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# **EL - DOKUMENTATION**

**Customer:**

**Projekt: FlexVander VX40 P2**

**Location:**

**Project Nr:101048**

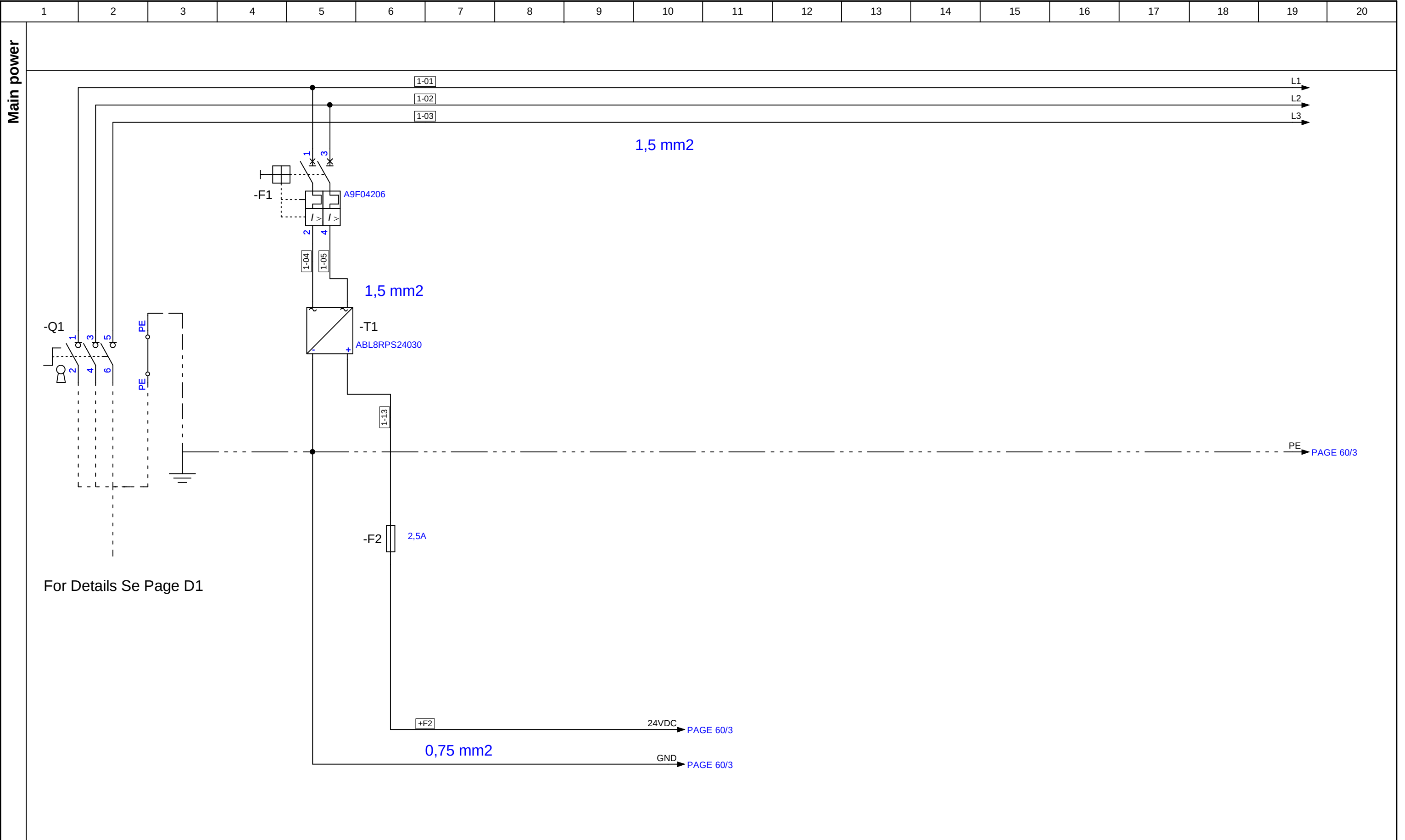
**Project start:28-05-2015**

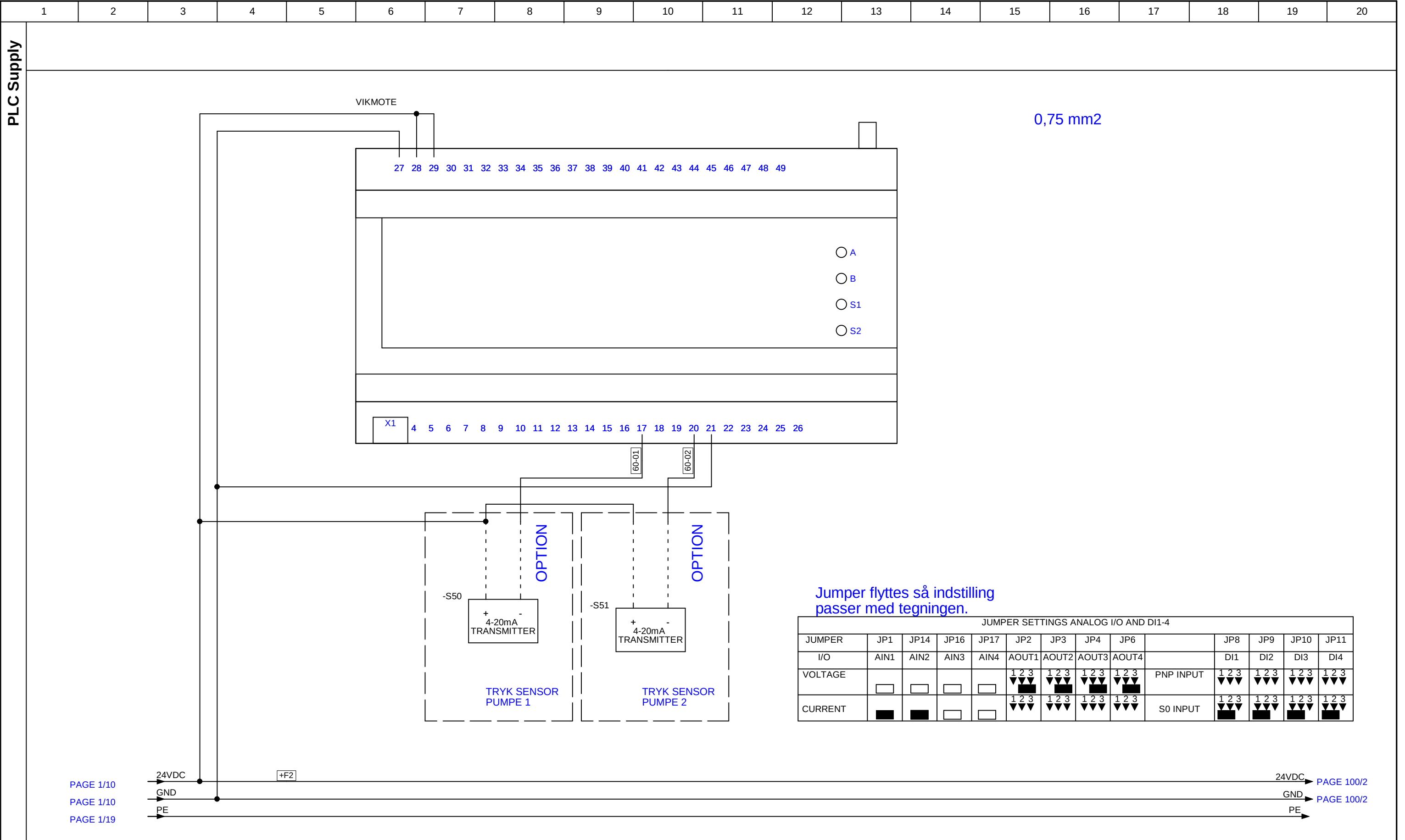
## **PROGRAM 2**

|                                                                                                                                                                                                              |      |                              |                     |                             |      |                             |                     |                    |  |  |  |                           |  |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------|---------------------|-----------------------------|------|-----------------------------|---------------------|--------------------|--|--|--|---------------------------|--|--|--|--|--|--|
|                                                                                                                                                                                                              |      |                              |                     |                             |      |                             |                     |                    |  |  |  |                           |  |  |  |  |  |  |
| Index                                                                                                                                                                                                        | Pos. | Titel                        | Last Change         | Page Nr.                    | Pos. | Titel                       | Last Change         | Page Nr.           |  |  |  |                           |  |  |  |  |  |  |
|                                                                                                                                                                                                              | 1    | Technical dokumantation      | 03-08-2015 12:46:50 | D1                          | 2    | Reference designations      | 27-11-2012 10:28:10 | D2                 |  |  |  |                           |  |  |  |  |  |  |
|                                                                                                                                                                                                              | 3    | Main power                   | 15-06-2015 08:11:22 | 1                           | 4    | PLC Supply                  | 03-08-2015 12:55:30 | 60                 |  |  |  |                           |  |  |  |  |  |  |
|                                                                                                                                                                                                              | 5    | Input                        | 22-06-2015 07:28:36 | 100                         | 6    | Input                       | 22-06-2015 07:28:14 | 200                |  |  |  |                           |  |  |  |  |  |  |
|                                                                                                                                                                                                              | 7    | Forbindelsesdiagram Indgange | 03-08-2015 12:56:38 | VX40 In P2                  | 8    | Forbindelsesdiagram Udgange | 03-08-2015 13:03:42 | VX40 Out P2        |  |  |  |                           |  |  |  |  |  |  |
|                                                                                                                                                                                                              | 9    | Piece list                   | 03-08-2015 13:00:40 | 1550                        |      |                             |                     |                    |  |  |  |                           |  |  |  |  |  |  |
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| <div><b>Vikingegaarden A/S</b><br/>Tinnetvej 70<br/>DK-7173 Vonge<br/>Tel: +45 75 803 960<br/>www.vikingegaarden.com</div> |      |                              |                     | Customer:                   |      |                             |                     | Project Nr: 101048 |  |  |  | Project start: 28-05-2015 |  |  |  |  |  |  |
|                                                                                                                                                                                                              |      |                              |                     | Location:                   |      |                             |                     | Page Ref:          |  |  |  | Date: 03-08-2015          |  |  |  |  |  |  |
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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|----|--|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|----|--|----|--|----|--|--------------------|--|----|--|----|--|----|--|----|--|---------------------------|--|--|--|--|--|--|--|--|--|
| Technical dokumentation                                                                                                                                                                                                     |                          |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |                             |                                                                                                                                                                              |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                             | Construction Standard:   |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |                             | EN60204-1                                                                                                                                                                    |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                             | Documentation:           |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |                             | EN61082 - EN81346                                                                                                                                                            |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                             | Rated Operating Voltage: |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |                             | The main circuit Ue: 3 x 230/400 VAC operation range +6% -10%<br>Control circuit Ue: 230 VAC operation range +6% -10%<br>Control circuit Ue: 24 VDC operation range +6% -10% |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                             | Isolation Voltage:       |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |                             | The main circuit Ui 400V, Control circuit Ui 230V                                                                                                                            |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                             | Short circuit detail:    |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |                             | Rated short-circuit current: Max. Icc 6 KA                                                                                                                                   |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                             | Frequency:               |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |                             | 50 Hz                                                                                                                                                                        |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                             | Rated Current:           |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |                             | 1 Amp                                                                                                                                                                        |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                             | Max Supply Fuses:        |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |                             | 10 Amp                                                                                                                                                                       |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                             | System Earthing:         |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |                             | TN-S/TT                                                                                                                                                                      |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
| Ambient Temperature:                                                                                                                                                                                                        |                          |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  | Max 40 C°      Min -25 C°   |                                                                                                                                                                              |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
| Protection class:                                                                                                                                                                                                           |                          |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |                             |                                                                                                                                                                              |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
| Main Cabinet:                                                                                                                                                                                                               |                          |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  | IP: 20                      |                                                                                                                                                                              |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
| Emc-Environment:                                                                                                                                                                                                            |                          |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  | A                           |                                                                                                                                                                              |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                             |                          |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |                             |                                                                                                                                                                              |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |
| <div><div><div>Vikingegaarden A/S<br/>Tinnetvej 70<br/>DK-7173 Vonge<br/>Tel: +45 75 803 960<br/>www.vikingegaarden.com</div></div></div> |                          |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  | Customer:                   |                                                                                                                                                                              |    |  |    |  |    |  |    |  | Project Nr: 101048 |  |    |  |    |  |    |  |    |  | Project start: 28-05-2015 |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                             |                          |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  | Location:                   |                                                                                                                                                                              |    |  |    |  |    |  |    |  | Page Ref:          |  |    |  |    |  |    |  |    |  | Date: 03-08-2015          |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                             |                          |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  | Project: FlexVander VX40 P2 |                                                                                                                                                                              |    |  |    |  |    |  |    |  | Init: TT           |  |    |  |    |  |    |  |    |  | Page: D1                  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                             |                          |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |    |  |                             |                                                                                                                                                                              |    |  |    |  |    |  |    |  |                    |  |    |  |    |  |    |  |    |  |                           |  |  |  |  |  |  |  |  |  |

| 1                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2 |  | 3 |           | 4 |  | 5 |  | 6 |           | 7                                                                                                                                                                                                                                                                                                                                                                                                   |  | 8 |                    | 9 |  | 10 |  | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  | 12 |  | 13 |                           | 14 |  | 15 |  | 16 |  | 17 |  | 18 |  | 19 |  | 20 |  |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|---|-----------|---|--|---|--|---|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|--------------------|---|--|----|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----|--|----|---------------------------|----|--|----|--|----|--|----|--|----|--|----|--|----|--|
| Reference designations      | <h1>Cord Colours</h1> <div><div>Main circuit:</div><div><div>L1, L2, L3:</div><div>Black</div></div><div><div>N:</div><div>Light Blue</div></div></div> <div><div>Control circuit:</div><div><div>230V / 24V AC</div><div><div>L:</div><div>Red</div></div><div><div>0V:</div><div>Red / White</div></div></div><div><div>24V DC</div><div><div>+24V:</div><div>Dark Blue</div></div><div><div>0V:</div><div>Dark Blue / White</div></div></div></div> <div><div>External Control Voltage:</div><div>Orange</div></div> <div><div>Emergency Stop Circut:</div><div>Purple</div></div> <div><div>Protection Wire:</div><div>Yellow / Green</div></div> |   |  |   |           |   |  |   |  |   |           |                                                                                                                                                                                                                                                                                                                                                                                                     |  |   |                    |   |  |    |  | <h1>Component Numbering</h1> <p>The components are numbered sequentially.</p> <div><div>Control Components:</div><div>-1 - 99</div></div> <div><div>Eg. Sensors (Inputs):</div><div>-100 - 199</div></div> <div><div>Eg. Valves (Outputs):</div><div>-200 - 299</div></div> <div><div>Motor Starter:</div><div>-300 - 499</div></div> <div><div>Safety Components:</div><div>-500 - 599</div></div> <div><div>PLC Components:</div><div>-600 - 699</div></div> |                  |    |  |    |                           |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
|                             | <h1>Wire Numbering</h1> <p>The wires in the cabinet are numbered by page number.<br/>And - sequentially</p> <div><div>Fx: 100-01</div><div>Page 100 . Wire Number 1</div></div> <div><div>Fx: 200-05</div><div>Page 200 . Wire Number 5</div></div>                                                                                                                                                                                                                                                                                                                                                                                                   |   |  |   |           |   |  |   |  |   |           | <h1>Cable Numbering</h1> <p>Cable numbers are designed following a model</p> <div><div><div>From</div><div><div><div></div><div></div><div></div></div><div><div>Fx: +A1-W12.100</div><div>+A1-B100</div></div><div>To</div></div><div><div>Cabinet +A1</div><div>Terminal Blok Number. -X12</div><div>Terminal Number 100</div><div>Component Number</div><div>Cabinet +A1</div></div></div></div> |  |   |                    |   |  |    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |    |  |    |                           |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
|                             | <div><div><div><div></div><div></div><div></div></div><div><div>VIKINGE</div><div>GAARDEN</div></div></div><div><div>Vikingegaarden A/S</div><div>Tinnetvej 70</div><div>DK-7173 Vonge</div><div>Tel: +45 75 803 960</div><div>www.vikingegaarden.com</div></div></div>                                                                                                                                                                                                                                                                                                                                                                               |   |  |   | Customer: |   |  |   |  |   |           |                                                                                                                                                                                                                                                                                                                                                                                                     |  |   | Project Nr: 101048 |   |  |    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |    |  |    | Project start: 28-05-2015 |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
|                             | Location:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |  |   |           |   |  |   |  |   | Page Ref: |                                                                                                                                                                                                                                                                                                                                                                                                     |  |   |                    |   |  |    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Date: 27-11-2012 |    |  |    |                           |    |  |    |  |    |  |    |  |    |  |    |  |    |  |
| Project: FlexVander VX40 P2 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |  |   |           |   |  |   |  |   |           |                                                                                                                                                                                                                                                                                                                                                                                                     |  |   | Init: TT           |   |  |    |  | Page: D2                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |    |  |    |                           |    |  |    |  |    |  |    |  |    |  |    |  |    |  |



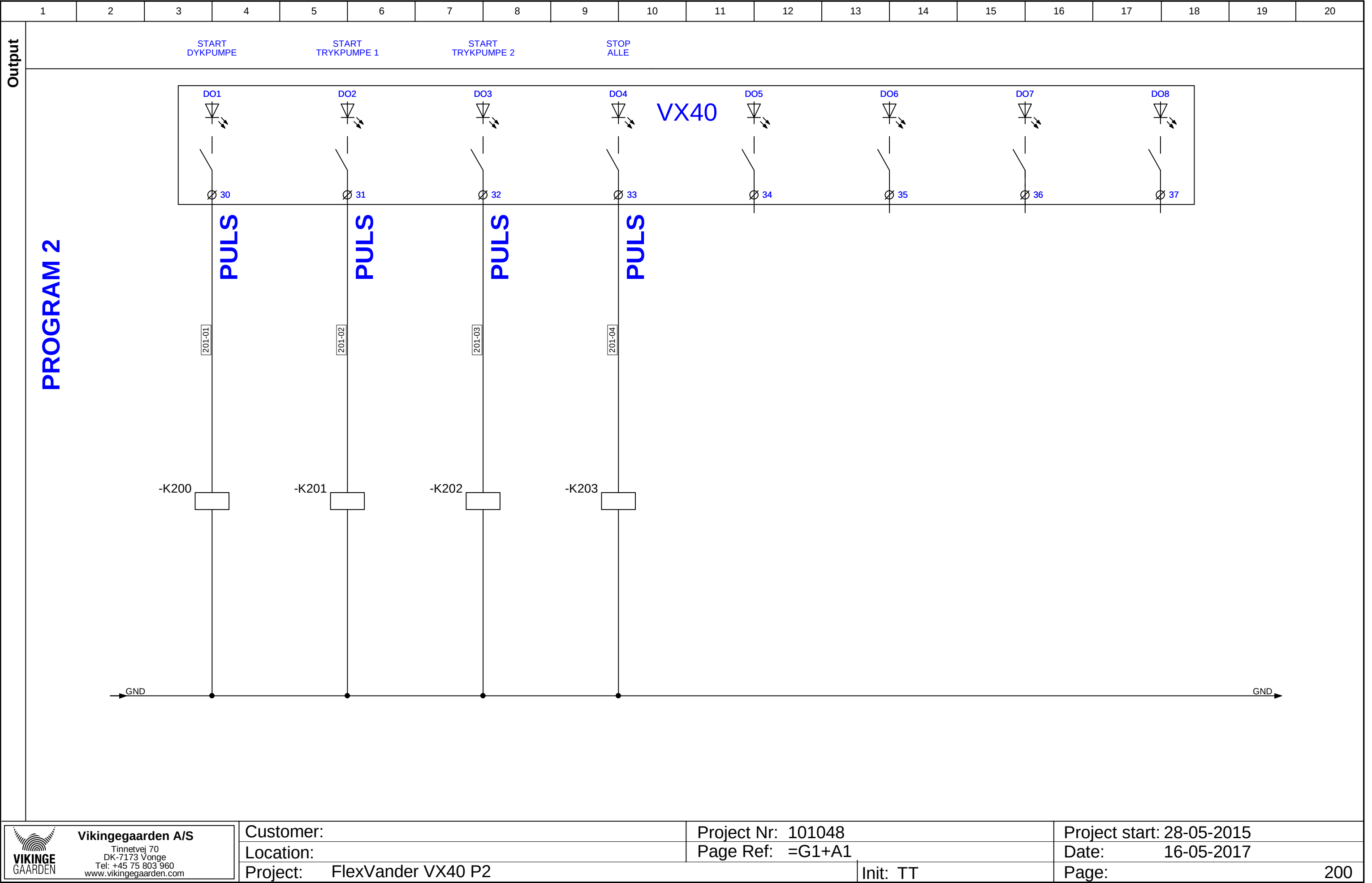


Jumper flyttes så indstilling  
passer med tegningen.

| JUMPER SETTINGS ANALOG I/O AND DI1-4 |      |      |      |      |       |       |       |       |           |       |       |       |       |
|--------------------------------------|------|------|------|------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|
| JUMPER                               | JP1  | JP14 | JP16 | JP17 | JP2   | JP3   | JP4   | JP6   |           | JP8   | JP9   | JP10  | JP11  |
| I/O                                  | AIN1 | AIN2 | AIN3 | AIN4 | AOUT1 | AOUT2 | AOUT3 | AOUT4 |           | DI1   | DI2   | DI3   | DI4   |
| VOLTAGE                              |      |      |      |      | 1 2 3 | 1 2 3 | 1 2 3 | 1 2 3 | PNP INPUT | 1 2 3 | 1 2 3 | 1 2 3 | 1 2 3 |
| CURRENT                              |      |      |      |      | 1 2 3 | 1 2 3 | 1 2 3 | 1 2 3 | S0 INPUT  | 1 2 3 | 1 2 3 | 1 2 3 | 1 2 3 |







GND

GND

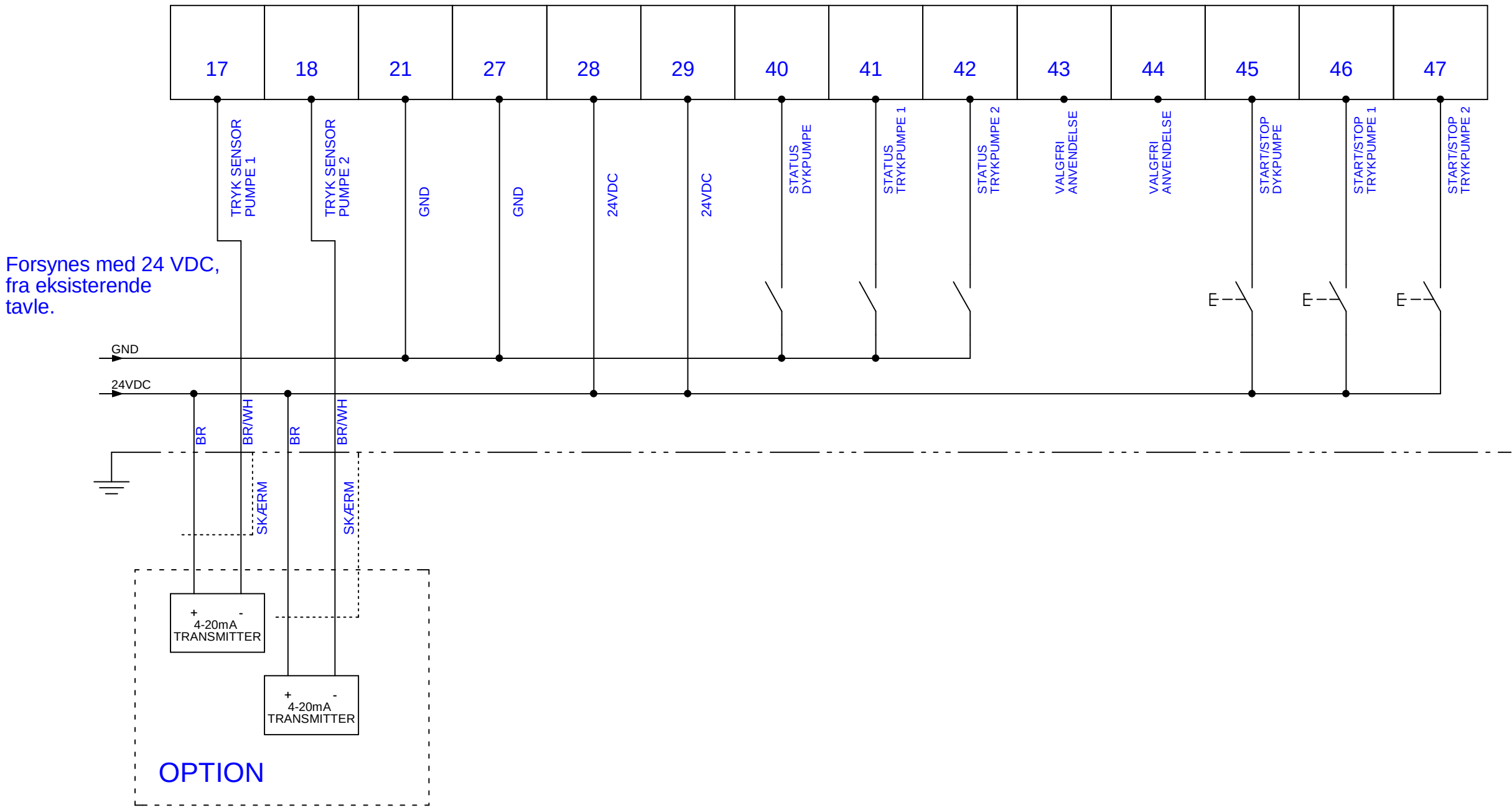


|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|

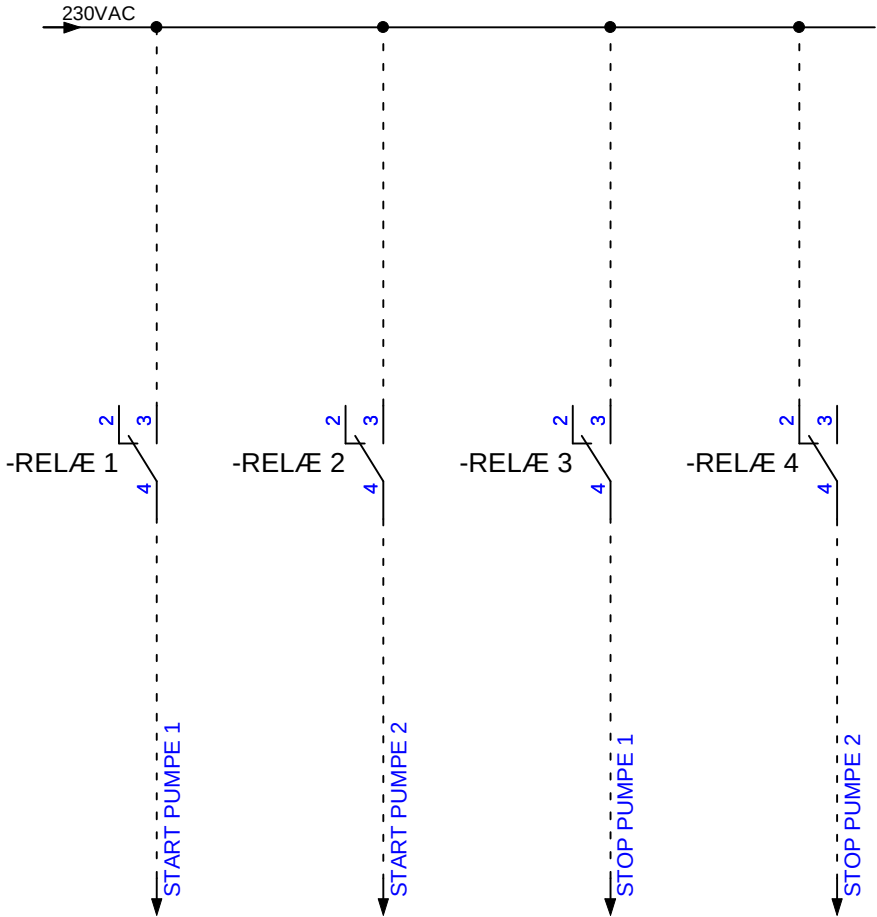
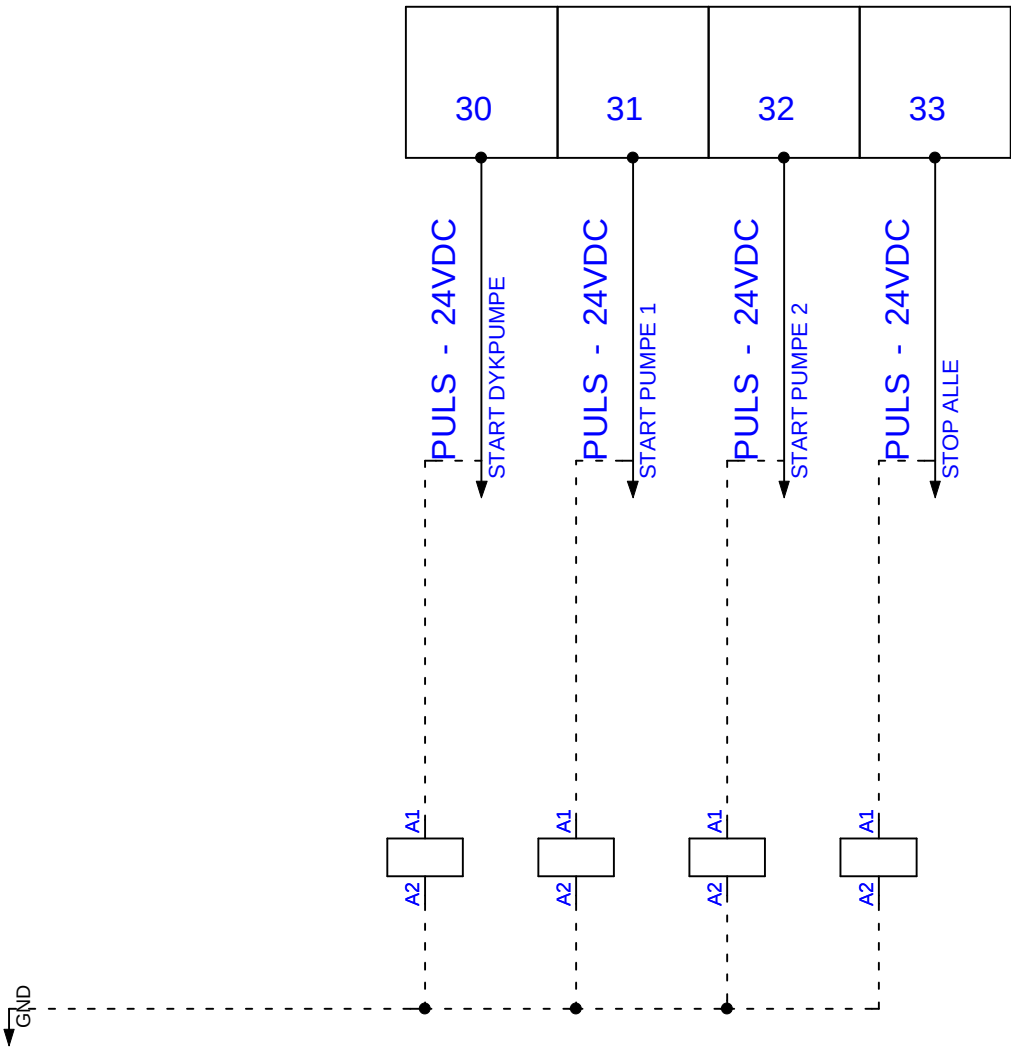
PROGRAM 2

S0 inputs  
40-43

PNP inputs  
44-47



PROGRAM 2



Eksempel hvis der ønskes NC funktion for stop pumpe. Monteres som vist ved RELÆ 4 Alternativt kan udgange i Vikmote ændres til NC.

Eksempel hvis der skal bruges anden styrespænding. Her er anvendt 230VAC.

|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|---------------------|----------------------------------------|------------------------|--|--|--|--|--------------------|--|----------|--|--|------------|---------------------------|--|--|
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
| Piece list                                                                                                                                                                                     | Pos. | EAN no. | Type                | Description                            | Manufacture            |  |  |  |  |                    |  |          |  |  | Quantity   |                           |  |  |
|                                                                                                                                                                                                | 1    |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  | 41         |                           |  |  |
|                                                                                                                                                                                                | 2    |         | VIKMOTE VX40 FLEX   | Vikmote VX40 Flex                      | Vikingegaarden         |  |  |  |  |                    |  |          |  |  | 1          |                           |  |  |
|                                                                                                                                                                                                | 3    |         | 1000153             | Antenne Vandal rund 2M, SMA(M)         | Vikingegaarden         |  |  |  |  |                    |  |          |  |  | 1          |                           |  |  |
|                                                                                                                                                                                                | 4    |         | VCF02               |                                        |                        |  |  |  |  |                    |  |          |  |  | 1          |                           |  |  |
|                                                                                                                                                                                                | 5    |         | VZ14                | PE-element til Vario V02-V2            | Telemecanique          |  |  |  |  |                    |  |          |  |  | 1          |                           |  |  |
|                                                                                                                                                                                                | 6    |         | ABL8RPS24030        | SM Strømforsyning24VDC 3A man/auto 1F  | Schneider Electric A/S |  |  |  |  |                    |  |          |  |  | 1          |                           |  |  |
|                                                                                                                                                                                                | 7    |         | A9F04206            | Automatsikring iC60N C 6A 2P           | Schneider Electric     |  |  |  |  |                    |  |          |  |  | 1          |                           |  |  |
|                                                                                                                                                                                                | 8    |         | WSI 6 10 36V 101223 | Sikringsklemme skrue/skrue10-36V DC/AC | Weidmüller             |  |  |  |  |                    |  |          |  |  | 1          |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|                                                                                                                                                                                                |      |         |                     |                                        |                        |  |  |  |  |                    |  |          |  |  |            |                           |  |  |
|  <b>Vikingegaarden A/S</b><br>Tinnetvej 70<br>DK-7173 Vonge<br>Tel: +45 75 803 960<br>www.vikingegaarden.com |      |         |                     | Customer:                              |                        |  |  |  |  | Project Nr: 101048 |  |          |  |  |            | Project start: 28-05-2015 |  |  |
|                                                                                                                                                                                                |      |         |                     | Location:                              |                        |  |  |  |  | Page Ref:          |  |          |  |  |            | Date: 03-08-2015          |  |  |
|                                                                                                                                                                                                |      |         |                     | Project: FlexVander VX40 P2            |                        |  |  |  |  |                    |  | Init: TT |  |  | Page: 1550 |                           |  |  |