



VERHULST KLIMAATTECHNIEK B.V.

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Project : VKT Basic
Bouwworm : W
Bouwgrootte : 240 / 300
Aansluitspanning : 3x400VAC+N+PE
Tekeningnummer : VKT-rs
Versie 4.1.6

DRAADKLEUREN:

| | |
|--|-------------|
| - HOOFDSTROOM FASEN: | ZWART |
| - HOOFDSTROOM NUL: | LICHTBLAUW |
| - STUURSTROOM 230V FASE: | BRUIN |
| - STUURSTROOM 230V GESCHAKELD: | ZWART |
| - STUURSTROOM 230V NUL: | LICHTBLAUW |
| - AARDE: | GROEN/GEEL |
| - 24VAC EN LAGER: | GROEN |
| - 0VAC: | WIT |
| - SCHAKELDRAAD AC: | GROEN |
| - 24VDC EN LAGER: | GEEL |
| - 0VDC: | WIT |
| - SCHAKELDRAAD DC: | DONKERBLAUW |
| - 0-10V(SIGN. IN/UIT, TEMP. OPNEMERS): | PAARS |
| - VREEMDE SPANNING: | ROOD |

LAATSTE WIJZIGING: 09/07/2024

BELANGRIJKE OPMERKINGEN:

* LET OP, IN DE SCHAKELKAST IS EEN GEVAARLIJKE ELEKTRISCHE SPANNING AANWEZIG !!

* DE SCHAKELKAST IS ALLEEN TOEGANGELIJK VOOR EEN DESKUNDIG PERSOON OF EEN VOLDOENDE ONDERRICHT PERSOON.

- DESKUNDIG PERSOON : EEN ELEKTROTECHNISCH VAKBEKWAAM PERSOON, MET VOLDOENDE ERVARING OM ELEKTROTECHNISCHE GEVAREN TE VERMIJDEN. BIJVOORBEELD: INSTALLATEUR/SERVICEMONTEUR

- VOLDOENDE ONDERRICHT PERSOON : EEN ELEKTROTECHNISCH NIET-VAKBEKWAAM PERSOON, MAAR VOLDOENDE ONDERRICHT OM BIJ ZIJN HANDELINGEN ELEKTROTECHNISCHE GEVAREN TE VERMIJDEN. BIJVOORBEELD: EINDGEBRUIKER

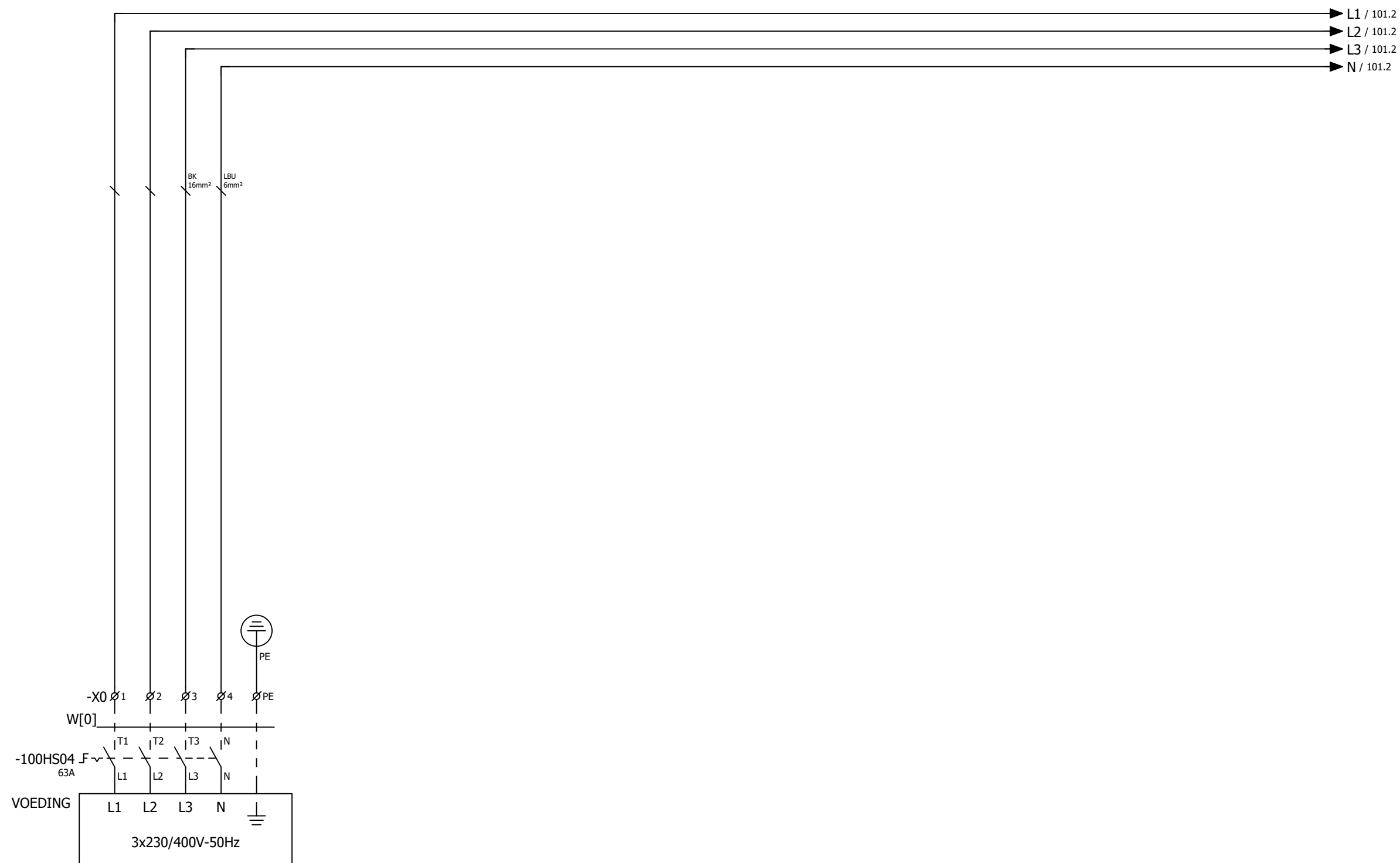
- MOGELIJKE HANDELINGEN : RESETTEN VAN - MOTORBEVEILIGINGSSCHAKELAARS
- INSTALLATIEAUTOMATEN
- AARDLEKSCHELAARS (EN TESTEN)

OPM: AARDLEKSCHELAARS DIENEN MINIMAAL 1X PER MAAND TE WORDEN GETEST!

INHOUDSOPGAVE

| PAGINA | OMSCHRIJVING | REVISIE |
|--------|---|---------|
| 1 | TITELBLAD | |
| 2 | OPMERKINGEN | |
| 3 | INHOUDSOPGAVE | |
| 10 | SYMBOOL VERKLARING | |
| 100 | HOOFDSTROOM VOEDING | |
| 101 | HOOFDSTROOM TOEVOER-VENTILATOR | |
| 102 | HOOFDSTROOM RETOUR-VENTILATOR | |
| 103 | HOOFDSTROOM WARMTEWIEL | |
| 105 | HOOFDSTROOM STUURSTROOM | |
| 251 | STUURSTROOM REGIN CONTROLLER | |
| 252 | STUURSTROOM ANALOGE INGANGEN | |
| 253 | STUURSTROOM ANALOGE INGANGEN | |
| 254 | STUURSTROOM DIGITALE INGANGEN | |
| 255 | STUURSTROOM DIGITALE INGANGEN | |
| 257 | STUURSTROOM ANALOGE UITGANGEN | |
| 258 | STUURSTROOM DIGITALE UITGANGEN | |
| 259 | STUURSTROOM DIGITALE UITGANGEN | |
| 260 | STUURSTROOM DIGITALE UITGANGEN | |
| 261 | STUURSTROOM REGIN CONTROLLER COMMUNICATIE | |
| 500 | KLEMMENAANSLUITLIJST | |
| 501 | KLEMMENAANSLUITLIJST | |
| 502 | KLEMMENAANSLUITLIJST | |
| 503 | KLEMMENAANSLUITLIJST | |
| 600 | STEKERAANSLUITLIJST | |
| 601 | STEKERAANSLUITLIJST | |
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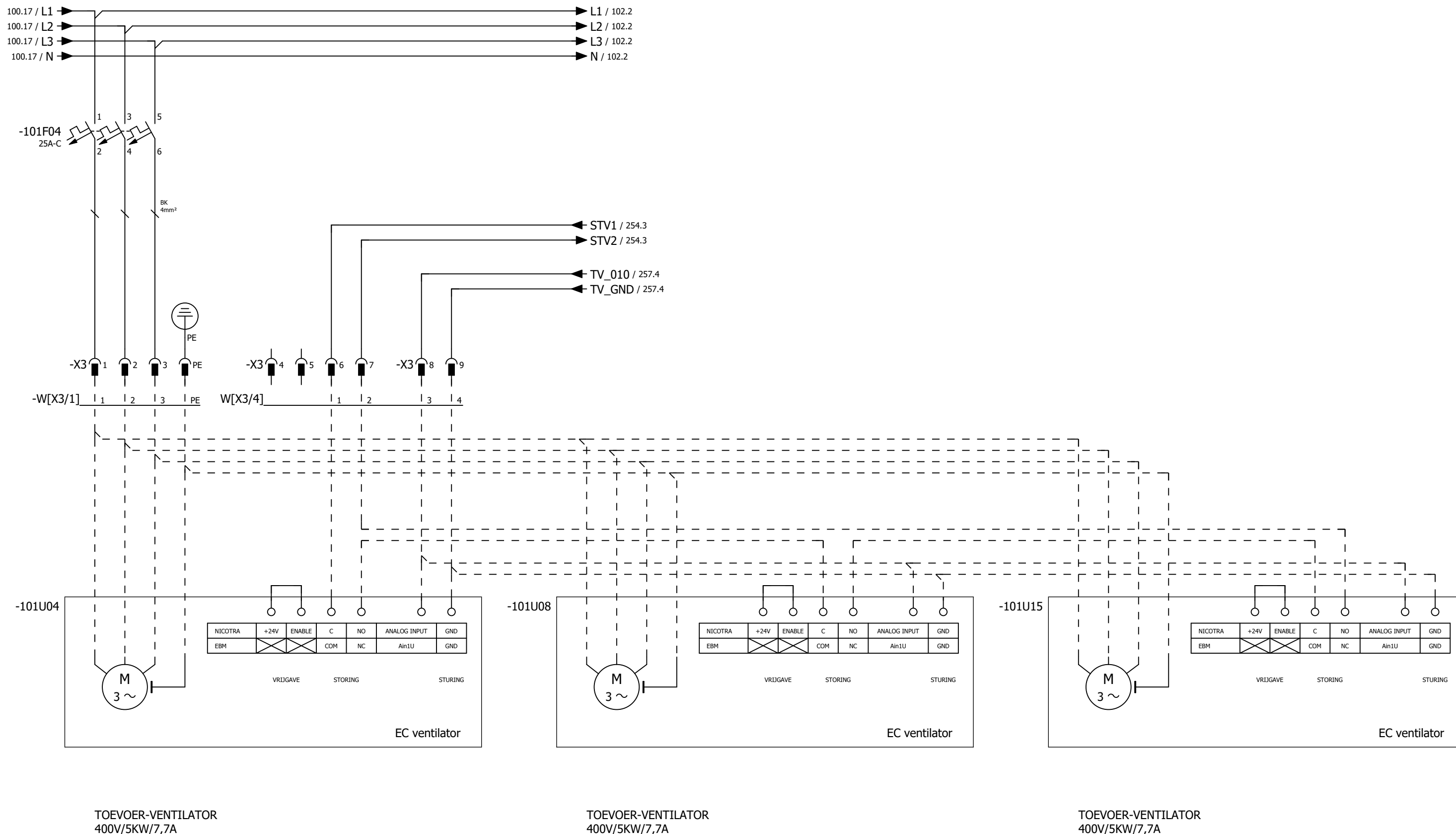
| SYMBOOL | OMSCHRIJVING | SYMBOOL | OMSCHRIJVING |
|---------|---|---------|---|
| | HULPRELAIS | | VERBREEKCONTACT BEDIEND DOOR DRUK |
| | MAGNEETSCHAKELAAR | | MOTOR 3-FASE MET 6 AANSLUITINGEN (STER/DRIEHOEK) |
| | RELAIS MET OPKOM- EN AFVALVERTRAGING | | MOTOR 3-FASE |
| | HOOFDSCHAKELAAR | | VERLICHTING |
| | MOTORBEVEILIGINGS- SCHAKELAAR | | KLOK |
| | INSTALLATIE-AUTOMAAT | | SERVO MOTOR |
| | TRANSFORMATOR | | SCHAKELAAR |
| | WCD | | VENTIEL |

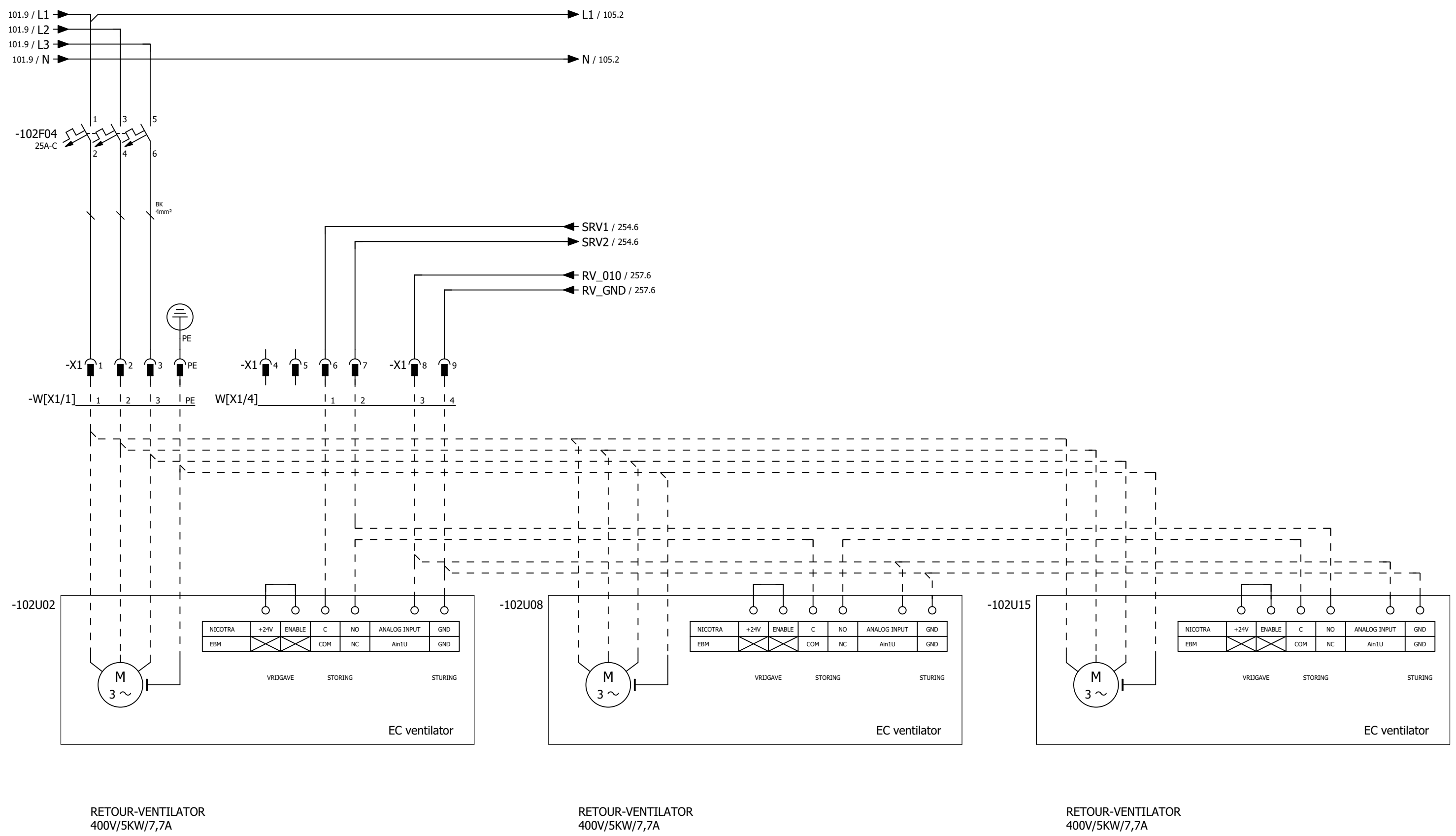


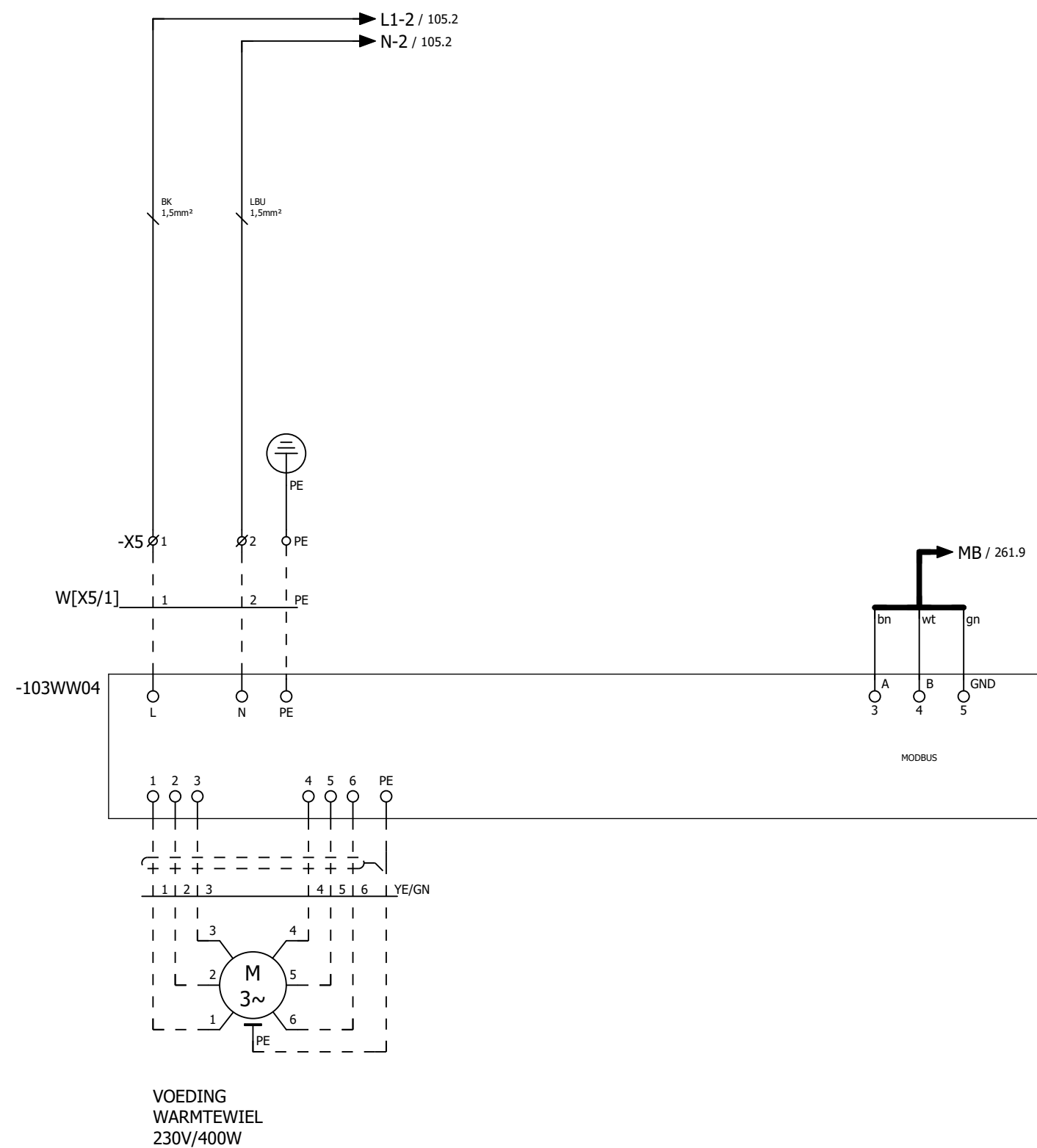
MAXIMALE VOORBEVEILIGING 63A

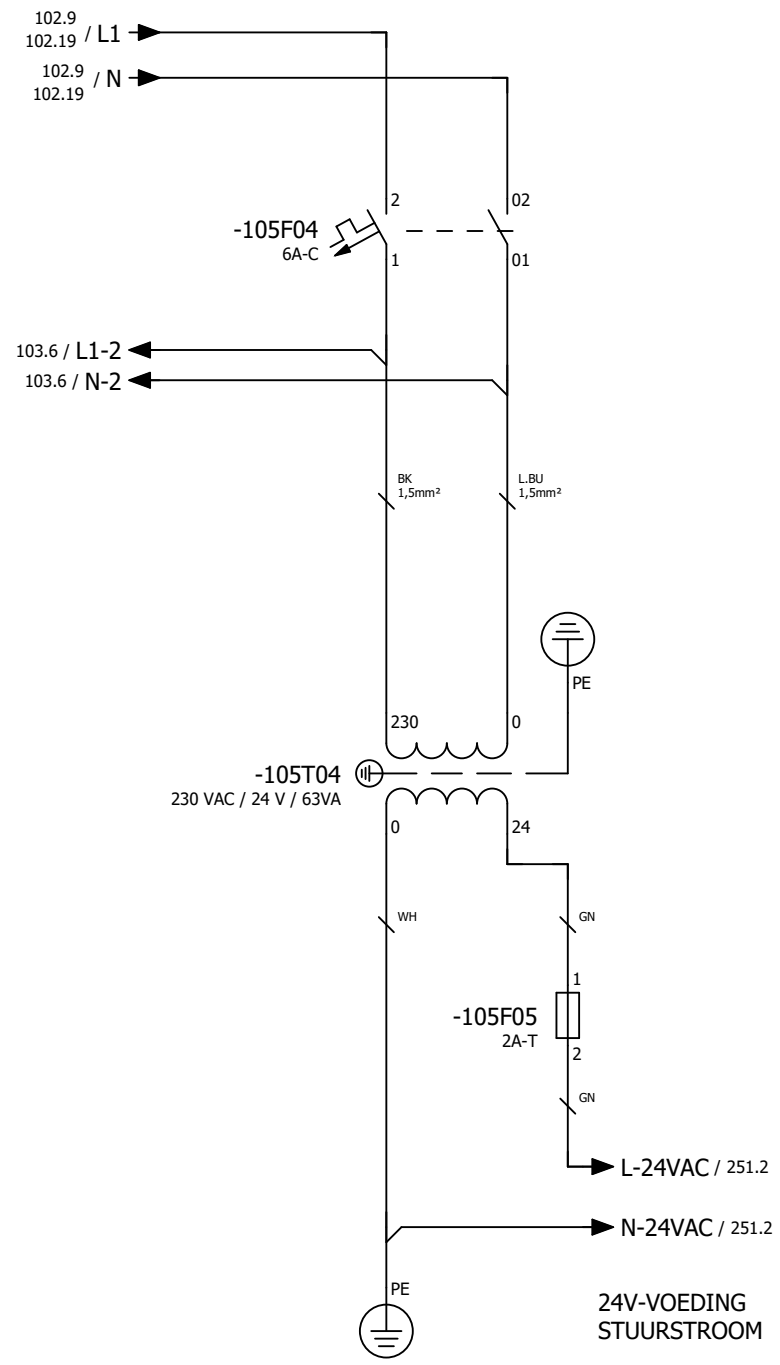
VOEDING
3x400V-50Hz

- X0 = VOEDING
- X1 = RETOURSECTIE
- X3 = TOEVOERSECTIE
- X5 = WARMTEWIEL
- X9 = EXTERNE SIGNALEN
- X10 = EXTERNE SIGNALEN



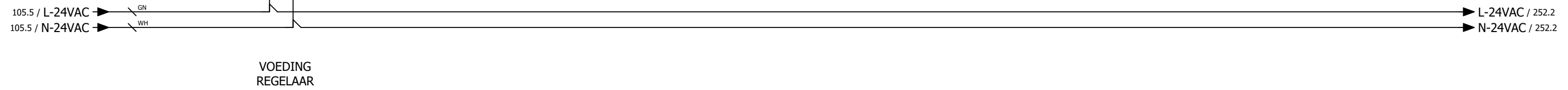
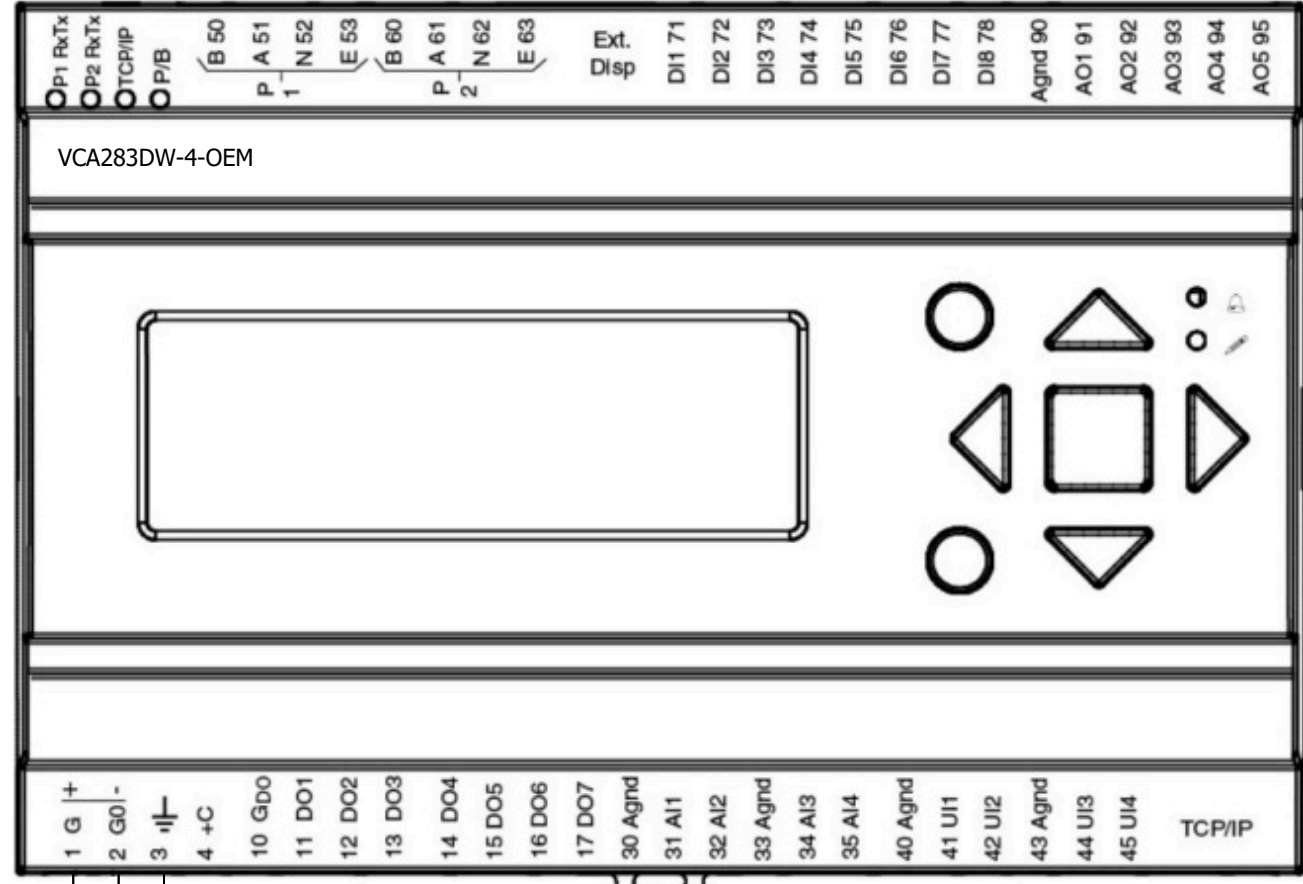


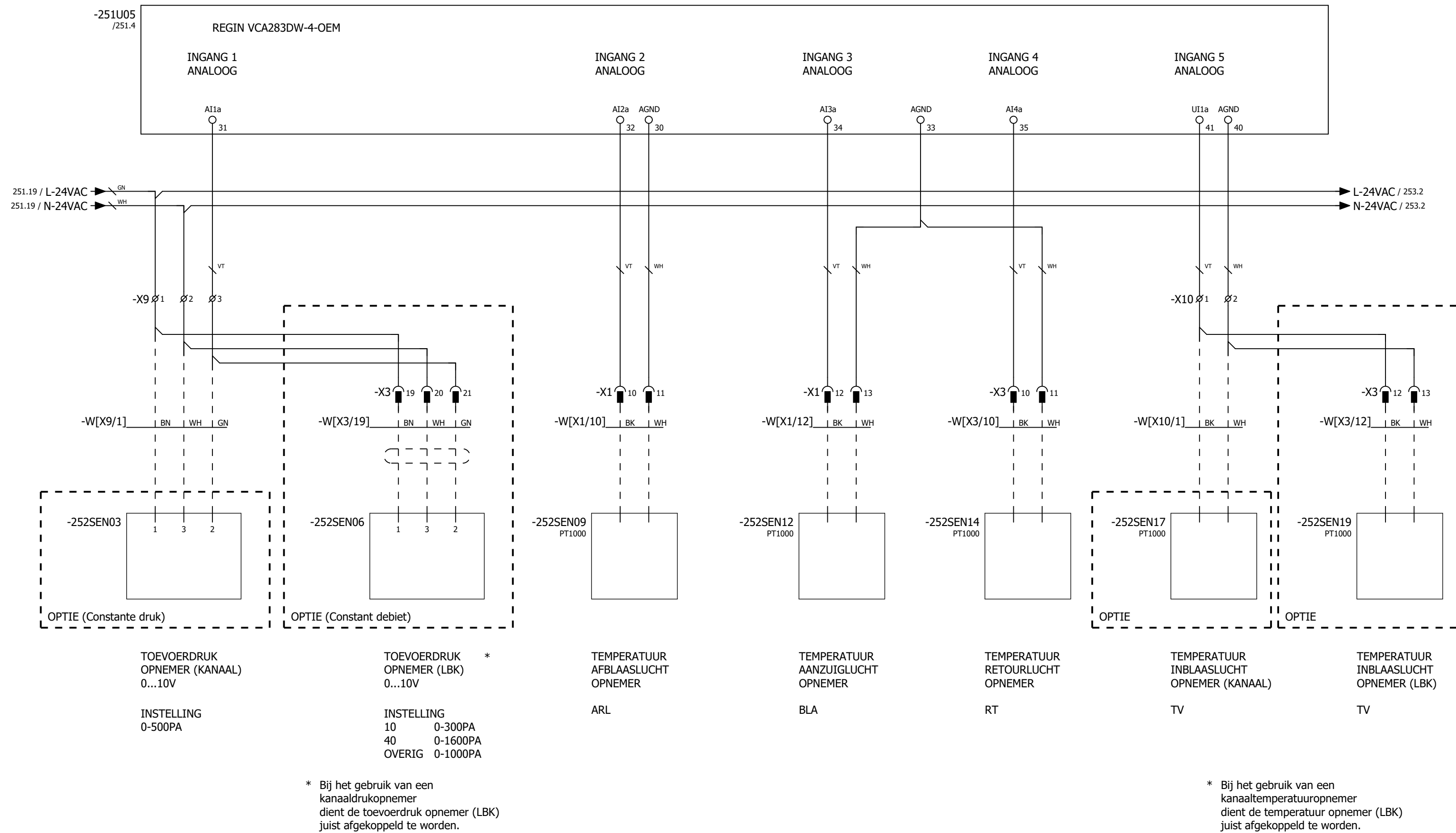


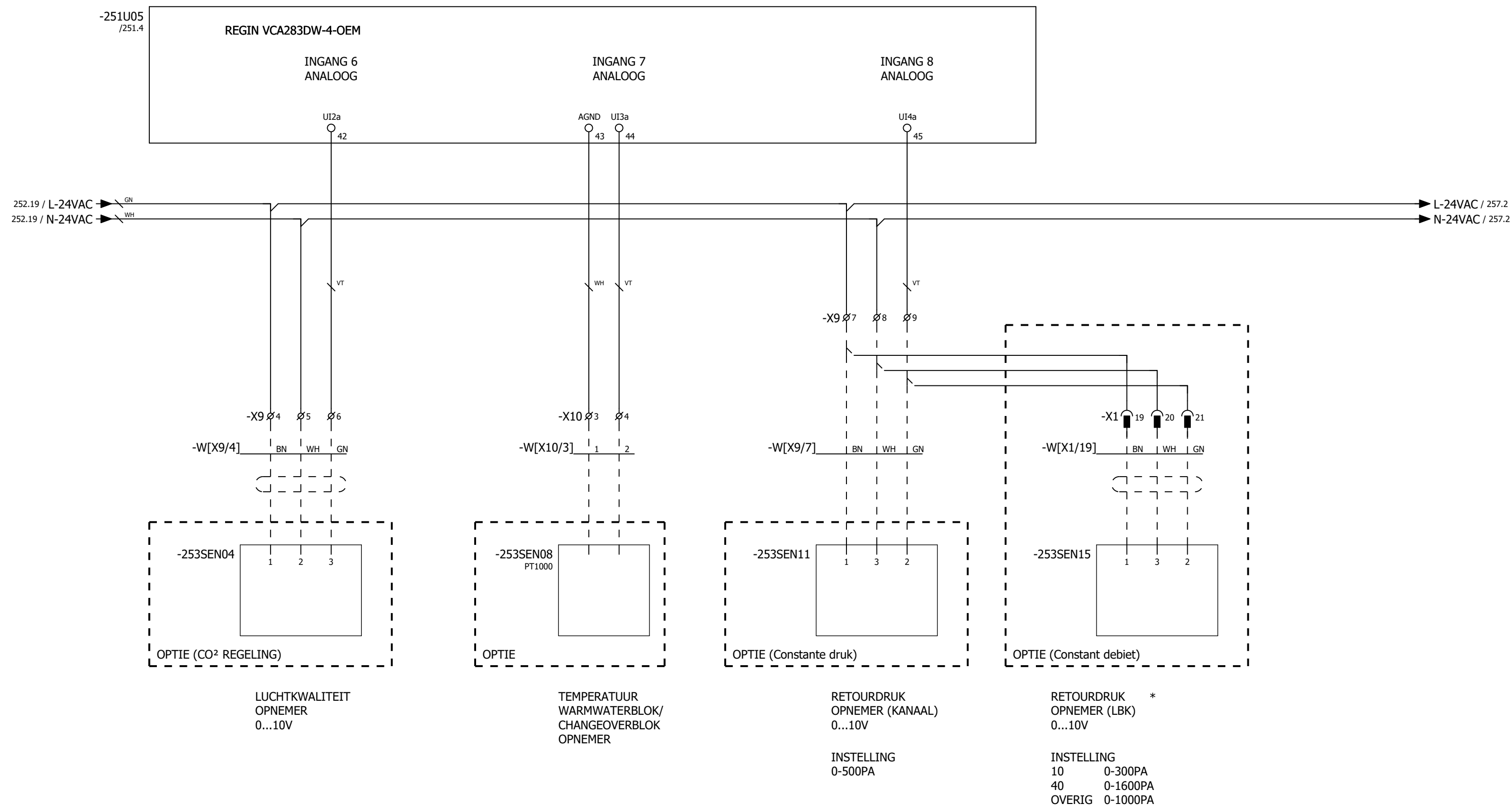


LENGTE KABEL <10M. : TELEFOON KABEL
 LENGTE KABEL 10-100M. : AWG24 AFGESCHERMDE
 KABEL TWISTED PAIR
 OPTIE EXTRA DISPLAY

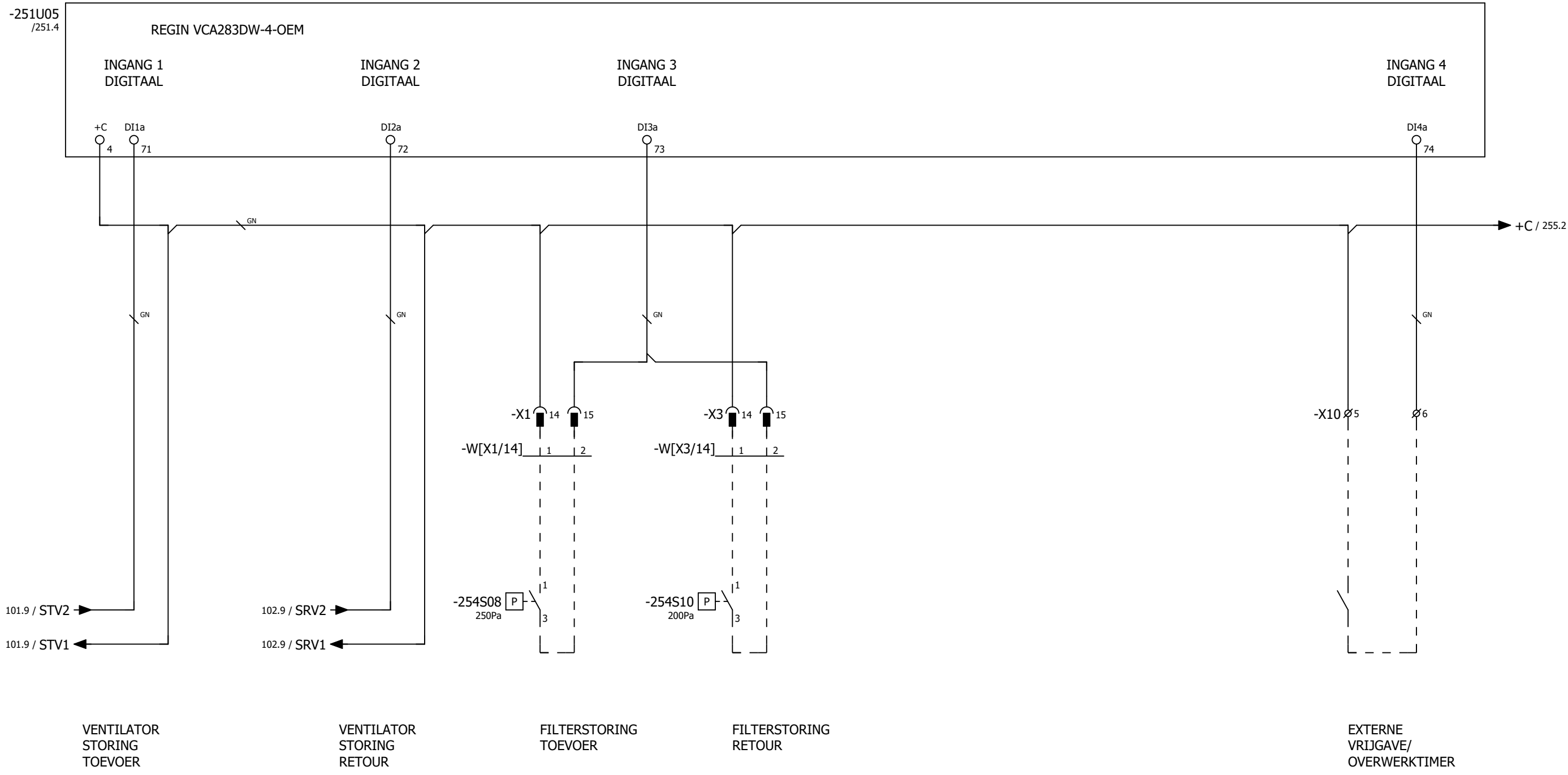
-251U05
 /252.3
 /253.3
 /254.3
 /255.3
 /257.3
 /258.3
 /261.3

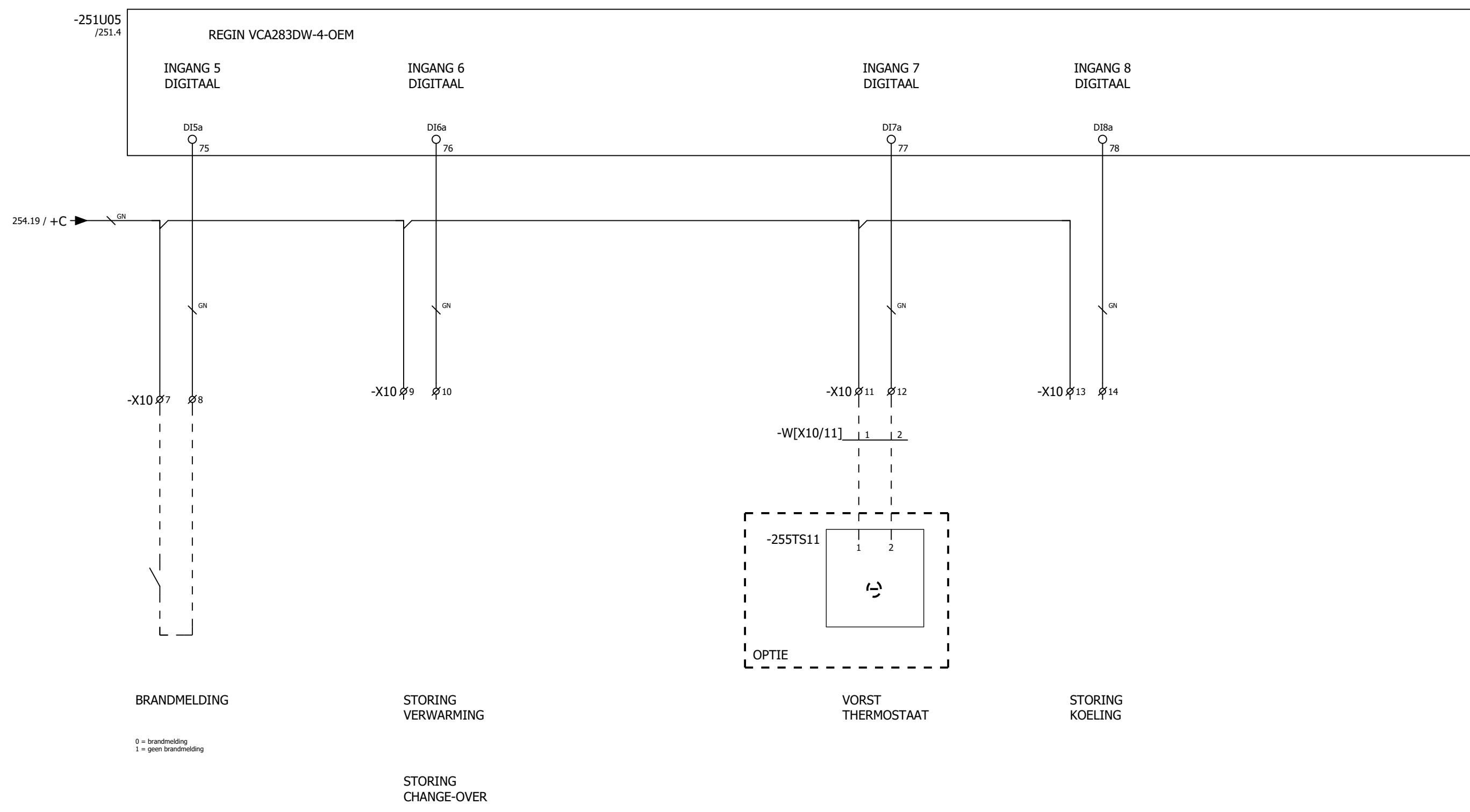


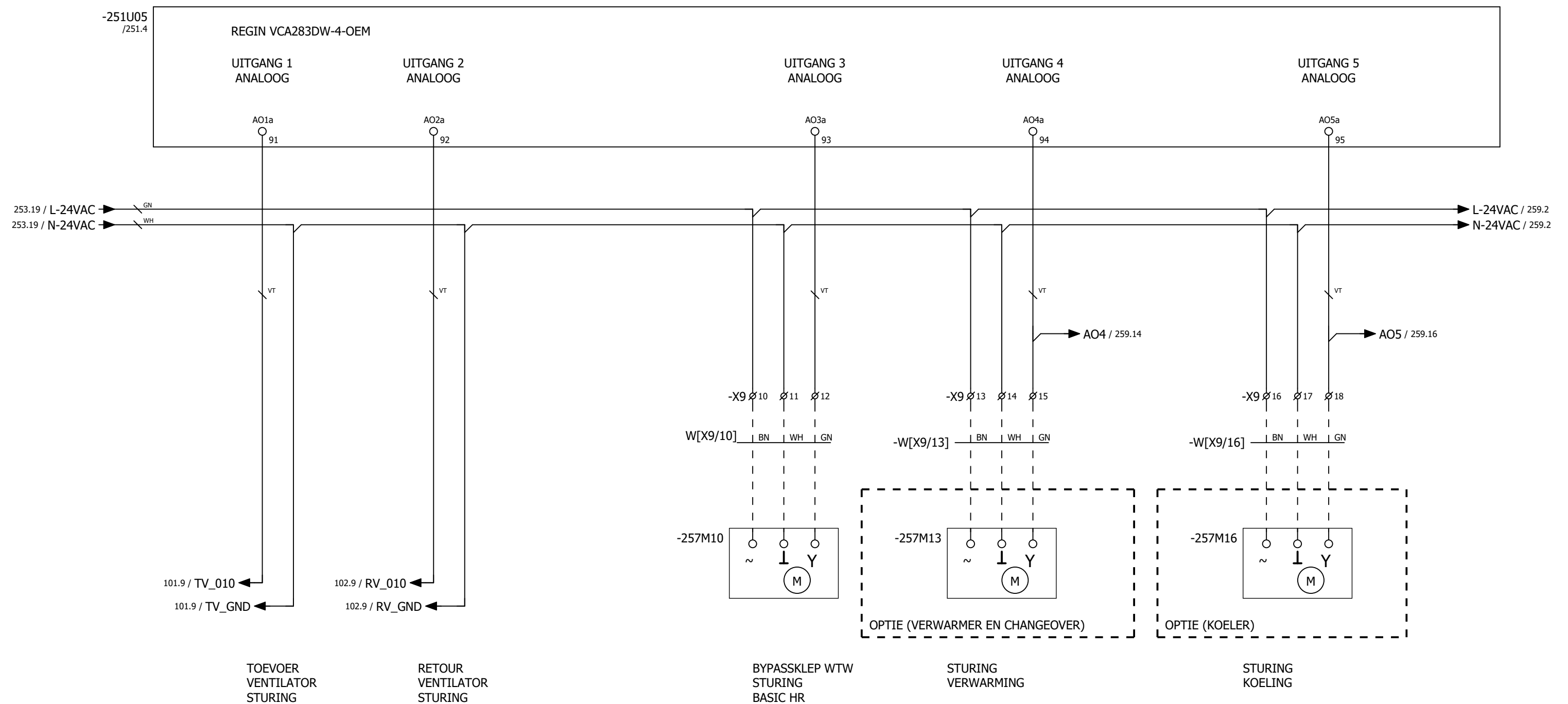


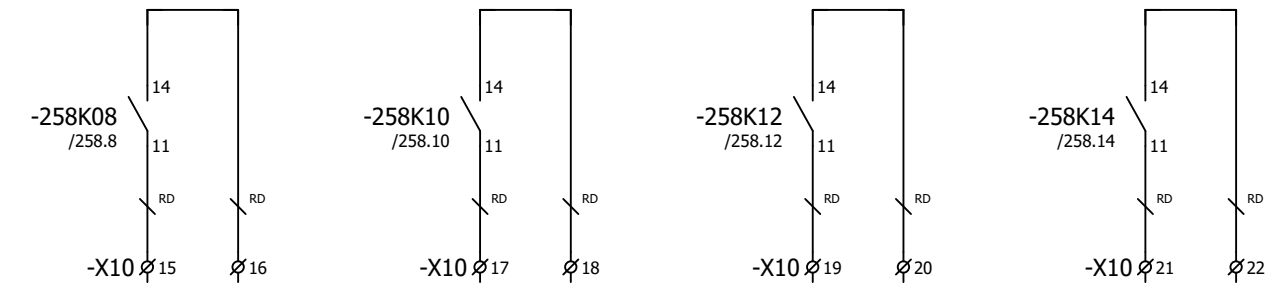
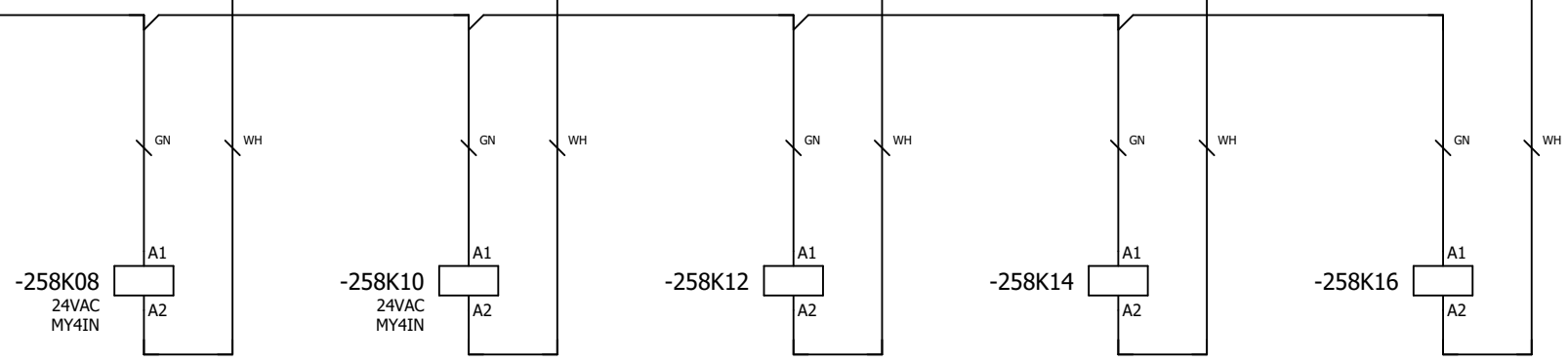
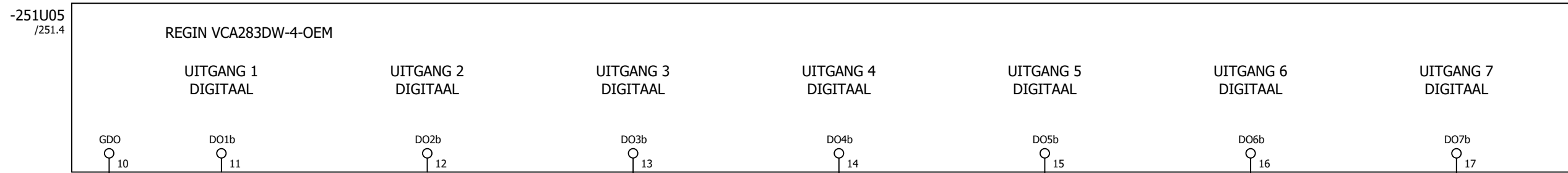


* Bij het gebruik van een kanaaldrukopnemer dient de retourdruk opnemer (LBK) juist afgekoppeld te worden.



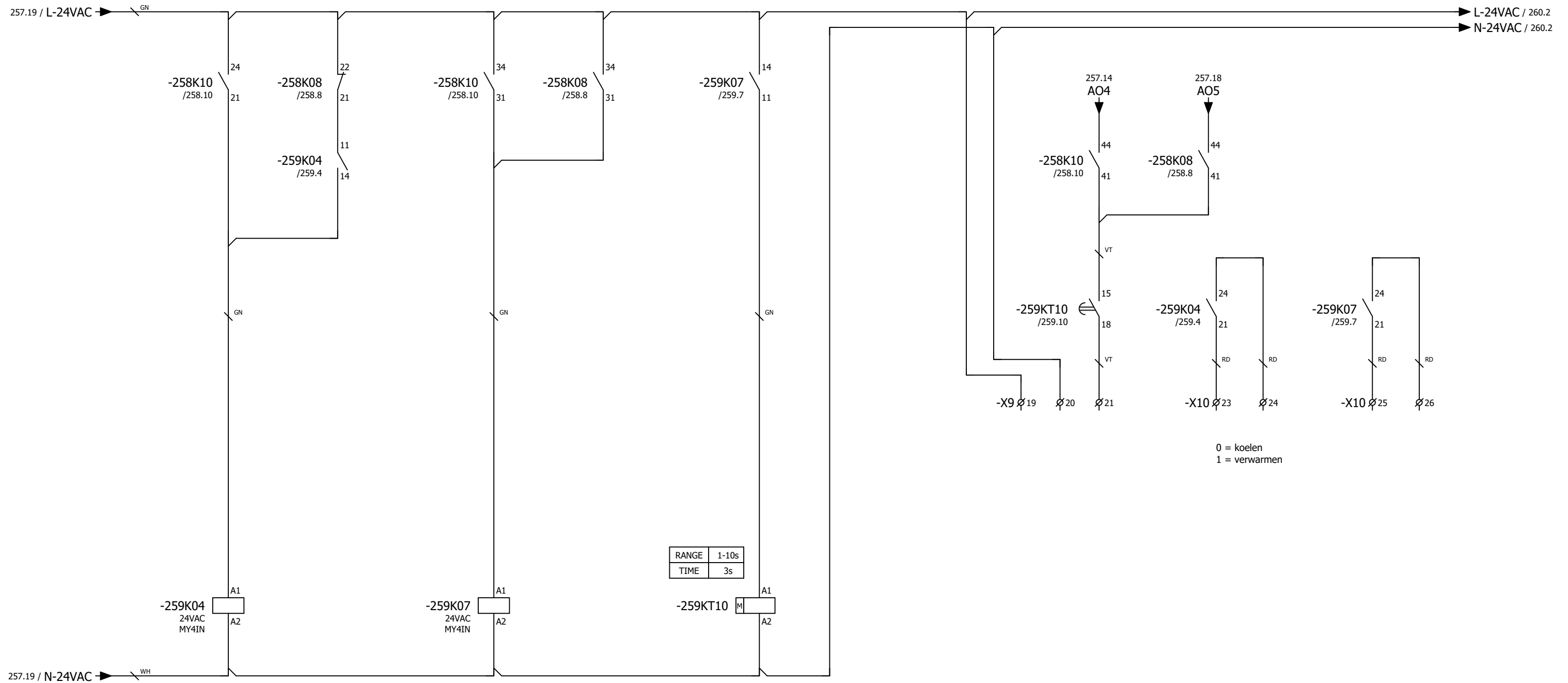






RESERVE RESERVE VRIJGAVE KOELING VRIJGAVE VERWARMING ALGEMENE STORINGSMELDING UNIT STATUS VRIJGAVE KLEPPENREGISTERS

| | | | | | | | | | |
|--------------------------|-----------|----------------------------------|----|------------|----|------------|----|-----------|----|
| NO /258.8 /259.8 /259.16 | NC /259.5 | NO /258.10 /259.4 /259.7 /259.14 | NC | NO /258.12 | NC | NO /258.14 | NC | NO /260.4 | NC |
|--------------------------|-----------|----------------------------------|----|------------|----|------------|----|-----------|----|



| | |
|-------|-------|
| RANGE | 1-10s |
| TIME | 3s |

KOELEN / VERWARMEN
CHANGE-OVER

| | |
|--------|---------|
| NO | NC |
| /259.5 | /259.16 |

VRIJGAVE
CHANGE-OVER

| | |
|---------|---------|
| NO | NC |
| /259.10 | /259.18 |

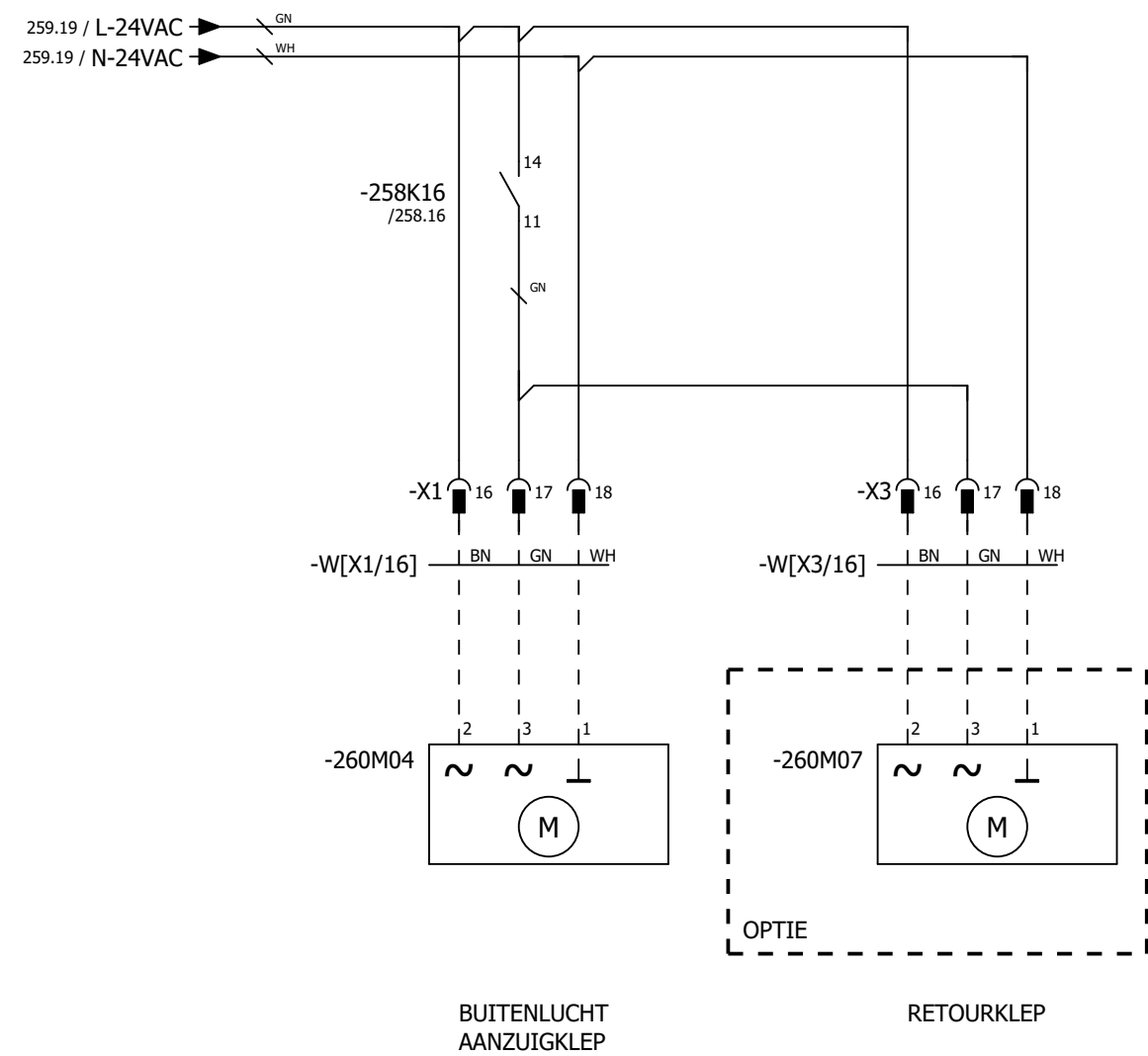
VRIJGAVE
STUURSIGNAAL
CHANGE-OVER

| | |
|---------|----|
| NO | NC |
| /259.14 | |

STURING
CHANGE-OVER
0...10V

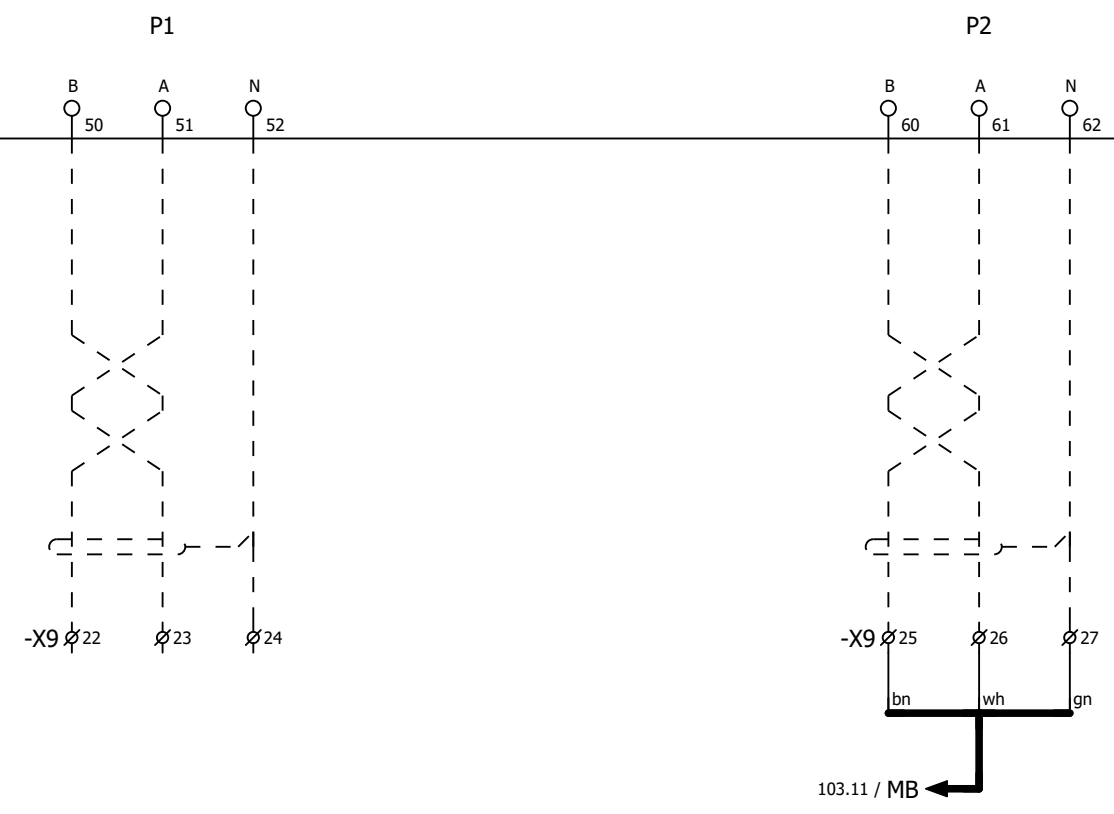
KOELEN OF
VERWARMEN

VRIJGAVE
CHANGE-OVER



-251U05
/251.4

REGIN VCA283DW-4-OEM



MODBUS
COMMUNICATIE

WTW + VELDAPPARATUUR

KLEMMENAANSLUITLIJST

| | | INTERN | | | EXTERN | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---------|------------|------|------|----------|-------------|--------------|---|---|----|------------------------------|---|---|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | PAGINA/PAD | BRUG | KLEM | ODC | AANSLUITING | OMSCHRIJVING | L | N | PE | | | | | | | | | | | | | | | | | | | | | | | |
| KABELNAAM | W[X5/1] | /105.4 | | 1 | -103WW04 | L | | | | | VOEDING WARMTEWIEL 230V/400W | 1 | 2 | PE | | | | | | | | | | | | | | | | | | | |
| | | /105.4 | | 2 | -103WW04 | N | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | /103.5 | | PE | -103WW04 | PE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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KLEMMENAANSLUITLIJST

| KABELNAAM | KLEMMENSTROOK | | X9 | | EXTERNE SIGNALEN | | OMSCHRIJVING | EXTERN | | | INTERN | | | PAGINA/PAD | | | | | | | |
|-----------|---------------|---------|---------|----------|------------------|----------|---------------------------------|-------------|-----------|------|--------|------|------|------------|----|----|----|---|-----------|---|--------|
| | W[X9/1] | W[X9/4] | W[X9/7] | W[X9/10] | W[X9/13] | W[X9/16] | | AANSLUITING | ODC | KLEM | BRUG | KLEM | BRUG | | | | | | | | |
| | | | | | | | | | | | | | | | BN | WH | GN | 1 | -252SEN03 | 1 | /251.4 |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | INSTELLING 0-500PA | | | | | | | | | | | | | | |
| | | | | | | | INSTELLING 0-500PA | | | | | | | | | | | | | | |
| | | | | | | | INSTELLING 0-500PA | | | | | | | | | | | | | | |
| | | | | | | | INSTELLING 0-500PA | | | | | | | | | | | | | | |
| | | | | | | | LUCHTKWALITEIT OPNEMER 0...10V | 1 | -253SEN04 | 4 | | | | | | | | | | | |
| | | | | | | | | 2 | -253SEN04 | 5 | | | | | | | | | | | |
| | | | | | | | | 3 | -253SEN04 | 6 | | | | /253.5 | | | | | | | |
| | | | | | | | INSTELLING 0-500PA | 1 | -253SEN11 | 7 | | | | | | | | | | | |
| | | | | | | | | | -X1 | | | | | | | | | | | | |
| | | | | | | | INSTELLING 0-500PA | 3 | -253SEN11 | 8 | | | | /101.7 | | | | | | | |
| | | | | | | | | | -X1 | | | | | | | | | | | | |
| | | | | | | | INSTELLING 0-500PA | 2 | -253SEN11 | 9 | | | | /253.12 | | | | | | | |
| | | | | | | | | | -X1 | | | | | | | | | | | | |
| | | | | | | | BYPASSKLEP WTW STURING BASIC HR | | -257M10 | 10 | | | | | | | | | | | |
| | | | | | | | | | -257M10 | 11 | | | | /102.7 | | | | | | | |
| | | | | | | | | | -257M10 | 12 | | | | /257.11 | | | | | | | |
| | | | | | | | STURING VERWARMING | | -257M13 | 13 | | | | | | | | | | | |
| | | | | | | | | | -257M13 | 14 | | | | | | | | | | | |
| | | | | | | | | | -257M13 | 15 | | | | /257.14 | | | | | | | |
| | | | | | | | STURING KOELING | | -257M16 | 16 | | | | /259.4 | | | | | | | |
| | | | | | | | | | -257M16 | 17 | | | | /259.4 | | | | | | | |
| | | | | | | | | | -257M16 | 18 | | | | /257.17 | | | | | | | |
| | | | | | | | STURING CHANGE-OVER 0...10V | | | 19 | | | | /259.10 | | | | | | | |
| | | | | | | | | | | 20 | | | | /259.10 | | | | | | | |
| | | | | | | | | | | 21 | | | | /259.14 | | | | | | | |
| | | | | | | | MODBUS COMMUNICATIE | | | 22 | | | | /261.4 | | | | | | | |
| | | | | | | | | | | 23 | | | | /261.4 | | | | | | | |
| | | | | | | | | | | 24 | | | | /261.5 | | | | | | | |
| | | | | | | | WTW + VELDAPPARATUUR | 3 | -103MWO4 | 25 | | | | /261.9 | | | | | | | |
| | | | | | | | | | | 26 | | | | /261.9 | | | | | | | |
| | | | | | | | | 5 | -103MWO4 | 27 | | | | /261.10 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
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KLEMMENAANSLUITLIJST

| KABELNAAM | | EXTERN | | INTERN | | KLEMMENSTROOK | |
|--------------|-----|--|-----------|--------|------|------------------|--|
| | | | | | | X10 | |
| | | | | | | EXTERNE SIGNALEN | |
| OMSCHRIJVING | | AANSLUITING | ODC | KLEM | BRUG | PAGINA/PAD | |
| W[X10/1] | BK | TEMPERATUUR INBLAASLUCHT OPNEMER (KANAAAL) TV | -252SEN17 | 1 | | /252.17 | |
| W[X10/3] | | | -X3 | | | | |
| W[X3/14] | WH | TEMPERATUUR INBLAASLUCHT OPNEMER (KANAAAL) TV | -252SEN17 | 2 | | /252.17 | |
| W[X10/11] | | | -X3 | | | | |
| | 1 | TEMPERATUUR WARMWATERBLOK/ CHANGE-OVERBLOK OPNEMER | -253SEN08 | 3 | | /253.8 | |
| | 2 | | -253SEN08 | 4 | | /253.9 | |
| | EXT | EXTERNE VRIJGAVE/ OVERWERKTIMER | | 5 | ● | /254.10 | |
| | EXT | | | 6 | ● | /254.18 | |
| | | BRANDMELDING | | 7 | ● | | |
| | | STORING VERWARMING | | 8 | | /255.4 | |
| | | STORING CHANGE-OVER | | 9 | ● | | |
| | | | | 10 | | /255.6 | |
| | 1 | VORST THERMOSTAAT | -255TS11 | 11 | ● | | |
| | 2 | | -255TS11 | 12 | ● | /255.12 | |
| | | STORING KOELING | | 13 | ● | | |
| | | | | 14 | | /255.14 | |
| | | VRIJGAVE KOELING | | 15 | | /258.8 | |
| | | | | 16 | | /258.8 | |
| | | VRIJGAVE VERWARMING | | 17 | | /258.10 | |
| | | | | 18 | | /258.10 | |
| | | ALGEMENE STORINGSMELDING | | 19 | | /258.12 | |
| | | | | 20 | | /258.12 | |
| | | UNIT STATUS | | 21 | | /258.14 | |
| | | | | 22 | | /258.14 | |
| | | KOELEN OF VERWARMEN | | 23 | | /259.16 | |
| | | | | 24 | | /259.16 | |
| | | VRIJGAVE CHANGE-OVER | | 25 | | /259.18 | |
| | | | | 26 | | /259.18 | |

Stekeraansluitlijst

F22_001

| Functietekst | W[X1/16] | W[X1/14] | W[X1/19] | W[X1/12] | W[X1/10] | W[X1/4] | W[X1/1] | Kabelnaam | Kabeltype | Strookcode =+-X1 RETOURVENTILATOR | | | | | Kabelnaam | Kabeltype | Pagina / kolom |
|--------------------------------------|----------|----------|----------|----------|----------|---------|---------|-------------|-----------|---|-------------|------------|------|---------------------|-----------|-----------|----------------|
| | | | | | | | | | | Doelcode | Aansluiting | Stekercode | Brug | Apparaataansluiting | | | |
| RETOURVENTILATOR | | | | | | | | 1;1;1 | | -102U02;-102U15;-102U08 | 1 | | | | -102F04 | 2 | /102.2 |
| | | | | | | | | 2;2;2 | | -102U02;-102U15;-102U08 | 2 | | | | -102F04 | 4 | /102.3 |
| | | | | | | | | 3;3;3 | | -102U02;-102U15;-102U08 | 3 | | | | -102F04 | 6 | /102.3 |
| | | | | | | | | PE;PE PE | | -102U02;-102U15;-102U08 | PE | | | | | PE | /102.4 |
| RETOUR-VENTILATOR VRIJGAVE | | | | | | | | | | | 4 | | | | | | /102.5 |
| | | | | | | | | | | | 5 | | | | | | /102.5 |
| RETOUR-VENTILATOR STORING | | | | | | | 1 | | | -102U02 | 6 | | | | -X3 | 6 | /102.5 |
| | | | | | | | 2 | | | -102U15 | 7 | | | | -251U05 | DI2a | /102.6 |
| RETOUR-VENTILATOR STURING | | | | | | | 3;3;3 | | | -102U02;-102U15;-102U08 | 8 | | | | -251U05 | AO2a | /102.7 |
| | | | | | | | 4;4;4 | | | -102U02;-102U15;-102U08 | 9 | | | | -X3 | 9 | /102.7 |
| TEMPERATUUR AFBLAASLUCHT OPNEMER ARL | | | | | | | | BK | | -252SEN09 | 10 | | | | -251U05 | AI2a | /252.9 |
| | | | | | | | | WH | | -252SEN09 | 11 | | | | -251U05 | AGND | /252.10 |
| TEMPERATUUR AANZUIGLUCHT OPNEMER BLA | | | | | | | | BK | | -252SEN12 | 12 | | | | -251U05 | AI3a | /252.12 |
| | | | | | | | | WH | | -252SEN12 | 13 | | | | -251U05 | AGND | /252.12 |
| 0-300PA 0-1600PA 0-1000PA | | | | | | | | | BN | -253SEN15 | 1 | 19 | | | X9 | 7 | /253.15 |
| | | | | | | | | | WH | -253SEN15 | 3 | 20 | | | X9 | 8 | /253.15 |
| | | | | | | | | | GN | -253SEN15 | 2 | 21 | | | X9 | 9 | /253.16 |
| FILTERSTORING TOEVOER | | | | | | | 1 | | | -254S08 | 1 | 14 | | | -X1 | 6 | /254.8 |
| | | | | | | | 2 | | | -254S08 | 3 | 15 | | | -251U05 | DI3a | /254.8 |
| BUITENLUCHT AANZUIGKLEP | | | | | | | | | BN | -260M04 | 2 | 16 | | | X9 | 19 | /260.4 |
| | | | | | | | | | GN | -260M04 | 3 | 17 | | | -258K16 | 11 | /260.4 |
| | | | | | | | | | WH | -260M04 | 1 | 18 | | | X9 | 20 | /260.5 |

Stekeraansluitlijst

F22_001

| Functietekst | W[X3/16] | W[X3/14] | W[X3/12] | W[X3/10] | W[X3/19] | W[X3/4] | W[X3/1] | Kabelnaam | Kabeltype | Strookcode =+-X3 TOEVOERVENTILATOR | | | | | Kabelnaam | Kabeltype | Pagina / kolom |
|---|----------|----------|----------|----------|----------|---------|-------------|-----------|-----------|--|-------------|------------|------|---------------------|-----------|-----------|----------------|
| | | | | | | | | | | Doelcode | Aansluiting | Stekercode | Brug | Apparaataansluiting | | | |
| TOEVOERVENTILATOR | | | | | | | 1;1;1 | | | -101U04;-101U15;-101U08 | 1 | | | | -101F04 | 2 | /101.2 |
| | | | | | | | 2;2;2 | | | -101U04;-101U15;-101U08 | 2 | | | | -101F04 | 4 | /101.3 |
| | | | | | | | 3;3;3 | | | -101U04;-101U15;-101U08 | 3 | | | | -101F04 | 6 | /101.3 |
| | | | | | | | PE;PE PE | | | -101U04;-101U15;-101U08 | PE | | | | | PE | /101.4 |
| TOEVOER-VENTILATOR VRIJGAVE | | | | | | | | | | | 4 | | | | | | /101.5 |
| | | | | | | | | | | | 5 | | | | | | /101.5 |
| TOEVOER-VENTILATOR STORING | | | | | | 1 | | | | -101U04 | 6 | | | | -251U05 | +C | /101.5 |
| | | | | | | 2 | | | | -101U15 | 7 | | | | -251U05 | DI1a | /101.6 |
| TOEVOER-VENTILATOR STURING | | | | | | 3;3;3 | | | | -101U04;-101U15;-101U08 | 8 | | | | -251U05 | AO1a | /101.7 |
| | | | | | | 4;4;4 | | | | -101U04;-101U15;-101U08 | 9 | | | | X9 | 8 | /101.7 |
| INSTELLING 10 40 OVERIG | | | | | | | BN | | | -252SEN06 | 1 | 19 | | | X9 | 1 | /252.6 |
| | | | | | | | WH | | | -252SEN06 | 3 | 20 | | | X9 | 2 | /252.7 |
| 0-300PA 0-1600PA 0-1000PA | | | | | | | GN | | | -252SEN06 | 2 | 21 | | | X9 | 3 | /252.7 |
| TEMPERATUUR RETOURLUCHT OPNEMER RT | | | | | | | BK | | | -252SEN14 | | 10 | | | -251U05 | AI4a | /252.14 |
| | | | | | | | WH | | | -252SEN14 | | 11 | | | -251U05 | AGND | /252.15 |
| TEMPERATUUR INBLAASLUCHT OPNEMER (LBK) TV | | | | | | | BK | | | -252SEN19 | | 12 | | | X10 | 1 | /252.19 |
| | | | | | | | WH | | | -252SEN19 | | 13 | | | X10 | 2 | /252.20 |
| FILTERSTORING RETOUR | | | | | | 1 | | | | -254S10 | 1 | 14 | | | -X1 | 14 | /254.10 |
| | | | | | | 2 | | | | -254S10 | 3 | 15 | | | -251U05 | DI3a | /254.11 |
| RETOURKLEP | | | | | | | BN | | | -260M07 | 2 | 16 | | | -258K16 | 14 | /260.7 |
| | | | | | | | GN | | | -260M07 | 3 | 17 | | | -X1 | 17 | /260.7 |
| | | | | | | | WH | | | -260M07 | 1 | 18 | | | -X1 | 18 | /260.7 |