German Plant Experience L.L.C.

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Email : info@gpegroup.com

| | | |
|---|---|---|
| Costumer | : | Shafa Al Nahdah Readymix Concrete Manufacturing LL<br>Dubai<br>AE |
| Plant designation | : | Concrete batching plant with 3cbm twin shaft mixer |
| Project number | : | GPE-DXB-25185 |
| Site | : | Dubai – Dubai Maritime City |

| | | |
|---|---|---|
| Supplier | : | X-Tech |
| Machine type | : | Shafa Al Nahdah DMC plant#2 |
| Serial number | : | |
| Total power | : | apporx. 300 kW |
| Operating voltage | : | 400 +/- 5% |
| Type of current | : | 3 Phase |
| Cycle | : | 50 Hz. |
| Drawing no. | : | GPE-EL-26185 |

Last print on : 06.11.2026 Edited by : M. Gottschalk Total pages: 12

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Page
overview

Wiring diagram

Project: Shafa Al Nahdah DMC plant#2

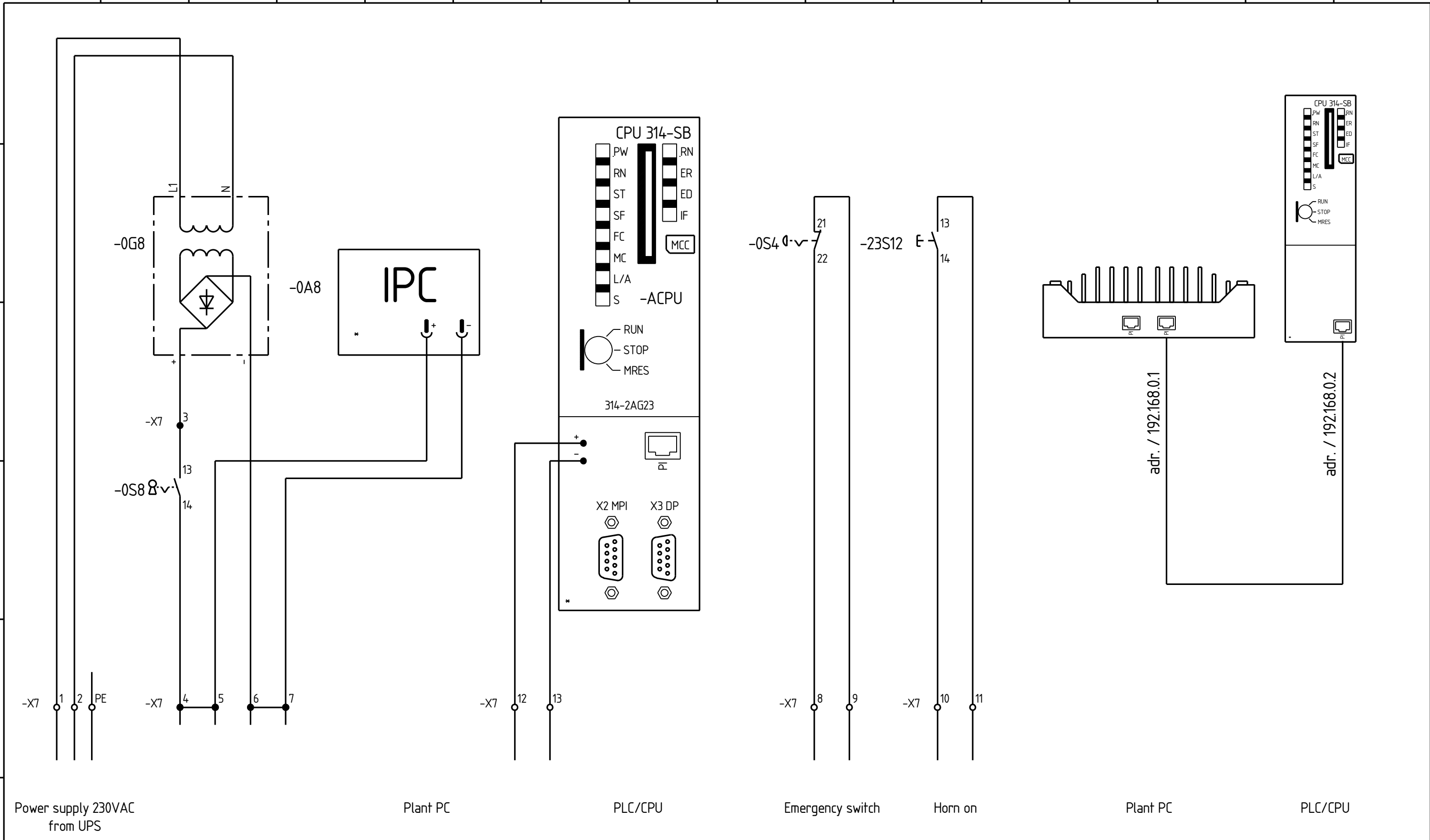
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Drawing no: GPE-EL-26185

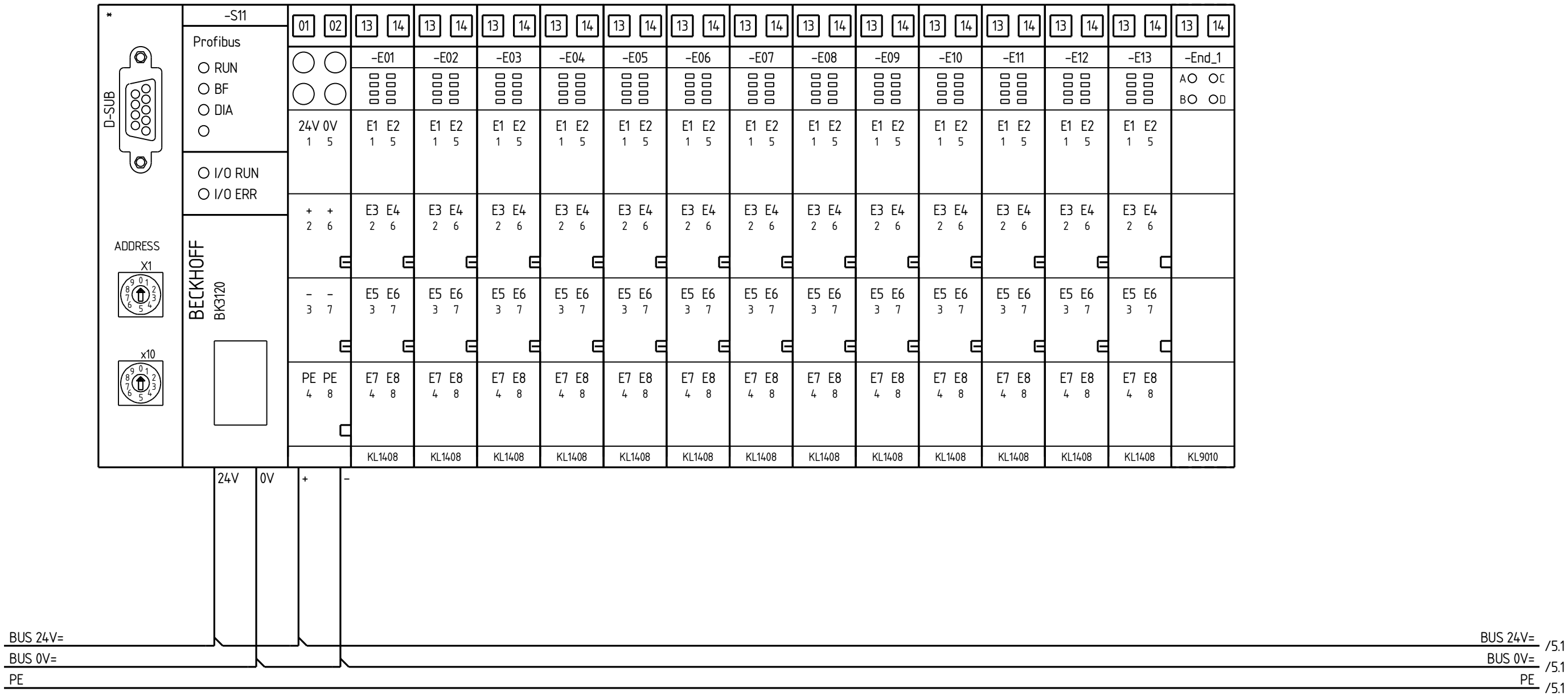
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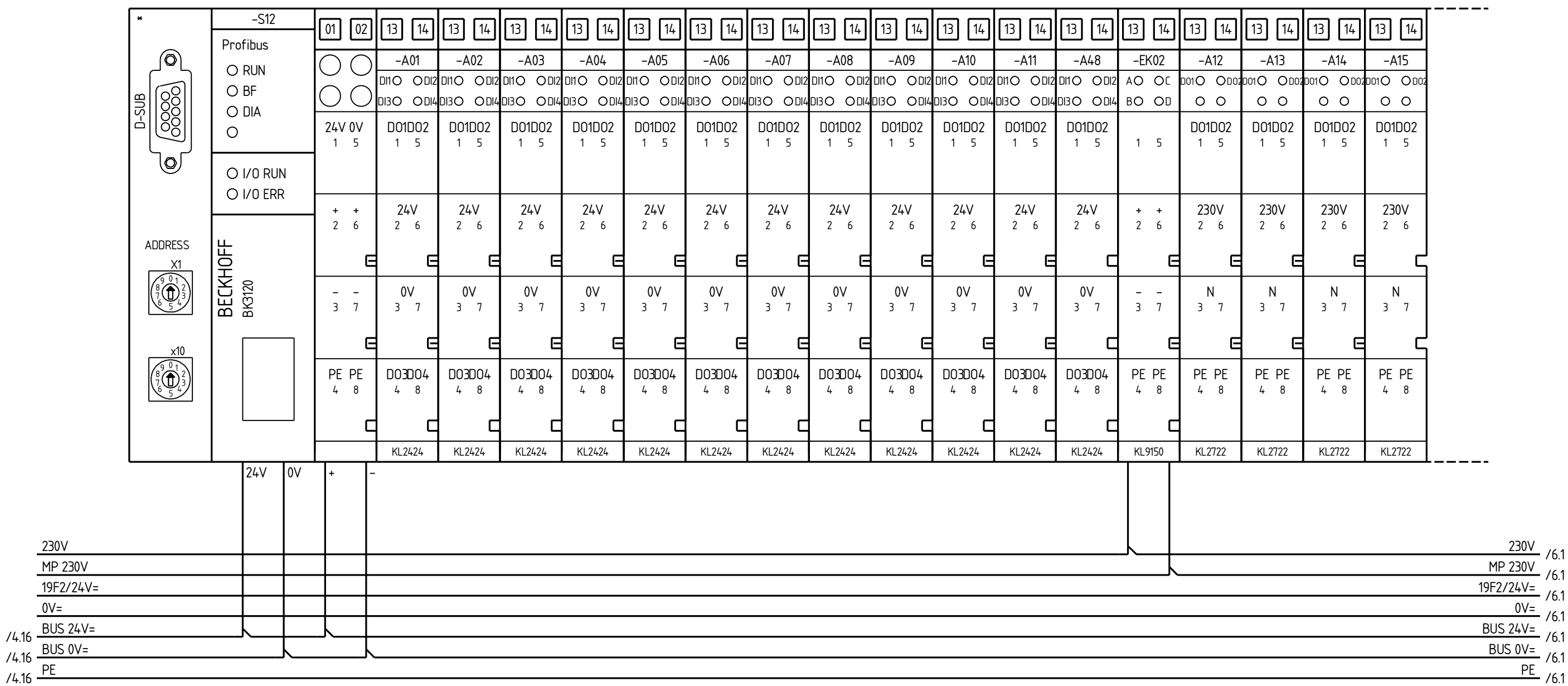
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# WAGO Station 12
## Overview

Wiring diagram

Project: Shafa Al Nahdah DMC plant#2

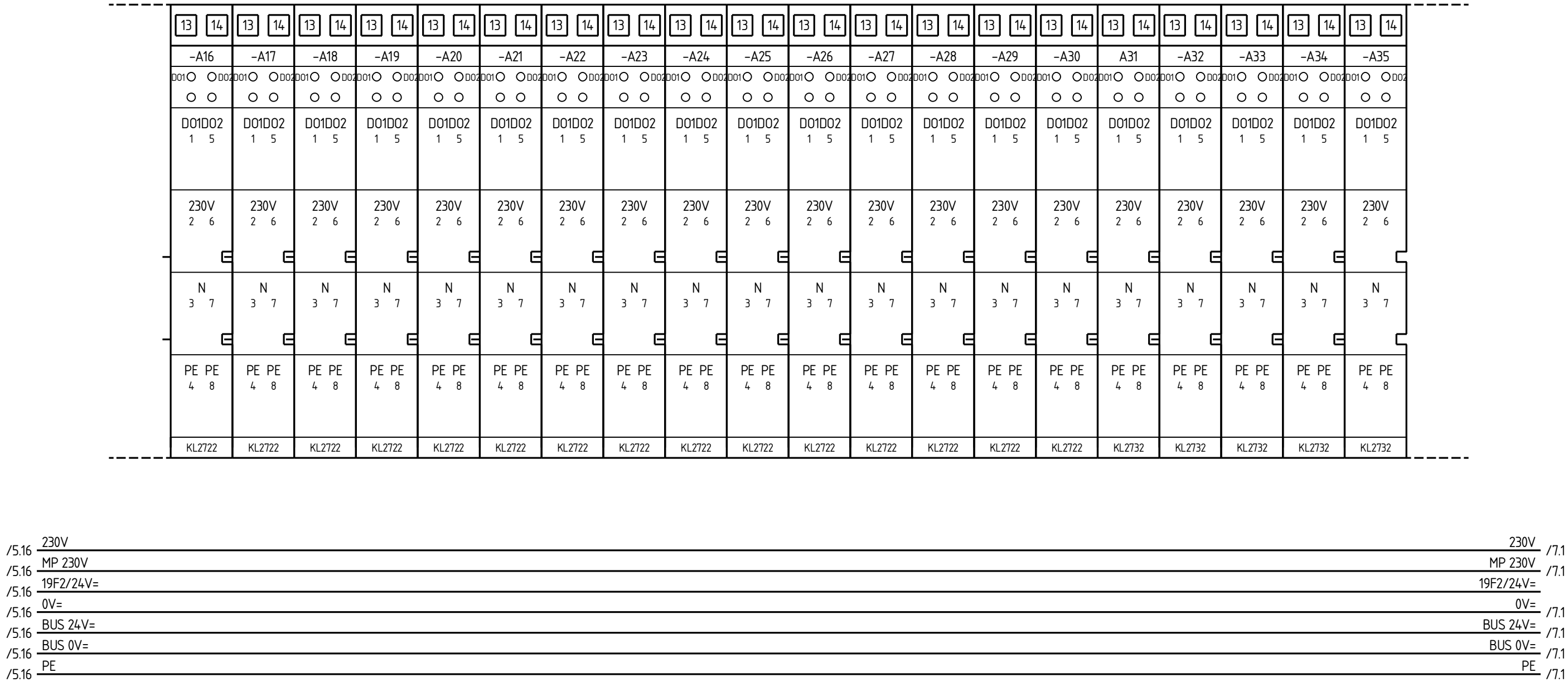
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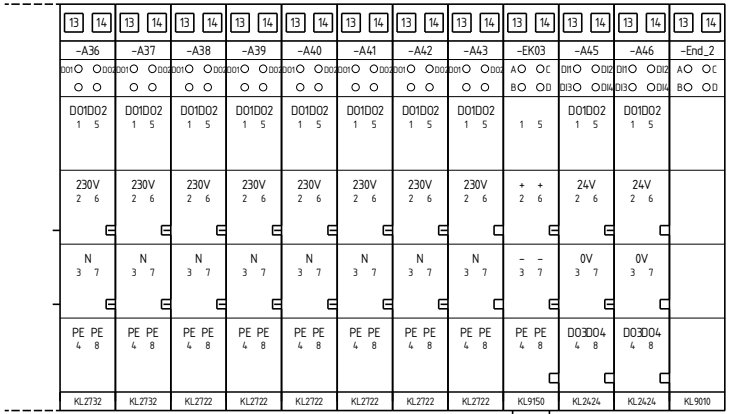
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# WAGO Station 12
## Overview

Wiring diagram

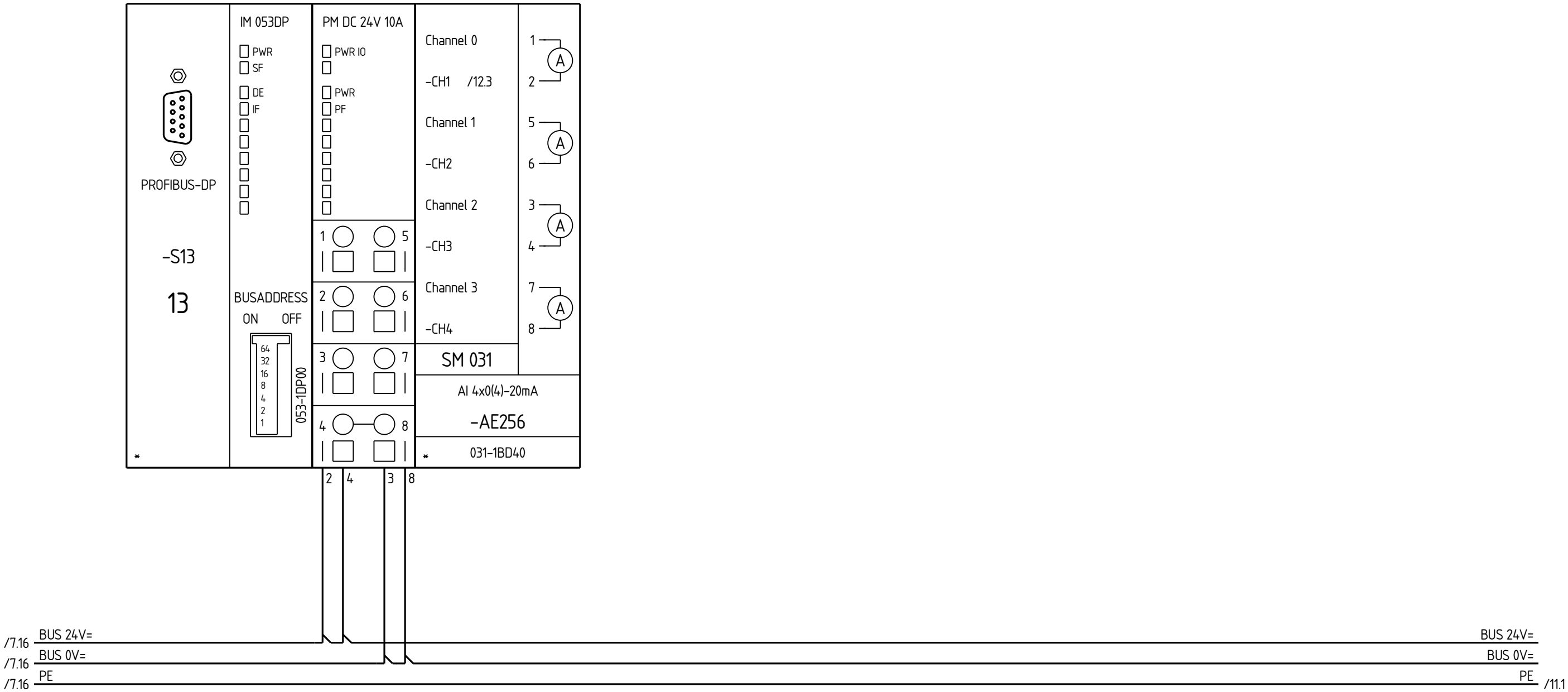
Project: Shafa Al Nahdah DMC plant#2
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/6.16 230V — 230V
/6.16 MP 230V — MP 230V
24V= — 24V=
/6.16 0V= — 0V=
/6.16 BUS 24V= — BUS 24V= /8.1
/6.16 BUS 0V= — BUS 0V= /8.1
/6.16 PE — PE /8.1

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Silo Station 13
Overview

Wiring diagram

Project: Shafa Al Nahdah DMC plant#2

Project no: GPE-DXB-25185

Drawing no: GPE-EL-26185

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## PEW

| | |
|---|---|
| 256 | Mixer consistency |
| 258 | |
| 260 | |
| 262 | |
| 264 | |
| 266 | |
| 268 | |
| 270 | |

## IB 1

| | |
|---|---|
| .0 | Control voltage 24VDC ok |
| .1 | Compressor running |
| .2 | Compressed Air ok |
| .3 | Weighing belt running |
| .4 | Inclined belt running |
| .5 | Waiting hopper is close |
| .6 | Waiting hopper is open |
| .7 | Waiting hopper is overfull |

## IB 2

| | |
|---|---|
| .0 | Cement screw 1 flap is open |
| .1 | Cement screw 2 flap is open |
| .2 | Cement screw 3 flap is open |
| .3 | Cement scale 1 is close – limit switch |
| .4 | Cement screw 4 flap is open |
| .5 | Cement screw 5 flap is open |
| .6 | Cement scale 2 is close – limit switch |
| .7 | Water scale is close – limit switch |

## IB 3

| | |
|---|---|
| .0 | Admixture scale chamber 1 overfull |
| .1 | Admixture scale chamber 2 overfull |
| .2 | Admixture scale chamber 3 overfull |
| .3 | Admixture scale chamber 4 overfull |
| .4 | Ice discharge screw running |
| .5 | Ice discharge screw breaker faulty |
| .6 | Mixer lubrication running |
| .7 | Mixer lubrication faulty |

## IB 4

| | |
|---|---|
| .0 | Mixer motor protection fault |
| .1 | Mixer running |
| .2 | Hydraulic pump running |
| .3 | Mixer gate is open – limit switch |
| .4 | Mixer gate is close – limit switch |
| .5 | Mixer gate is half open 1 – limit switch |
| .6 | Mixer gate is half open 2 – limit switch |
| .7 | Vibrator mixer discharge cone running |

## IB 5

| | |
|---|---|
| .0 | Horn on |
| .1 | |
| .2 | |
| .3 | |
| .4 | |
| .5 | Mixer de-dusting filter running |
| .6 | Mixer de-dusting gate is close |
| .7 | Mixer de-dusting gate is open |

## IB 6

| | |
|---|---|
| .0 | General motor protection fault |
| .1 | Cement silo 1 is empty |
| .2 | Cement silo 2 is empty |
| .3 | Cement silo 3 is empty |
| .4 | Cement silo 4 is empty |
| .5 | Cement silo 5 is empty |
| .6 | Cement silo 1 inblowing connected |
| .7 | Cement silo 1 is full |

## IB 7

| | |
|---|---|
| .0 | Cement silo 1 overpressure |
| .1 | Cement silo 2 inblowing connected |
| .2 | Cement silo 2 is full |
| .3 | Cement silo 2 overpressure |
| .4 | Cement silo 3 inblowing connected |
| .5 | Cement silo 3 is full |
| .6 | Cement silo 3 overpressure |
| .7 | Cement silo 4 inblowing connected |

## IB 8

| | |
|---|---|
| .0 | Cement silo 4 is full |
| .1 | Cement silo 4 overpressure |
| .2 | Cement silo 5 inblowing connected |
| .3 | Cement silo 5 is full |
| .4 | Cement silo 5 overpressure |
| .5 | |
| .6 | |
| .7 | Waiting hopper is full |

## IB 9

| | |
|---|---|
| .0 | Aggregate bin 1 is full |
| .1 | Aggregate bin 2 is full |
| .2 | Aggregate bin 3 is full |
| .3 | Aggregate bin 4 is full |
| .4 | Cement screw 6 flap is open |
| .5 | Cement silo 6 is empty |
| .6 | Cement silo 6 inblowing connected |
| .7 | Cement silo 6 is full |

## IB 10

| | |
|---|---|
| .0 | Cement silo 6 overpressure |
| .1 | Aggregate bin 1 is empty |
| .2 | Aggregate bin 2 is empty |
| .3 | Aggregate bin 3 is empty |
| .4 | Aggregate bin 4 is empty |
| .5 | Admixture chamber 1 is close |
| .6 | Admixture chamber 2 is close |
| .7 | Admixture chamber 3 is close |

## IB 11

| | |
|---|---|
| .0 | Admixture chamber 4 is close |
| .1 | Aggregate bin 5 is full |
| .2 | Aggregate bin 6 is full |
| .3 | Aggregate bin 5 is empty |
| .4 | Aggregate bin 6 is empty |
| .5 | |
| .6 | |
| .7 | Ice scale is close – limit switch |

## IB 12

| | |
|---|---|
| .0 | |
| .1 | |
| .2 | |
| .3 | |
| .4 | |
| .5 | |
| .6 | |
| .7 | |

## IB 13

| | |
|---|---|
| .0 | Emergency Stop ok |
| .1 | Mixer cover is close |
| .2 | |
| .3 | |
| .4 | |
| .5 | |
| .6 | |
| .7 | |

| | | | | | | | | | | | | | | | | | |
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## OB 1

| | |
|---|---|
| .0 | Waiting hopper open |
| .1 | Cement screw 1 flap open |
| .2 | Cement screw 2 flap open |
| .3 | Cement screw 3 flap open |
| .4 | Airation cement silo 1 |
| .5 | Airation cement silo 2 |
| .6 | Airation cement silo 3 |
| .7 | Cement scale 1 open – valve |

## OB 3

| | |
|---|---|
| .0 | Cement screw 4 flap open |
| .1 | Cement screw 5 flap open |
| .2 | Airation cement silo 4 |
| .3 | Airation cement silo 5 |
| .4 | Cement scale 2 open – valve |
| .5 | Water comp. 1 coarse on – valve |
| .6 | Water comp. 1 fine on – valve |
| .7 | Water scale open – valve |

## OB 5

| | |
|---|---|
| .0 | Admixture scale chamber 1 open – valve |
| .1 | Admixture scale chamber 2 open – valve |
| .2 | Admixture scale chamber 3 open – valve |
| .3 | Admixture scale chamber 4 open – valve |
| .4 | Admixture scale chamber 1 wash – valve |
| .5 | Admixture scale chamber 2 wash – valve |
| .6 | Admixture scale chamber 3 wash – valve |
| .7 | Admixture scale chamber 4 wash – valve |

## OB 7

| | |
|---|---|
| .0 | Water direct dosing |
| .1 | Mixer gate opening – valve |
| .2 | Mixer gate closing – valve |
| .3 | Mixer dedusting flap open – valve |
| .4 | Cement screw 6 flap open |
| .5 | Airation cement silo 6 |
| .6 | |
| .7 | |

## OB 9

| | |
|---|---|
| .0 | Aggregate 1 coarse dosing |
| .1 | Aggregate 1 fine dosing |
| .2 | Aggregate 2 coarse dosing |
| .3 | Aggregate 2 fine dosing |
| .4 | Aggregate 3 coarse dosing |
| .5 | Aggregate 3 fine dosing |
| .6 | Aggregate 4 coarse dosing |
| .7 | Aggregate 4 fine dosing |

## OB 11

| | |
|---|---|
| .0 | Aggregate 5 coarse dosing |
| .1 | Aggregate 5 fine dosing |
| .2 | Aggregate 6 coarse dosing |
| .3 | Aggregate 6 fine dosing |
| .4 | |
| .5 | |
| .6 | |
| .7 | |

## OB 12

| | |
|---|---|
| .0 | Compressor on |
| .1 | Vibrator Aggregate bin 1 |
| .2 | |
| .3 | |
| .4 | |
| .5 | Vibrator Aggregate bin 4 |
| .6 | Vibrator waiting hopper |
| .7 | Cement screw 1 on |

## OB 16

| | |
|---|---|
| .0 | Cement screw 2 on |
| .1 | Cement screw 3 on |
| .2 | Vibrator cement scale 1 on |
| .3 | Cement screw 4 on |
| .4 | Cement screw 5 on |
| .5 | Vibrator cement scale 2 on |
| .6 | Admixture pump 1 on |
| .7 | Admixture pump 2 on |

## OB 20

| | |
|---|---|
| .0 | Admixture pump 3 on |
| .1 | Admixture pump 4 on |
| .2 | Admixture pump 5 on |
| .3 | Admixture pump 6 on |
| .4 | Admixture pump 7 on |
| .5 | Admixture pump 8 on |
| .6 | Cement screw 6 on |
| .7 | |

## OB 24

| | |
|---|---|
| .0 | Mixer de-dusting ventilator on |
| .1 | Cement silo 1 filter on |
| .2 | Cement silo 2 filter on |
| .3 | Cement silo 3 filter on |
| .4 | Cement silo 4 filter on |
| .5 | Cement silo 5 filter on |
| .6 | Vibrator weighing belt on |
| .7 | |

## OB 28

| | |
|---|---|
| .0 | Cement silo 6 filter on |
| .1 | |
| .2 | |
| .3 | |
| .4 | |
| .5 | |
| .6 | Control voltage 230VAC on |
| .7 | Control voltage 230VAC not off |

## OB 32

| | |
|---|---|
| .0 | Weighing belt on |
| .1 | Inclined belt on |
| .2 | |
| .3 | Vibrator mixer discharge cone on |
| .4 | Mixer on |
| .5 | Mixer on direct |
| .6 | Hydraulic pump on |
| .7 | Mixer greasing pump on |

## OB 36

| | |
|---|---|
| .0 | |
| .1 | |
| .2 | |
| .3 | |
| .4 | Horn – plant fault |
| .5 | Water comp. 2 dosing |
| .6 | Horn – starting mixer |
| .7 | Mixer de-dusting cleaning start |

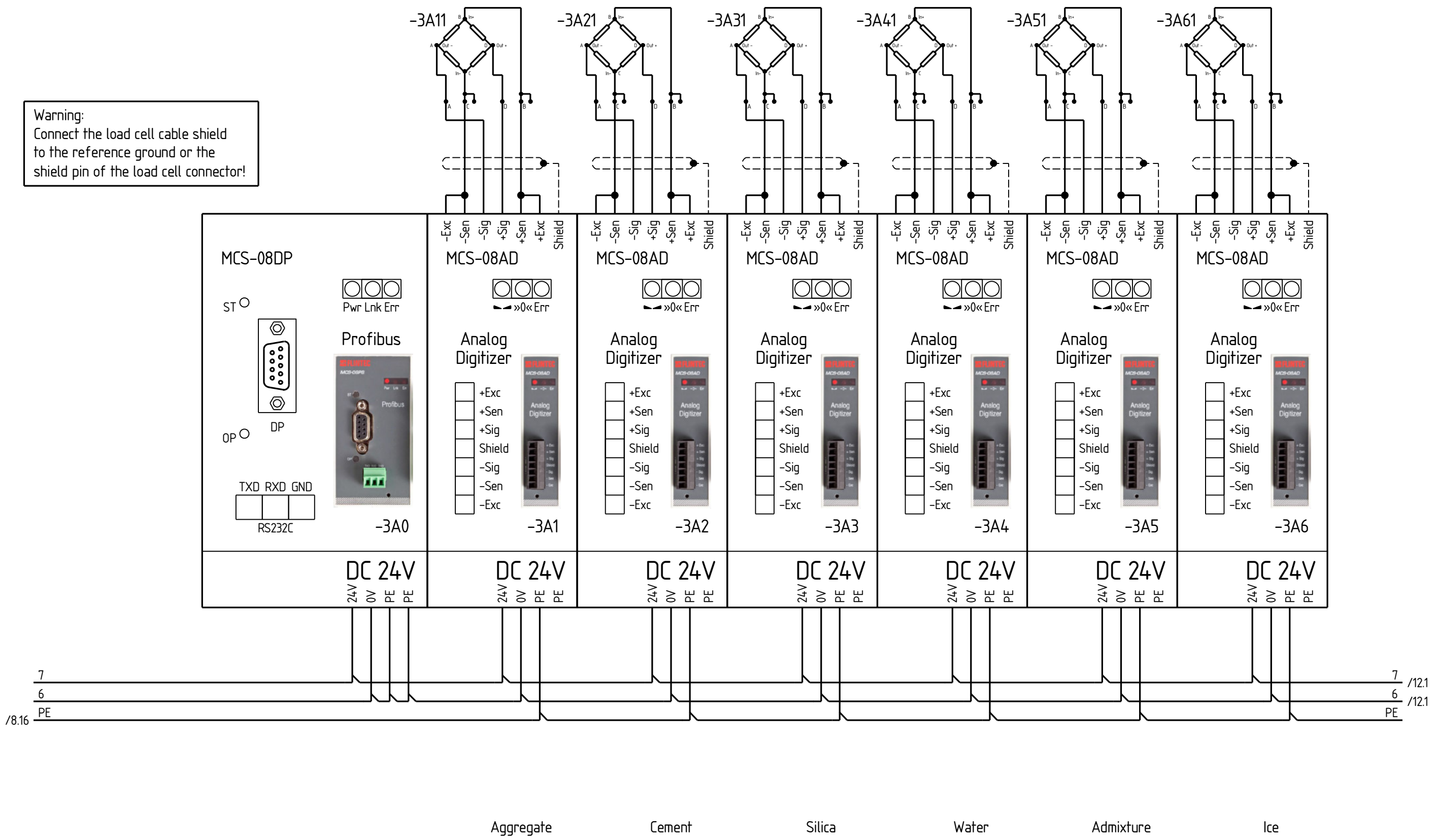
## OB 40

| | |
|---|---|
| .0 | Horn – batch finish |
| .1 | Horn – cement silo is full |
| .2 | Ice comp. 1 coarse dosing |
| .3 | Ice comp. 1 fine dosing |
| .4 | Ice discharge screw on |
| .5 | |
| .6 | |
| .7 | |

## OB 45

| | |
|---|---|
| .0 | Cement silo 1 inblowing valve open |
| .1 | Cement silo 2 inblowing valve open |
| .2 | Cement silo 3 inblowing valve open |
| .3 | Cement silo 4 inblowing valve open |
| .4 | Cement silo 5 inblowing valve open |
| .5 | Cement silo 6 inblowing valve open |
| .6 | |
| .7 | |

| | | | | | | | | | | | | | | | | | |
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Scale Input module

Wiring diagram

Project: Shafa Al Nahdah DMC plant#2

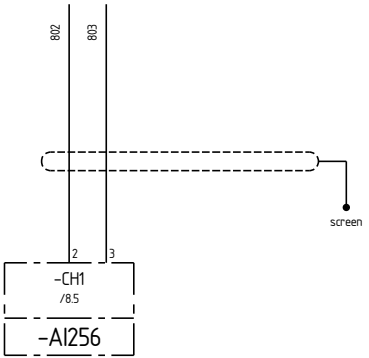
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Mixer current

| | | | | | | | | | | | | | | | | | | | |
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