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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------|---|--|---------------------|--|---|--|----------------------------------------|--|---|----|---------------------------------------------------------------------------------------|----|----------|--|----------------------------------------------------------|--|----------------------|-----------------------|--|--|--|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                                                            |                                                          | 3 |  | 4                   |  | 5 |  | 6                                      |  | 7 |    | 8                                                                                     |    | 9        |  | 10                                                       |  |                      |                       |  |  |  |
| The technical information contained in this document is the exclusive property of Schneider Electric Industries S.A.S and cannot be used or disclosed to third parties of any kind without its written consent. Only those drawings and diagrams permitted after order booking are binding for execution. All devices shown in this diagrams are in their position, drawn out with operating mechanism disengaged and all power sources off. | Folio<br>Sheet                                                                                                                                                                                                                                                                                                                                                                                                                                   | Designation<br>Designation                                                   |                                                          |   |  |                     |  |   |  |                                        |  |   |    | Indice de modification<br>Revision                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 001                                                                                                                                                                                                                                                                                                                                                                                                                                              | Page de garde cover sheet                                                    |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    | 01 |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 002                                                                                                                                                                                                                                                                                                                                                                                                                                              | PAGE RECAPITULATIVE                                                          |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    | 01 |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 003                                                                                                                                                                                                                                                                                                                                                                                                                                              | PAGE RECAPITULATIVE                                                          |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    | 01 |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 010                                                                                                                                                                                                                                                                                                                                                                                                                                              | LEGENDE SYMBOLES N°1 - LEGEND OF SYMBOLS N°1                                 |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 011                                                                                                                                                                                                                                                                                                                                                                                                                                              | LEGENDE SYMBOLES N°2 - LEGEND OF SYMBOLS N°2                                 |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 012                                                                                                                                                                                                                                                                                                                                                                                                                                              | PRINCIPE DE REPERAGE - PRINCIPE OF MARKING                                   |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 013                                                                                                                                                                                                                                                                                                                                                                                                                                              | REPERE ESSENTIEL - TABLE 1 - HIGHER-LEVEL DESIGNATION                        |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 014                                                                                                                                                                                                                                                                                                                                                                                                                                              | REPERE EMPLACEMENT PHYSIQUE - TABLE 2 - LOCATION OF ITEM                     |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 015                                                                                                                                                                                                                                                                                                                                                                                                                                              | REPERAGE MATERIEL - TABLE 3 - IDENTIFICATION ITEM                            |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 019                                                                                                                                                                                                                                                                                                                                                                                                                                              | Marquage NAME PLATE                                                          |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 020                                                                                                                                                                                                                                                                                                                                                                                                                                              | Unifilaire général de la liasse SINGLE LINE DIAGRAM                          |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 021                                                                                                                                                                                                                                                                                                                                                                                                                                              | Unifilaire général de la liasse SINGLE LINE DIAGRAM                          |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 022                                                                                                                                                                                                                                                                                                                                                                                                                                              | Unifilaire général de la liasse SINGLE LINE DIAGRAM                          |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 028                                                                                                                                                                                                                                                                                                                                                                                                                                              | Distribution des polarités POWER SUPPLY                                      |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 029                                                                                                                                                                                                                                                                                                                                                                                                                                              | Distribution des polarités POWER SUPPLY                                      |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 030                                                                                                                                                                                                                                                                                                                                                                                                                                              | Distribution des polarités POWER SUPPLY                                      |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 031                                                                                                                                                                                                                                                                                                                                                                                                                                              | Distribution des polarités 24V CC POWER SUPPLY 24V DC                        |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    | 01 |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 032                                                                                                                                                                                                                                                                                                                                                                                                                                              | Distribution des polarités 24V CC POWER SUPPLY 24V DC                        |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 033                                                                                                                                                                                                                                                                                                                                                                                                                                              | Distribution des polarités 24V CC POWER SUPPLY 24V DC                        |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 034                                                                                                                                                                                                                                                                                                                                                                                                                                              | Distribution des polarités 24V CC POWER SUPPLY 24V DC                        |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 036                                                                                                                                                                                                                                                                                                                                                                                                                                              | Relayage RELAYS                                                              |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 038                                                                                                                                                                                                                                                                                                                                                                                                                                              | Commande COMMAND                                                             |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | Les informations techniques contenues dans ce document sont la propriété exclusive de Schneider Electric Industries S.A.S et ne peuvent être utilisées ou divulguées à des tiers qu'ils le soient sans son accord écrit. Seuls nous engageons pour l'exécution les plans et schémas remis après enregistrement de la commande. Les appareils représentés sur ce schéma sont en position ouvert - désarmés - débranchés - toutes sources coupées. | 040                                                                          | Extenseur Modbus RS485 24V CC RS485 LINK EXTENDER 24V DC |   |  |                     |  |   |  |                                        |  |   |    |                                                                                       | 00 |          |  |                                                          |  |                      |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 041                                                                          | Extenseur Modbus RS485 24V CC RS485 LINK EXTENDER 24V DC |   |  |                     |  |   |  |                                        |  |   |    |                                                                                       | 00 |          |  |                                                          |  |                      |                       |  |  |  |
| 042                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Extenseur Modbus RS485 24V CC RS485 LINK EXTENDER 24V DC                     |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
| 043                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Extenseur Modbus RS485 24V CC RS485 LINK EXTENDER 24V DC                     |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
| 045                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Switch ethernet ETHERNET SWITCH                                              |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
| 050                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PC de télégestion PDL-PTR UNO-1170E PDL-PTR EMBEDDED AUTOMATION COMPUTER     |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
| 051                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PC de télégestion PTR suite UNO-1170E PTR SUITE EMBEDDED AUTOMATION COMPUTER |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
| 052                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | API NAPAC PLC NAPAC                                                          |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
| 054                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CARTE 16 ENTREES TOR ENTREES 1 à 8 DIGITAL INPUTS BOARD                      |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
| 055                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CARTE 16 ENTREES TOR ENTREES 9 à 16 DIGITAL INPUTS BOARD                     |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
| 056                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CARTE 16 ENTREES TOR ENTREES 9 A 16 DIGITAL INPUTS BOARD INPUTS 9 TO 16      |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
| 057                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CARTE 16 ENTREES TOR ENTREES 1 à 8 DIGITAL INPUTS BOARD                      |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
| 058                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CARTE 16 ENTREES TOR ENTREES 9 à 16 DIGITAL INPUTS BOARD                     |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
| 059                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CARTE 4 ENTREES ANALOGIQUES UNIVERSELLES ANALOG INPUTS BOARD                 |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
| 060                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RESERVES SUR BORNES SPARES                                                   |                                                          |   |  |                     |  |   |  |                                        |  |   |    | 00                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
| 061                                                                                                                                                                                                                                                                                                                                                                                                                                          | CARTE 4 SORTIES TOR RELAIS ELECTROMECHANIQUES DIGITAL OUTPUTS BOARD                                                                                                                                                                                                                                                                                                                                                                              |                                                                              |                                                          |   |  |                     |  |   |  |                                        |  |   | 00 |                                                                                       |    |          |  |                                                          |  |                      |                       |  |  |  |
| 062                                                                                                                                                                                                                                                                                                                                                                                                                                          | CARTE 4 SORTIES TOR RELAIS ELECTROMECHANIQUES DIGITAL OUTPUTS BOARD                                                                                                                                                                                                                                                                                                                                                                              |                                                                              |                                                          |   |  |                     |  |   |  |                                        |  |   | 00 | 01                                                                                    |    |          |  |                                                          |  |                      |                       |  |  |  |
| 063                                                                                                                                                                                                                                                                                                                                                                                                                                          | CARTE 16 ENTREES TOR ENTREES 1 à 8 DIGITAL INPUTS BOARD                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |                                                          |   |  |                     |  |   |  |                                        |  |   | 00 |                                                                                       |    |          |  |                                                          |  |                      |                       |  |  |  |
| 064                                                                                                                                                                                                                                                                                                                                                                                                                                          | CARTE 16 ENTREES TOR ENTREES 9 à 16 DIGITAL INPUTS BOARD                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |                                                          |   |  |                     |  |   |  |                                        |  |   | 00 |                                                                                       |    |          |  |                                                          |  |                      |                       |  |  |  |
| 065                                                                                                                                                                                                                                                                                                                                                                                                                                          | CARTE 16 ENTREES TOR ENTREES 1 à 8 DIGITAL INPUTS BOARD                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |                                                          |   |  |                     |  |   |  |                                        |  |   | 00 |                                                                                       |    |          |  |                                                          |  |                      |                       |  |  |  |
| Archivage<br>Microfilmed                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                              |                                                          |   |  | PAGE RECAPITULATIVE |  |   |  | MONITORING<br>PHOTOVOLTAIQUE<br>HYERES |  |   |    |  |    | 02983664 |  | Projet - No commande<br>Project - Order No.<br>FPVTB0272 |  | Indice<br>Rev<br>01  | Folio<br>Sheet<br>002 |  |  |  |
| PAGE 12 DE 12                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                              |                                                          |   |  |                     |  |   |  |                                        |  |   |    |                                                                                       |    |          |  |                                                          |  | A3 recap 1 - 11/2006 |                       |  |  |  |



|                   |  |      |                                                                                                                                            |   |  |                   |  |      |                                                                                         |   |  |                                        |  |                       |                                                                        |          |  |                                                          |  |                     |  |                       |  |
|-------------------|--|------|--------------------------------------------------------------------------------------------------------------------------------------------|---|--|-------------------|--|------|-----------------------------------------------------------------------------------------|---|--|----------------------------------------|--|-----------------------|------------------------------------------------------------------------|----------|--|----------------------------------------------------------|--|---------------------|--|-----------------------|--|
| 1                 |  | 2    |                                                                                                                                            | 3 |  | 4                 |  | 5    |                                                                                         | 6 |  | 7                                      |  | 8                     |                                                                        | 9        |  | 10                                                       |  |                     |  |                       |  |
| SYMBOLE<br>SYMBOL |  | CODE | LEGENDE<br>DESCRIPTION                                                                                                                     |   |  | SYMBOLE<br>SYMBOL |  | CODE | LEGENDE<br>DESCRIPTION                                                                  |   |  | SYMBOLE<br>SYMBOL                      |  | CODE                  | LEGENDE<br>DESCRIPTION                                                 |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | CONTACT A FERMETURE<br>MAKE CONTACT                                                                                                        |   |  |                   |  |      | DISPOSITIF D'ACCROCHAGE EN PRISE<br>DEVICE FOR RESTRICTING MOVEMENT BLOCKED POSITION    |   |  |                                        |  | G                     | ELEMENT DE PILE OU ACCUMULATEUR<br>PRIMARU CELL OR ACCUMULATOR         |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | CONTACT A OUVERTURE<br>BREAK CONTACT                                                                                                       |   |  |                   |  |      | DISPOSITIF D'ACCROCHAGE LIBERE<br>DEVICE FOR RESTRICTING MOVEMENT UNBLOCKED POSITION    |   |  |                                        |  |                       |                                                                        |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | CONTACT INVERSEUR<br>CHANGE OVER CONTACT                                                                                                   |   |  |                   |  |      | TERRE DE PROTECTION<br>EARTH PROTECTION                                                 |   |  |                                        |  | H                     | LAMPE DE SIGNALISATION<br>SIGNAL LAMP                                  |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | CONTACT NO TEMPORISE AU TRAVAIL<br>MAKE CONTACT DELAY WHEN OPERATING                                                                       |   |  |                   |  |      | TERRE FONCTIONNELLE<br>FUNCTIONNAL EARTH                                                |   |  |                                        |  | H                     | VOYANT MECANIQUE DE SIGNALISATION<br>MECHANICAL INDICATOR              |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | CONTACT NF TEMPORISE AU TRAVAIL<br>BREAK CONTACT DELAY WHEN OPERATING                                                                      |   |  |                   |  |      | TERRE<br>EARTH                                                                          |   |  |                                        |  | H                     | AVERTISSEUR<br>HORN                                                    |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | CONTACT NO TEMPORISE AU REPOS<br>MAKE CONTACT DELAY WHEN RELEASING                                                                         |   |  |                   |  | B    | COMMANDE PAR PRESSION<br>OPERATED BY PRESSURE                                           |   |  |                                        |  | H                     | SONNERIE<br>HORN                                                       |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | CONTACT NF TEMPORISE AU REPOS<br>MAKE CONTACT DELAY WHEN RELEASING                                                                         |   |  |                   |  | B    | COMMANDE PAR TEMPERATURE<br>OPERATED BY TEMPERATURE                                     |   |  |                                        |  |                       |                                                                        |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | CONTACT DE PASSAGE A LA FERMETURE<br>PASSING MAKE CONTACT CLOSING NOMENTARILY DURING OPERATION                                             |   |  |                   |  | B    | COMMANDE PAR NIVEAU<br>OPERATED BY LEVEL                                                |   |  |                                        |  | KA                    | RELAIS - ORGANE DE COMMANDE<br>RELAY - COIL                            |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | CONTACT DE PASSAGE A L'OUVERTURE<br>PASSING BREAK CONTACT CLOSING NOMENTARILY DURING OPERATION                                             |   |  |                   |  |      |                                                                                         |   |  |                                        |  | KA                    | RELAIS A MISE AU REPOS RETARDEE<br>SLOW RELEASING RELAY COIL           |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | CONTACT A FERMETURE ANTERIEURE AUX AUTRES CONTACTS DE L'ENSEMBLE<br>MAKE CONTACT WICH OPERATES EARLIER RELATIVE TO THE ASSEMBLY OF CONTACT |   |  |                   |  | C    | CAPACITE - CONDENSATEUR<br>CAPACITANCE - CAPACITOR                                      |   |  |                                        |  | KA                    | RELAIS A MISE AU TRAVAIL RETARDEE<br>SLOW OPERATING RELAY COIL         |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | CONTACT A FERMETURE POSTERIEURE AUX AUTRES CONTACTS DE L'ENSEMBLE<br>MAKE CONTACT WICH OPERATES LATER RELATIVE TO THE ASSEMBLY OF CONTACT  |   |  |                   |  | E    | RESISTANCE DE CHAUFFAGE<br>HEATING RESISTOR                                             |   |  |                                        |  | KM                    | CONTACTEUR<br>CONTACTOR                                                |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | CONTACT A OUVERTURE POSTERIEURE AUX AUTRES CONTACTS DE L'ENSEMBLE<br>BREAK CONTACT WICH OPERATES LATER RELATIVE TO THE ASSEMBLY OF CONTACT |   |  |                   |  |      |                                                                                         |   |  |                                        |  |                       |                                                                        |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | CONTACT A OUVERTURE ANTERIEURE AUX AUTRES CONTACTS DE L'ENSEMBLE<br>MAKE CONTACT WICH OPERATES EARLIER RELATIVE TO THE ASSEMBLY OF CONTACT |   |  |                   |  | F    | PARAFOUDRE<br>LIGHTNING ARRESTER                                                        |   |  |                                        |  | P                     | INDICATEUR - SYMBOLE GENERAL<br>INDICATING INSTRUMENT - GENERAL SYMBOL |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | DISPOSITIF D'EMBROCHAGE<br>WITHDRAWABLE DEVICE                                                                                             |   |  |                   |  | F    | COUPE CIRCUIT<br>FUSE                                                                   |   |  |                                        |  | P                     | ENREGISTREUR- SYMBOLE GENERAL<br>RECORDING INSTRUMENT - GENERAL SYMBOL |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | VERROUILLAGE MECANIQUE<br>MECHANICAL INTERLOCK                                                                                             |   |  |                   |  | F    | DETECTION DE SURINTENSITE - EFFET THERMIQUE<br>OVERCURRENT DETECTION - THERMAL EFFECT   |   |  |                                        |  | P                     | COMPTEUR- SYMBOLE GENERAL<br>INTEGRATING METER - GENERAL SYMBOL        |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      | ENROULEMENT<br>WINDING                                                                                                                     |   |  |                   |  | F    | DETECTION DE SURINTENSITE - EFFET MAGNETIQUE<br>OVERCURRENT DETECTION - MAGNETIC EFFECT |   |  |                                        |  |                       |                                                                        |          |  |                                                          |  |                     |  |                       |  |
|                   |  |      |                                                                                                                                            |   |  |                   |  |      | LEGENDE SYMBOLES<br>N°1<br>-<br>LEGEND OF SYMBOLS<br>N°1                                |   |  | MONITORING<br>PHOTOVOLTAIQUE<br>HYERES |  | Schneider<br>Electric |                                                                        | 02983664 |  | Projet - No commande<br>Project - Order No.<br>FPVTB0272 |  | Indice<br>Rev<br>00 |  | Folio<br>Sheet<br>010 |  |

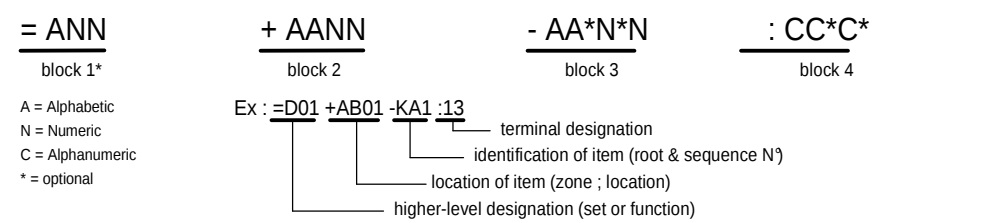
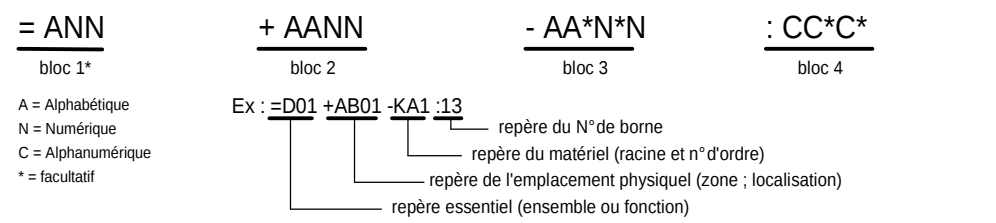


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LE REPERAGE DES APPAREILS EST CONFORME A LA NORME CEI.  
ADDITION DE 4 BLOCS DE CARACTERES

ACCORDING TO STANDARD, MARKING OF EQUIPMENTS IS MADE  
WITH 4 BLOCKS OF CHARACTERS



bloc 1 =ANN

"=" symbole distinctif

repère essentiel

Repère principal caractérisant chaque subdivision importante d'une installation ou ensemble (fonctionnel). Il est facultatif.

Le 1<sup>er</sup> caractère est choisi dans la "TABLE 1".

Cette table donne les lettres repères des niveaux de tension et des fonctions non spécifiques à une travée ou un niveau de tension.

block 1 =ANN

"=" distinctive symbol

higher level designation

Item designation for any major part of plant or function. Optional.

First character is given by "TABLE 1".

This table gives codes for voltage levels and for no attached functions to a particular bay or voltage level.

bloc 2 +AANN

"+" symbole distinctif

repère de l'emplacement physique

Repère de l'adresse physique du matériel.

Repère de l'équipement qui contient le matériel (choix des deux premiers caractères dans la "TABLE 2").

block 2 +AANN

"+" distinctive symbol

location of item

Designation for location item.

Indicates equipment which contains the item (choice of the 2 first characters "TABLE 2").

bloc 3 -AA\*N\*N

"-" symbole distinctif

repère matériel

Repère complet du nom de l'appareil. La première lettre indique la fonction générale de l'appareil. Choix "TABLE 3".

block 3 -AA\*N\*N

"-" distinctive symbol

identification of item

Complete designation of item identification. 1st character indicates general function of item. Choice "TABLE 3".

bloc 4 :CC\*C\*

":" symbole distinctif

repère du N° de borne

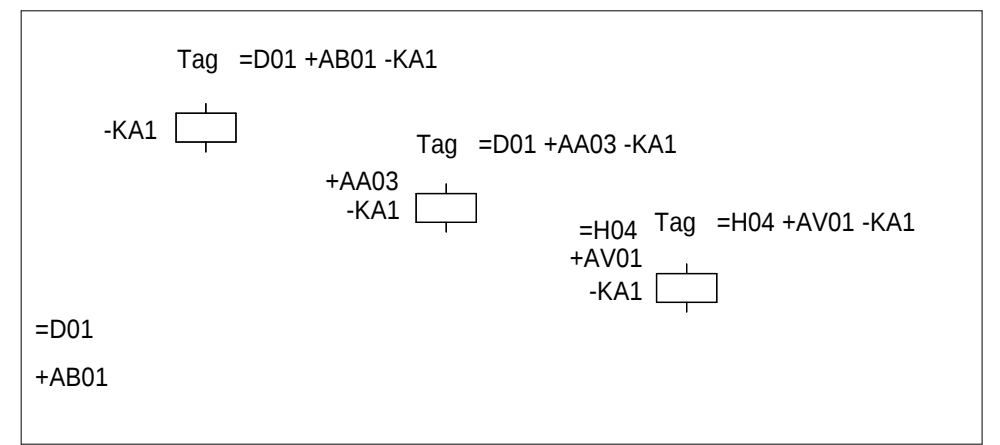
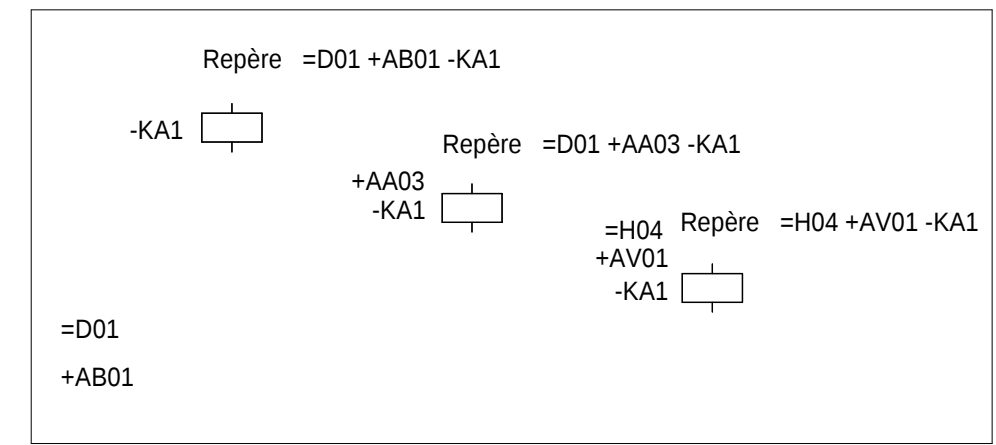
Repère composé indifféremment de lettres ou de chiffres.

block 4 :CC\*C\*

":" distinctive symbol

terminal designation

Designation composed of letters or numbers.



## B

C

D

EXAMPLES : +E04 Indicates that the localisation is fully attached to bay 110kV N° 04  
=C05 Indicates bay 400kV N° 05  
=R01 Indicates the function "FIRE PROTECTION" N° 01

A3 suite - 11/2006

B

C

D

[illegible]

E

C

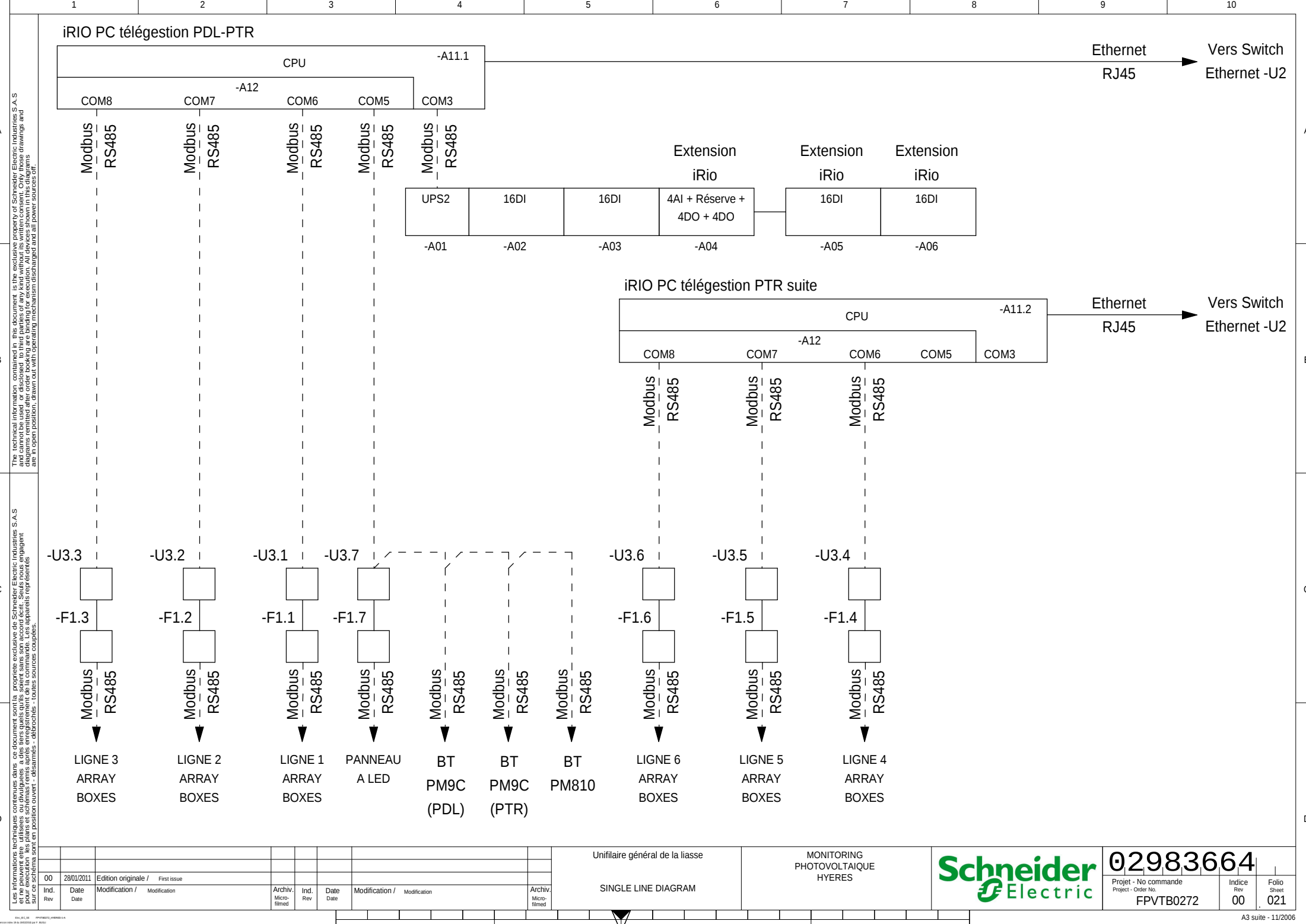
□

A3 suite - 11/2006





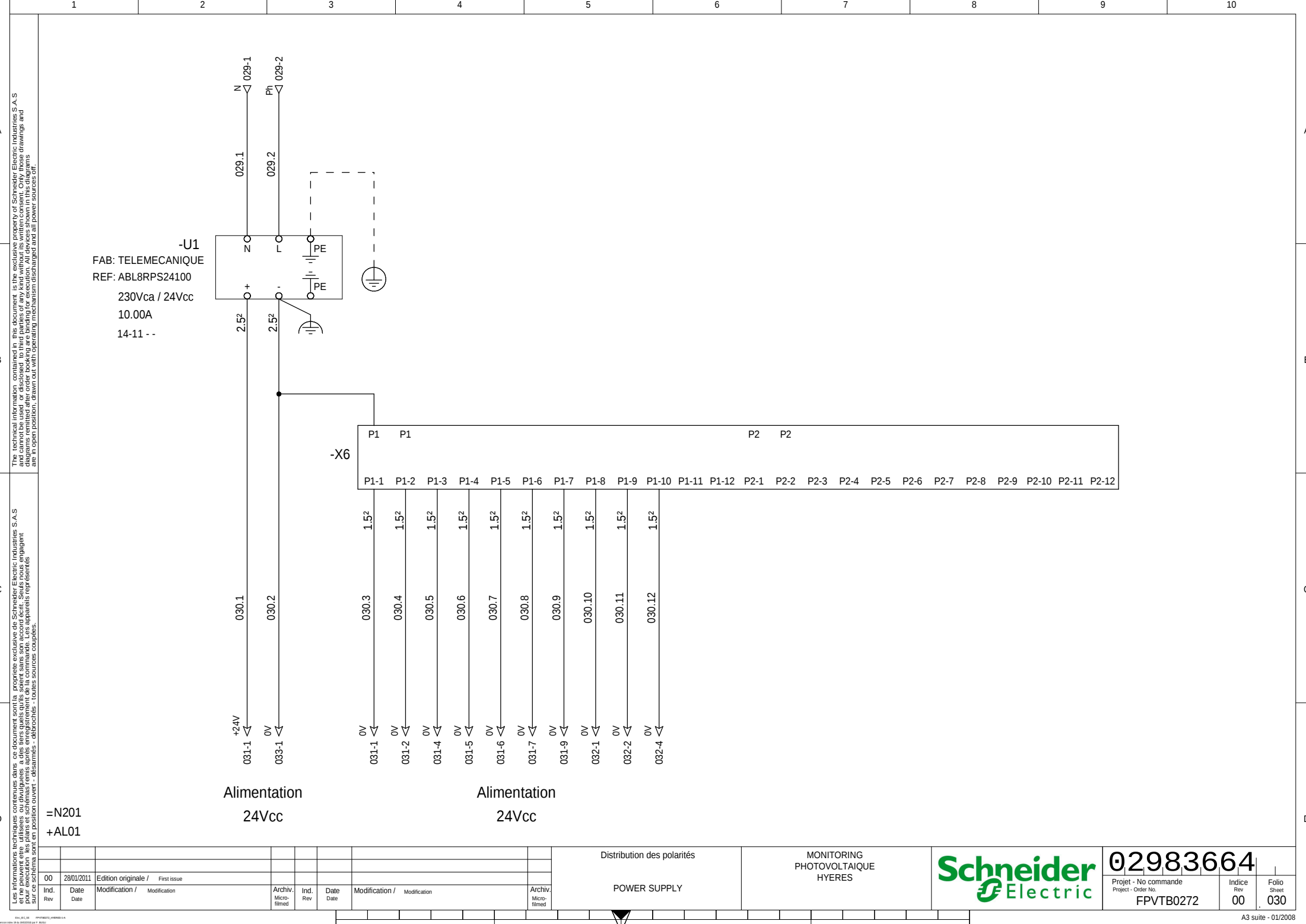


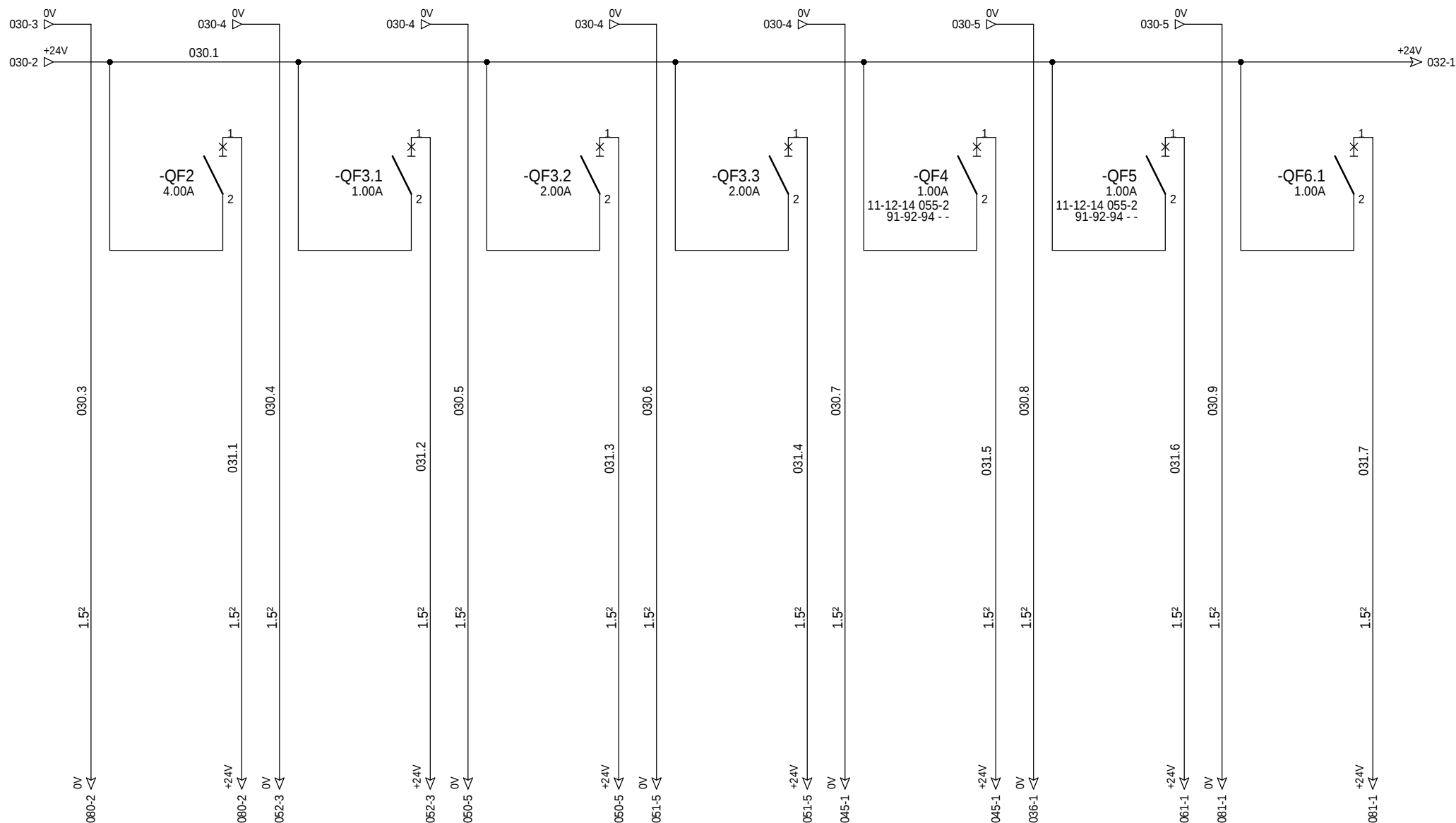












Alimentation 24Vcc  
-AP1R1 (M340)

Alimentation 24Vcc  
Extension iRIO

Alimentation 24Vcc  
iRIO PC télégestion  
PDL-PTR -A11

Alimentation 24Vcc  
iRIO PC télégestion  
PTR suite -A12

Alimentation 24Vcc  
Switch Ethernet  
-U2

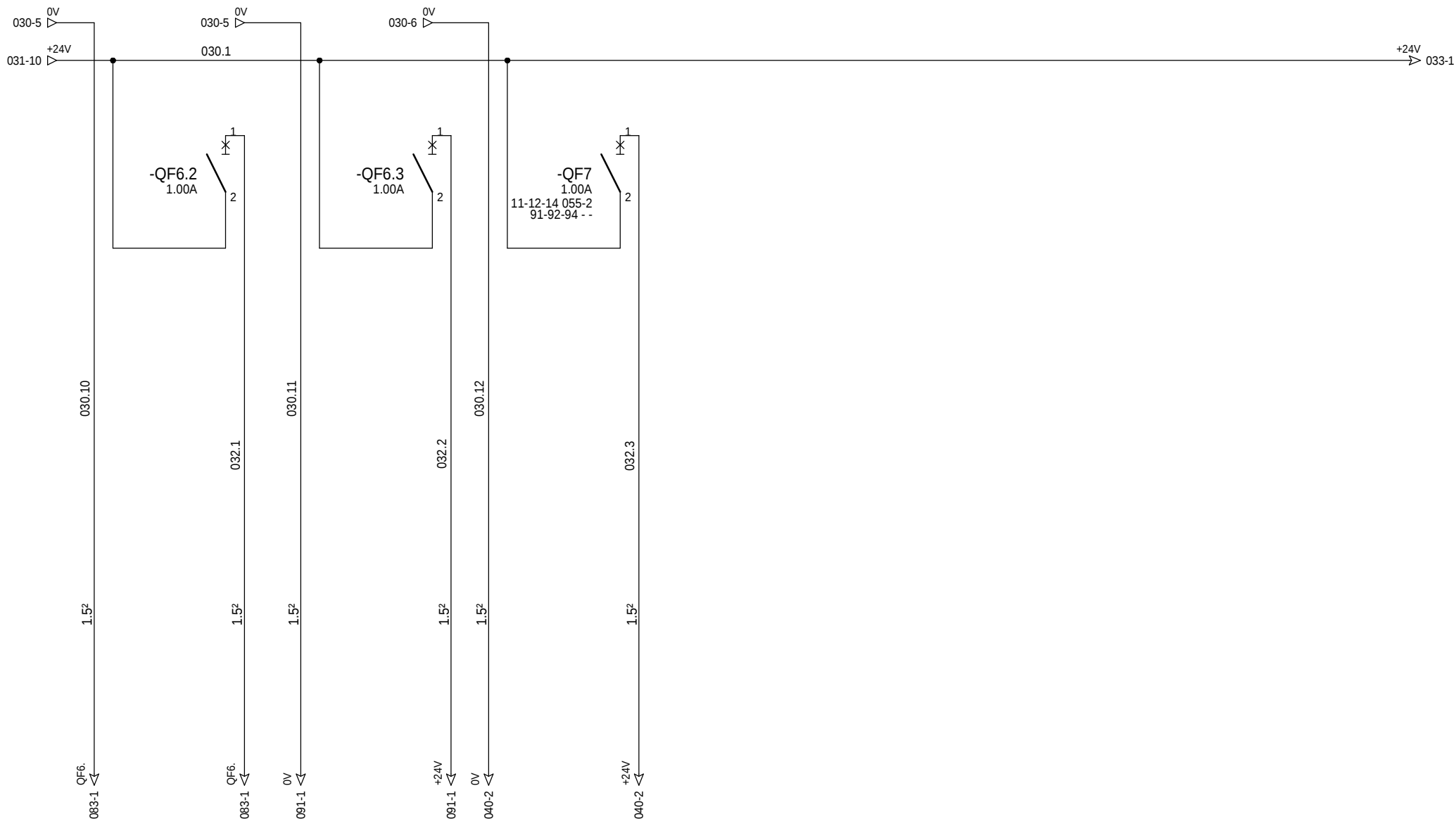
Alimentation 24Vcc  
Relayage

Alimentation 24Vcc  
Telefast AI (M340)

[illegible]

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=N201  
+AL01

Alimentation 24Vcc  
Telefast DI (M340)

Alimentation 24Vcc  
Telefast DO (M340)

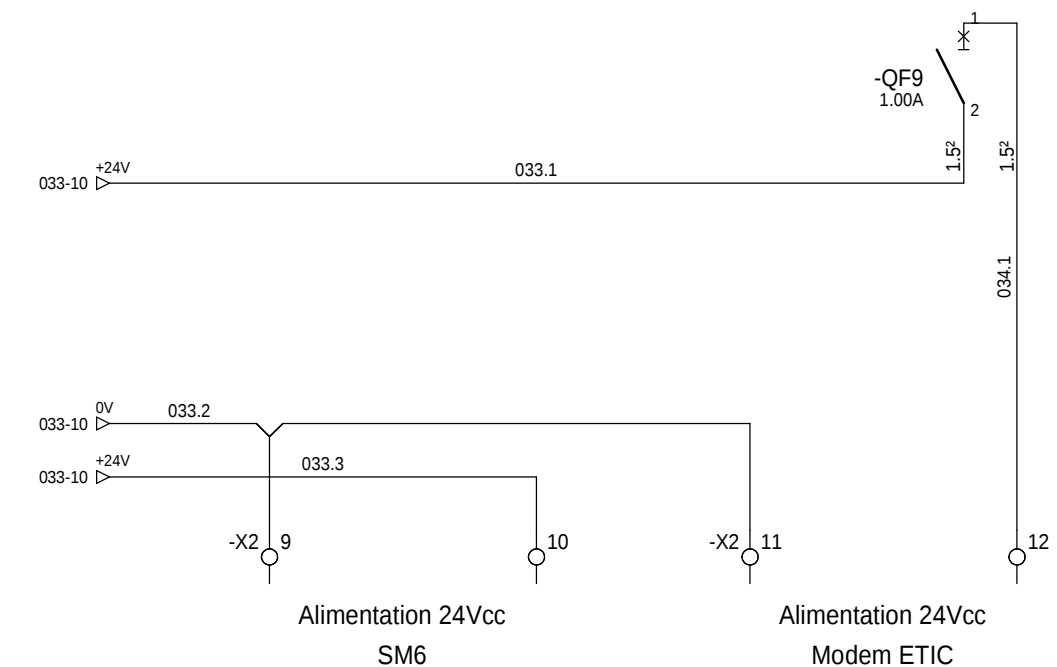
Isolateurs RS485  
-U3.1 à -U3.6 Lignes  
1 à 6 Array boxes  
-U3.7 Panneau à LED

[illegible]



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=N201  
+AL01

A

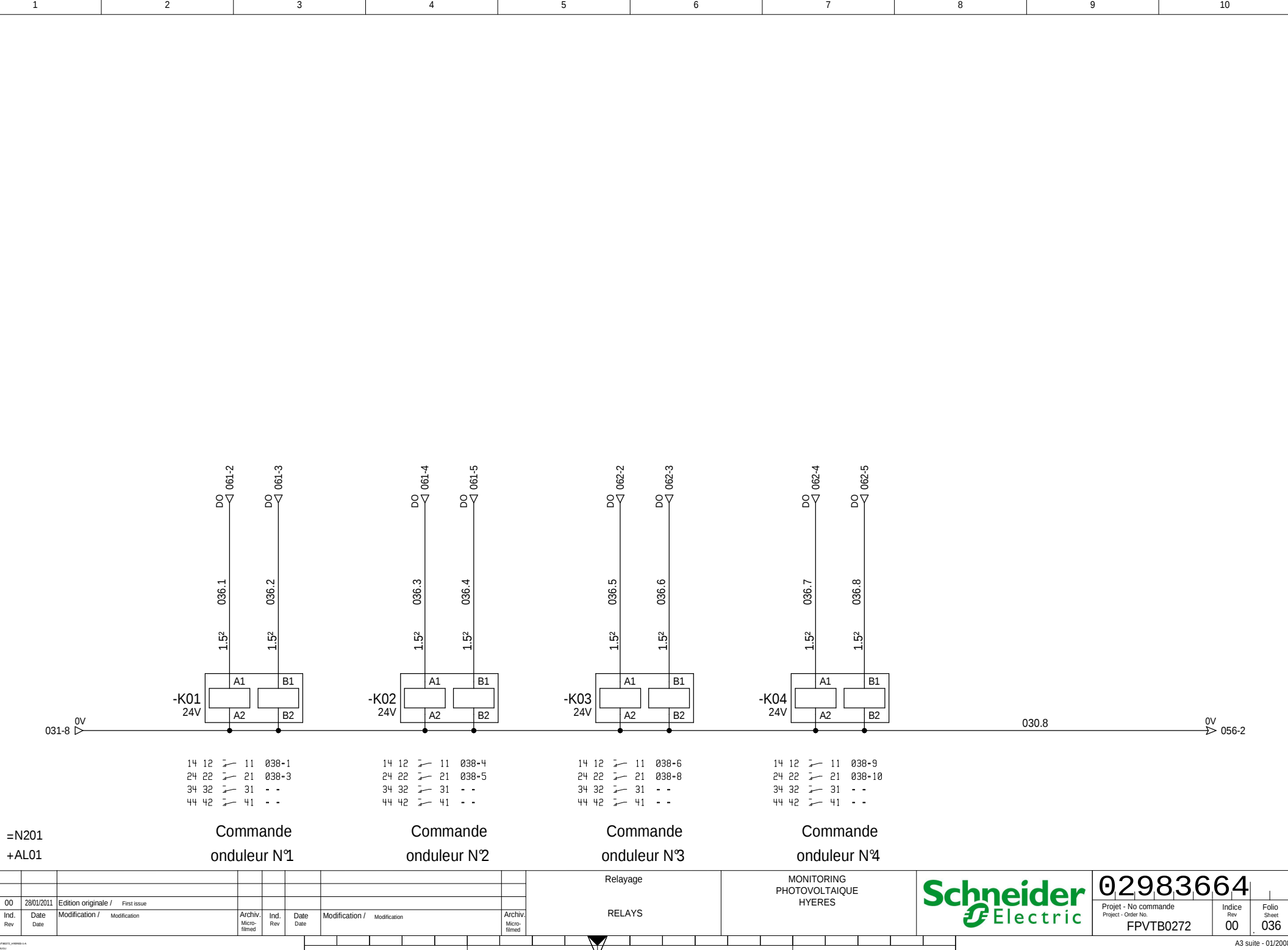
B

C

D

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A

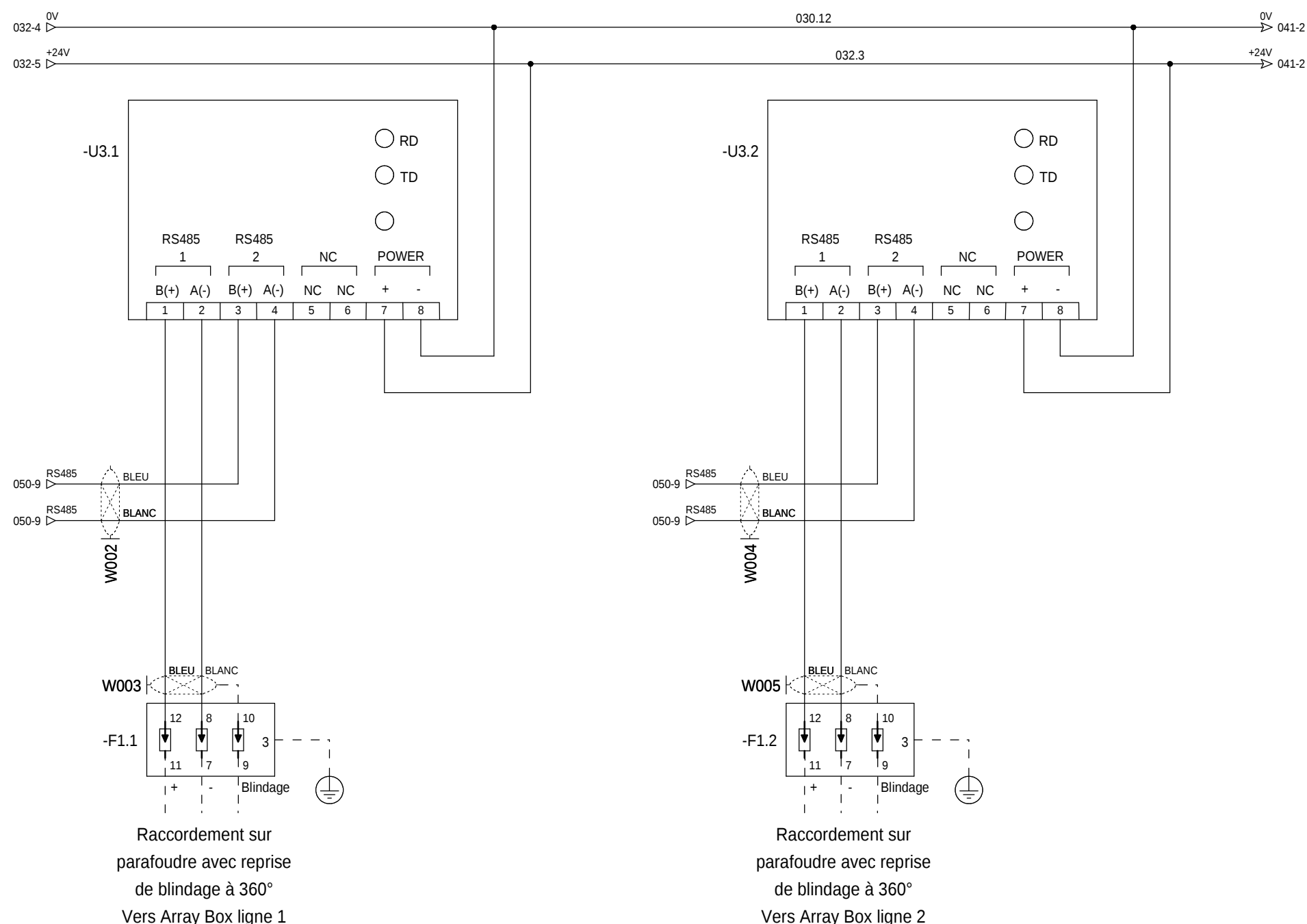
B

C

D

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A

B

C

D

=N201  
+AL01

| Ind. | Date       | Modification /      | Modification | Archiv. | Ind. | Date | Modification / | Modification | Archiv. |
|------|------------|---------------------|--------------|---------|------|------|----------------|--------------|---------|
| 00   | 28/01/2011 | Edition originale / | First issue  |         |      |      |                |              |         |
| Ind. | Date       | Modification /      | Modification | Archiv. | Ind. | Date | Modification / | Modification | Archiv. |

Extenseur Modbus RS485  
24V CC

RS485 LINK EXTENDER  
24V DC

MONITORING  
PHOTOVOLTAIQUE  
HYERES

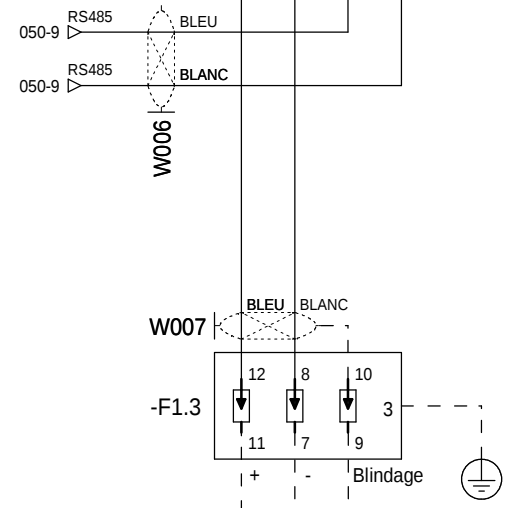
02983664

Projet - No commande  
Project - Order No.  
FPVTB0272

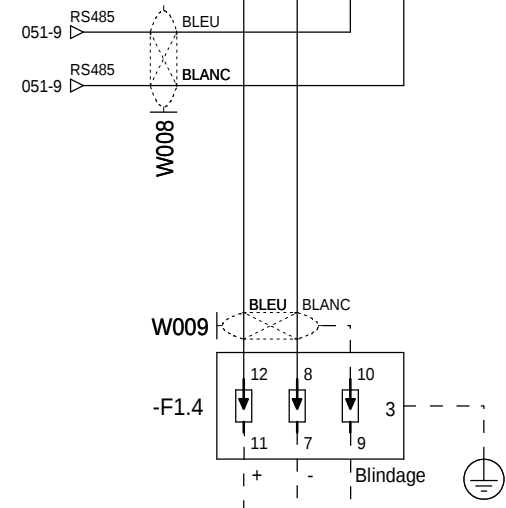
Indice  
Rev  
00

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Sheet  
040

3



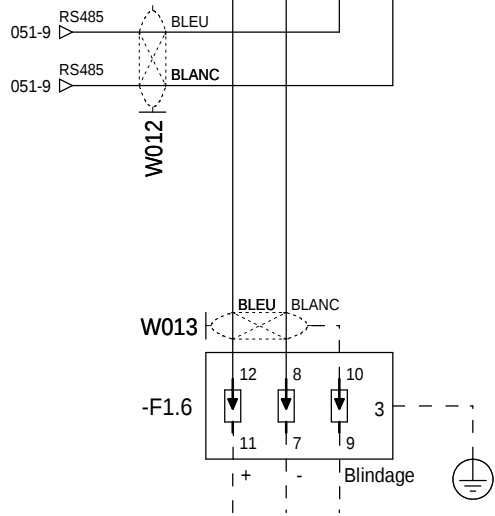
=N201  
+AL01



Raccordement sur  
parafoudre avec reprise  
de blindage à 360°  
Vers Array Box ligne 4

**Schneider**  
Electric

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Raccordement sur  
parafoudre avec reprise  
de blindage à 360°  
Vers Array Box ligne 6

**Schneider**  
Electric

The diagram shows the RS485 interface for the U3.7 module. The module is represented by a box labeled **-U3.7**. Inside the box, there are three circular indicators labeled **RD**, **TD**, and an unlabeled circle. Below these indicators, there are four groups of pins: **RS485 1**, **RS485 2**, **NC**, and **POWER**. Each group has two pins: **B(+)** and **A(-)** for RS485 1 and 2, and **NC** and **NC** for the NC group. The **POWER** group has **+** and **-** pins. The pins are numbered 1 through 8. The module is connected to a 0V line (pin 10) and a +24V line (pin 9). The module is labeled **030.12** and **032.3**.

VERS  
BT PM810  
BT PM9C (PDL)  
BT PM9C (PTR)

Reprise de blindage  
à 360° sur plaque de fond

Raccordement sur  
parafoudre avec reprise  
de blindage à 360°  
Vers Panneau à LED

=N201  
+AL01

Extenseur Modbus RS485  
24V CC

RS485 LINK EXTENDER  
24V DC

MONITORING  
PHOTOVOLTAIQUE  
HYERES

**Schneider**  
Electric

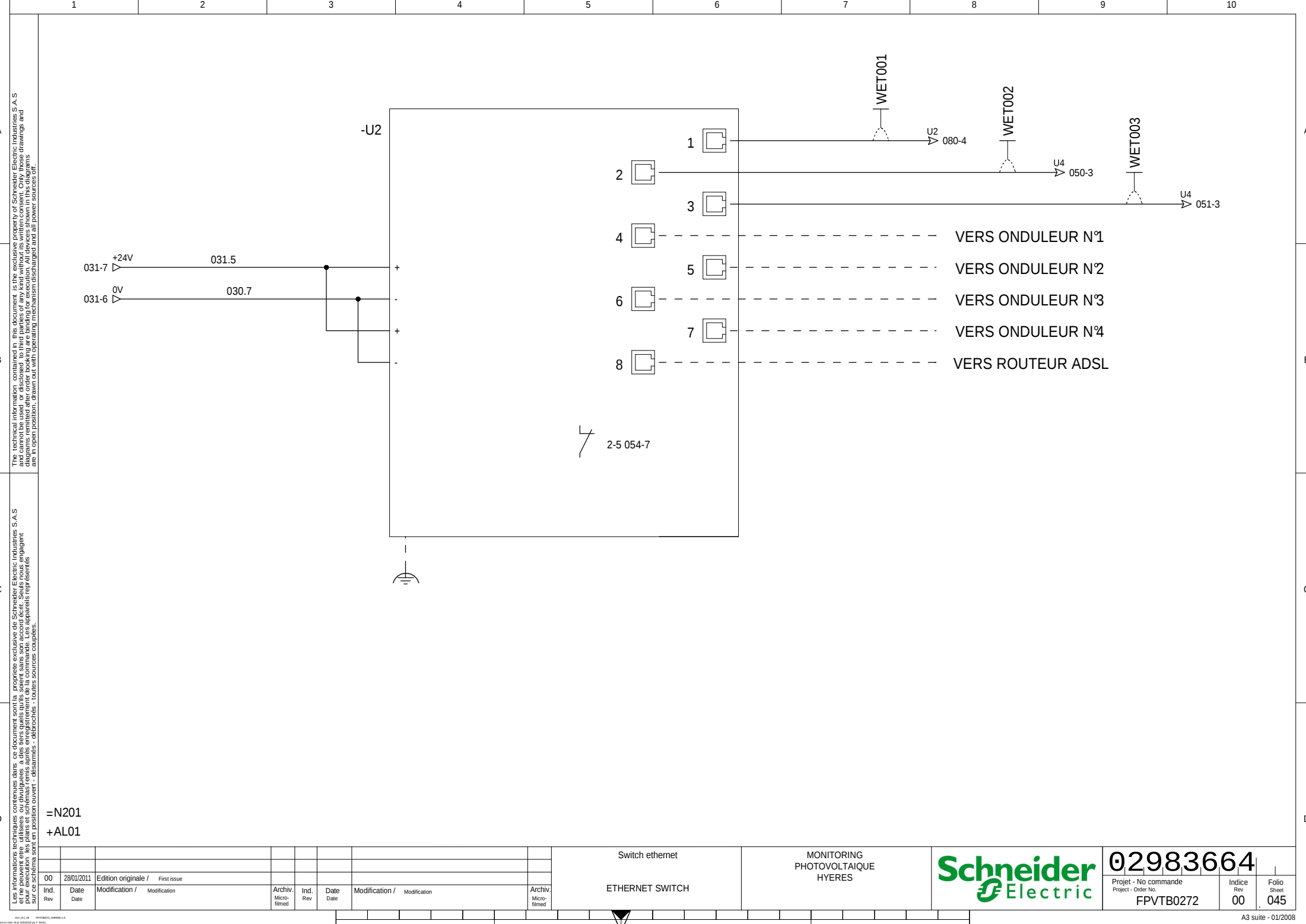
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|---|---|---|---|---|---|---|---|
| 0 | 2 | 9 | 8 | 3 | 6 | 6 | 4 |
|---|---|---|---|---|---|---|---|

Projet - No commande  
Project - Order No.  
FPVTB02

Indice  
Rev  
00

Folio  
Sheet  
043

A3 suite - 01/2008



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|                                             |               |                |
|---------------------------------------------|---------------|----------------|
| 02983664                                    |               |                |
| Projet - No commande<br>Project - Order No. | Indice<br>Rev | Folio<br>Sheet |
| FPVTB0272                                   | 00            | 050            |





B



E14C\_0C\_3E      P9PVT00272\_010R000-0-A  
 10/01/2014 10:04:28 AM F. BLOU



ARMOIRE MONITORING  
SYNTHESE ETAT DJ 24V

POSTE  
MAGASIN - BOUTON AU

RESERVE

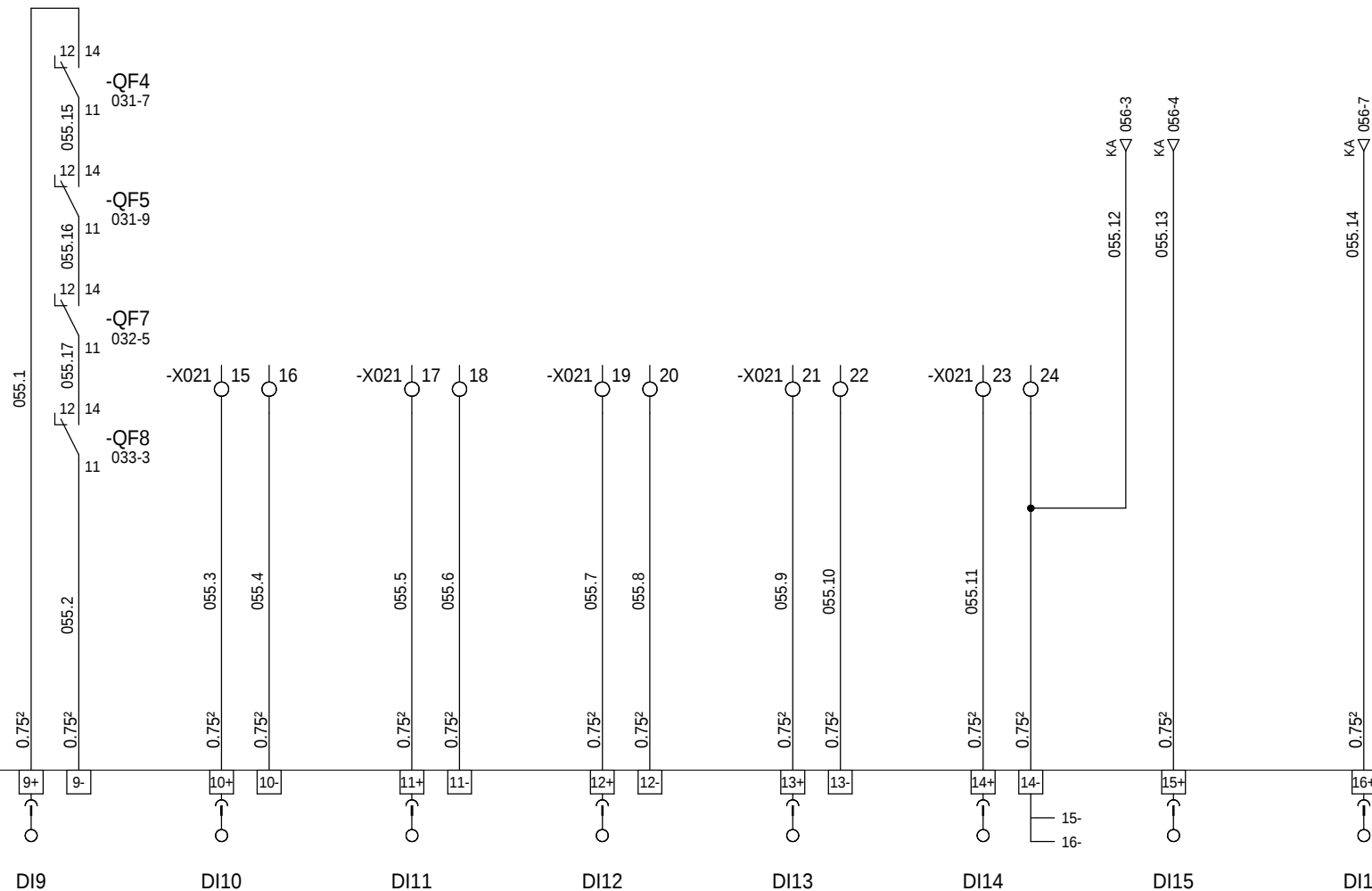
RESERVE

RESERVE

RESERVE

COMPTAGE  
VENTE PAR EDF

COMPTAGE  
ACHAT PAR EDF



-A021        =S= TELECONTROL        0RIO2 16DI

MODULE : 2

=N201

+AL01

[illegible]

CARTE 16 ENTREES TOR  
ENTREES 9 à 16

## DIGITAL INPUTS BOARD

MONITORING  
PHOTOVOLTAIQUE  
HYERES

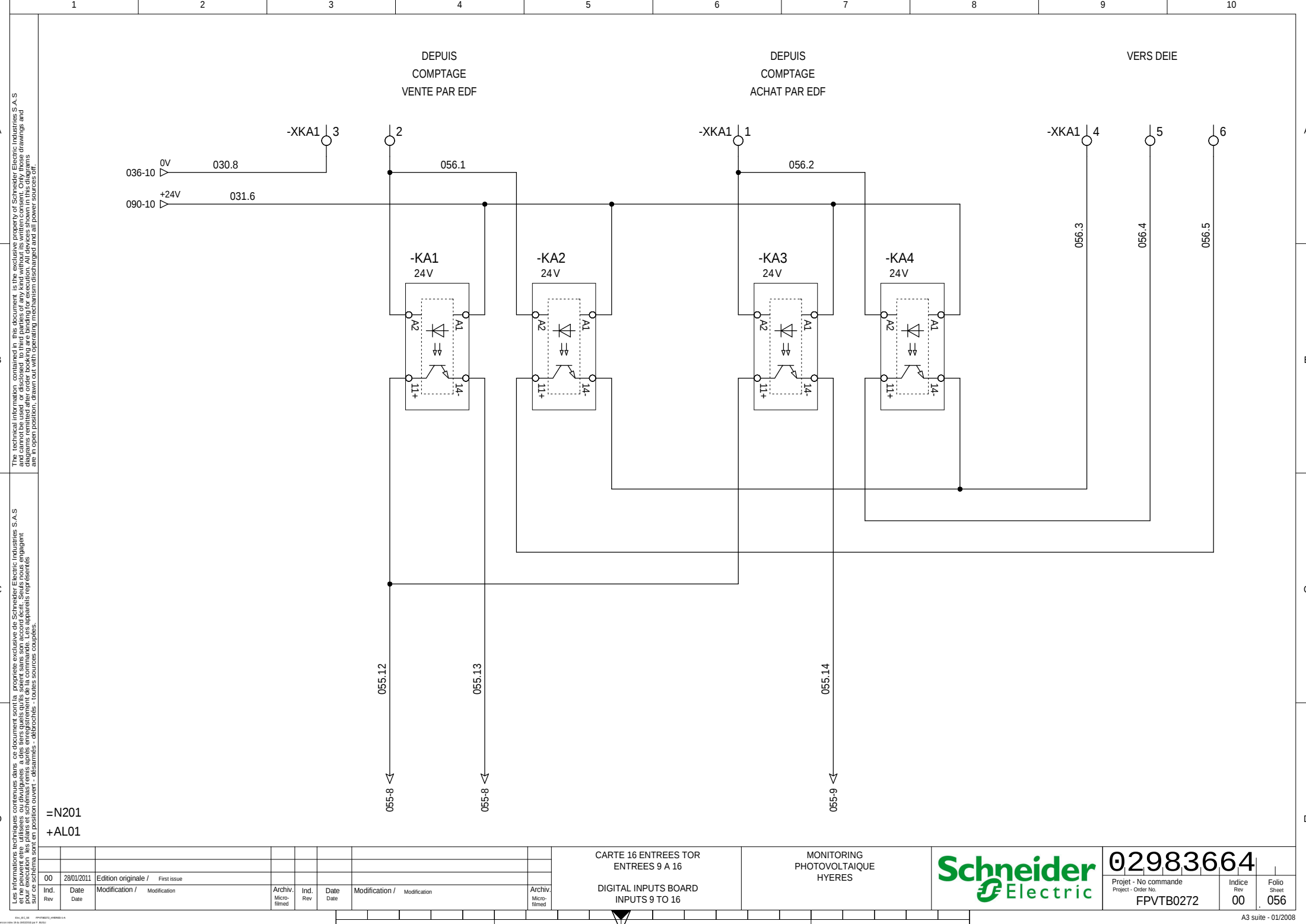


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| Projet - No commande |  |
| Project - Order No.  |  |
| FPVTB027             |  |

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| Indice<br>Rev<br>00 |
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Folio  
Sheet  
055



A

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B

C

D

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A

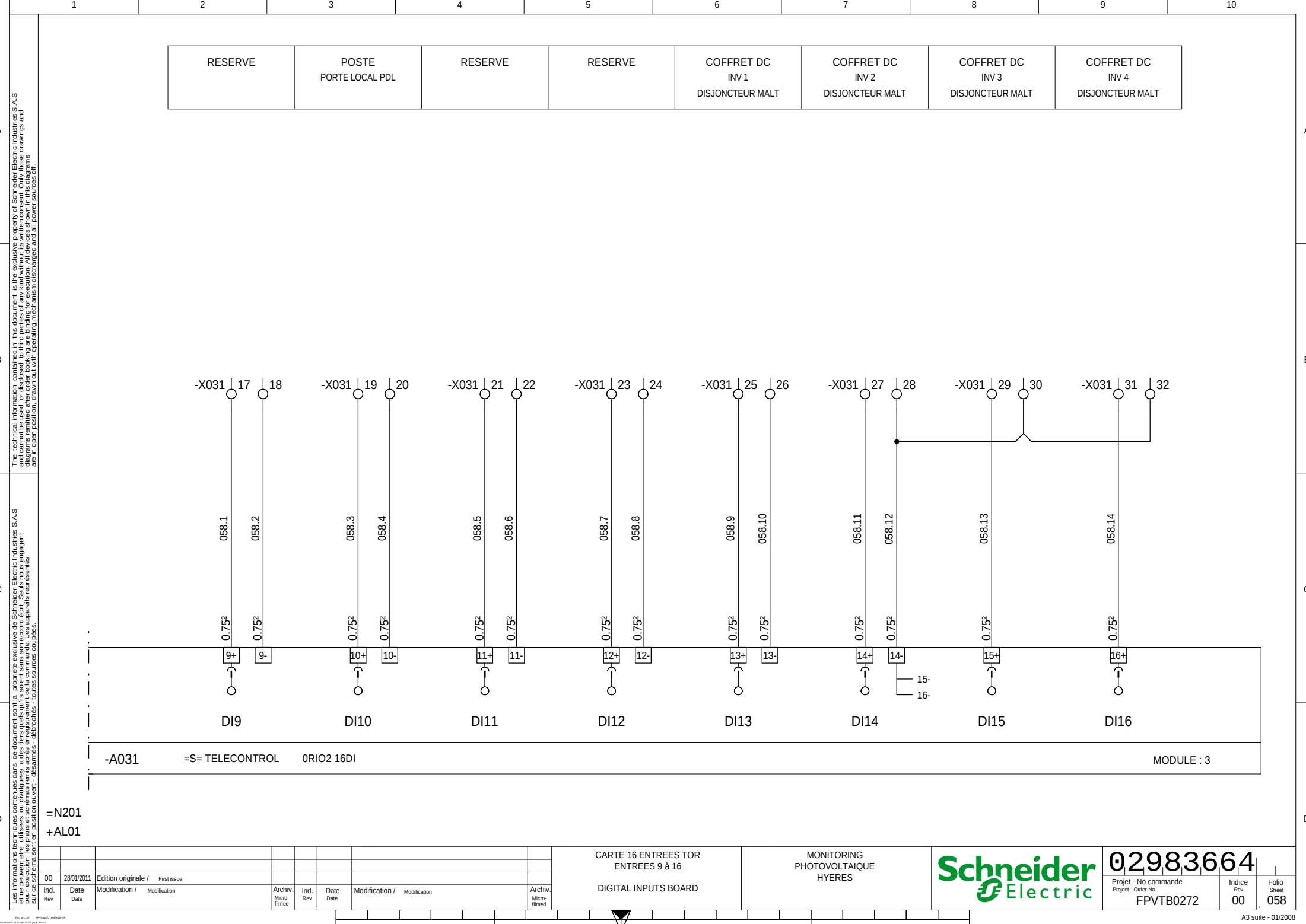
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B

C

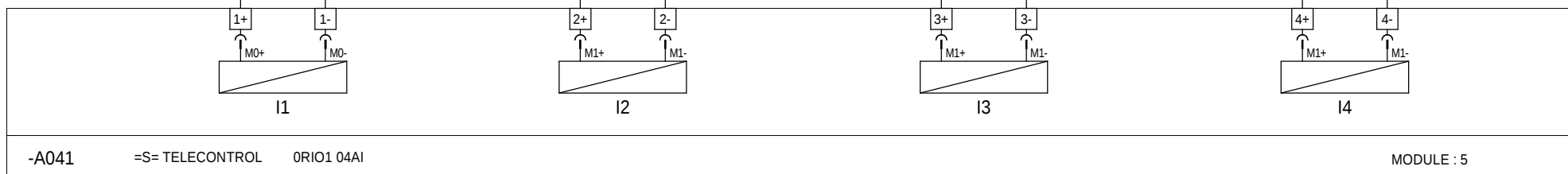
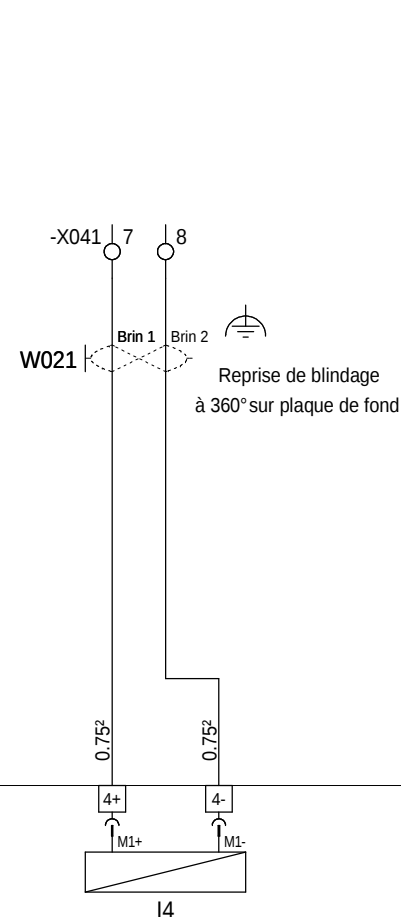
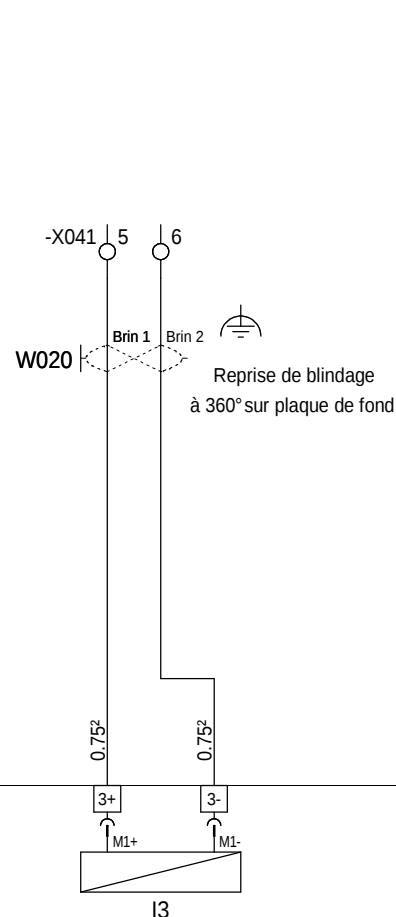
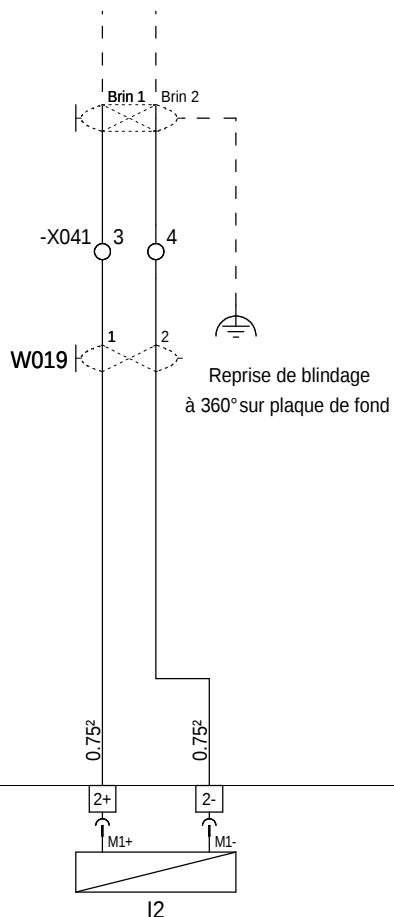
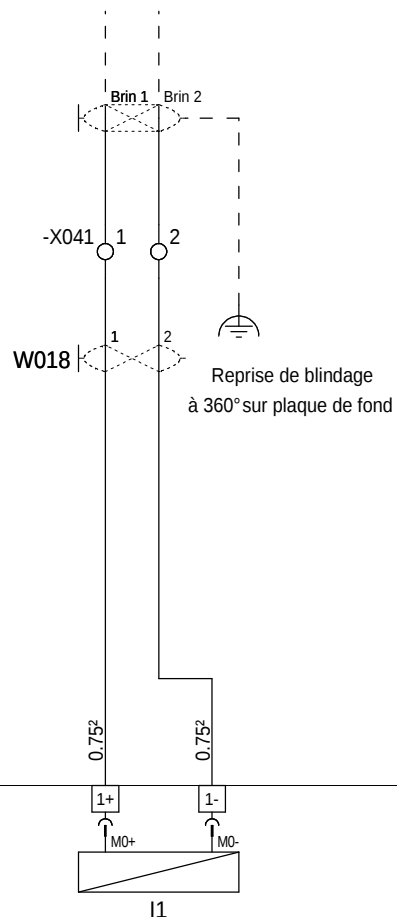
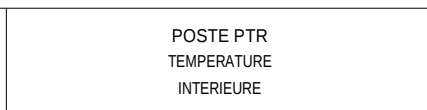
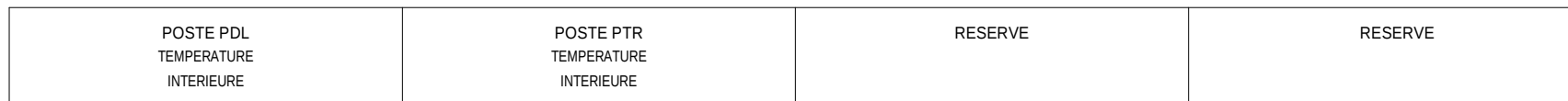
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D



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-A041

=S= TELECONTROL      0RIO1 04AI

MODULE : 5

=N201

+AL01

[illegible]

### CARTE 4 ENTREES ANALOGIQUES UNIVERSELLES

## ANALOG INPUTS BOARD

MONITORING  
PHOTOVOLTAIQUE  
HYERES



02983664

|                     |  |
|---------------------|--|
| Proj - No commande  |  |
| Project - Order No. |  |
| FPVTB02             |  |

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|--------|-----|----|
| Indice | Rev | 00 |
|--------|-----|----|

Folio  
Sheet  
059



A

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B

C

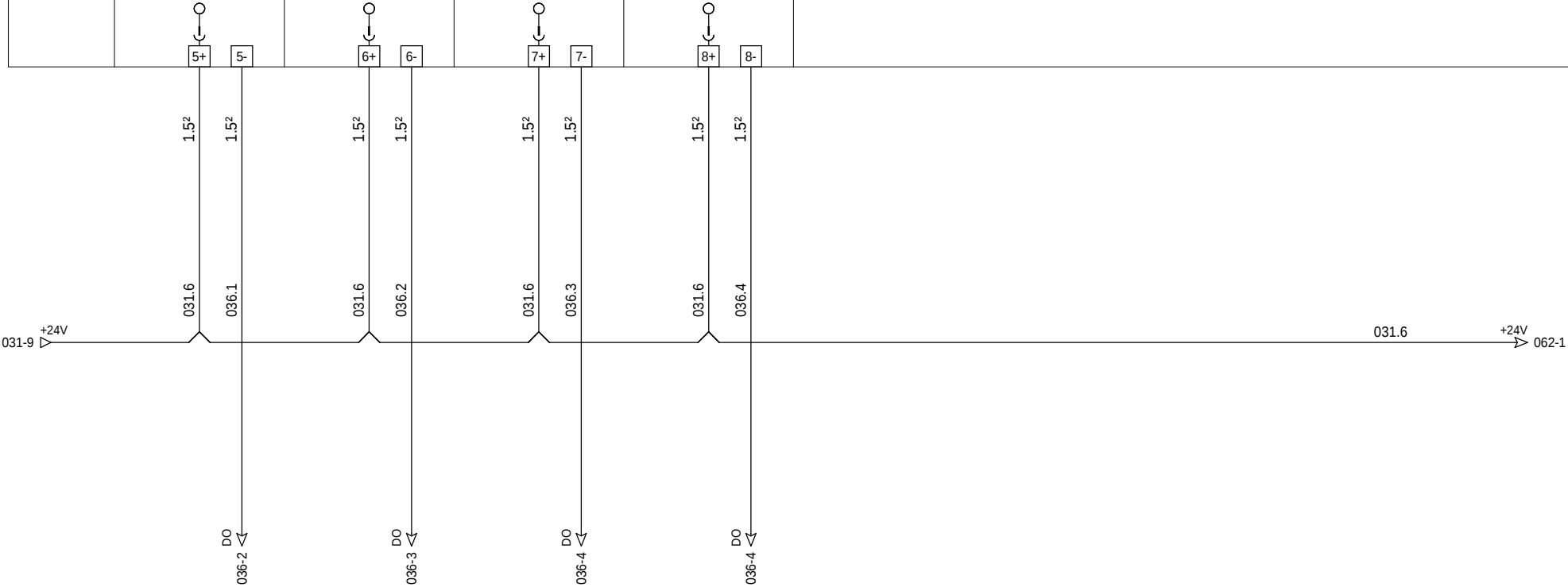
D

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=N201  
+AL01

|                                                 |                                                |                                                 |                                                |  |  |  |  |
|-------------------------------------------------|------------------------------------------------|-------------------------------------------------|------------------------------------------------|--|--|--|--|
| ONDULEUR POSTE<br>COMMANDE MARCHÉ<br>ONDULEUR 1 | ONDULEUR POSTE<br>COMMANDE ARRÊT<br>ONDULEUR 1 | ONDULEUR POSTE<br>COMMANDE MARCHÉ<br>ONDULEUR 2 | ONDULEUR POSTE<br>COMMANDE ARRÊT<br>ONDULEUR 2 |  |  |  |  |
|-------------------------------------------------|------------------------------------------------|-------------------------------------------------|------------------------------------------------|--|--|--|--|

|       |                             |                             |                             |                             |  |  |  |
|-------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|--|--|
| -A043 | =S= TELECONTROL             | 0RIO1 04DO                  | MODULE : 7                  |                             |  |  |  |
|       | DO1                         | DO2                         | DO3                         | DO4                         |  |  |  |
|       | <div>○<br/>↓<br/>5+5-</div> | <div>○<br/>↓<br/>6+6-</div> | <div>○<br/>↓<br/>7+7-</div> | <div>○<br/>↓<br/>8+8-</div> |  |  |  |



CARTE 4 SORTIES TOR  
RELAIS ELECTROMECHANQUES

DIGITAL OUTPUTS BOARD

MONITORING  
PHOTOVOLTAIQUE  
HYERES



|                                                          |                     |                       |
|----------------------------------------------------------|---------------------|-----------------------|
| 02983664                                                 |                     |                       |
| Projet - No commande<br>Project - Order No.<br>FPVTB0272 | Indice<br>Rev<br>00 | Folio<br>Sheet<br>061 |

A

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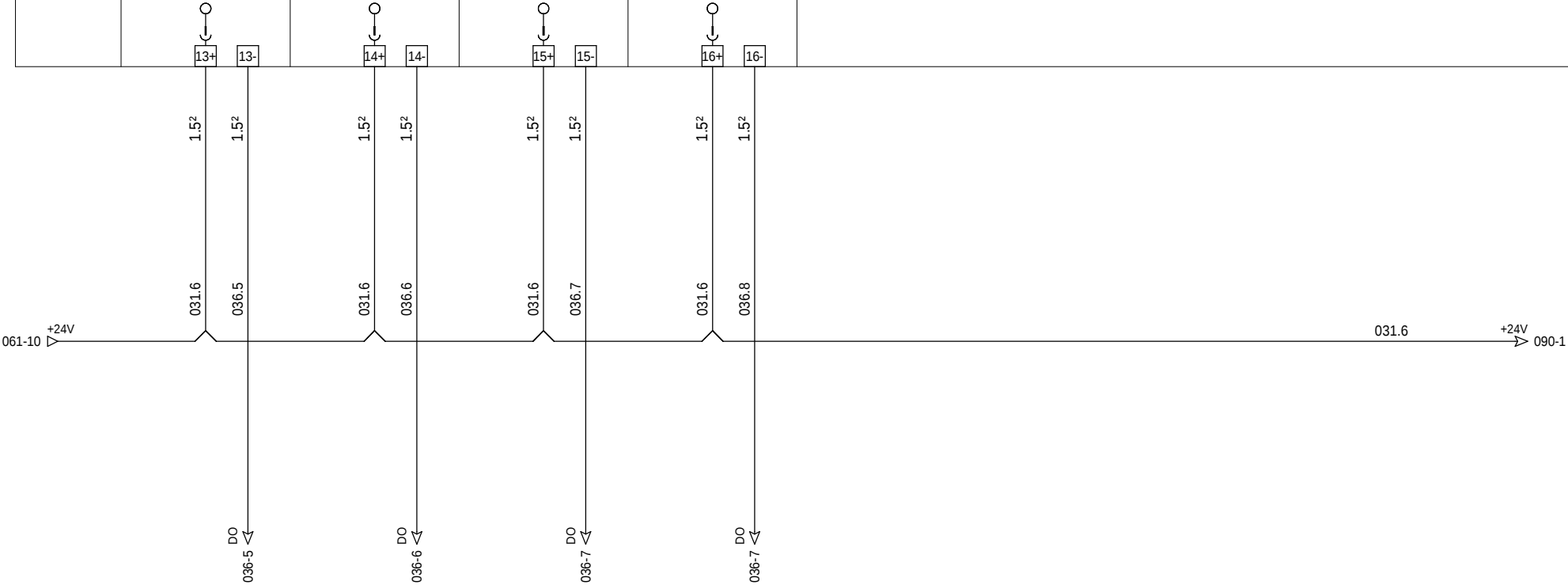
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|   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|----|

|                                                 |                                                |                                                 |                                                |  |  |  |  |
|-------------------------------------------------|------------------------------------------------|-------------------------------------------------|------------------------------------------------|--|--|--|--|
| ONDULEUR POSTE<br>COMMANDE MARCHÉ<br>ONDULEUR 3 | ONDULEUR POSTE<br>COMMANDE ARRÊT<br>ONDULEUR 3 | ONDULEUR POSTE<br>COMMANDE MARCHÉ<br>ONDULEUR 4 | ONDULEUR POSTE<br>COMMANDE ARRÊT<br>ONDULEUR 4 |  |  |  |  |
|-------------------------------------------------|------------------------------------------------|-------------------------------------------------|------------------------------------------------|--|--|--|--|

|       |                 |            |            |     |  |  |  |
|-------|-----------------|------------|------------|-----|--|--|--|
| -A044 | =S= TELECONTROL | 0RIO1 04DO | MODULE : 8 |     |  |  |  |
|       | DO1             | DO2        | DO3        | DO4 |  |  |  |
|       |                 |            |            |     |  |  |  |
|       | 13+             | 14+        | 15+        | 16+ |  |  |  |
|       | 13-             | 14-        | 15-        | 16- |  |  |  |



=N201  
+AL01

|      |            |                                 |                      |          |           |                             |                      |  |  |
|------|------------|---------------------------------|----------------------|----------|-----------|-----------------------------|----------------------|--|--|
| 01   | 05/04/2011 | TQC                             |                      |          |           |                             |                      |  |  |
| 00   | 28/01/2011 | Edition originale / First issue |                      |          |           |                             |                      |  |  |
| Ind. | Date       | Modification / Modification     | Archiv. Micro-filmed | Ind. Rev | Date Date | Modification / Modification | Archiv. Micro-filmed |  |  |

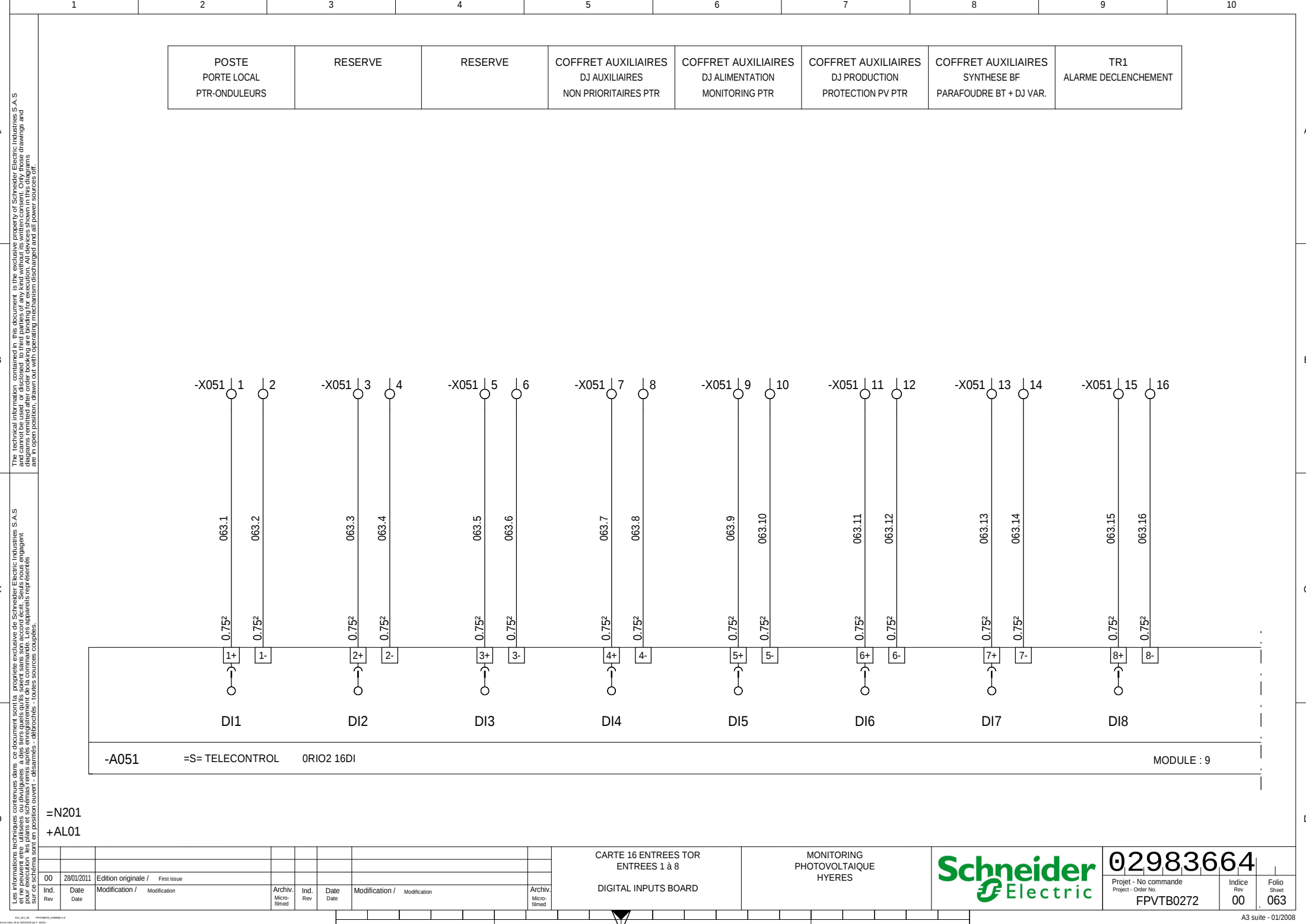
CARTE 4 SORTIES TOR  
RELAIS ELECTROMECHANQUES  
DIGITAL OUTPUTS BOARD

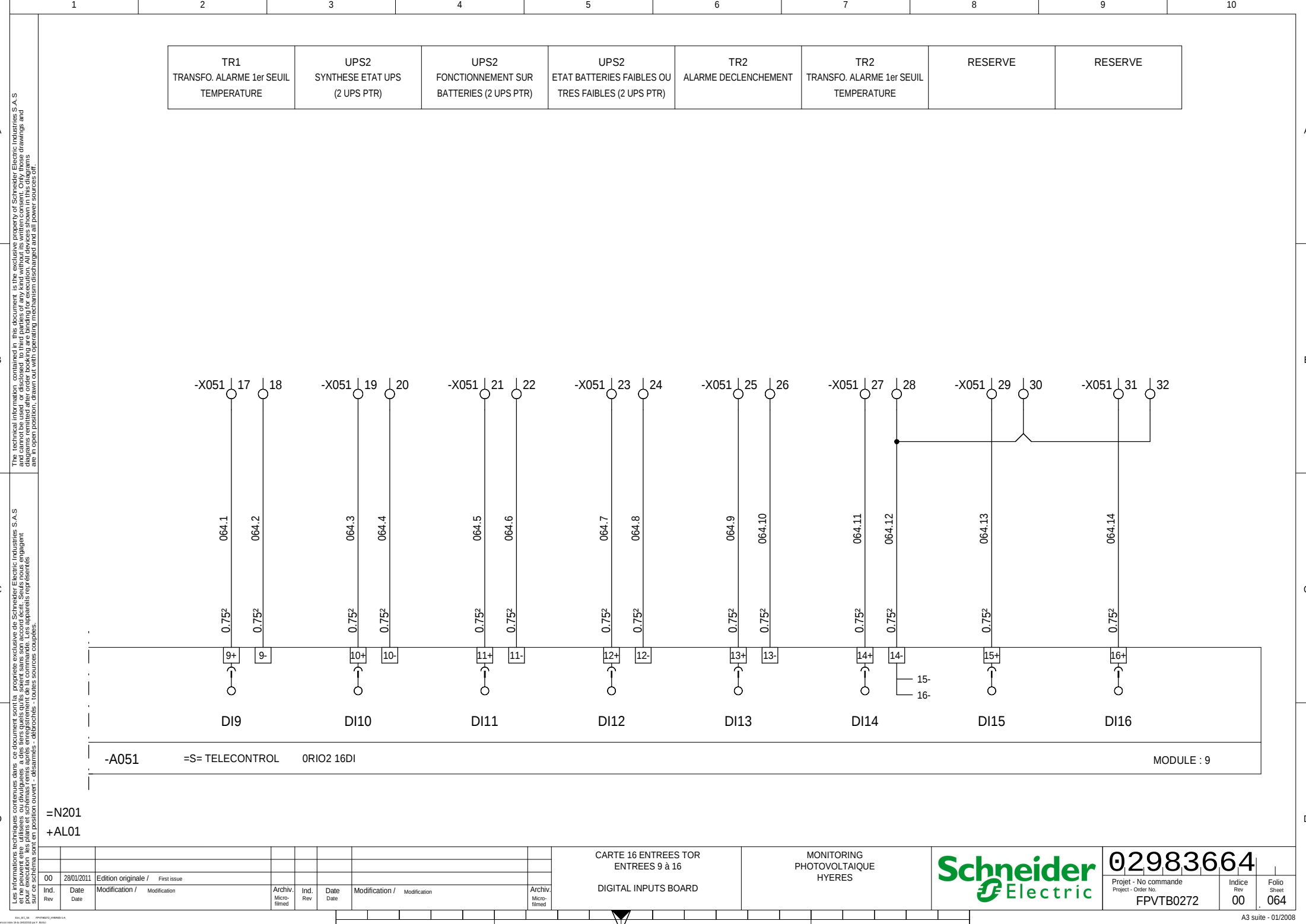
MONITORING  
PHOTOVOLTAIQUE  
HYERES



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| Projet - No commande<br>Project - Order No. | Indice<br>Rev | Folio<br>Sheet |
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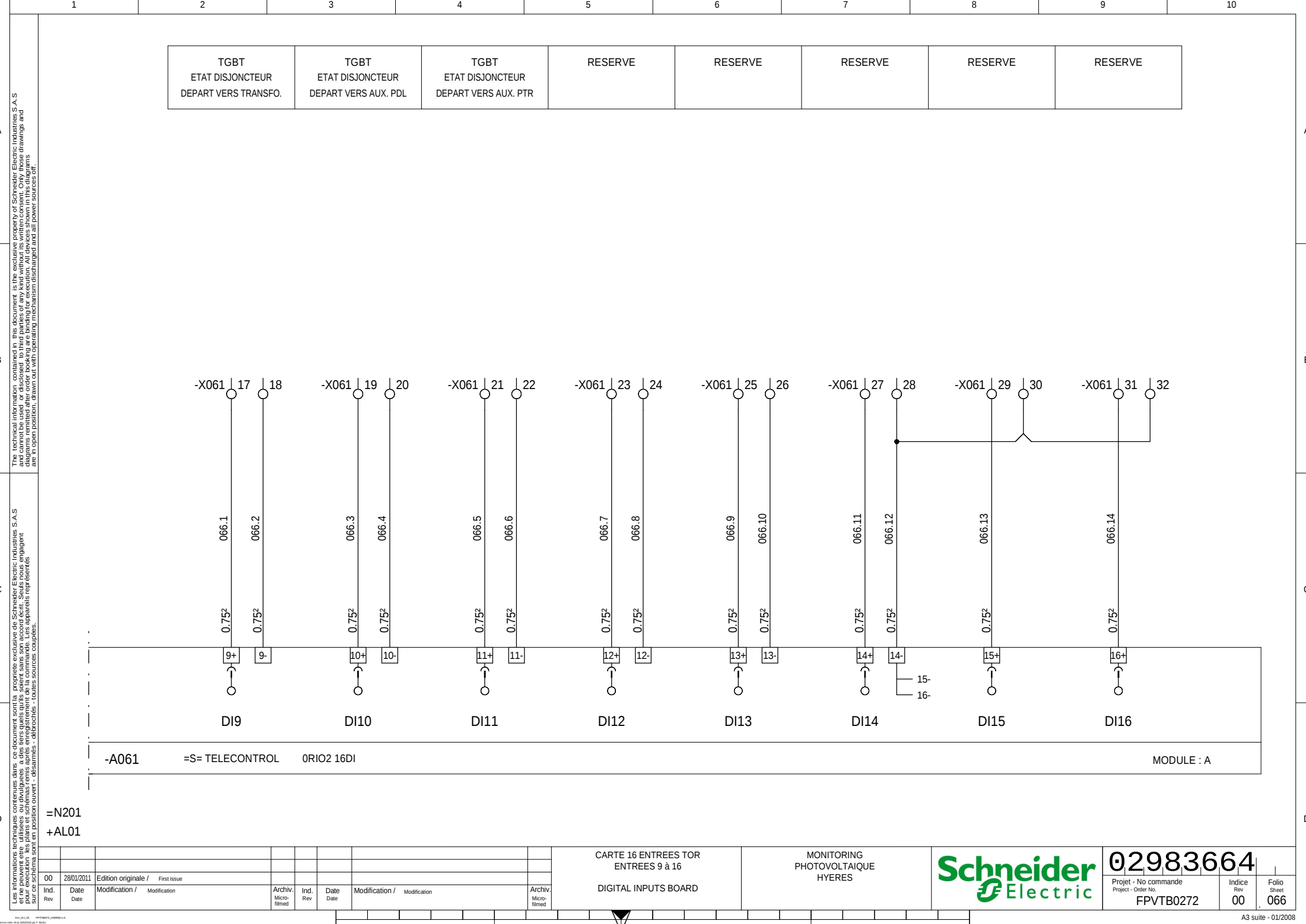
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C

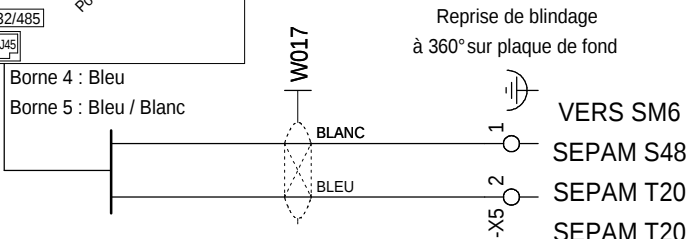
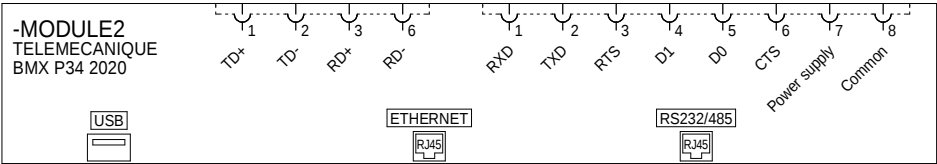
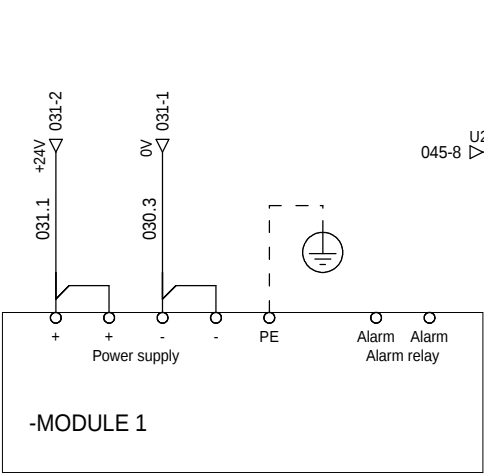
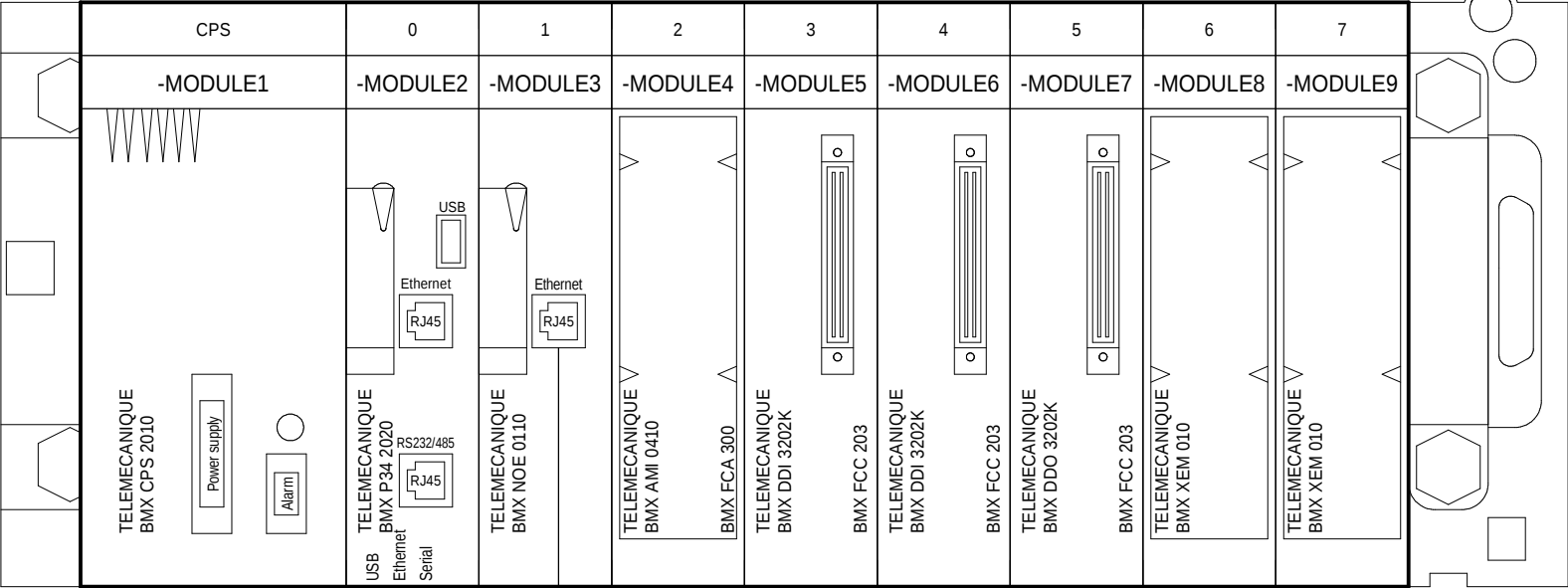
D



A3 suite - 01/2008



M340    -AP1R1    TELEMECANIQUE    BMX XBP 0800



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| 01       | 05/04/2011 | TQC                             |                      |          |      |                             |                      |  |  |
| 00       | 28/01/2011 | Edition originale / First issue |                      |          |      |                             |                      |  |  |
| Ind. Rev | Date       | Modification / Modification     | Archiv. Micro-filmed | Ind. Rev | Date | Modification / Modification | Archiv. Micro-filmed |  |  |

AP1 - Configuration Automate  
M340

MONITORING  
PHOTOVOLTAIQUE  
HYERES



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| 02983664                                                 |                     |                       |  |
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|-------------|--------------|---------------------------------|--|-----------------------------|-------------|--------------|-----------------------------|--|-----------------------------|--------------------------|----------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------|-----------------------|
|             |              |                                 |  |                             |             |              |                             |  |                             | E ANA - Module d'entrées | MONITORING<br>PHOTOVOLTAIQUE<br>HYERES |  | 02983664                                                  |                     |                       |
| 00          | 28/01/2011   | Edition originale / First Issue |  |                             |             |              |                             |  |                             |                          |                                        |                                                                                       | Project - No commande<br>Project - Order No.<br>FPVTB0272 | Indice<br>Rev<br>00 | Folio<br>Sheet<br>081 |
| Ind.<br>Rev | Date<br>Date | Modification / Modification     |  | Archiv.<br>Micro-<br>filmed | Ind.<br>Rev | Date<br>Date | Modification / Modification |  | Archiv.<br>Micro-<br>filmed |                          |                                        |                                                                                       |                                                           |                     |                       |









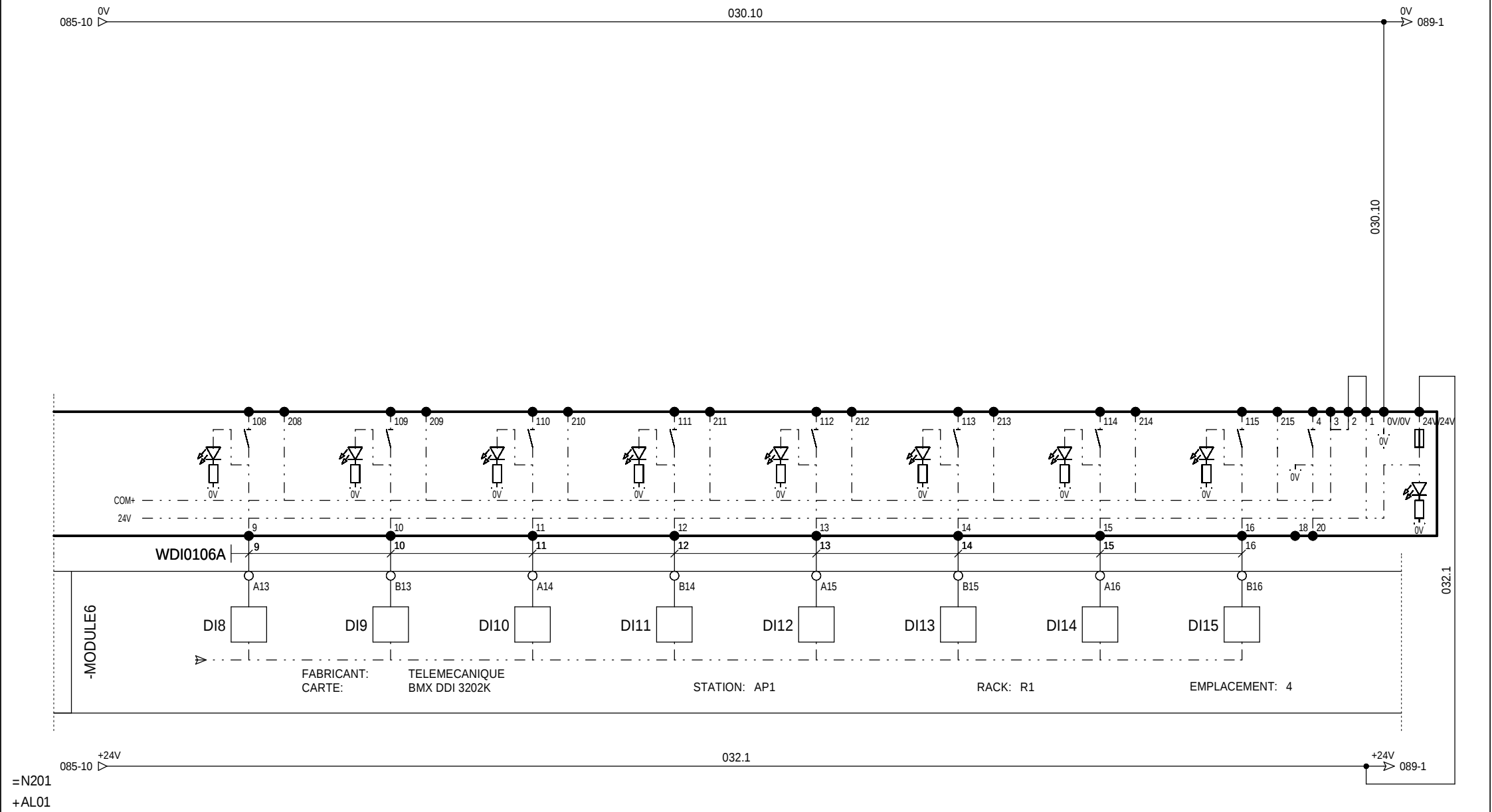
SM6 DM2  
Etat disjoncteur  
de ligne



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|                                                                 |                            |                              |
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| Projet - No commande<br>Project - Order No.<br><b>FPVTB0272</b> | Indice<br>Rev<br><b>00</b> | Folio<br>Sheet<br><b>086</b> |
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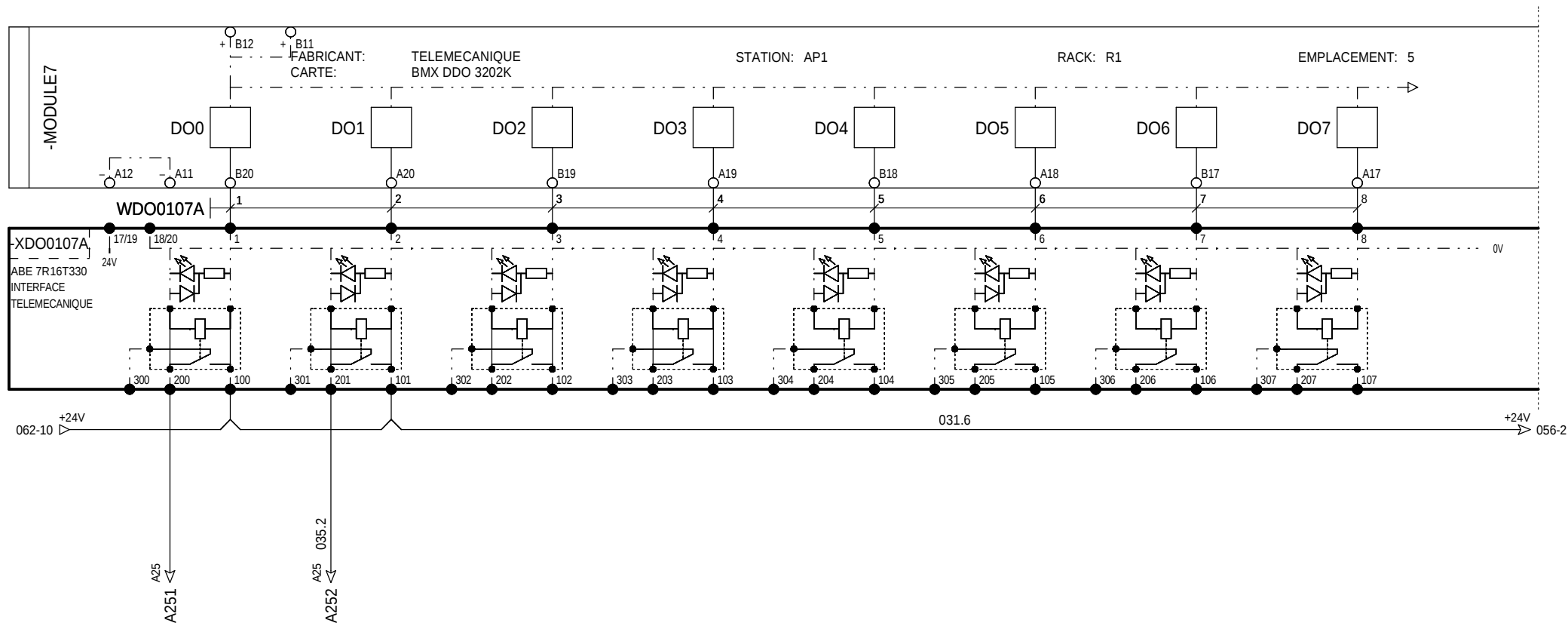
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|---------|---------|---------|----------------------------------|---------------------------------------------|----------------------------------------------|---------|---------|
| RESERVE | RESERVE | RESERVE | SM6 IM EDF1<br>Etat interrupteur | SM6 IM EDF1<br>Etat sectionneur<br>de terre | SM6 IM EDF1<br>Absence défaut HTA<br>(Flair) | RESERVE | RESERVE |
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| 00           | 28/01/2011   | Edition originale / First issue |  |                            |              |              |                             |  |                            |
| Ind.<br>Rev. | Date<br>Date | Modification / Modification     |  | Archiv.<br>Micro-<br>filmé | Ind.<br>Rev. | Date<br>Date | Modification / Modification |  | Archiv.<br>Micro-<br>filmé |

MONITORING  
PHOTOVOLTAIQUE  
HYERES



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| Indice<br>Rev<br>00 | Folio<br>Sheet<br>090 |
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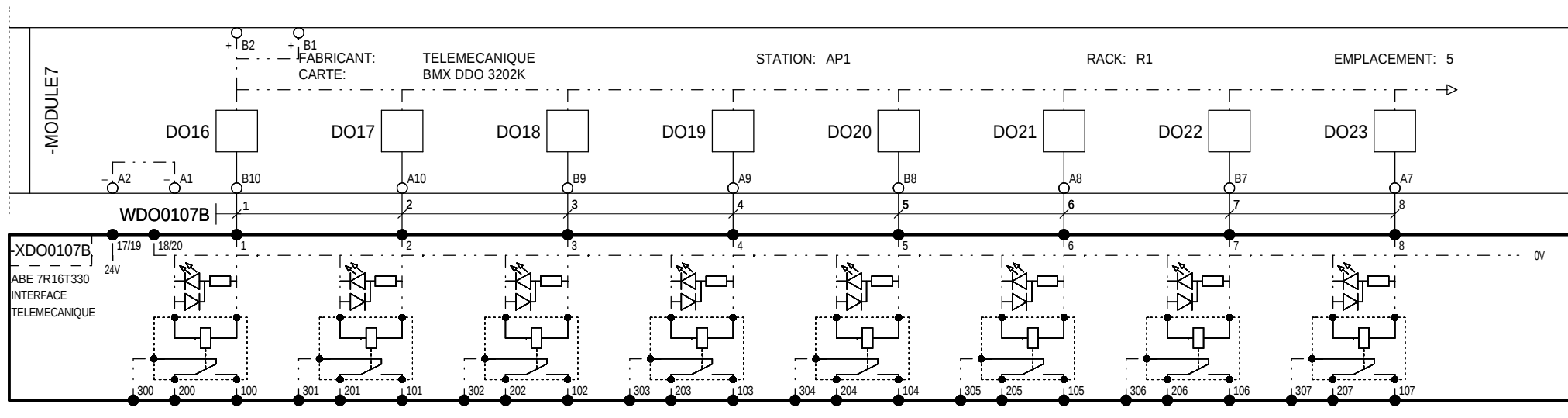
DEIE - TSD  
Demande de découplage  
reçue



+AL01

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| Projet - No commande<br>Project - Order No.<br><b>EPVTB0272</b> | Indice<br>Rev<br><b>00</b> | Folio<br>Sheet<br><b>091</b> |
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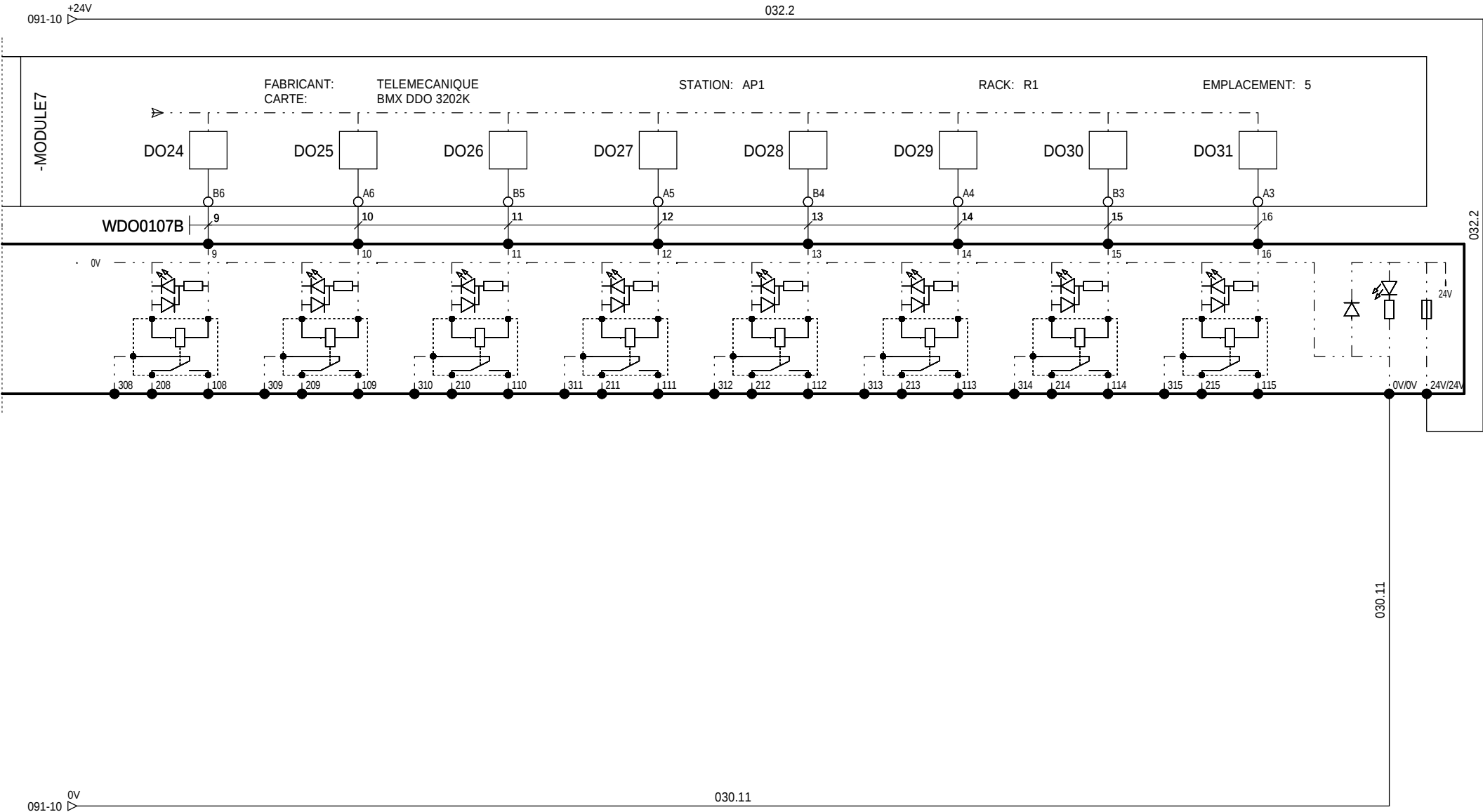
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| DEIE - TSD<br>Position fin de passage à P0 | DEIE - TSD<br>Position de passage à P0 | DEIE - TSD<br>Position fin de passage à Q0 | DEIE - TSD<br>Position de passage à Q0 | DEIE - TSS<br>Centrale indisponible | DEIE<br>Téléaction<br>en service | DEIE<br>Téléaction<br>hors service | RESERVE |
|--------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------|-------------------------------------|----------------------------------|------------------------------------|---------|



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|             |              |                                 |  |                            |             |              |                                |  |  | S TOR - Module de sorties<br>SORTIES 17 à 25 | MONITORING<br>PHOTOVOLTAIQUE<br>HYERES |  | 02983664            |                       |
| 00          | 28/01/2011   | Edition originale / First issue |  |                            |             |              |                                |  |  |                                              |                                        |                                                                                       |                     |                       |
| Ind.<br>Rev | Date<br>Date | Modification /<br>Modification  |  | Archiv.<br>Micro-<br>filmé | Ind.<br>Rev | Date<br>Date | Modification /<br>Modification |  |  |                                              |                                        | Projet - No commande<br>Project - Order No.<br>FPVTB0272                              | Indice<br>Rev<br>00 | Folio<br>Sheet<br>092 |

|         |         |         |                                |         |         |         |         |
|---------|---------|---------|--------------------------------|---------|---------|---------|---------|
| RESERVE | RESERVE | RESERVE | 48V MT<br>Relance chargeur 48V | RESERVE | RESERVE | RESERVE | RESERVE |
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| 00       | 28/01/2011 | Edition originale / First issue |              |                      |          |      |                |              |                      |
| Ind. Rev | Date       | Modification /                  | Modification | Archiv. Micro-filmed | Ind. Rev | Date | Modification / | Modification | Archiv. Micro-filmed |

S TOR - Module de sorties  
SORTIES 26 à 32

MONITORING  
PHOTOVOLTAIQUE  
HYERES

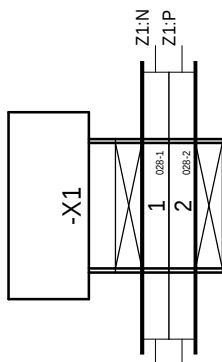


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| Projet - No commande<br>Project - Order No.<br>FPVTB0272 |  | Indice Rev<br>00 | Folio Sheet<br>093 |

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=N201  
+AL01



BORNIER : =N201+AL01-X1

MONITORING  
PHOTOVOLTAIQUE  
HYERES



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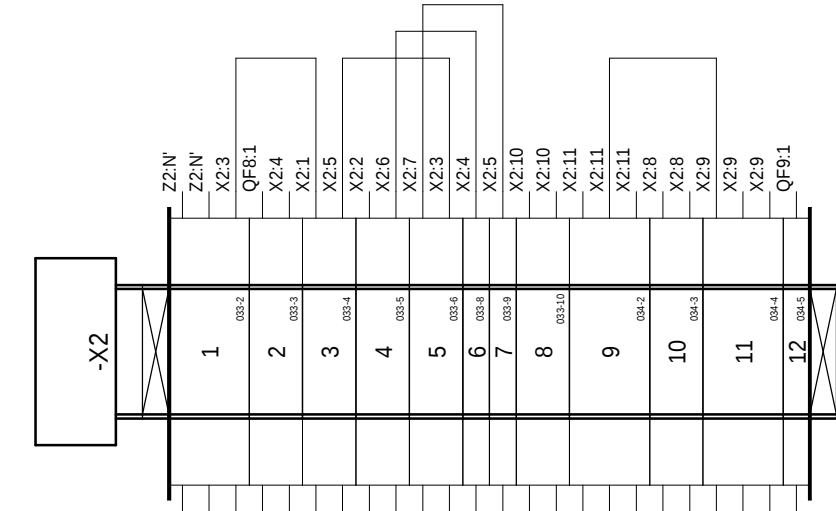
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FPVTB02

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=N201  
+AL01

BORNIER : =N201+AL01-X2

MONITORING  
PHOTOVOLTAIQUE  
HYERES



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Projet - No commande  
Project - Order No.  
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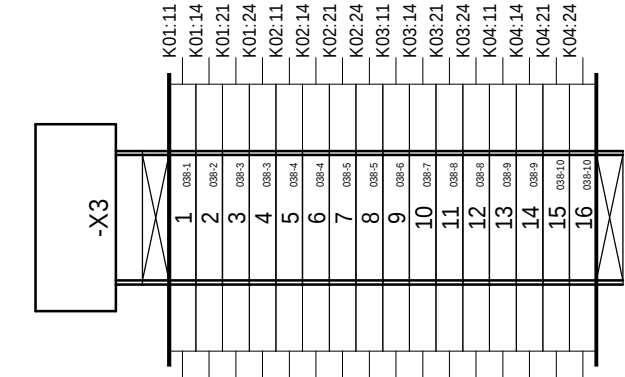
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BORNIER : =N201+AL01-X3

MONITORING  
PHOTOVOLTAIQUE  
HYERES



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Projet - No commande  
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FPVTB0272

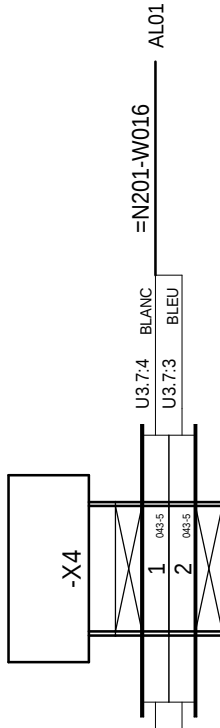
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=N201  
+AL01



BORNIER : =N201+AL01-X4

MONITORING  
PHOTOVOLTAIQUE  
HYERES



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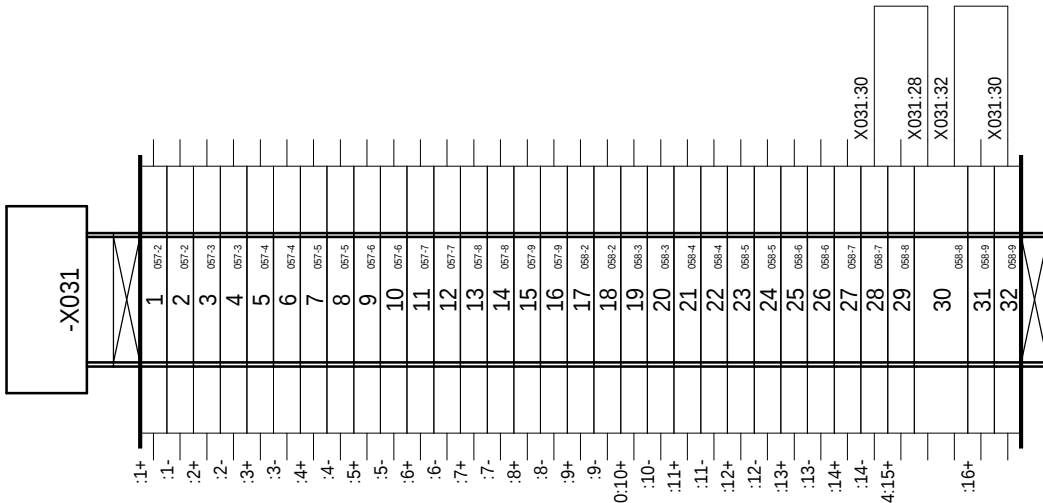
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MONITORING  
PHOTOVOLTAIQUE  
HYERES



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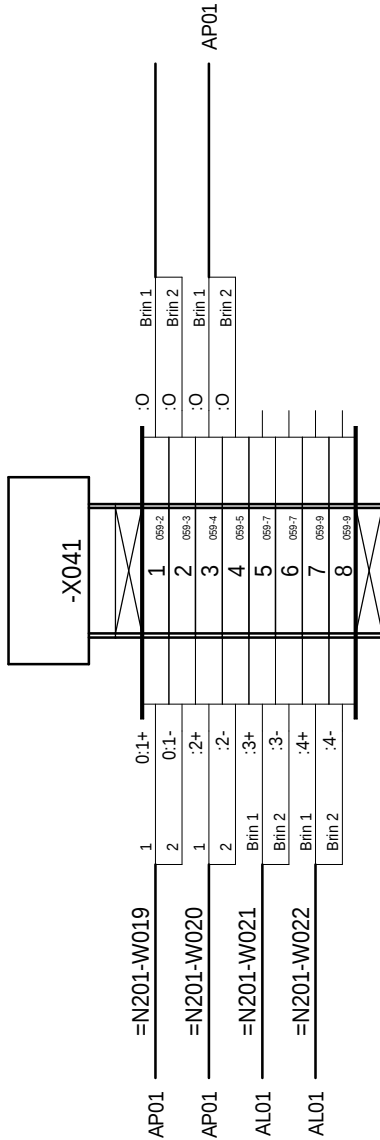
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BORNIER : =N201+AL01-X041

MONITORING  
PHOTOVOLTAIQUE  
HYERES



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A

B

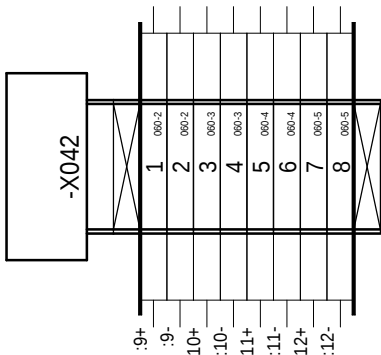
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BORNIER : =N201+AL01-X042

MONITORING  
PHOTOVOLTAIQUE  
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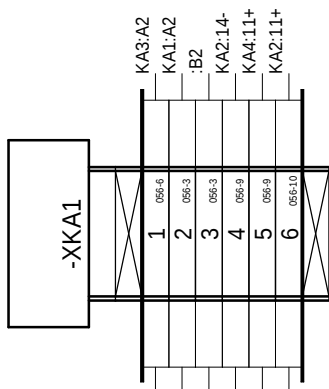




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BORNIER : =N201+AL01-XKA1

MONITORING  
PHOTOVOLTAIQUE  
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Projet - No commande  
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|--------------------------------|--------------------------|---------------|---------------|-------------|-----|----------------------------------------------------------------------------------------------|---|---|---|---|---|---------------------------|-------------------------------------|-----------------|--------------|
| Nom composant / Component name |                          |               | Page<br>Sheet | Designation |     |                                                                                              |   |   |   |   |   | Fabricant<br>Manufacturer | Ref. fabricant<br>Manufacturer Ref. |                 |              |
| Localisation<br>Location       | Installation<br>Function | Repère<br>Tag |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
| AL01                           |                          |               | N201          | A01         | 052 | ALIMENTATION BOITIER CPU PHENIX, BOITIER EXT-2, ADRESSAGE PAR ROUE CODEUSE, RS485 PAR SWITCH |   |   |   |   |   |                           |                                     | =S= TELECONTROL | ORIO2 UPS-2  |
|                                |                          |               |               | A02         | 052 | BOITIER EXT-2, 1 EMPLACEMENTS CARTES T2, ADRESSAGE PAR ROUE CODEUSE                          |   |   |   |   |   |                           |                                     | =S= TELECONTROL | ORIO2 EXT-2  |
|                                |                          |               |               | A03         | 052 | BOITIER EXT-2, 1 EMPLACEMENTS CARTES T2, ADRESSAGE PAR ROUE CODEUSE                          |   |   |   |   |   |                           |                                     | =S= TELECONTROL | ORIO2 EXT-2  |
|                                |                          |               |               | A3          | 051 | PC DE TELEGESTION INTEL PENTIUM UNO                                                          |   |   |   |   |   |                           |                                     | ADVANTECH       | UNO-1170E    |
|                                |                          |               |               | A04         | 052 | BOITIER EXT-1, 4 EMPLACEMENTS CARTES T1, ADRESSAGE PAR ROUE CODEUSE                          |   |   |   |   |   |                           |                                     | =S= TELECONTROL | ORIO2 EXT-1  |
|                                |                          |               |               |             | 052 | NAPPE RIO LONGUEUR 50cm (LIAISON INTER-MODBUS DE LA SERIE RIO)                               |   |   |   |   |   |                           |                                     | =S= TELECONTROL | ORIOKNA00001 |
|                                |                          |               |               | A4          | 051 | CARTE DE GESTION 4 PORTS RS485                                                               |   |   |   |   |   |                           |                                     | ADVANTECH       | PCM-3614I    |
|                                |                          |               |               | A05         | 052 | BOITIER EXT-2, 1 EMPLACEMENTS CARTES T2, ADRESSAGE PAR ROUE CODEUSE                          |   |   |   |   |   |                           |                                     | =S= TELECONTROL | ORIO2 EXT-2  |
|                                |                          |               |               | A06         | 052 | BOITIER EXT-2, 1 EMPLACEMENTS CARTES T2, ADRESSAGE PAR ROUE CODEUSE                          |   |   |   |   |   |                           |                                     | =S= TELECONTROL | ORIO2 EXT-2  |
|                                |                          |               |               | A11         | 050 | PC DE TELEGESTION INTEL PENTIUM UNO                                                          |   |   |   |   |   |                           |                                     | ADVANTECH       | UNO-1170E    |
|                                |                          |               |               | A12         | 050 | CARTE DE GESTION 4 PORTS RS485                                                               |   |   |   |   |   |                           |                                     | ADVANTECH       | PCM-3614I    |
|                                |                          |               |               | A021        | 052 | CARTE 16 ENTREES LOGIQUES ET COMPTAGES, TAILLE 2                                             |   |   |   |   |   |                           |                                     | =S= TELECONTROL | ORIO2 16DI   |
|                                |                          |               |               | A031        | 052 | CARTE 16 ENTREES LOGIQUES ET COMPTAGES, TAILLE 2                                             |   |   |   |   |   |                           |                                     | =S= TELECONTROL | ORIO2 16DI   |
|                                |                          |               |               | A041        | 052 | CARTE 4 ENTREES ANALOGIQUES UNIVERSELLES, TAILLE 1                                           |   |   |   |   |   |                           |                                     | =S= TELECONTROL | ORIO1 04AI   |
|                                |                          |               |               | A043        | 052 | CARTE 4 SORTIES LOGIQUES RELAIS ELECTROMECHANIQUE, TAILLE 1                                  |   |   |   |   |   |                           |                                     | =S= TELECONTROL | ORIO1 04DO   |
|                                |                          |               |               | A044        | 052 | CARTE 4 SORTIES LOGIQUES RELAIS ELECTROMECHANIQUE, TAILLE 1                                  |   |   |   |   |   |                           |                                     | =S= TELECONTROL | ORIO1 04DO   |
|                                |                          |               |               | A051        | 052 | CARTE 16 ENTREES LOGIQUES ET COMPTAGES, TAILLE 2                                             |   |   |   |   |   |                           |                                     | =S= TELECONTROL | ORIO2 16DI   |
|                                |                          |               |               | A061        | 052 | CARTE 16 ENTREES LOGIQUES ET COMPTAGES, TAILLE 2                                             |   |   |   |   |   |                           |                                     | =S= TELECONTROL | ORIO2 16DI   |
|                                |                          |               |               | AP1R1       | 080 | RACK 8 EMPLACEMENTS                                                                          |   |   |   |   |   |                           |                                     | TELEMECANIQUE   | BMX XBP 0800 |
|                                |                          |               |               | F1.1        | 040 | FICHE PARAFONDRE LIAISON HF 3FILS-In:10kA (8/20)-Uc:13VCC                                    |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2858043      |
|                                |                          |               |               |             | 040 | EMBASE PARAFONDRE AVEC DECOUPLAGE ECRAN/MASSE                                                |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2856126      |
|                                |                          |               |               |             | 040 | RACCORDEMENT AUTODENUDANT POUR BLINDAGE                                                      |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2839295      |
|                                |                          |               |               | F1.2        | 040 | FICHE PARAFONDRE LIAISON HF 3FILS-In:10kA (8/20)-Uc:13VCC                                    |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2858043      |
|                                |                          |               |               |             | 040 | EMBASE PARAFONDRE AVEC DECOUPLAGE ECRAN/MASSE                                                |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2856126      |
|                                |                          |               |               |             | 040 | RACCORDEMENT AUTODENUDANT POUR BLINDAGE                                                      |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2839295      |
|                                |                          |               |               | F1.3        | 041 | FICHE PARAFONDRE LIAISON HF 3FILS-In:10kA (8/20)-Uc:13VCC                                    |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2858043      |
|                                |                          |               |               |             | 041 | EMBASE PARAFONDRE AVEC DECOUPLAGE ECRAN/MASSE                                                |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2856126      |
|                                |                          |               |               |             | 041 | RACCORDEMENT AUTODENUDANT POUR BLINDAGE                                                      |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2839295      |
|                                |                          |               |               | F1.4        | 041 | FICHE PARAFONDRE LIAISON HF 3FILS-In:10kA (8/20)-Uc:13VCC                                    |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2858043      |
|                                |                          |               |               |             | 041 | EMBASE PARAFONDRE AVEC DECOUPLAGE ECRAN/MASSE                                                |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2856126      |
|                                |                          |               |               |             | 041 | RACCORDEMENT AUTODENUDANT POUR BLINDAGE                                                      |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2839295      |
|                                |                          |               |               | F1.5        | 042 | FICHE PARAFONDRE LIAISON HF 3FILS-In:10kA (8/20)-Uc:13VCC                                    |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2858043      |
|                                |                          |               |               |             | 042 | EMBASE PARAFONDRE AVEC DECOUPLAGE ECRAN/MASSE                                                |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2856126      |
|                                |                          |               |               |             | 042 | RACCORDEMENT AUTODENUDANT POUR BLINDAGE                                                      |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2839295      |
|                                |                          |               |               | F1.6        | 042 | FICHE PARAFONDRE LIAISON HF 3FILS-In:10kA (8/20)-Uc:13VCC                                    |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2858043      |
|                                |                          |               |               |             | 042 | EMBASE PARAFONDRE AVEC DECOUPLAGE ECRAN/MASSE                                                |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2856126      |
|                                |                          |               |               |             | 042 | RACCORDEMENT AUTODENUDANT POUR BLINDAGE                                                      |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2839295      |
|                                |                          |               |               | F1.7        | 043 | FICHE PARAFONDRE LIAISON HF 3FILS-In:10kA (8/20)-Uc:13VCC                                    |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2858043      |
|                                |                          |               |               |             | 043 | EMBASE PARAFONDRE AVEC DECOUPLAGE ECRAN/MASSE                                                |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2856126      |
|                                |                          |               |               |             | 043 | RACCORDEMENT AUTODENUDANT POUR BLINDAGE                                                      |   |   |   |   |   |                           |                                     | PHOENIX CONTACT | 2839295      |
|                                |                          |               |               | K01         | 036 | RELAIS BISTABLE AVEC DIODE 24VDC 4INV                                                        |   |   |   |   |   |                           |                                     | TELEMECANIQUE   | RHK412BA76   |
|                                |                          |               |               |             | 036 | EMBASE AVANT VIS                                                                             |   |   |   |   |   |                           |                                     | TELEMECANIQUE   | RHZ21        |
|                                |                          |               |               |             | 036 | ETRIER METALLIQUE DE MAINTIEN                                                                |   |   |   |   |   |                           |                                     | TELEMECANIQUE   | RXZ 400      |
|                                |                          |               |               | K02         | 036 | RELAIS BISTABLE AVEC DIODE 24VDC 4INV                                                        |   |   |   |   |   |                           |                                     | TELEMECANIQUE   | RHK412BA76   |
|                                |                          |               |               |             | 036 | EMBASE AVANT VIS                                                                             |   |   |   |   |   |                           |                                     | TELEMECANIQUE   | RHZ21        |
|                                |                          |               |               |             | 036 | ETRIER METALLIQUE DE MAINTIEN                                                                |   |   |   |   |   |                           |                                     | TELEMECANIQUE   | RXZ 400      |
|                                |                          |               |               | K03         | 036 | RELAIS BISTABLE AVEC DIODE 24VDC 4INV                                                        |   |   |   |   |   |                           |                                     | TELEMECANIQUE   | RHK412BA76   |
|                                |                          |               |               |             | 036 | EMBASE AVANT VIS                                                                             |   |   |   |   |   |                           |                                     | TELEMECANIQUE   | RHZ21        |
|                                |                          |               |               |             | 036 | ETRIER METALLIQUE DE MAINTIEN                                                                |   |   |   |   |   |                           |                                     | TELEMECANIQUE   | RXZ 400      |
|                                |                          |               |               | K04         | 036 | RELAIS BISTABLE AVEC DIODE 24VDC 4INV                                                        |   |   |   |   |   |                           |                                     | TELEMECANIQUE   | RHK412BA76   |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |
|                                |                          |               |               |             |     |                                                                                              |   |   |   |   |   |                           |                                     |                 |              |





[illegible]