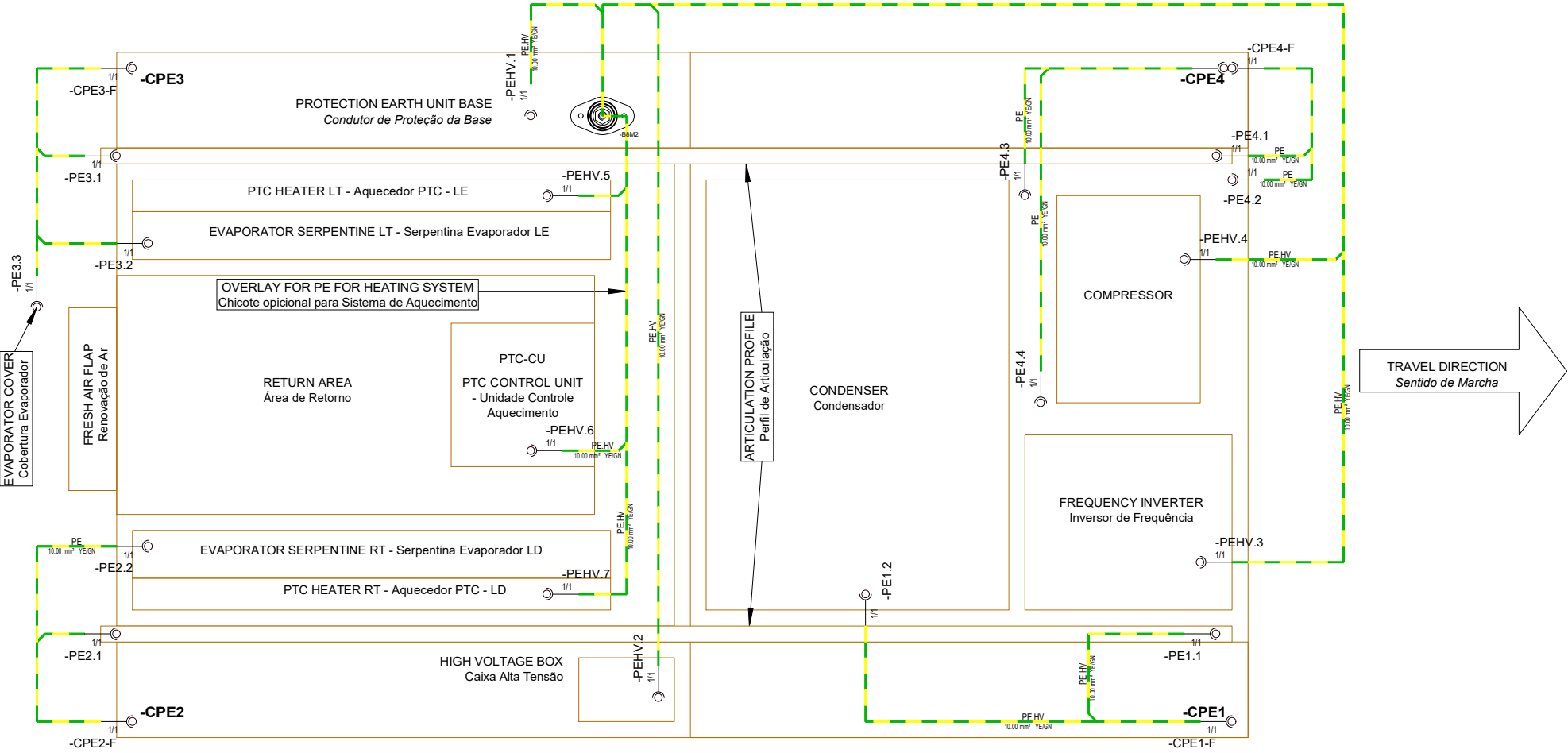


HIGH VOLTAGE - 480 TO 880Vdc
Alta Tensão - 480 a 880Vcc

HIGH VOLTAGE DISTRIBUTION BOX
FOR CC205-E INNER EVAPORATOR
FOR CC355-E CONDENSER SIDE
Caixa de Distribuição da Alta Tensão
Para o CC205-E: Interno ao Evaporador
Para o CC355-E: Lado do condensador

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| | | | | | | CC205-E / CC35X-E com SU021 e painel SCB2000 | CHECK | 01/12/2022 | RPEDRONI | Page Size: A3 |
| | | | | | | | APPROVE | 01/12/2022 | FKATZ | Unit: CC205-E / CC35X-E |
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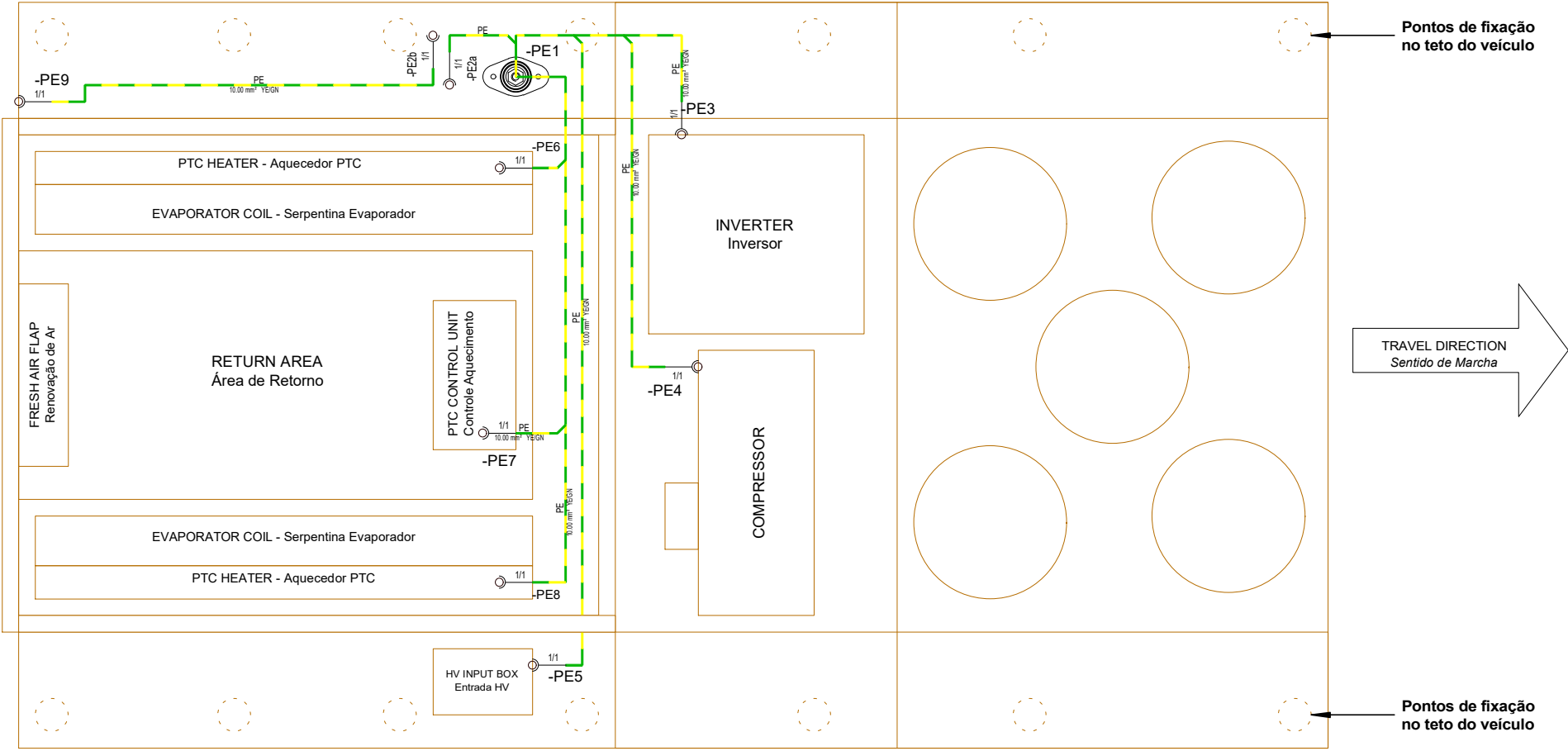
10 CC205-E / CC355-E - UNIT GROUNDING CONNECTIONS
CC205-E / CC355-E - Cabos de Conexão de Aterramento da Unidade



CC355-E
CPE1: 016-00543-015
CPE2: 016-00543-016
CPE3: 016-00543-017
CPE4: 016-00543-018 E 016-00543-019

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| | | | | | | CC205-E / CC35X-E W/ SU021 AND SCB2000 | DRAW | 01/12/2022 | DJANUARIO | Part No.: | 036-00313-001 |
| | | | | | | CC205-E / CC35X-E com SU021 e painel SCB2000 | CHECK | 01/12/2022 | RPEDRONI | Page Size: | A3 |
| | | | | | | | APPROVE | 01/12/2022 | FKATZ | Unit: | CC205-E / CC355-E |
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11 CC356-E - UNIT GROUNDING CONNECTIONS
CC356-E - Cabos de Conexão de Aterramento da Unidade



PE1: MAIN PROTECTION EARTH / Aterramento de proteção principal
PE2: PROTECTION EARTH UNIT BASE / Condutor de Proteção da Base
PE6, PE7 e PE8: USING ONLY FOR HEATING UNIT / Apenas quando a unit tiver aquecimento
PE9: PROTECTION EARTH TO OUTSIDE OF THE UNIT / Aterramento de proteção principal externo

THE UNIT MUST BE GROUNDED AT LEAST ONE OF THE TWO MAIN GROUNDING POINTS: PE1 OR PE9
A unidade obrigatoriamente deve estar aterrada em pelo menos um dos dois pontos de aterramento principal: PE1 ou PE9

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| | | | | | | | CHECK | 01/12/2022 | RPEDRONI | Page Size: | A3 |
| | | | | | | | APPROVE | 01/12/2022 | FKATZ | Voltage: | 900VDC/380VAC/24VDC |
| A | | | | | | CC205-E / CC35X-E com SU021 e painel SCB2000 | | | | Unit: | CC356-E |
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12 CHANGES HISTORY

Histórico de Alterações

| REVIEW Revisão | NAME Nome | RELEASE DATE Data Liberação | RELEASE IDE | CHANGES HISTORY Histórico de Alterações | CHECKED BY Verificado por | APPROVED BY Aprovador por | ARE THERE CHANGES FOR BODY? Há alterações para carroceria? |
|-------------------|--------------|--------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|---------------------------------------------------------------------|
| A | DJANUARIO | 18/09/20 | 2201 | PG-4 CHANGED WIRE POSITION ON IVS-M & IC1-MPG5-CHANGED INVERTER SUPPLY FB1:8 WAS FROM BORNE POSITIVO.ADDED GND WIRE BETWEEN BORNE NEGATIVO E IC1-F. CPTC WAS FEMALE. Pg4 - alterado posição de fios conectores IVS-M e IC1-M. Pg5-Alterado alimentação do Inversor FB1:8 era conectado oa BORNE POSITIVO. Incluso fio GNBD entre o BORNE NEgativo e o IC1-F. CPTC era fêmea. | RPEDRONI | FKATZ | YES / Sim |
| B | DJANUARIO | 09/07/2021 | # | PG-2 & 3 - ADDED ECU CONNECTIONS. PG-5 ADDED - ARTICULATED VEHICLE HARNESS. NEXT PGS RENUMBERED. Pg 2 e 3 - Inclusa Conexões da ECU. Pg 5 Inclusa - Chicote Veiculos Articulados. Próximas pags renumeradas. | RPEDRONI | FKATZ | YES / Sim |
| C | RVICTORIA | 16/09/2022 | 2070-36 | INCLUDED THE PAGES REGARDING THE CC356-E Incluído páginas sobre o CC356-E | RPEDRONI | FKATZ | NO / Não |
| | | | | | | | |