

PLC

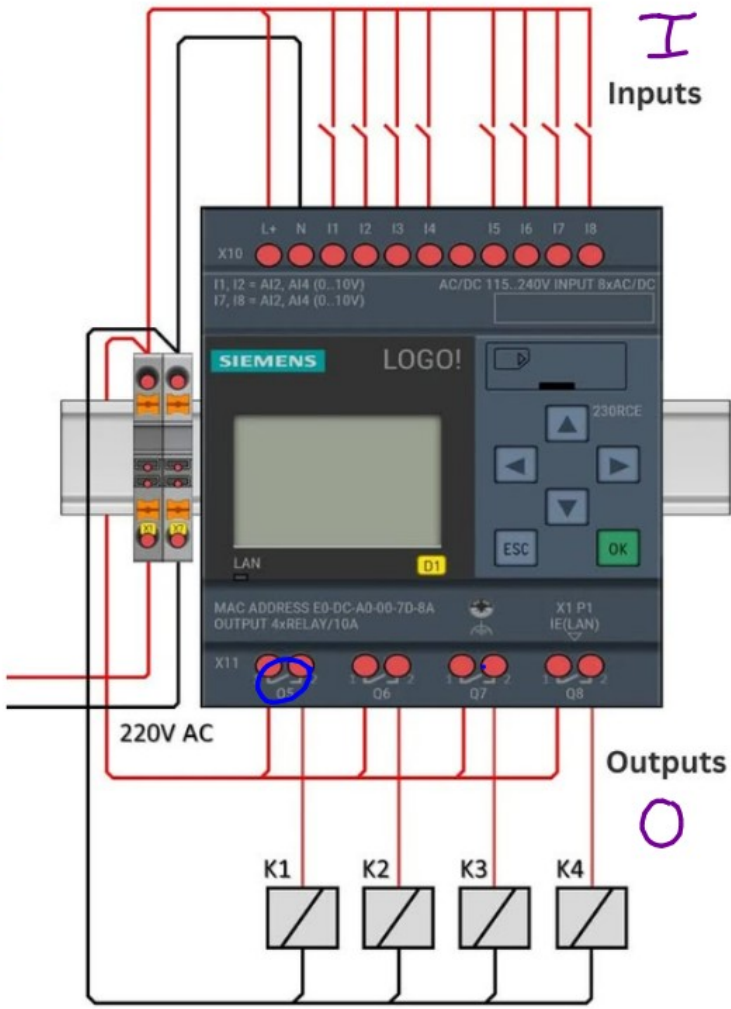


PLC
Programmable Logic Controller

I/O

I1 - I8

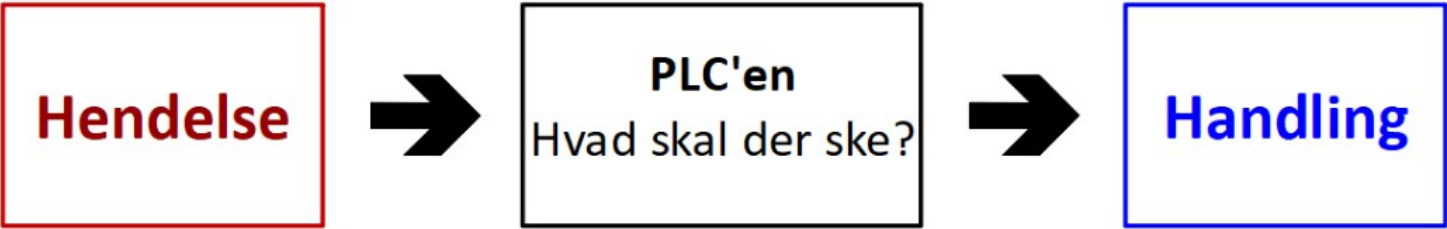
Q1 - Q4



I
Inputs

O
Outputs

PLC
Programmable Logic Controller



HØJT VANDSTAND

LAV VANDSTAND

HØJT VAND + ALARM

PROGRAMMET
FOR
HANDLINGERNE

STARTER PUMPE

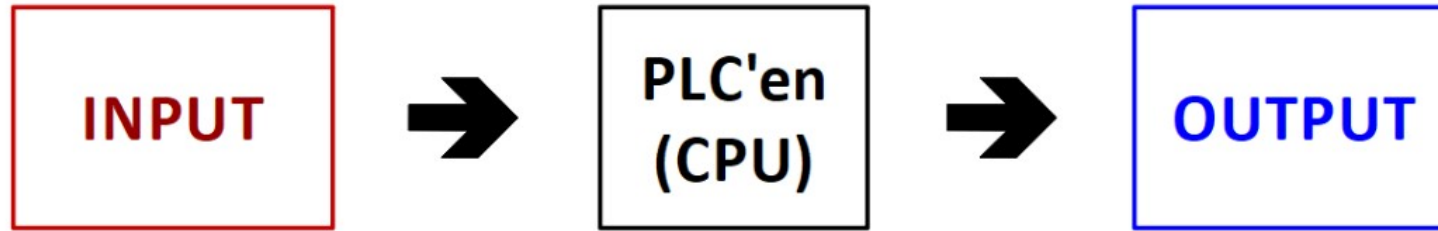
STOPPER PUMPE

STARTER PUMPE
STARTER SIRENE
ELLER LAMPE



PLC

Programmable Logic Controller



LOGIK

NIVEAU FØLER
BLIVE PÅVINKET $\rightarrow I1$

= $I1$ ER HØJ

$\Rightarrow Q1$ BLIVEN HØJ
(PUMPEN)

NIVEAU FØLER
ER TIL BAGE I $\rightarrow I1$
UDGANGS POSITION

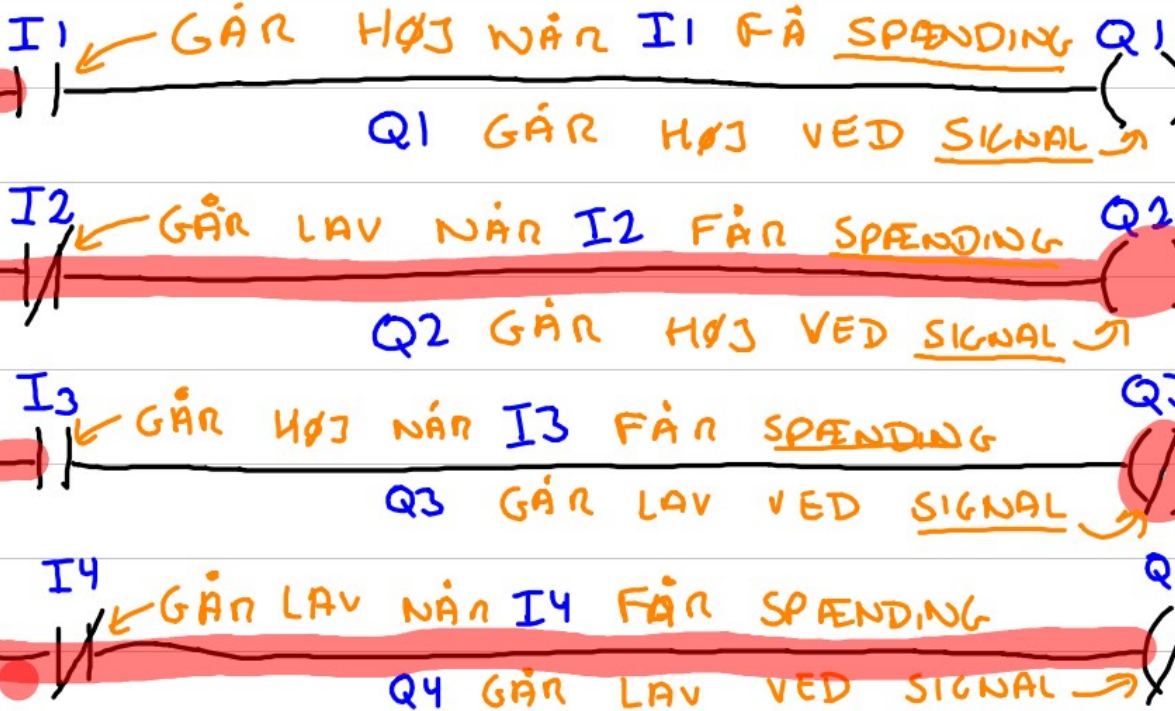
= $I1$ ER LAV

$\Rightarrow Q1$ GÅR LAV IGEN!



PLC

Ladderdiagram



I1 STARTER Q1.
(SÆTTER)

NÅR I2 ER
HØJ, ER Q2 LAV.

NÅR I3 ER
LAV, ER Q3 HØJ.

I4 SÆTTER Q4

Standard symboler (Instructions)

Make contact



Break contact



Relay coil



Inverted output



Andre funktioner



Kommentar
Bevævnelse

Instructions
Info (f.eks. tid)

PLC

Logik blokke

Standard Gates

— Forbindelse

▷ Buffer

● Invatering

▷ NOT

And Gates

AND

NAND

Or Gates

OR

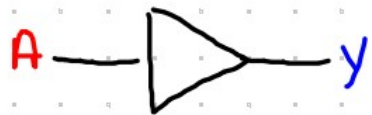
NOR

Exclusive Or Gates

XOR

NXOR

IN BUFFER OUT



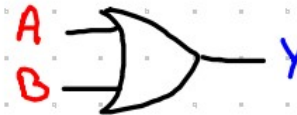
(BLIVER IKKE RIGTIGT BRUGT)
Y ER DE SANNE SON A

AND-GATE



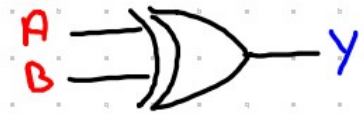
A OG B
SÆTTER Y

OR-GATE



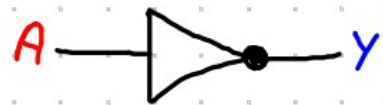
A OG/ELLER B
SÆTTER Y

XOR-GATE



A ELLER B
SÆTTER Y

NOT-GATE



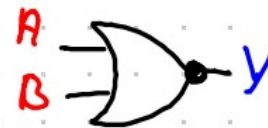
Y ER MODSAT A

NAND-GATE



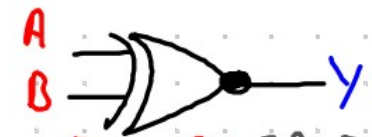
A OG B
SLUKKER Y

NOR-GATE



Y ER SAT, HVIS
A OG/ELLER B ER HØJ

NXOR-GATE



HVIS A OG B ER ENS
SÆTTER Y

PLC

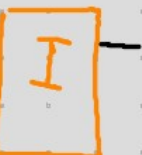
Logik blokke
i LOGO
software

Standard Gates

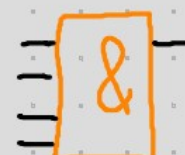
— Forbindelse

● Invatering

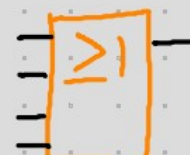
"FUNKTIONS BLOKKE"



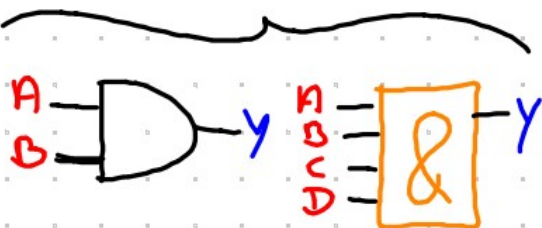
AND Gates



OR Gates



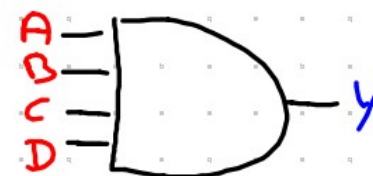
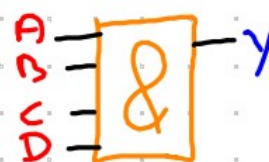
AND-GATE



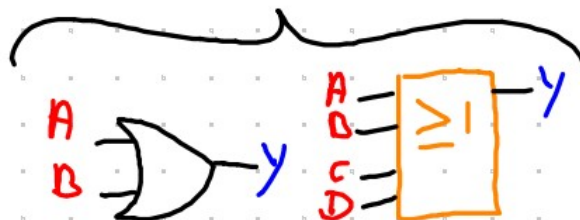
NAND-GATE



AND-GATE MED 4 INPUTS



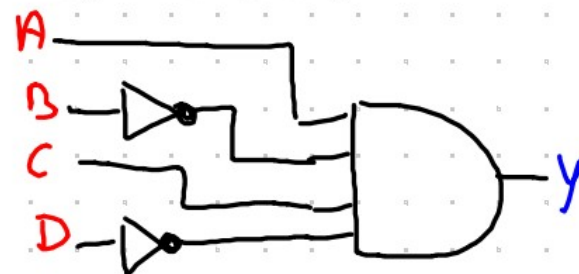
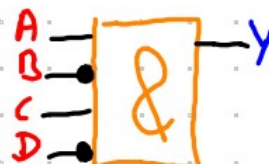
OR-GATE



NOR-GATE



AND BLOK HVOR NOGLE INPUTS ER INVATERET



PLC

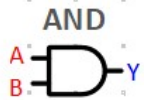
Sandhedstabel



A	Y
0	0
1	1



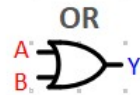
A	Y
0	1
1	0



A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1



A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0



A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1



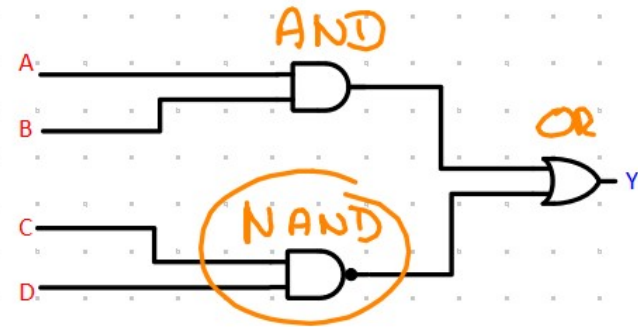
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0



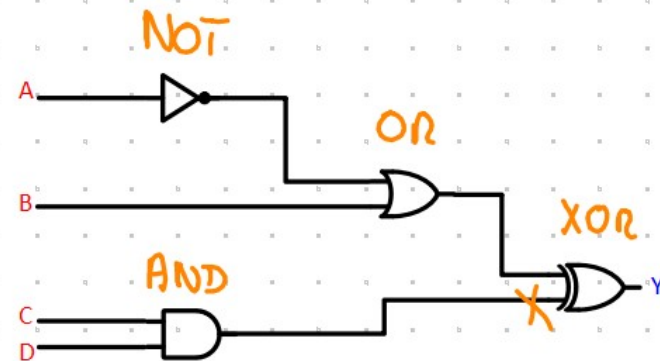
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0



A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

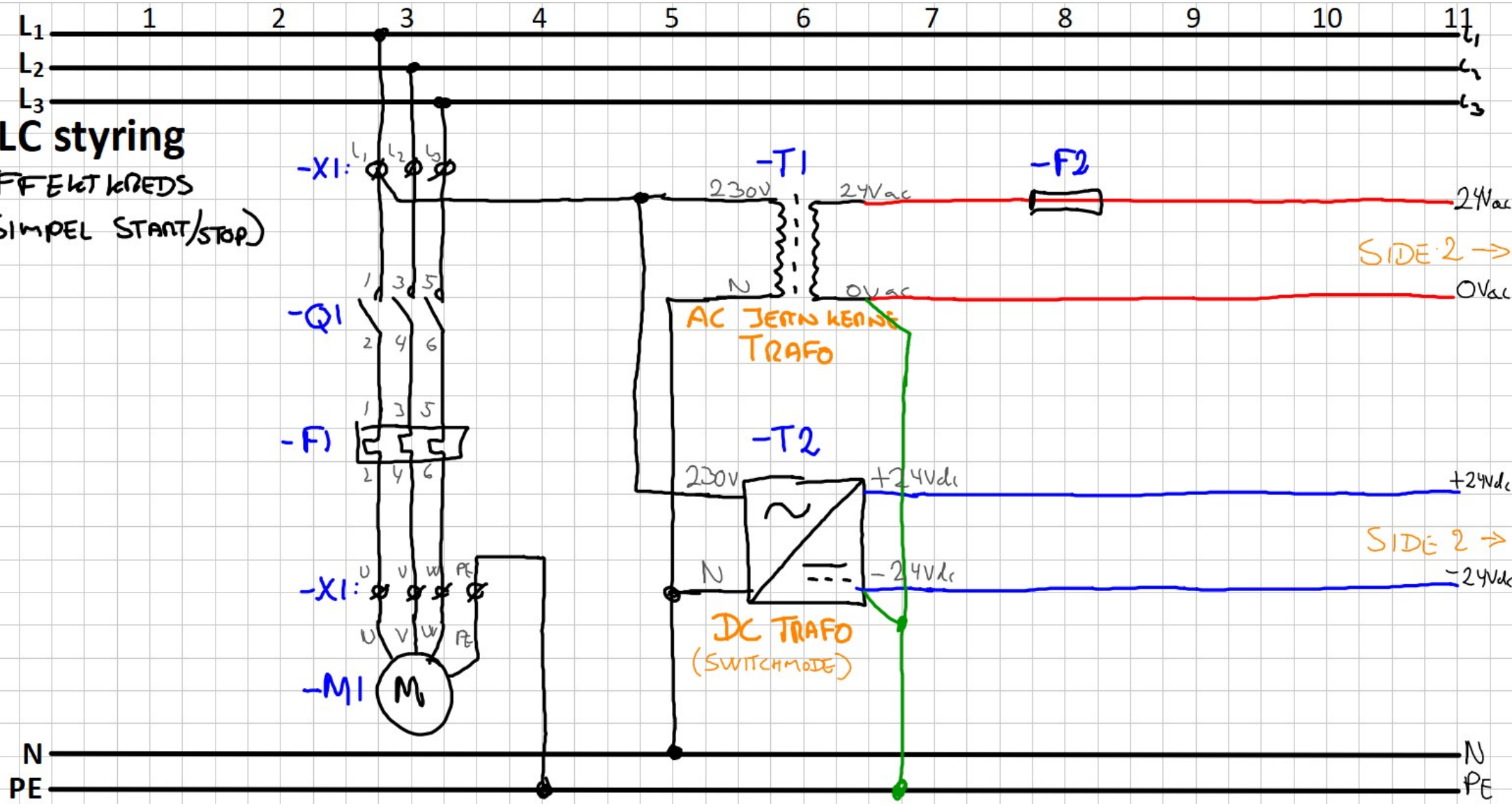


A	B	C	D	Y
0	0	1	0	0
0	0	0	1	0
0	1	1	0	0
0	1	0	1	0
1	0	1	0	0
1	0	0	1	0
1	1	1	0	0
1	1	0	1	0



A	B	C	D	Y
0	0	1	0	1
0	0	0	1	1
0	1	1	0	1
0	1	0	1	1
1	0	1	0	0
1	0	0	1	0
1	1	1	0	0
1	1	0	1	0

PLC styring
EFFEKT KREDS
(SIMPEL START/STOP)

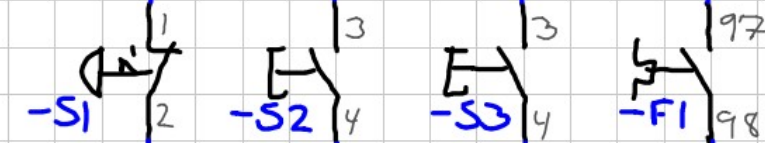




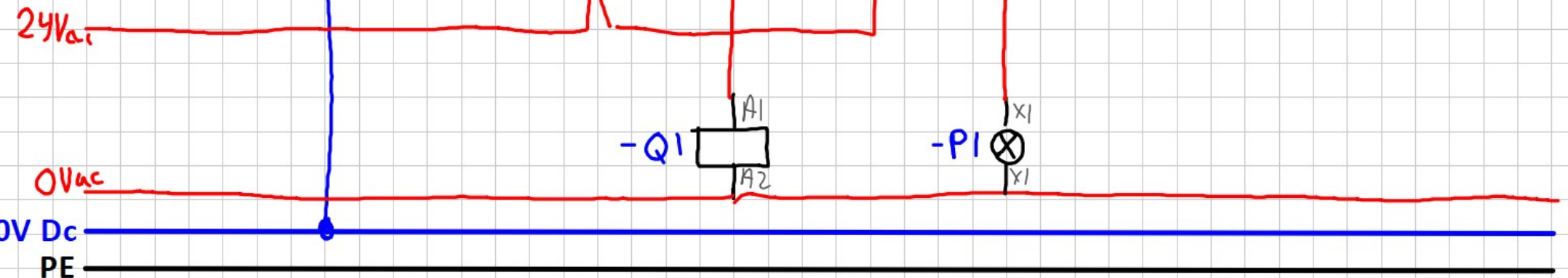
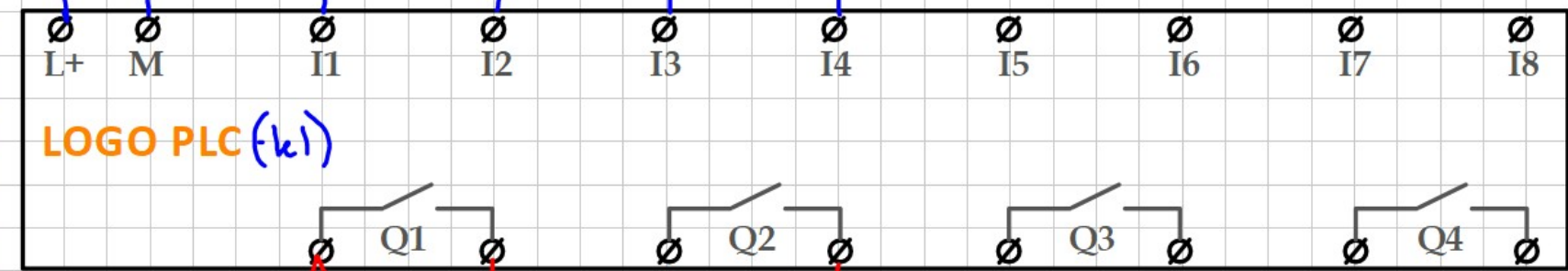
PLC styring

Styrekreds
Simpel start/stop

! FOR SIMPLET !
GRUNDET GF2



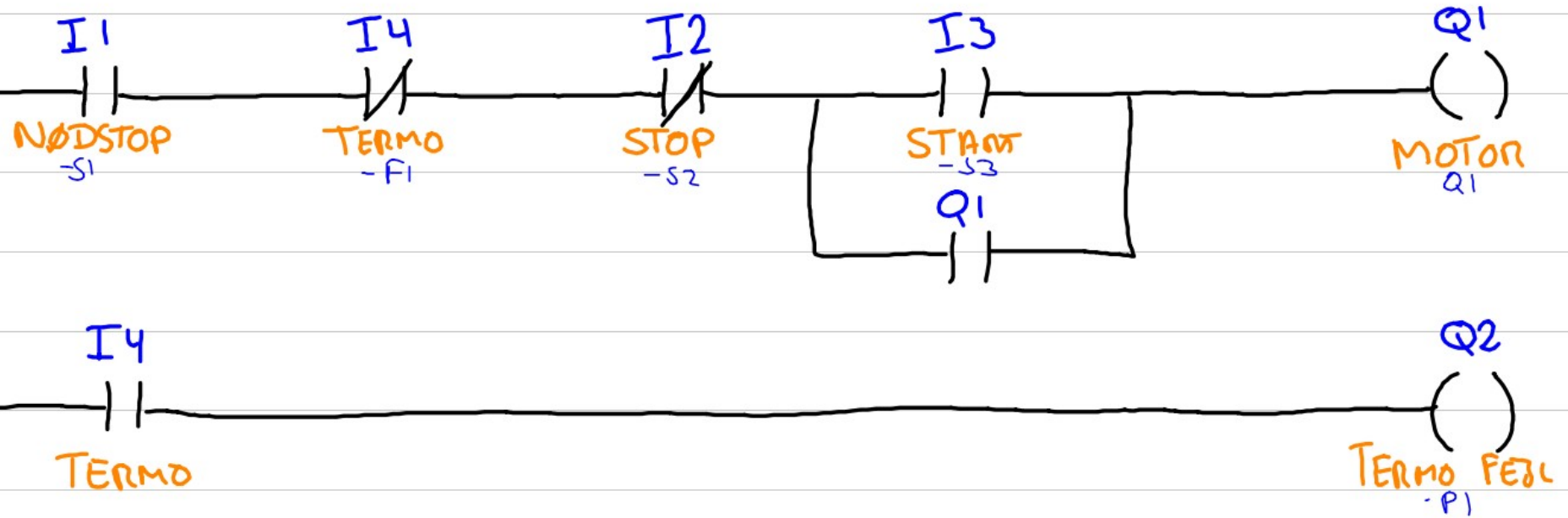
-kl



PLC styring

Ladderdiagram

Simpel Start/Stop



PLC styring

Logik blokke

Simpel Start/Stop

