

| FOLIO   | DESCRIPTION   |
|---------|---|
| 1       | PAGE DE GARDE / COVER PAGE / TITELSEITE / PORTADA   |
| 2/3/4/5 | DESIGNATIONS COMPOSANTS / COMPONENT DESIGNATIONS / KOMPONENTENBEZEICHNUNGEN / DESIGNACIONES DE COMPONENTES      |
| 6       | CIRCUIT PUISSANCE, CIRCUIT 1 / POWER CIRCUIT, CIRCUIT 1 / STROMKREIS, KREIS 1 / CIRCUITO DE ENERGÍA, CIRCUITO 1 |
| 7       | CIRCUIT PUISSANCE, CIRCUIT 2 / POWER CIRCUIT, CIRCUIT 2 / STROMKREIS, KREIS 2 / CIRCUITO DE ENERGÍA, CIRCUITO 2 |
| 8-9     | CONTROLE CIRCUIT 1 / CONTROL CIRCUIT 1 / STEUERUNGSKREIS 1 / CIRCUITO DE CONTROL 1                              |
| 10      | CONTROLE CIRCUIT 2 / CONTROL CIRCUIT 2 / STEUERUNGSKREIS 2 / CIRCUITO DE CONTROL 2                              |
| 11      | CONTRÔLEUR DE SURCHAUFFE / COOLING CONTROLLER / ÜBERHITZUNGSREGLER / CONTROLADORES DE RECALENTAMIENTO           |
| 12      | RÉCHAUFFEUR DE CARTER / COMPRESSOR HEATER / VEWARMING / CALENTADOR DEL CARTER                                   |
| 13      | OPTION COMPTEUR ENERGETIQUE / ENERGY METER OPTION / ENERGIEZÄHLER-OPTION / OPCIÓN DE MEDIDOR DE ENERGÍA         |
| 14      | BORNIERS / TERMINAL BLOCKS / ANSCHLUSSBLÖCKE / BLOQUES DE TERMINALES  |
| 15      | PUISSANCE COMPRESSEUR / POWER COMPRESSOR / KOMPRESSORLEISTUNG / ENERGÍA COMPRESOR                               |
| 16      | IMPLANTATION / LAYOUT / ANORDNUNG / IMPLANTACIÓN  |

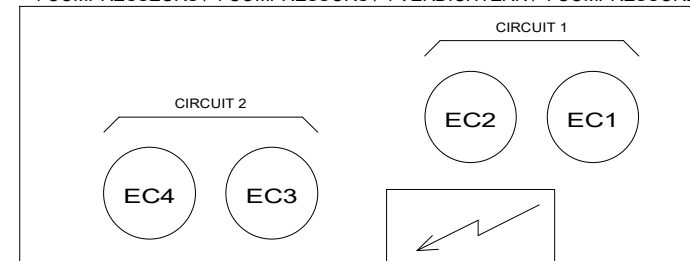


# Schéma électrique / Electrical diagram

## CONNECT II

TYPE D'UNITÉ/ UNIT TYPE **LG 1400 A 1600**

4 COMPRESSEURS / 4 COMPRESSORS / 4 VERDICHTERN / 4 COMPRESSORES



| E   | PCA-2023-047             |          | JGz | 11/01/2024 |
|-----|--------------------------|----------|-----|------------|
| D   | Mise à jour              |          | JGz | 28/09/2022 |
| IND | MODIFICATION DESCRIPTION | MODIF NR | NOM | DATE       |

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| DESSINE :          | JGz        |              |      |  |
| VERIFIE :          |            |              |      |  |
| DATE DE CREATION : | 28/09/2022 |              |      |  |
| INDICE             | DATE       | MODIFICATION | DES. |  |

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FOLIO  
**01**  
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Logiciel SEE v. 5.10

| 1          | 2   | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11       | 12  | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|------------|---|---|---|---|---|---|---|---|----|----------|---|----|----|----|----|----|----|----|----|
| Q1         | INTERRUPTEUR GÉNÉRAL  |   |   |   |   |   |   |   |    | B25      | SONDE LIQUIDE FLUIDE FRIGORIGÈNE CIRCUIT 1            |    |    |    |    |    |    |    |    |
| QG1        | DISJONCTEUR MOTEUR COMPRESSEUR 1, CIRCUIT 1                   |   |   |   |   |   |   |   |    | B7A      | SONDE DE REFOULEMENT ÉTAGE 1 CIRCUIT 1                |    |    |    |    |    |    |    |    |
| AMG1       | DEMARREUR COMPRESSEUR 1, CIRCUIT 1                            |   |   |   |   |   |   |   |    | B7B      | SONDE DE REFOULEMENT ÉTAGE 2 CIRCUIT 1                |    |    |    |    |    |    |    |    |
| EC1        | COMPRESSEUR 1, CIRCUIT 1                                      |   |   |   |   |   |   |   |    | BHP1     | CAPTEUR DE PRESSION DE REFOULEMENT, CIRCUIT 1         |    |    |    |    |    |    |    |    |
| QG2        | DISJONCTEUR MOTEUR COMPRESSEUR 2, CIRCUIT 1                   |   |   |   |   |   |   |   |    | B14      | SONDE ANTIGEL / FLUIDE FRIGORIGÈNE ÉCHANGEUR 2        |    |    |    |    |    |    |    |    |
| AMG2       | DEMARREUR COMPRESSEUR 2, CIRCUIT 1                            |   |   |   |   |   |   |   |    | B12A     | SONDE DE REFOULEMENT ÉTAGE 1 CIRCUIT 2                |    |    |    |    |    |    |    |    |
| EC2        | COMPRESSEUR 2, CIRCUIT 1                                      |   |   |   |   |   |   |   |    | B12B     | SONDE DE REFOULEMENT ÉTAGE 2 CIRCUIT 2                |    |    |    |    |    |    |    |    |
| QG3        | DISJONCTEUR MOTEUR COMPRESSEUR 3, CIRCUIT 2                   |   |   |   |   |   |   |   |    | B26      | SONDE LIQUIDE FLUIDE FRIGORIGÈNE CIRCUIT 2            |    |    |    |    |    |    |    |    |
| AMG3       | DEMARREUR COMPRESSEUR 3, CIRCUIT 2                            |   |   |   |   |   |   |   |    | BHP2     | CAPTEUR DE PRESSION DE REFOULEMENT, CIRCUIT 2         |    |    |    |    |    |    |    |    |
| EC3        | COMPRESSEUR 3, CIRCUIT 2                                      |   |   |   |   |   |   |   |    | HP2      | PRESSOSTAT HP SECURITÉ CIRCUIT 2                      |    |    |    |    |    |    |    |    |
| QG4        | DISJONCTEUR MOTEUR COMPRESSEUR 4, CIRCUIT 2                   |   |   |   |   |   |   |   |    | KA4      | RELAIS COMPRESSEUR 4, CIRCUIT 2                       |    |    |    |    |    |    |    |    |
| AMG4       | DEMARREUR COMPRESSEUR4, CIRCUIT 2                             |   |   |   |   |   |   |   |    | KA4.1    | RELAIS RÉCHAUFFEUR DE CARTER COMPRESSEUR 4, CIRCUIT 2 |    |    |    |    |    |    |    |    |
| EC4        | COMPRESSEUR 4, CIRCUIT 2                                      |   |   |   |   |   |   |   |    | T2       | TRANSFORMATEUR POUR CONTRÔLEUR DE SURCHAUFFE          |    |    |    |    |    |    |    |    |
| QT1        | PROTECTION CIRCUIT CONTROLE                                   |   |   |   |   |   |   |   |    | QT4      | PROTECTION CONTRÔLEUR DE SURCHAUFFE                   |    |    |    |    |    |    |    |    |
| KCP1       | RELAIS CONTROLER DE PHASE                                     |   |   |   |   |   |   |   |    | DET1     | CONTRÔLEUR DE SURCHAUFFE 1                            |    |    |    |    |    |    |    |    |
| T1         | TRANSFORMATEUR CIRCUIT CONTROLE                               |   |   |   |   |   |   |   |    | ST100    | THERMOSTAT  |    |    |    |    |    |    |    |    |
| QT2        | PROTECTION CIRCUIT CONTROLE                                   |   |   |   |   |   |   |   |    | EV100    | VENTILATEUR   |    |    |    |    |    |    |    |    |
| CPU / ADD2 | CARTE ENTRÉE/SORTIE CIRCUIT 1 ; CARTE ENTRÉE/SORTIE CIRCUIT 2 |   |   |   |   |   |   |   |    | B20      | CAPTEUR D'ASPIRATION CIRCUIT 1                        |    |    |    |    |    |    |    |    |
| FS1        | DÉTECTEUR DE DÉBIT  |   |   |   |   |   |   |   |    | BBP-DET1 | PRESSION D'ASPIRATION CIRCUIT 1                       |    |    |    |    |    |    |    |    |
| KP1        | SIGNALISATION MARCHE POMPE                                    |   |   |   |   |   |   |   |    | B21      | CAPTEUR D'ASPIRATION CIRCUIT 2                        |    |    |    |    |    |    |    |    |
| HP1        | PRESSOSTAT HP SECURITÉ CIRCUIT 1                              |   |   |   |   |   |   |   |    | BBP-DET2 | PRESSION D'ASPIRATION CIRCUIT 2                       |    |    |    |    |    |    |    |    |
| KA1        | RELAIS COMPRESSEUR 1, CIRCUIT 1                               |   |   |   |   |   |   |   |    | EXV1     | VANNE DE COMMANDE ÉLECTRIQUE CIRCUIT 1                |    |    |    |    |    |    |    |    |
| KA2        | RELAIS COMPRESSEUR 2, CIRCUIT 1                               |   |   |   |   |   |   |   |    | EXV2     | VANNE DE COMMANDE ÉLECTRIQUE CIRCUIT 2                |    |    |    |    |    |    |    |    |
| KA3        | RELAIS COMPRESSEUR 3, CIRCUIT 2                               |   |   |   |   |   |   |   |    | QT5      | PROTECTION RÉCHAUFFEUR DE CARTER                      |    |    |    |    |    |    |    |    |
| KA1.1      | RELAIS RÉCHAUFFEUR DE CARTER COMPRESSEUR 1, CIRCUIT 1         |   |   |   |   |   |   |   |    | EH1C     | RÉCHAUFFEUR DE CARTER,COMPRESSEUR 1, CIRCUIT 1        |    |    |    |    |    |    |    |    |
| KA2.1      | RELAIS RÉCHAUFFEUR DE CARTER COMPRESSEUR 2, CIRCUIT 1         |   |   |   |   |   |   |   |    | EH2C     | RÉCHAUFFEUR DE CARTER,COMPRESSEUR 2, CIRCUIT 1        |    |    |    |    |    |    |    |    |
| KA3.1      | RELAIS RÉCHAUFFEUR DE CARTER COMPRESSEUR 3, CIRCUIT 2         |   |   |   |   |   |   |   |    | EH3C     | RÉCHAUFFEUR DE CARTER,COMPRESSEUR 3, CIRCUIT 2        |    |    |    |    |    |    |    |    |
| B2         | SONDE ENTRÉE D'EAU GLACÉE                                     |   |   |   |   |   |   |   |    | EH4C     | RÉCHAUFFEUR DE CARTER,COMPRESSEUR 4, CIRCUIT 2        |    |    |    |    |    |    |    |    |
| B11        | SONDE SORTIE D'EAU GLACÉE COLLECTEUR                          |   |   |   |   |   |   |   |    |          |   |    |    |    |    |    |    |    |    |
| B4         | SONDE EAU CHAUDE / AMBIANCE ECHANGEURS                        |   |   |   |   |   |   |   |    |          |   |    |    |    |    |    |    |    |    |
| B8         | SONDE ANTIGEL / FLUIDE FRIGORIGÈNE ÉCHANGEUR 1                |   |   |   |   |   |   |   |    |          |   |    |    |    |    |    |    |    |    |
| B1         | SONDE TEMPERATURE EXTERIEUR                                   |   |   |   |   |   |   |   |    |          |   |    |    |    |    |    |    |    |    |
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|  | DESSINE :          | JGz  |              |              |     |     | Document n° : <b>00DCG000385000E</b> | DESIGNATIONS COMPOSANTS | FOLIO     |  |
|  | VERIFIE :          |      |              |              |     | JGz |                                      |                         | 02        |  |
|  | DATE DE CREATION : | 05   | 11/01/2024   | PCA-2023-047 |     | JGz |                                      |                         | ◀ 01 03 ▶ |  |
|  | 28/09/2022         | 04   | 28/09/2022   | Update       | JGz |     | Logiciel SEE v. 5.10                 |                         |           |  |
|  | INDICE             | DATE | MODIFICATION | DES.         |     |     |                                      |                         |           |  |

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|            | 1   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11       | 12  | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |  |
| Q1         | HAUPT-TRENNSCHALTER                                     |   |   |   |   |   |   |   |   |    | B25      | REFRIGERANT LIQUID SENSOR CIRCUIT 1                     |    |    |    |    |    |    |    |    |  |
| QG1        | CIRCUIT BREAKER COMPRESSOR 1, CIRCUIT 1                 |   |   |   |   |   |   |   |   |    | B7A      | STAGE 1 CIRCUIT 1 DISCHARGE SENSOR                      |    |    |    |    |    |    |    |    |  |
| AMG1       | SOFT STARTER COMPRESSOR 1, CIRCUIT 1                    |   |   |   |   |   |   |   |   |    | B7B      | STAGE 2 CIRCUIT 1 DISCHARGE SENSOR                      |    |    |    |    |    |    |    |    |  |
| EC1        | COMPRESSOR 1, CIRCUIT 1                                 |   |   |   |   |   |   |   |   |    | BHP1     | DISCHARGE PRESSURE SENSOR CIRCUIT 1                     |    |    |    |    |    |    |    |    |  |
| QG2        | CIRCUIT BREAKER COMPRESSOR 2, CIRCUIT 1                 |   |   |   |   |   |   |   |   |    | B14      | REFRIGERANT EXCHANGER 2 SENSOR                          |    |    |    |    |    |    |    |    |  |
| AMG2       | SOFT STARTER COMPRESSOR 2, CIRCUIT 1                    |   |   |   |   |   |   |   |   |    | B12A     | STAGE 1 CIRCUIT 2 DISCHARGE SENSOR                      |    |    |    |    |    |    |    |    |  |
| EC2        | COMPRESSOR 2, CIRCUIT 1                                 |   |   |   |   |   |   |   |   |    | B12B     | STAGE 2 CIRCUIT 2 DISCHARGE SENSOR                      |    |    |    |    |    |    |    |    |  |
| QG3        | CIRCUIT BREAKER COMPRESSOR 3, CIRCUIT 2                 |   |   |   |   |   |   |   |   |    | B26      | REFRIGERANT LIQUID SENSOR CIRCUIT 2                     |    |    |    |    |    |    |    |    |  |
| AMG3       | SOFT STARTER COMPRESSOR 3, CIRCUIT 2                    |   |   |   |   |   |   |   |   |    | BHP2     | DISCHARGE PRESSURE SENSOR CIRCUIT 2                     |    |    |    |    |    |    |    |    |  |
| EC3        | COMPRESSOR 3, CIRCUIT 2                                 |   |   |   |   |   |   |   |   |    | HP2      | COMPRESSOR HIGH PRESSURE SAFETY SWITCH CIRCUIT 2        |    |    |    |    |    |    |    |    |  |
| QG4        | CIRCUIT BREAKER COMPRESSOR 4, CIRCUIT 2                 |   |   |   |   |   |   |   |   |    | KA4      | COMPRESSOR CONTROL RELAY, COMPRESSOR 4 CIRCUIT 2        |    |    |    |    |    |    |    |    |  |
| AMG4       | SOFT STARTER COMPRESSOR 4, CIRCUIT 2                    |   |   |   |   |   |   |   |   |    | KA4.1    | COMPRESSOR HEATER CONTROL RELAY, COMPRESSOR 4 CIRCUIT 2 |    |    |    |    |    |    |    |    |  |
| EC4        | COMPRESSOR 4, CIRCUIT 2                                 |   |   |   |   |   |   |   |   |    | T2       | COOLING CONTROLLER TRANSFORMER                          |    |    |    |    |    |    |    |    |  |
| QT1        | CIRCUIT BREAKER CONTROL CIRCUIT                         |   |   |   |   |   |   |   |   |    | QT4      | CIRCUIT BREAKER, COOLING CONTROLLER                     |    |    |    |    |    |    |    |    |  |
| KCP1       | PHASE SEQUENCE MONITORING RELAY                         |   |   |   |   |   |   |   |   |    | DET1     | COOLING CONTROLLER                                      |    |    |    |    |    |    |    |    |  |
| T1         | CONTROL CIRCUIT TRANSFORMER                             |   |   |   |   |   |   |   |   |    | ST100    | CONTROL ELECTRICAL BOX FAN CONTROL THERMOSTAT           |    |    |    |    |    |    |    |    |  |
| QT2        | CIRCUIT BREAKER, CONTROL CIRCUIT                        |   |   |   |   |   |   |   |   |    | EV100    | CONTROL BOX ELECTRICAL FAN                              |    |    |    |    |    |    |    |    |  |
| CPU / ADD2 | MICROPROCESSOR-BASED MODULE                             |   |   |   |   |   |   |   |   |    | B20      | SUCTION SENSOR CIRCUIT 1                                |    |    |    |    |    |    |    |    |  |
| FS1        | FLOW SWITCH   |   |   |   |   |   |   |   |   |    | BBP-DET1 | SUCTION PRESSURE TRANSDUCER, CIRCUIT 1                  |    |    |    |    |    |    |    |    |  |
| KP1        | PUMP ON SIGNALING                                       |   |   |   |   |   |   |   |   |    | B21      | SUCTION SENSOR CIRCUIT 2                                |    |    |    |    |    |    |    |    |  |
| HP1        | COMPRESSOR HIGH PRESSURE SAFETY SWITCH CIRCUIT 1        |   |   |   |   |   |   |   |   |    | BBP-DET2 | SUCTION PRESSURE TRANSDUCER, CIRCUIT 2                  |    |    |    |    |    |    |    |    |  |
| KA1        | COMPRESSOR CONTROL RELAY, COMPRESSOR 1 CIRCUIT 1        |   |   |   |   |   |   |   |   |    | EXV1     | ELECTRONIC EXPANSION VALVE CIRCUIT 1                    |    |    |    |    |    |    |    |    |  |
| KA2        | COMPRESSOR CONTROL RELAY, COMPRESSOR 2 CIRCUIT 1        |   |   |   |   |   |   |   |   |    | EXV2     | ELECTRONIC EXPANSION VALVE CIRCUIT 2                    |    |    |    |    |    |    |    |    |  |
| KA3        | COMPRESSOR CONTROL RELAY, COMPRESSOR 3 CIRCUIT 2        |   |   |   |   |   |   |   |   |    | QT5      | CIRCUIT BREAKER, COMPRESSOR HEATER                      |    |    |    |    |    |    |    |    |  |
| KA1.1      | COMPRESSOR HEATER CONTROL RELAY, COMPRESSOR 1 CIRCUIT 1 |   |   |   |   |   |   |   |   |    | EH1C     | COMPRESSOR HEATER, COMPRESSOR 1 CIRCUIT 1               |    |    |    |    |    |    |    |    |  |
| KA2.1      | COMPRESSOR HEATER CONTROL RELAY, COMPRESSOR 2 CIRCUIT 1 |   |   |   |   |   |   |   |   |    | EH2C     | COMPRESSOR HEATER, COMPRESSOR 2 CIRCUIT 1               |    |    |    |    |    |    |    |    |  |
| KA3.1      | COMPRESSOR HEATER CONTROL RELAY, COMPRESSOR 3 CIRCUIT 2 |   |   |   |   |   |   |   |   |    | EH3C     | COMPRESSOR HEATER, COMPRESSOR 3 CIRCUIT 2               |    |    |    |    |    |    |    |    |  |
| B2         | INLET CHILLED WATER EXCHANGER                           |   |   |   |   |   |   |   |   |    | EH4C     | COMPRESSOR HEATER, COMPRESSOR 4 CIRCUIT 2               |    |    |    |    |    |    |    |    |  |
| B11        | COLLECTOR CHILLED WATER OUTLET SENSOR                   |   |   |   |   |   |   |   |   |    |          |   |    |    |    |    |    |    |    |    |  |
| B4         | AIR AMBIANT EXCHANGERS SENSOR                           |   |   |   |   |   |   |   |   |    |          |   |    |    |    |    |    |    |    |    |  |
| B8         | REFRIGERANT EXCHANGER 1 SENSOR                          |   |   |   |   |   |   |   |   |    |          |   |    |    |    |    |    |    |    |    |  |
| B1         | EXTERNAL TEMPERATURE SENSOR                             |   |   |   |   |   |   |   |   |    |          |   |    |    |    |    |    |    |    |    |  |
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|  | DESSINE :          | JGz  |              |              |     |                      |  |  | Document n° : <b>00DCG000385000E</b> | COMPONENT DESIGNATIONS | FOLIO<br><b>03</b> |  |
|  | VERIFIE :          | 05   | 11/01/2024   | PCA-2023-047 | JGz | ◀ 02 04 ▶            |  |  |                                      |                        |                    |  |
|  | DATE DE CREATION : | 04   | 28/09/2022   | Update       | JGz | Logiciel SEE v. 5.10 |  |  |                                      |                        |                    |  |
|  | INDICE             | DATE | MODIFICATION | DES.         |     |                      |  |  |                                      |                        |                    |  |

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| Q1         | HAUPT-TRENNSCHALTER                                |   |   |   |   |   |   |   |    | B25      | FLÜSSIGKEIT-FÜHLER KREISLAUF 1                     |    |    |    |    |    |    |    |    |  |
| QG1        | LEISTUNGSSCHALTER VERDICHTER 1, KREISLAUF 1        |   |   |   |   |   |   |   |    | B7A      | HEISSGASFÜHLER STUFE 1 KREISLAUF 1                 |    |    |    |    |    |    |    |    |  |
| AMG1       | SOFT STARTER VERDICHTER 1, KREISLAUF 1             |   |   |   |   |   |   |   |    | B7B      | HEISSGASFÜHLER STUFE 2 KREISLAUF 1                 |    |    |    |    |    |    |    |    |  |
| EC1        | VERDICHTER 1, KREISLAUF 1                          |   |   |   |   |   |   |   |    | BHP1     | VERDICHTUNGSDRUCK SENSOR, KREISLAUF 1              |    |    |    |    |    |    |    |    |  |
| QG2        | LEISTUNGSSCHALTER VERDICHTER 2, KREISLAUF 1        |   |   |   |   |   |   |   |    | B14      | FROSTSCHUTZFÜHLER / KALTEMITTEL WÄRMEAUSTAUSCHER 2 |    |    |    |    |    |    |    |    |  |
| AMG2       | SOFT STARTER VERDICHTER 2, KREISLAUF 1             |   |   |   |   |   |   |   |    | B12A     | HEISSGASFÜHLER STUFE 1 KREISLAUF 2                 |    |    |    |    |    |    |    |    |  |
| EC2        | VERDICHTER 2, KREISLAUF 1                          |   |   |   |   |   |   |   |    | B12B     | HEISSGASFÜHLER STUFE 2 KREISLAUF 2                 |    |    |    |    |    |    |    |    |  |
| QG3        | LEISTUNGSSCHALTER VERDICHTER 3, KREISLAUF 2        |   |   |   |   |   |   |   |    | B26      | FLÜSSIGKEIT-FÜHLER KREISLAUF 2                     |    |    |    |    |    |    |    |    |  |
| AMG3       | SOFT STARTER VERDICHTER 3, KREISLAUF 2             |   |   |   |   |   |   |   |    | BHP2     | VERDICHTUNGSDRUCK SENSOR, KREISLAUF 2              |    |    |    |    |    |    |    |    |  |
| EC3        | VERDICHTER 3, KREISLAUF 2                          |   |   |   |   |   |   |   |    | HP2      | HOCHDRUCK-SICHERHEITS-SCHALTER VERDICHTER 2        |    |    |    |    |    |    |    |    |  |
| QG4        | LEISTUNGSSCHALTER VERDICHTER 4, KREISLAUF 2        |   |   |   |   |   |   |   |    | KA4      | STEUERRELAIS, VERDICHTER 4, KREISLAUF 2            |    |    |    |    |    |    |    |    |  |
| AMG4       | SOFT STARTER VERDICHTER 4, KREISLAUF 2             |   |   |   |   |   |   |   |    | KA4.1    | STEUERRELAIS VEWARMING , VERDICHTER 4, KREISLAUF 2 |    |    |    |    |    |    |    |    |  |
| EC4        | VERDICHTER 4, KREISLAUF 2                          |   |   |   |   |   |   |   |    | T2       | TRANSFORMATOR ÜBERHITZUNGSREGLER                   |    |    |    |    |    |    |    |    |  |
| QT1        | LEISTUNGSSCHALTER STEUERSTROMKREIS                 |   |   |   |   |   |   |   |    | QT4      | LEISTUNGSSCHALTER ÜBERHITZUNGSREGLER               |    |    |    |    |    |    |    |    |  |
| KCP1       | DREIPHASENÜBERWACHUNGRELAIS                        |   |   |   |   |   |   |   |    | DET1     | ÜBERHITZUNGSREGLER                                 |    |    |    |    |    |    |    |    |  |
| T1         | TRANSFORMATOR STEUERSTROMKREIS                     |   |   |   |   |   |   |   |    | ST100    | REGELTHERMOSTAT FUER SCHALTSCHRANKVENTILATOR       |    |    |    |    |    |    |    |    |  |
| QT2        | LEISTUNGSSCHALTER                                  |   |   |   |   |   |   |   |    | EV100    | SCHALTSCHRANKVENTILATOR                            |    |    |    |    |    |    |    |    |  |
| CPU / ADD2 | HAUPTPLATINE                                       |   |   |   |   |   |   |   |    | B20      | SAUGGASFÜHLER KREISLAUF 1                          |    |    |    |    |    |    |    |    |  |
| FS1        | STROEMUNGSWAECHTER                                 |   |   |   |   |   |   |   |    | BBP-DET1 | MESSWANDLER SAUGDRUCK, KREISLAUF 1                 |    |    |    |    |    |    |    |    |  |
| KP1        | SIGNALISIERUNG „PUMPE EIN“.                        |   |   |   |   |   |   |   |    | B21      | SAUGGASFÜHLER KREISLAUF 2                          |    |    |    |    |    |    |    |    |  |
| HP1        | HOCHDRUCK-SICHERHEITS-SCHALTER VERDICHTER 1        |   |   |   |   |   |   |   |    | BBP-DET2 | MESSWANDLER SAUGDRUCK, KREISLAUF 2                 |    |    |    |    |    |    |    |    |  |
| KA1        | STEUERRELAIS, VERDICHTER 1, KREISLAUF 1            |   |   |   |   |   |   |   |    | EXV1     | ELEKTRONISCHES EXPANSIONSVENTIL, KREISLAUF 1       |    |    |    |    |    |    |    |    |  |
| KA2        | STEUERRELAIS, VERDICHTER 2, KREISLAUF 1            |   |   |   |   |   |   |   |    | EXV2     | ELEKTRONISCHES EXPANSIONSVENTIL, KREISLAUF 2       |    |    |    |    |    |    |    |    |  |
| KA3        | STEUERRELAIS, VERDICHTER 3, KREISLAUF 2            |   |   |   |   |   |   |   |    | QT5      | LEISTUNGSSCHALTER, KOMPRESSORHEIZUNG               |    |    |    |    |    |    |    |    |  |
| KA1.1      | STEUERRELAIS VEWARMING , VERDICHTER 1, KREISLAUF 1 |   |   |   |   |   |   |   |    | EH1C     | VEWARMING , VERDICHTER 1, KREISLAUF 1              |    |    |    |    |    |    |    |    |  |
| KA2.1      | STEUERRELAIS VEWARMING , VERDICHTER 2, KREISLAUF 1 |   |   |   |   |   |   |   |    | EH2C     | VEWARMING , VERDICHTER 2, KREISLAUF 1              |    |    |    |    |    |    |    |    |  |
| KA3.1      | STEUERRELAIS VEWARMING , VERDICHTER 3, KREISLAUF 2 |   |   |   |   |   |   |   |    | EH3C     | VEWARMING , VERDICHTER 3, KREISLAUF 2              |    |    |    |    |    |    |    |    |  |
| B2         | FÜHLER KALTWASSEREINTRITT                          |   |   |   |   |   |   |   |    | EH4C     | VEWARMING , VERDICHTER 4, KREISLAUF 2              |    |    |    |    |    |    |    |    |  |
| B11        | FÜHLER KALTWASSERAUSTRITT (SAMMLER)                |   |   |   |   |   |   |   |    |          |  |    |    |    |    |    |    |    |    |  |
| B4         | WARMWASSER / UMGEBUNGSLUFT AUSTAUSCHER FÜHLER      |   |   |   |   |   |   |   |    |          |  |    |    |    |    |    |    |    |    |  |
| B8         | FROSTSCHUTZFÜHLER / KALTEMITTEL WÄRMEAUSTAUSCHER 1 |   |   |   |   |   |   |   |    |          |  |    |    |    |    |    |    |    |    |  |
| B1         | EXTERNER TEMPERATURSENSOR                          |   |   |   |   |   |   |   |    |          |  |    |    |    |    |    |    |    |    |  |
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| DESSINE :          | JGz        |        |            |              |      |
| VERIFIE :          |            |        |            |              |      |
| DATE DE CREATION : | 28/09/2022 | 05     | 11/01/2024 | PCA-2023-047 | JGz  |
|                    |            | 04     | 28/09/2022 | Update       | JGz  |
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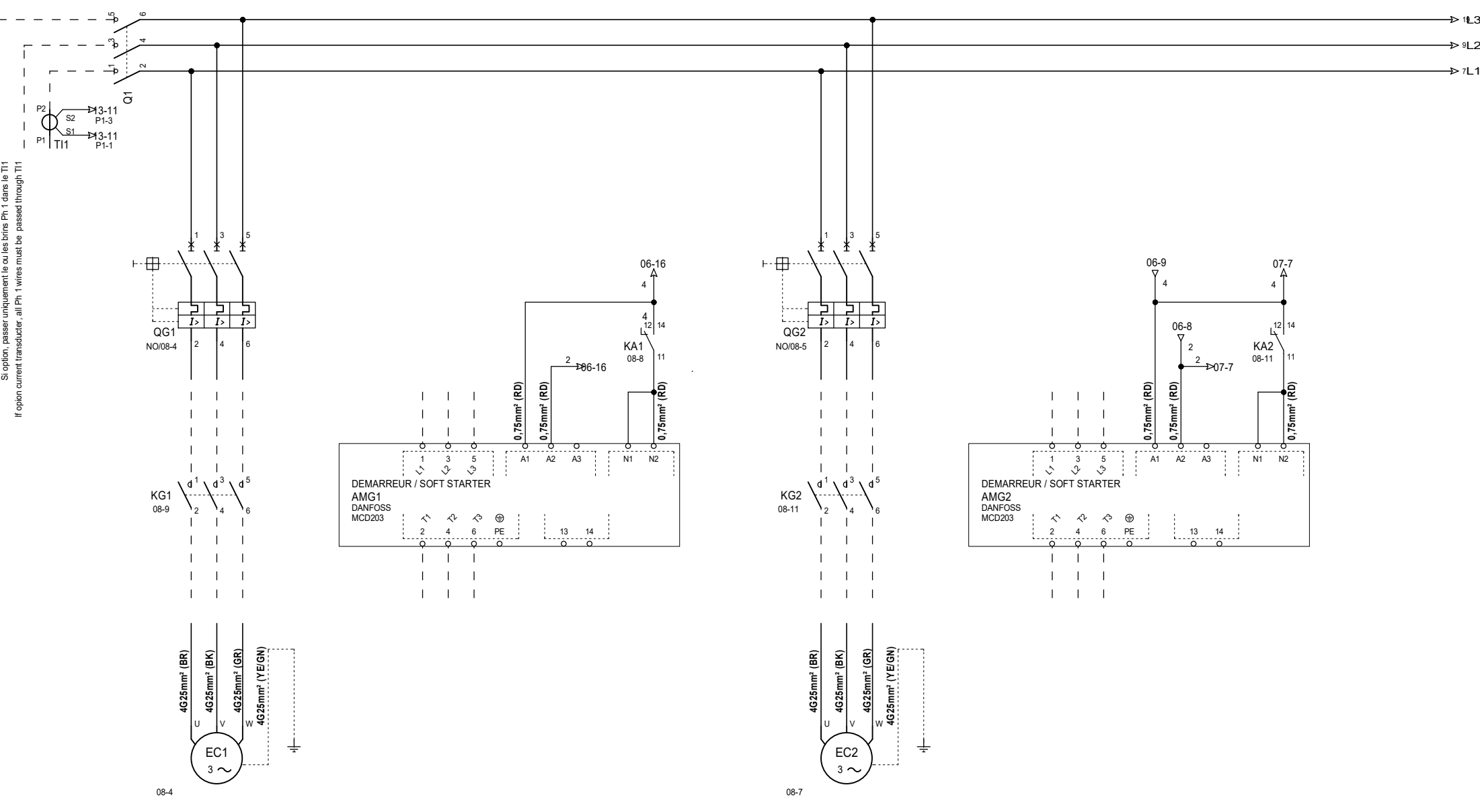
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KOMPONENTENBEZEICHNUNGEN

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| 1          | 2  | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12       | 13   | 14 | 15 | 16 | 17 | 18 | 19 | 20 |  |
| Q1         | SECCIONADOR GENERAL  |   |   |   |   |   |   |   |    |    | B25      | SONDA LIQUIDO REFRIGERANTE CIRCUITO 1                              |    |    |    |    |    |    |    |  |
| QG1        | GUARDAMOTORES COMPRESOR 1, CIRCUITO 1                              |   |   |   |   |   |   |   |    |    | B7A      | SONDA DE DESCARGA DEL ETAPA 1 CIRCUITO 1                           |    |    |    |    |    |    |    |  |
| AMG1       | ARRANQUE SUAVE COMPRESOR 1, CIRCUITO 1                             |   |   |   |   |   |   |   |    |    | B7B      | SONDA DE DESCARGA DEL ETAPA 2 CIRCUITO 1                           |    |    |    |    |    |    |    |  |
| EC1        | COMPRESOR 1, CIRCUITO 1  |   |   |   |   |   |   |   |    |    | BHP1     | TRANSDUCTOR DE PRESION DE DESCARGA CIRCUITO 1                      |    |    |    |    |    |    |    |  |
| QG2        | GUARDAMOTORES COMPRESOR 2, CIRCUITO 1                              |   |   |   |   |   |   |   |    |    | B14      | SONDA ANTIHIELO EN LIQUIDO REFRIGERANTE INTERCAMBIADOR 2 O BATERIA |    |    |    |    |    |    |    |  |
| AMG2       | ARRANQUE SUAVE COMPRESOR 2, CIRCUITO 1                             |   |   |   |   |   |   |   |    |    | B12A     | SONDA DE DESCARGA DEL ETAPA 1 CIRCUITO 2                           |    |    |    |    |    |    |    |  |
| EC2        | COMPRESOR 2, CIRCUITO 1  |   |   |   |   |   |   |   |    |    | B12B     | SONDA DE DESCARGA DEL ETAPA 2 CIRCUITO 2                           |    |    |    |    |    |    |    |  |
| QG3        | GUARDAMOTORES COMPRESOR 3, CIRCUITO 2                              |   |   |   |   |   |   |   |    |    | B26      | SONDA LIQUIDO REFRIGERANTE CIRCUITO 2                              |    |    |    |    |    |    |    |  |
| AMG3       | ARRANQUE SUAVE COMPRESOR 3, CIRCUITO 2                             |   |   |   |   |   |   |   |    |    | BHP2     | TRANSDUCTOR DE PRESION DE DESCARGA CIRCUITO 2                      |    |    |    |    |    |    |    |  |
| EC3        | COMPRESOR 3, CIRCUITO 2  |   |   |   |   |   |   |   |    |    | HP2      | INTERRUPTOR DE SEGURIDAD DE PRESION ALTA COMPRESOR CIRCUITO 2      |    |    |    |    |    |    |    |  |
| QG4        | GUARDAMOTORES COMPRESOR 4, CIRCUITO 2                              |   |   |   |   |   |   |   |    |    | KA4      | RELÉ COMPRESOR 4, CIRCUITO 2                                       |    |    |    |    |    |    |    |  |
| AMG4       | ARRANQUE SUAVE COMPRESOR 4, CIRCUITO 2                             |   |   |   |   |   |   |   |    |    | KA4.1    | CALENTADOR DEL CARTER DEL COMPRESOR 4, CIRCUITO 2                  |    |    |    |    |    |    |    |  |
| EC4        | COMPRESOR 4, CIRCUITO 2  |   |   |   |   |   |   |   |    |    | T2       | TRANSFORMADOR DEL CONTROLADORES DE RECALENTAMIENTO                 |    |    |    |    |    |    |    |  |
| QT1        | PROTECCIÓN DE CIRCUITO CONTROLADO                                  |   |   |   |   |   |   |   |    |    | QT4      | PROTECCIÓN DEL CONTROLADORES DE RECALENTAMIENTO                    |    |    |    |    |    |    |    |  |
| KCP1       | RELÉ DE CONTROL DE VOLTAJE   |   |   |   |   |   |   |   |    |    | DET1     | CONTROLADORES DE RECALENTAMIENTO                                   |    |    |    |    |    |    |    |  |
| T1         | TRANSFORMADOR DEL CIRCUITO DE CONTROL                              |   |   |   |   |   |   |   |    |    | ST100    | TERMOSTATO DE CONTROL DEL VENTILADOR DEL CUADRO ELCTRICO           |    |    |    |    |    |    |    |  |
| QT2        | PROTECCIÓN DE CIRCUITO CONTROLADO                                  |   |   |   |   |   |   |   |    |    | EV100    | VENTILADOR DEL CUADRO ELCTRICO                                     |    |    |    |    |    |    |    |  |
| CPU / ADD2 | MODULO BASADO EN MICROPROCESADOR AND MODULO DE ENTRADAS SALIDAS    |   |   |   |   |   |   |   |    |    | B20      | SONDA ASPIRACION CIRCUITO 1  |    |    |    |    |    |    |    |  |
| FS1        | INTERRUPTOR DE CAUDAL  |   |   |   |   |   |   |   |    |    | BBP-DET1 | TRANSDUCTOR DE PRESION DE ASPIRACION CIRCUITO 1                    |    |    |    |    |    |    |    |  |
| KP1        | SEÑALIZACIÓN BOMBLEAR EN   |   |   |   |   |   |   |   |    |    | B21      | SONDA ASPIRACION CIRCUITO 2  |    |    |    |    |    |    |    |  |
| HP1        | INTERRUPTOR DE SEGURIDAD DE PRESION ALTA COMPRESOR CIRCUITO 1      |   |   |   |   |   |   |   |    |    | BBP-DET2 | TRANSDUCTOR DE PRESION DE ASPIRACION CIRCUITO 2                    |    |    |    |    |    |    |    |  |
| KA1        | RELÉ COMPRESOR 1, CIRCUITO 1                                       |   |   |   |   |   |   |   |    |    | EXV1     | VALVULA DE EXPANSION ELECTRONICA CIRCUITO 1                        |    |    |    |    |    |    |    |  |
| KA2        | RELÉ COMPRESOR 2, CIRCUITO 1                                       |   |   |   |   |   |   |   |    |    | EXV2     | VALVULA DE EXPANSION ELECTRONICA CIRCUITO 2                        |    |    |    |    |    |    |    |  |
| KA3        | RELÉ COMPRESOR 3, CIRCUITO 2                                       |   |   |   |   |   |   |   |    |    | QT5      | PROTECCIÓN CALENTADOR DEL CARTER                                   |    |    |    |    |    |    |    |  |
| KA1.1      | RELÉ CALENTADOR DEL CARTER DEL COMPRESOR 1, CIRCUITO 1             |   |   |   |   |   |   |   |    |    | EH1C     | CALENTADOR DEL CARTER DEL COMPRESOR 1, CIRCUITO 1                  |    |    |    |    |    |    |    |  |
| KA2.1      | RELÉ CALENTADOR DEL CARTER DEL COMPRESOR 2, CIRCUITO 1             |   |   |   |   |   |   |   |    |    | EH2C     | CALENTADOR DEL CARTER DEL COMPRESOR 2, CIRCUITO 1                  |    |    |    |    |    |    |    |  |
| KA3.1      | RELÉ CALENTADOR DEL CARTER DEL COMPRESOR 3, CIRCUITO 2             |   |   |   |   |   |   |   |    |    | EH3C     | CALENTADOR DEL CARTER DEL COMPRESOR 3, CIRCUITO 1                  |    |    |    |    |    |    |    |  |
| B2         | SONDA TEMPERATURA ENTRADA DE AGUA INTERCAMBIADOR                   |   |   |   |   |   |   |   |    |    | EH4C     | CALENTADOR DEL CARTER DEL COMPRESOR 4, CIRCUITO 2                  |    |    |    |    |    |    |    |  |
| B11        | SONDA SALIDA DE AGUA DEL COLECTOR                                  |   |   |   |   |   |   |   |    |    |          |  |    |    |    |    |    |    |    |  |
| B4         | SONDA AGUA CALIENTE / AMBIENTE INTERCAMBIADOR                      |   |   |   |   |   |   |   |    |    |          |  |    |    |    |    |    |    |    |  |
| B8         | SONDA ANTIHIELO EN LIQUIDO REFRIGERANTE INTERCAMBIADOR 1 O BATERIA |   |   |   |   |   |   |   |    |    |          |  |    |    |    |    |    |    |    |  |
| B1         | SONDA DE TEMPERATURA EXTERNA                                       |   |   |   |   |   |   |   |    |    |          |  |    |    |    |    |    |    |    |  |
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| DESIGNACIONES DE COMPONENTES | DESIGNE : JGz                 |        |            |              |      |  | Document n° : <b>00DCG000385000E</b> | FOLIO<br><b>05</b><br>◀ 04 06 ▶<br>Logiciel SEE v. 5.10 |
|                              | VERIFIE :                     | 05     | 11/01/2024 | PCA-2023-047 | JGz  |  |                                      |   |
|                              | DATE DE CREATION : 28/09/2022 | 04     | 28/09/2022 | Update       | JGz  |  |                                      |   |
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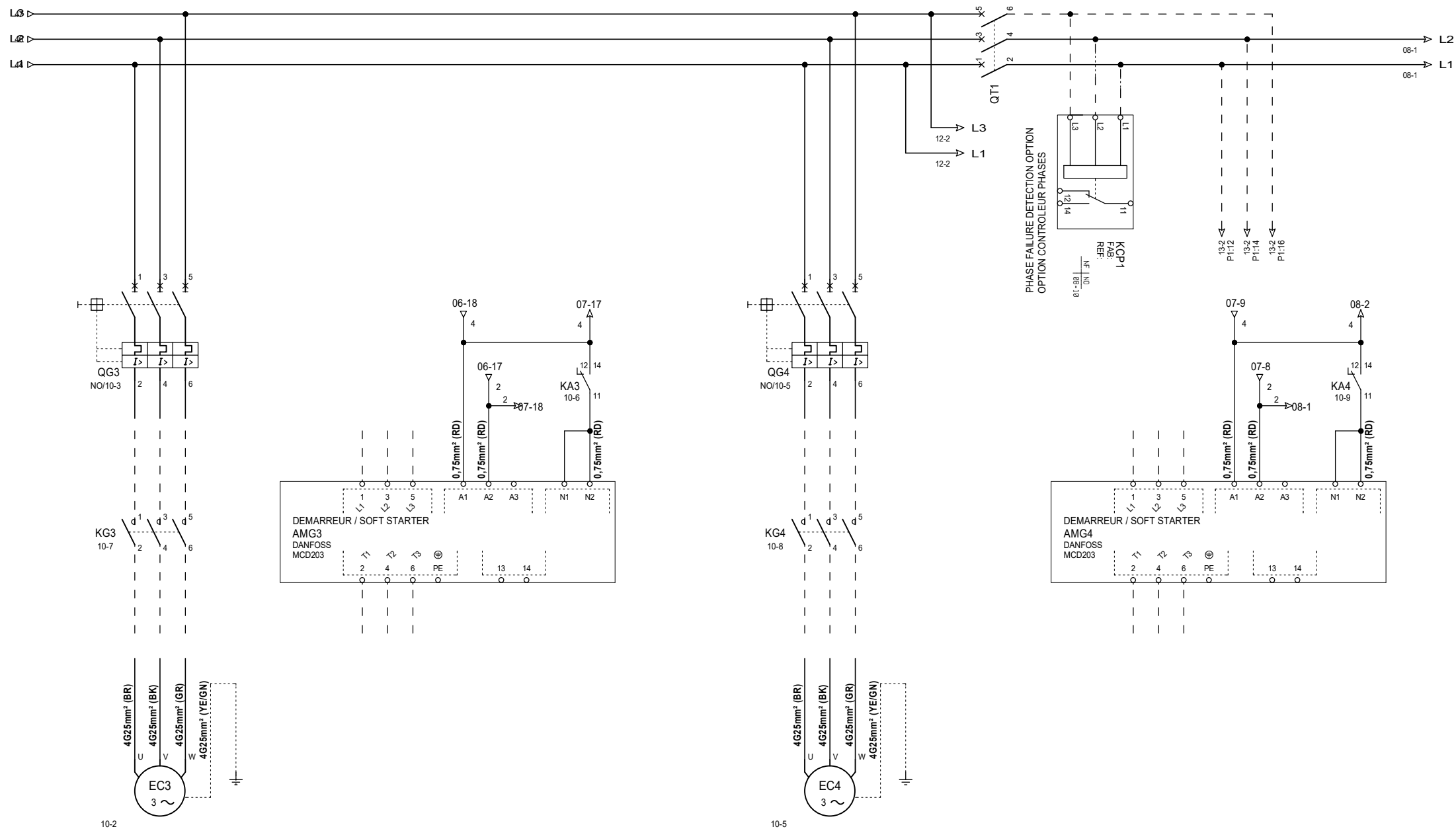
Si option, passer uniquement le ou les brins Ph.1 dans le TT1  
If option current transformer, all Ph. 1 wires must be passed through TT1



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| DESSINE :          | JGz        |        |            |              |
| VERIFIE :          |            | 05     | 11/01/2024 | PCA-2023-047 |
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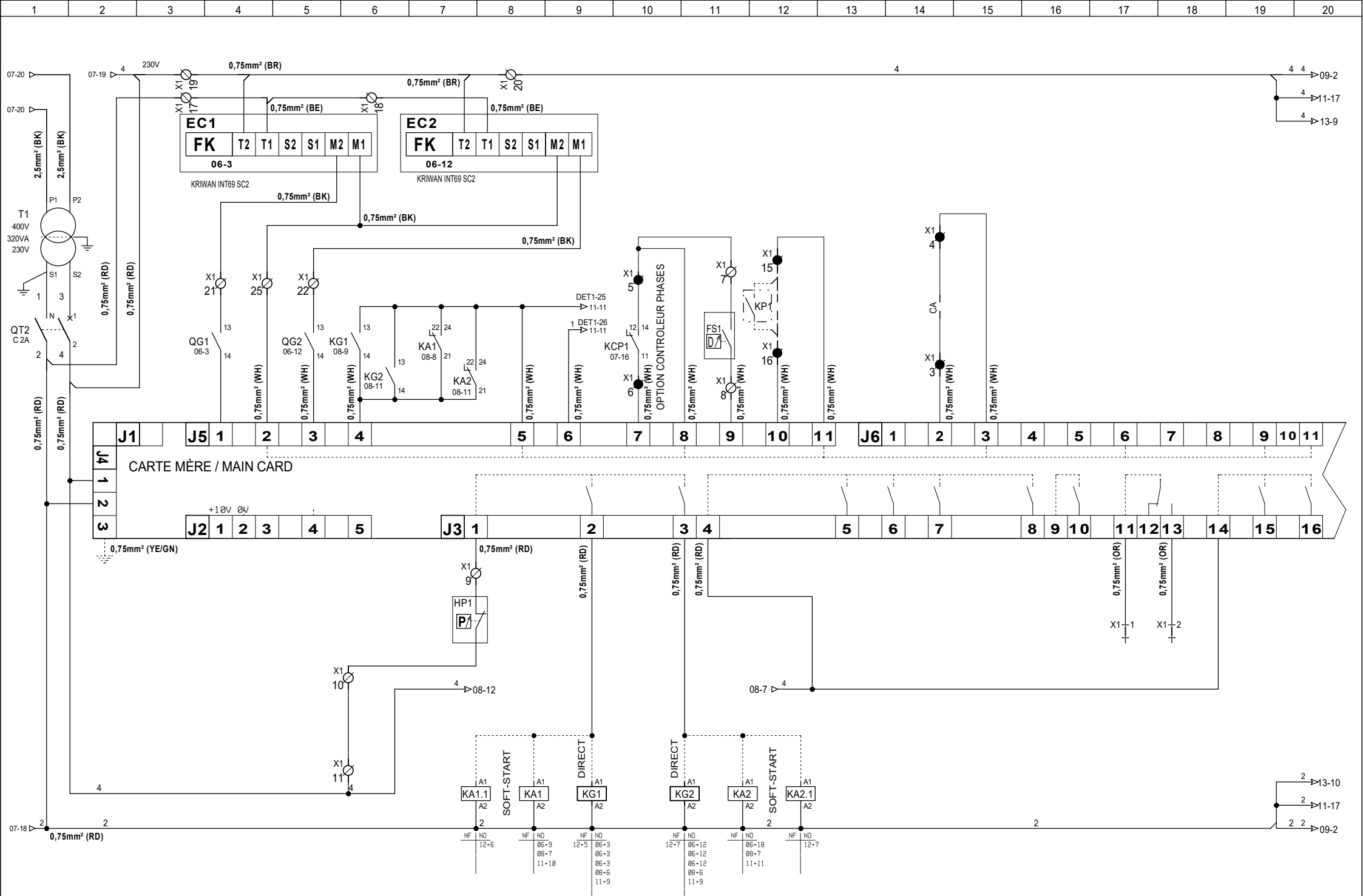
CIRCUIT PUISSANCE, CIRCUIT 1 / POWER CIRCUIT, CIRCUIT 1  
STROMKREIS, KREIS 1 / CIRCUITO DE ENERGÍA



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| DESSINE :          | JGz        |              |            |              |
| VERIFIE :          |            | 05           | 11/01/2024 | PCA-2023-047 |
| DATE DE CREATION : | 28/09/2022 | 04           | 28/09/2022 | Update       |
| INDICE             | DATE       | MODIFICATION |            | DES.         |

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CIRCUIT PUISSANCE, CIRCUIT 2 / POWER CIRCUIT, CIRCUIT 2  
STROMKREIS, KREIS 2 / CIRCUITO DE ENERGÍA

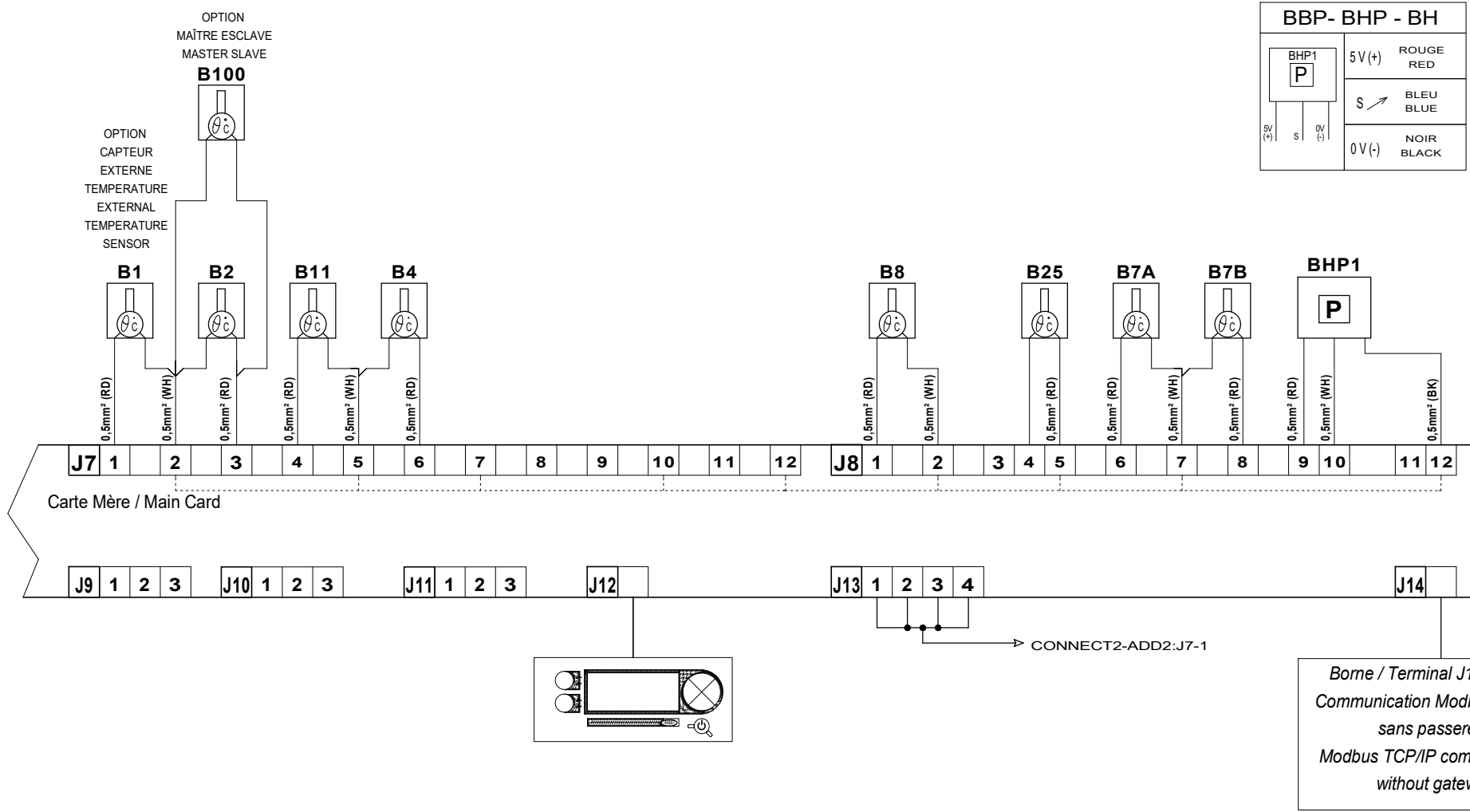


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| INDICE             | DATE       | MODIFICATION | DES.       |              |

Document n° : **00DCG000385000E**

CONTROLE CIRCUIT 1 / CONTROL CIRCUIT 1  
 STEUERUNGSKREIS 1 / CIRCUITO DE CONTROL 1





| BBP- BHP - BH |       |               |
|---------------|-------|---------------|
|               | 5V(+) | ROUGE<br>RED  |
|               | S     | BLEU<br>BLUE  |
|               | 0V(-) | NOIR<br>BLACK |

Carte Mère / Main Card

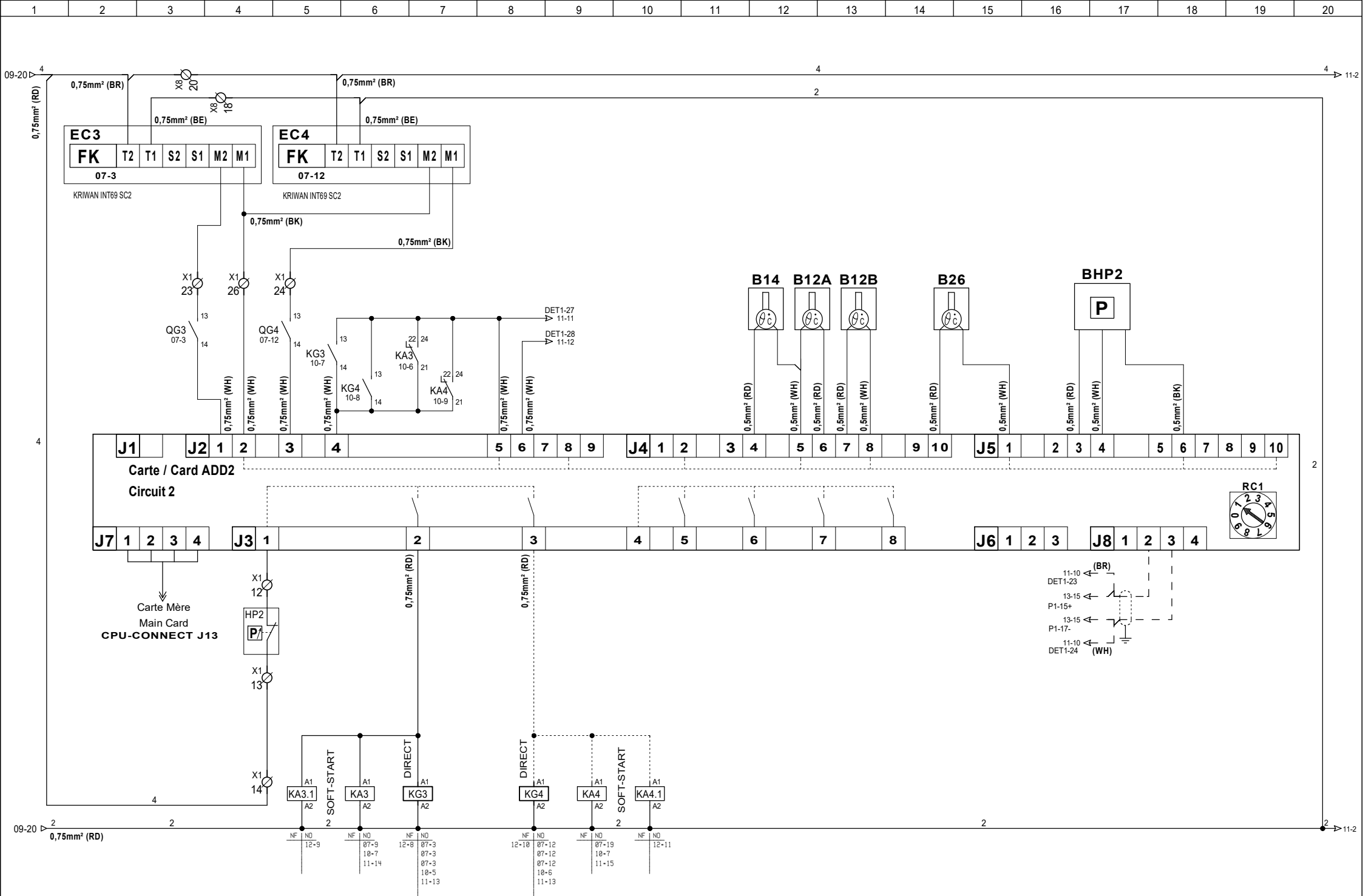
Borne / Terminal J14 (RJ45)  
 Communication Modbus TCP/IP  
 sans passerelle  
 Modbus TCP/IP communication  
 without gateway

Raccordement client / Customer connection

|                    |            |        |            |              |
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| DESSINE :          | JGz        |        |            |              |
| VERIFIE :          |            | 05     | 11/01/2024 | PCA-2023-047 |
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| DATE DE CREATION : | 28/09/2022 | INDICE | DATE       | MODIFICATION |
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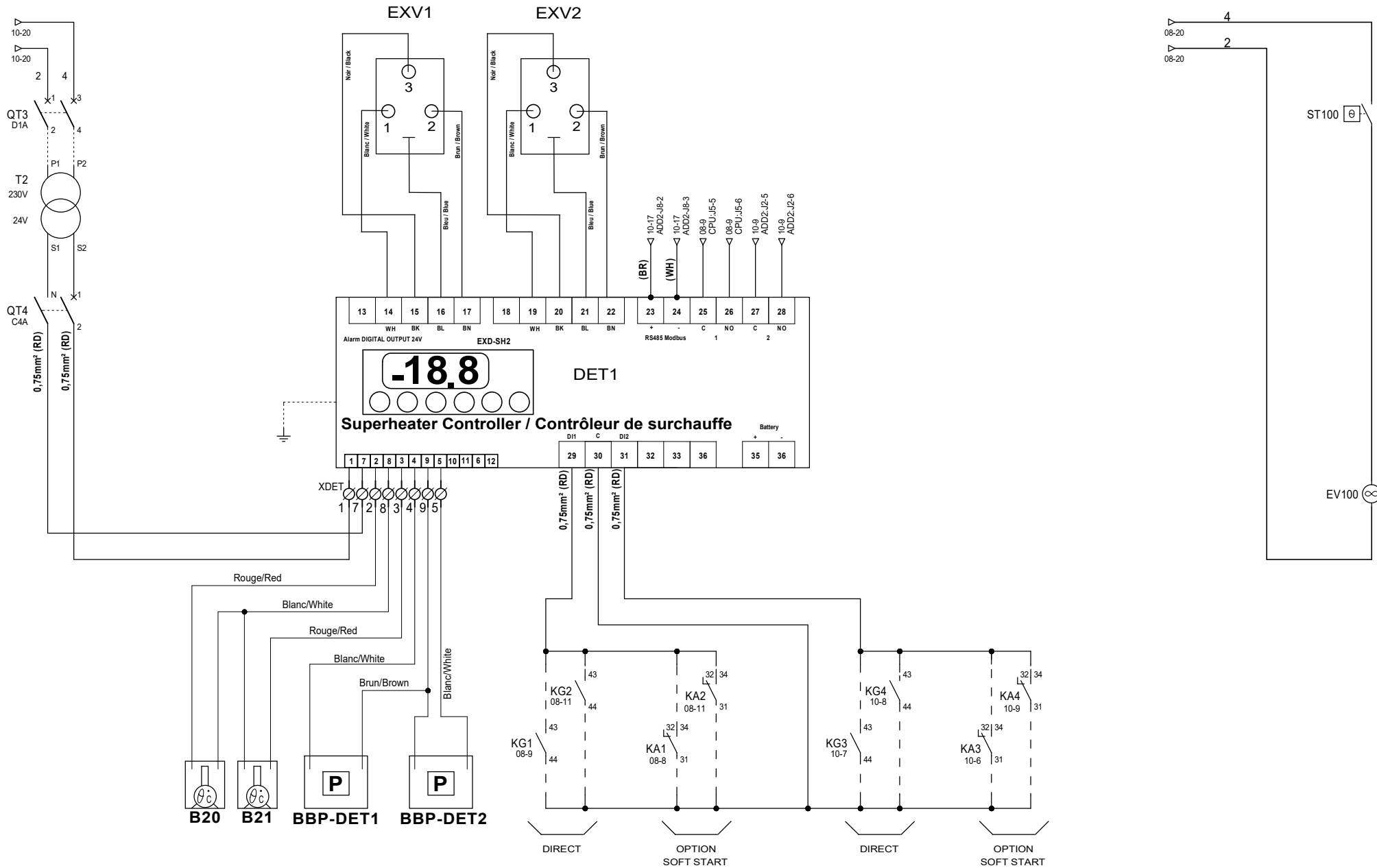
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CONTROLE CIRCUIT 1 / CONTROL CIRCUIT 1  
 STEUERUNGSKREIS 1 / CIRCUITO DE CONTROL 1



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| DESSINE :          | JGz           |              |      |                                      |
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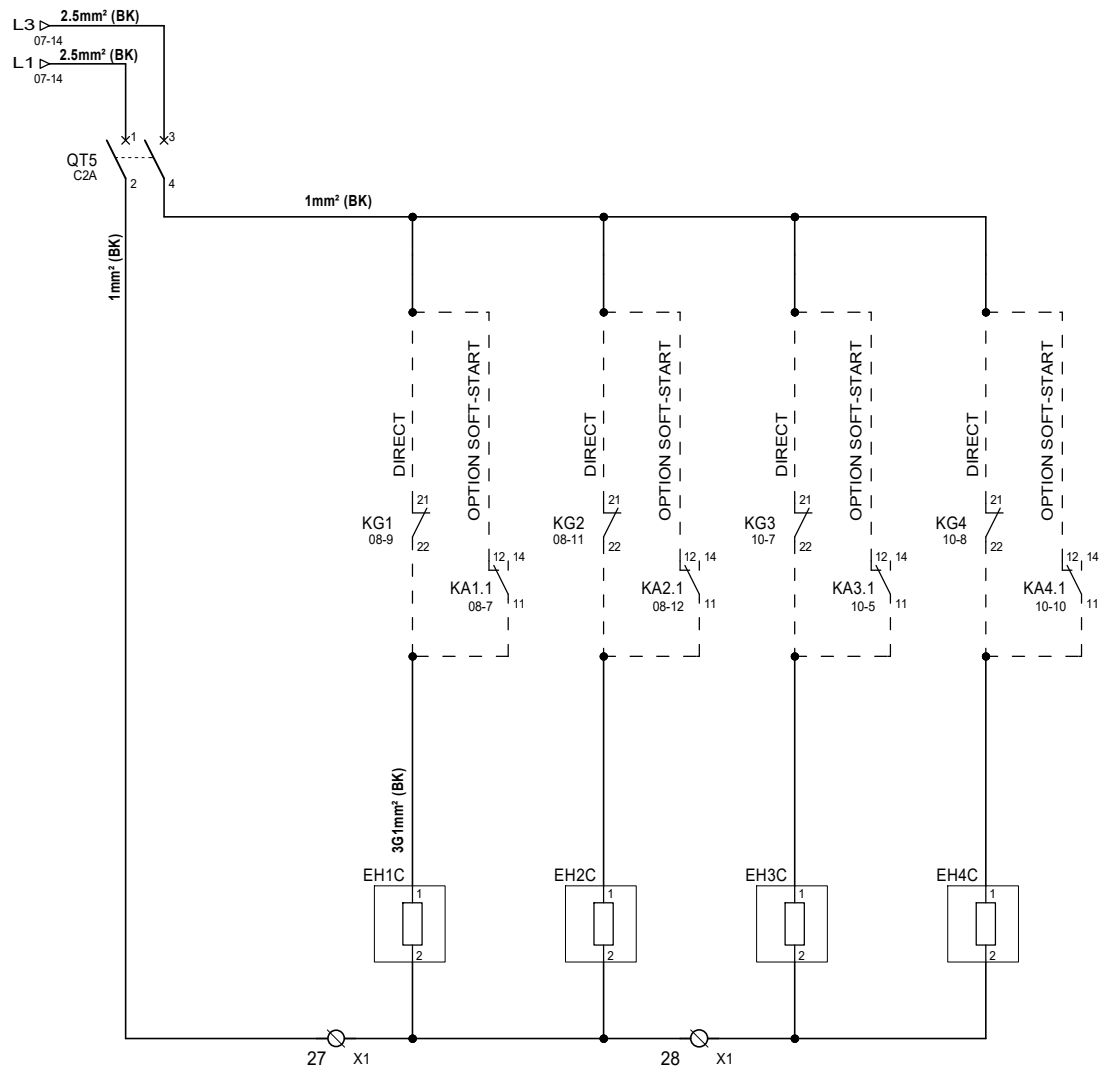
CONTROLE CIRCUIT 2 / CONTROL CIRCUIT 2  
 STEUERUNGSKREIS 2 / CIRCUITO DE CONTROL 2



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| DESSINE :          | JGz        |    |              |              |
| VERIFIE :          |            | 05 | 11/01/2024   | PCA-2023-047 |
| DATE DE CREATION : | 28/09/2022 | 04 | 28/09/2022   | Update       |
| INDICE             | DATE       |    | MODIFICATION | DES.         |

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CONTRÔLEUR DE SURCHAUFFE / COOLING CONTROLLER  
 ÜBERHITZUNGSREGLER / CONTROLADORES DE RECALENTAMIENTO

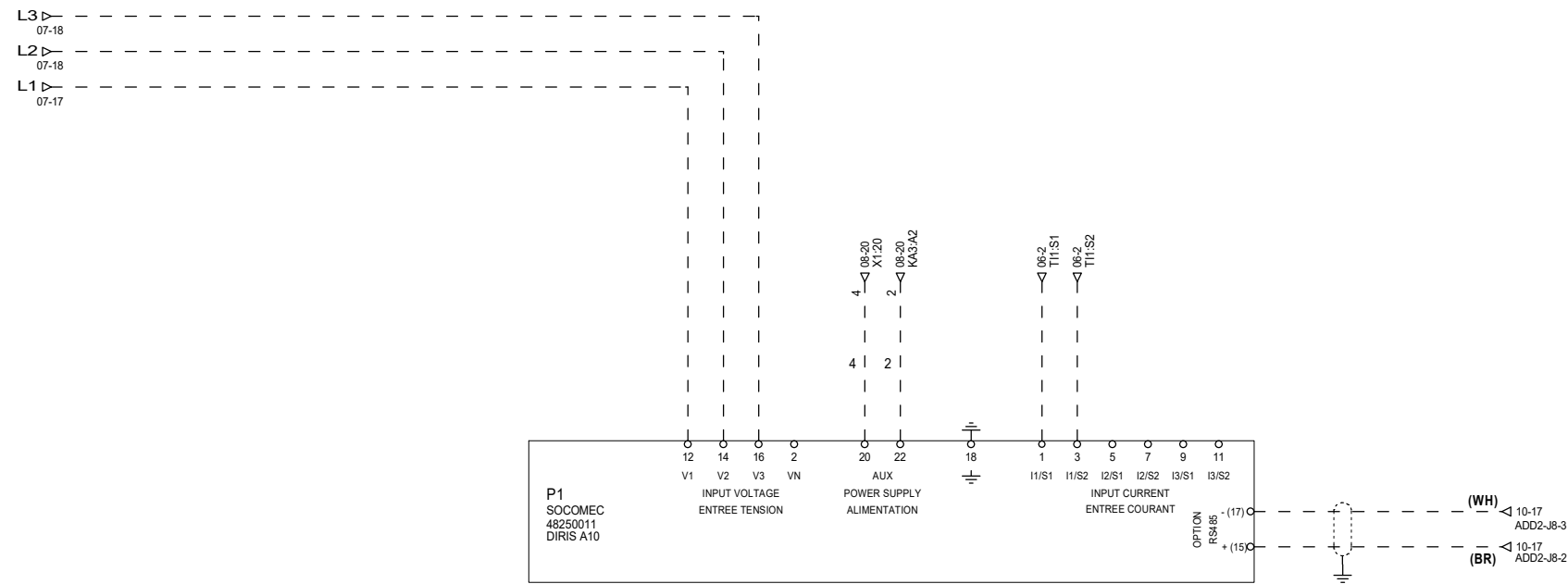


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| DESSINE :          | JGz        |        |            |              |
| VERIFIE :          |            | 05     | 11/01/2024 | PCA-2023-047 |
| DATE DE CREATION : | 28/09/2022 | 04     | 28/09/2022 | Update       |
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|  |  |  |  | JGz  |
|  |  |  |  | DES. |

Document n° : **00DCG000385000E**

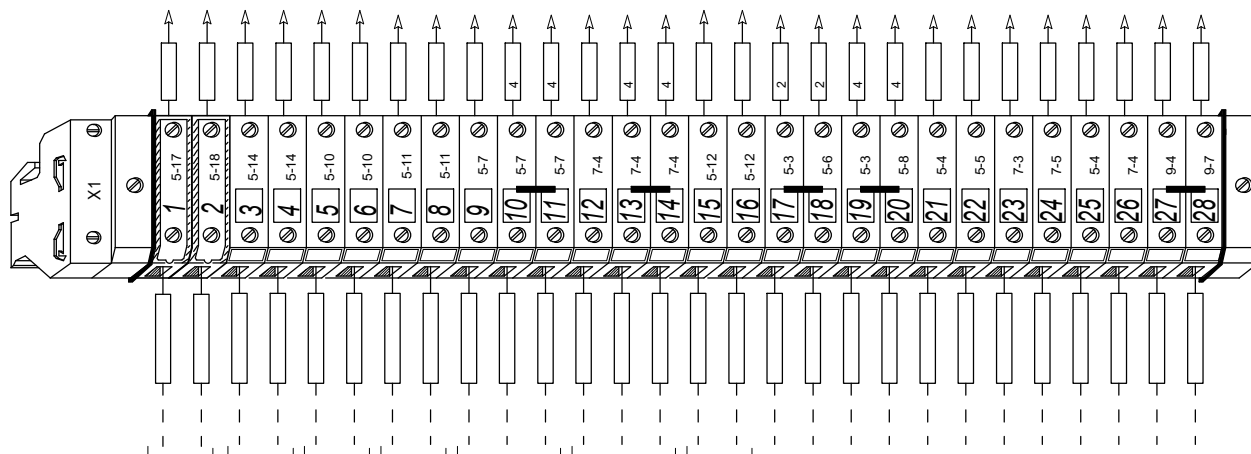
RÉCHAUFFEUR DE CARTER / COMPRESSOR HEATER  
VEWARMING / CALENTADOR DEL CARTER



|                    |            |               |              |     |
|--------------------|------------|---------------|--------------|-----|
| DESSINE :          | JGz        |               |              |     |
| VERIFIE :          |            |               |              |     |
| DATE DE CREATION : | 28/09/2022 | 05 11/01/2024 | PCA-2023-047 | JGz |
|                    |            | 04 28/09/2022 | Update       | JGz |
| INDICE             | DATE       | MODIFICATION  | DES.         |     |

Document n° : **00DCG000385000E**

OPTION COMPTEUR ENERGETIQUE / ENERGY METER OPTION  
ENERGIEZÄHLER-OPTION / OPCIÓN DE MEDIDOR DE ENER



FAULT SIGNALING CONTACT  
CONTACT SIGNALISATION DEFAUT

AUTOMATICITY CONTROL  
COMMANDE D'AUTOMATICITE

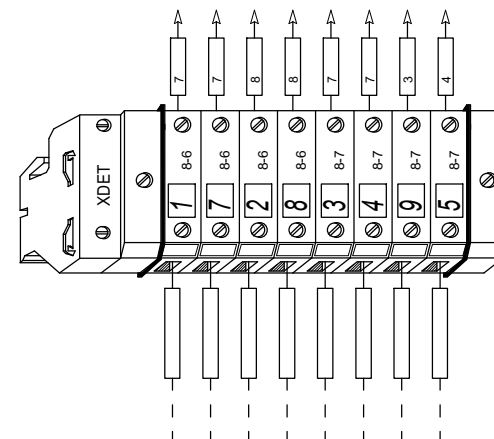
PHASE SEQUENCE MONITORING RELAY OPTION  
OPTION CONTROLE DE PHASES

WATER FLOW CONTROLLER  
CONTROLEUR DEBIT D'EAU

COMPRESSOR HIGH PRESSURE SAFETY SWITCH CIRCUIT 1  
PRESSOSTAT HP SECURITE CIRCUIT1

COMPRESSOR HIGH PRESSURE SAFETY SWITCH CIRCUIT 2  
PRESSOSTAT HP SECURITE CIRCUIT2

PUMP ON SIGNALING  
SIGNALISATION MARCHÉ POMPE



**RACCORDEMENTS CLIENT**  
**CUSTOMER INTERLOCK**

|                    |            |        |            |              |
|--------------------|------------|--------|------------|--------------|
| DESSINE :          | JGz        |        |            |              |
| VERIFIE :          |            | 05     | 11/01/2024 | PCA-2023-047 |
| DATE DE CREATION : | 28/09/2022 | 04     | 28/09/2022 | Update       |
|                    |            | INDICE | DATE       | MODIFICATION |

Document n° : **00DCG000385000E**

BORNERS / TERMINAL BLOCKS  
ANSCHLUSSBLÖCKE / BLOQUES DE TERMINALES

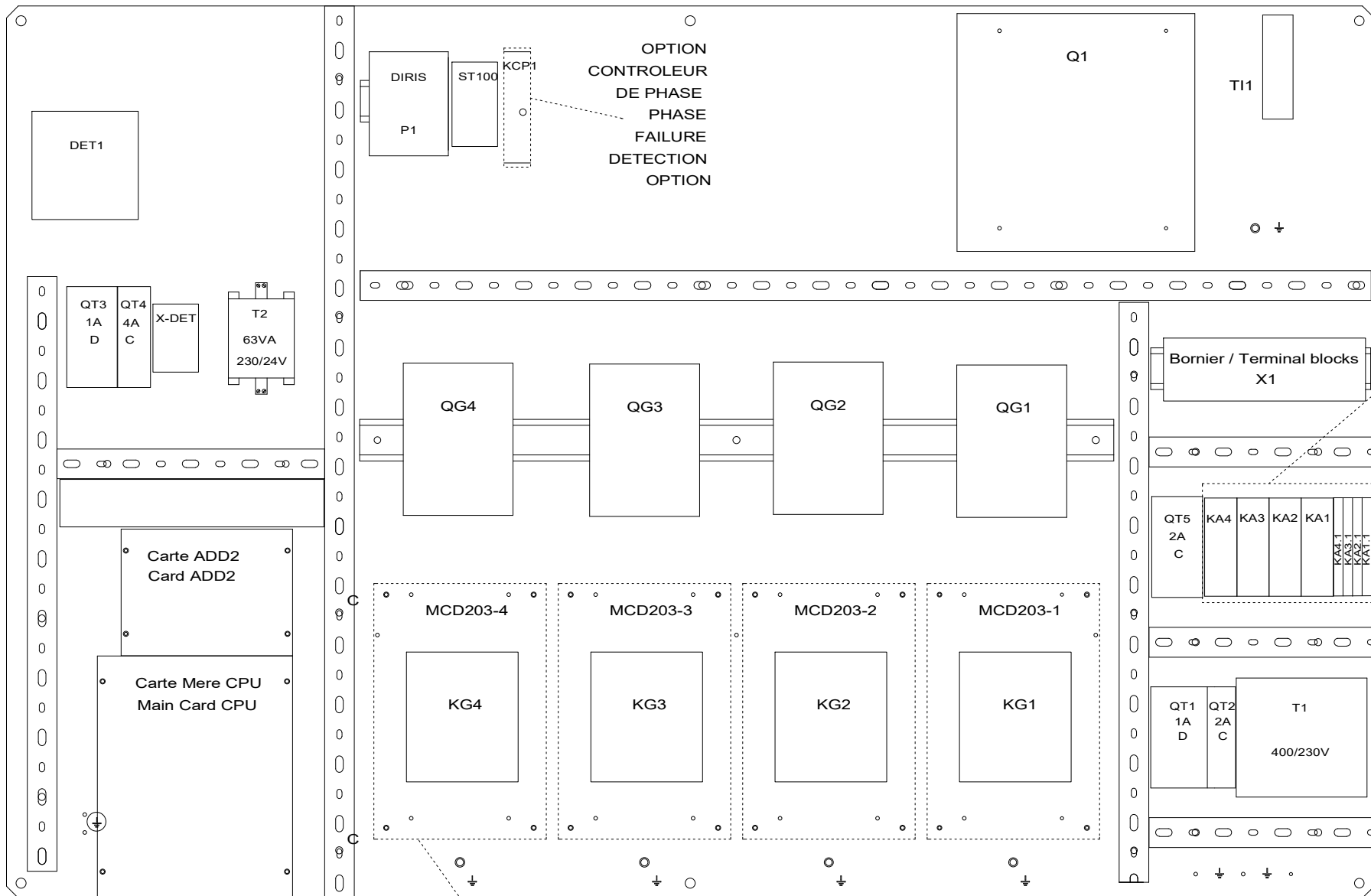
| COMPRESSORS THERMAL PROTECTIONS |                  |
|---------------------------------|------------------|
| COMPRESSORS                     | CURRENT SETTINGS |
| ZP385<br>30 CV                  | 65 A             |
| ZP485<br>40 CV                  | 80 A             |

| BRANCHEMENT PROTECTION INTERNES COMPRESSEURS<br>COMPRESSORS INTERNAL PROTECTIONS CONNEXIONS |                |                |                |                |                     |
|---|----------------|----------------|----------------|----------------|---------------------|
| LG  | EC1            | EC2            | EC3            | EC4            | KRIWAN<br>INT69 SC2 |
| 1400V   | ZP485<br>40 CV | ZP385<br>30 CV | ZP485<br>40 CV | ZP385<br>30 CV |                     |
| TYPE SOFT START   | MCD 203-037    | MCD 203-030    | MCD 203-037    | MCD 203-030    |                     |
| 1600V   | ZP485<br>40 CV | ZP485<br>40 CV | ZP485<br>40 CV | ZP485<br>40 CV |                     |
| TYPE SOFT START   | MCD 203-037    | MCD 203-037    | MCD 203-037    | MCD 203-037    |                     |

|                    |            |              |            |              |
|--------------------|------------|--------------|------------|--------------|
| DESSINE :          | JGz        |              |            |              |
| VERIFIE :          |            |              |            |              |
| DATE DE CREATION : | 28/09/2022 | 05           | 11/01/2024 | PCA-2023-047 |
| INDICE             | DATE       | MODIFICATION | DES.       |              |

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PUISSANCE COMPRESSEUR / POWER COMPRESSOR  
KOMPRESSORLEISTUNG / ENERGÍA COMPRESOR



|                    |            |        |            |              |
|--------------------|------------|--------|------------|--------------|
| DESSINE :          | JGz        |        |            |              |
| VERIFIE :          |            | 05     | 11/01/2024 | PCA-2023-047 |
|                    |            | 04     | 28/09/2022 | Update       |
| DATE DE CREATION : | 28/09/2022 | INDICE | DATE       | MODIFICATION |
|                    |            |        |            | DES.         |

Document n° : **00DCG000385000E**

IMPLANTATION / LAYOUT  
 ANORDNUNG / IMPLANTACIÓN