Documents listed on below pages

General description 1–9

Circuit diagram 10–44

Switchboard layout 45–49

Graphical list

Spareparts 50–59

Terminal matrix 60–69

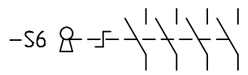
Cable plan 70–89

Switchboard are placed behind inspectionsdoor before supply fan

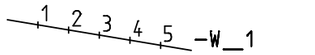
Components according to functions are mark with **

systemair		General Description pages	Project: Supply Control system	Drawing no.:	Init.: KAJU	Rev Date.: 12–06–2013	Rev.: 02.05	Sheet: 2
			Date: 18–09–2012	Function:	Cabinet:	Total sheets: 6		Next sheet: 3

Symbols are according to IEC 60617.
On the following 2 pages there are descriptions of used symbols in the project.



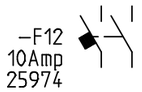
Switchgear, 4 pole



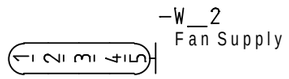
Cable



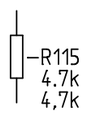
Automatic tripping, 3-pole



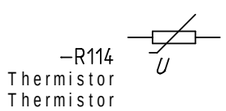
Automatic tripping, 2-pole



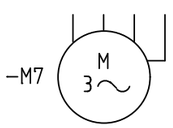
Shielded cable



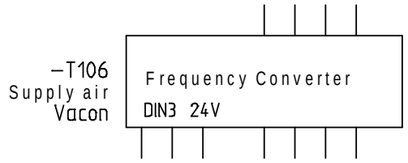
Resistors



Thermistor

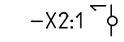


Motor three phase + PE

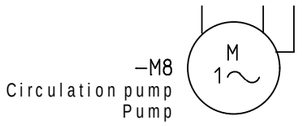


Frequency converter

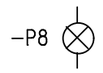
References



Terminal



Cirkulation pump



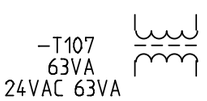
Lamp



Info text



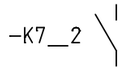
Fuse



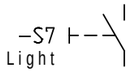
Transformer

systemair		General Description symbols	Project: Supply Control system	Drawing no.:	Init.: KAJU	Rev Date.: 12-06-2013	Rev.: 02.05	Sheet: 3
			Date: 18-09-2012	Function:	Cabinet:	Total sheets: 6		Next sheet: 4

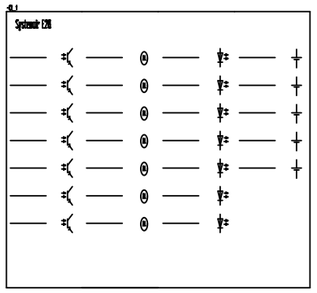
Symbols are according to IEC 60617.
These pages are descriptions of used symbols in the project.



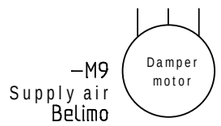
Relay contacts, normaly open



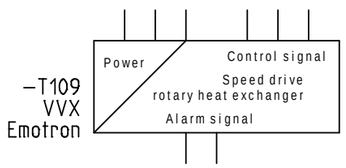
Switchgear



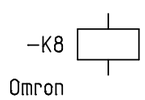
Corrigo E28



Supply air



Rotary heat exchanger



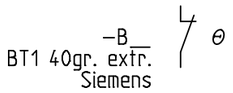
Relay



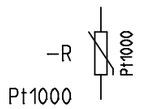
Switchgear, one pole. Extended operation



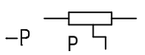
Switchgear, mechanical energy



fireguard



Temperature (measuring)



Pressure

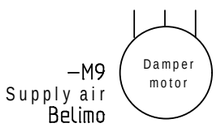
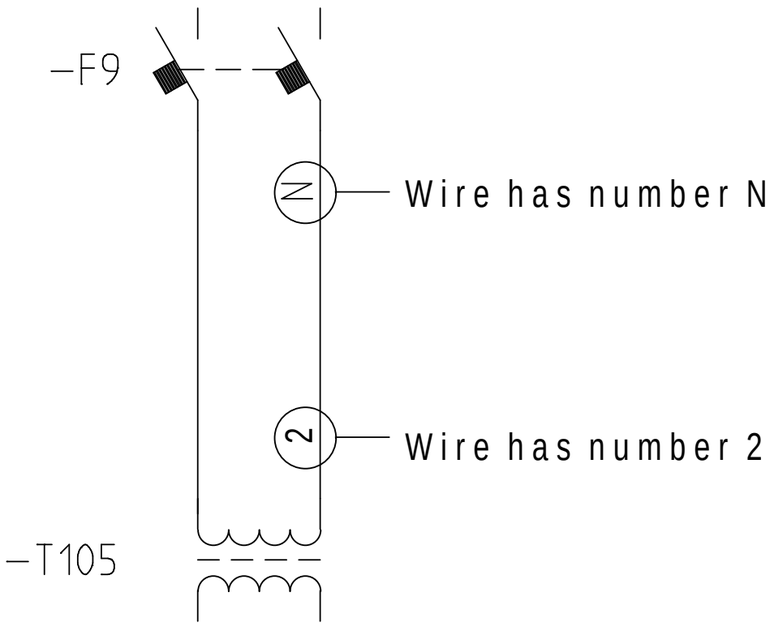


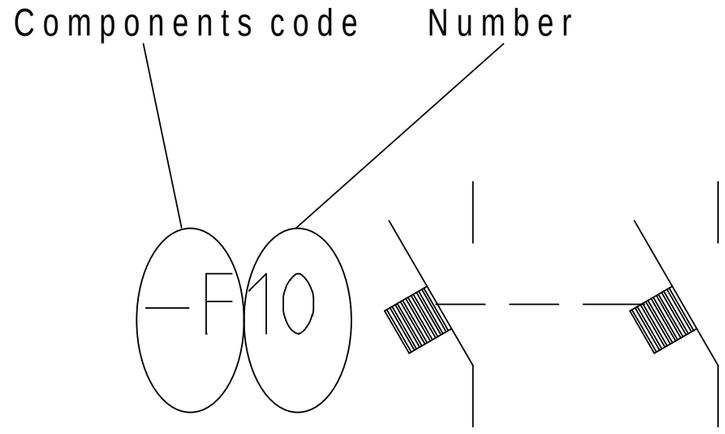
Plate exchanger dampermotor

systemair		General Description symbols	Project: Supply Control system	Drawing no.:	Init.: KAJU	Rev Date.: 12-06-2013	Rev.: 02.05	Sheet: 4
			Date: 18-09-2012	Function:	Cabinet:	Total sheets: 6		Next sheet: 5

Labeling of wires
Cables are marked with
terminal name



Components are marked with component codes
followed by a number according to IEC 61346-1 Chart 1



systemair		General Description wires	Project: Supply Control system	Drawing no.:	Init.: KAJU	Rev Date.: 12-06-2013	Rev.: 02.05	Sheet: 5
			Date: 18-09-2012	Function:	Cabinet:	Total sheets: 6		Next sheet: 6

Component codes used
in the project

S = Switchgear
F = Automatic tripping
M = Pump / Damper motor / valve motor
R = Temperature sensors
T = Frequency Converter / transformer
P = Lamps / Pressure guard / Pressure transducer
C = Controller
B = Fire guard
W = Cables
K = Relay coils
X = Terminal
U = Switchboard

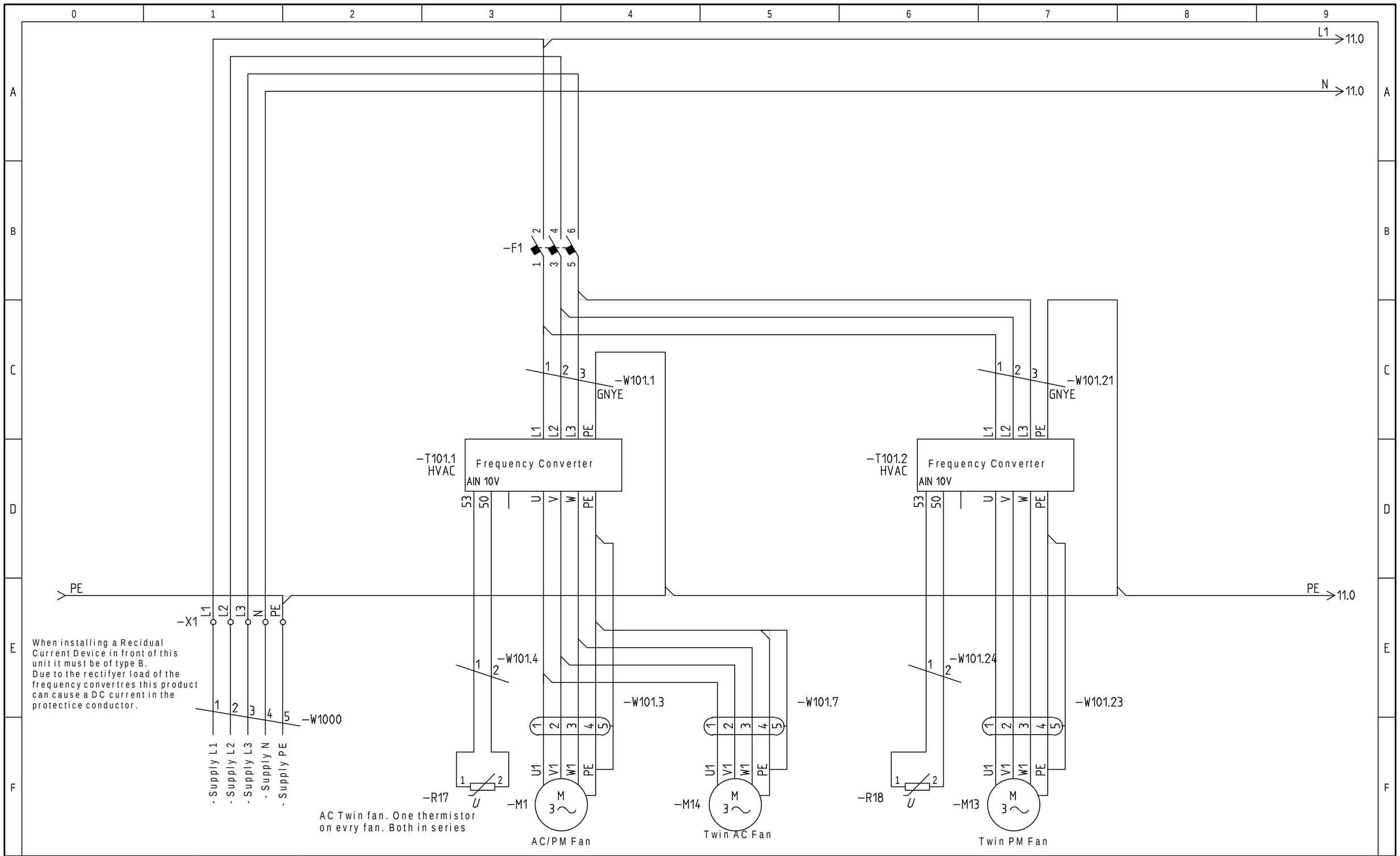
Data for the unit

Max load look in order paper

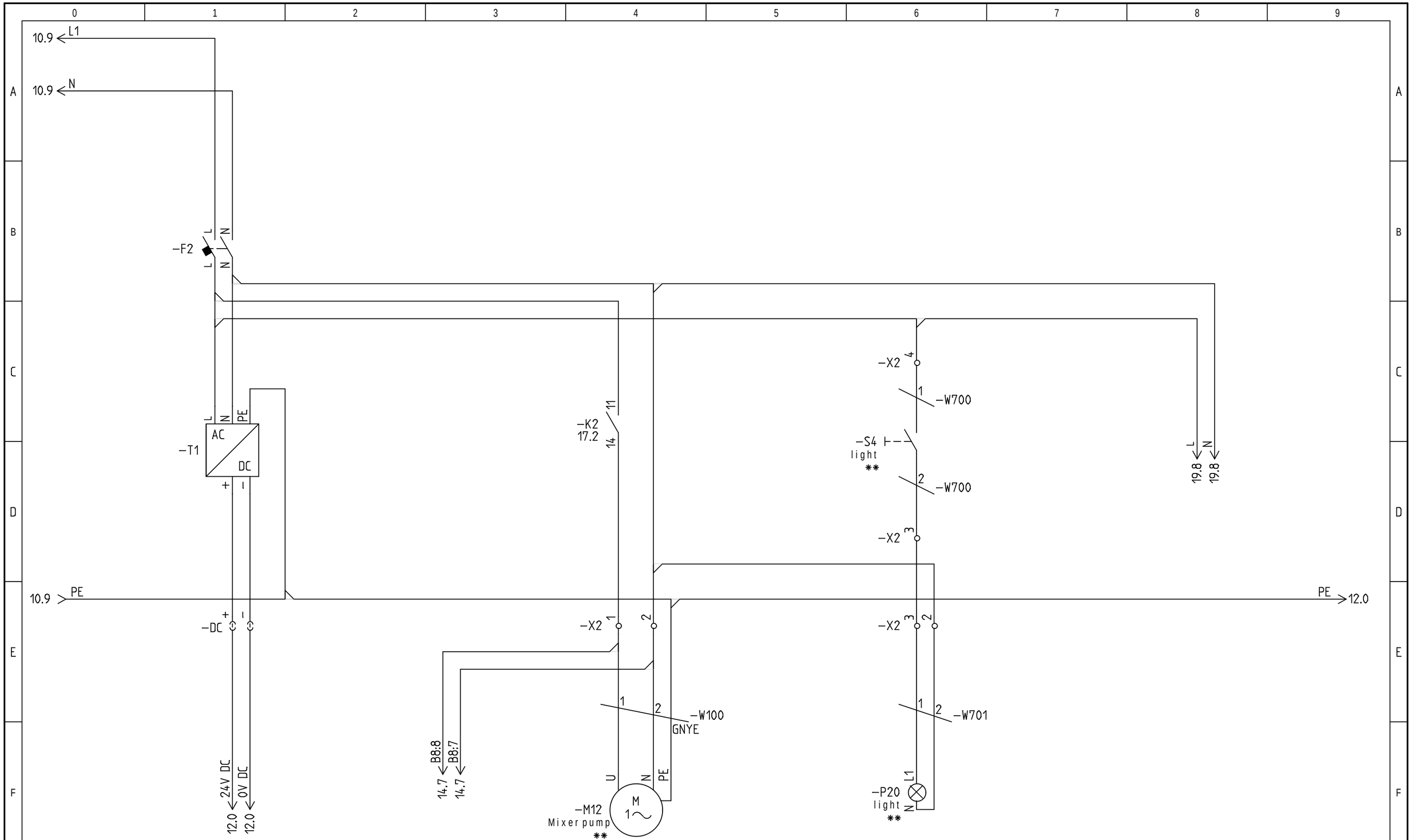
Max pre-fuse look in order paper

Ik max. 16kAmp

RCD type B



systemair		Main power	Project: Supply Control system	Drawing no.:		Init.: KAJU	Rev Date.: 12-06-2013	Version.: 02.05	Sheet: 10
			Date: 03-10-2012	Function: =T1	Cabinet:		Total sheets: 13		Next sheet: =T1/11



systemair		Main power	Project: Supply Control system	Drawing no.:		Init.: KAJU	Rev Date.: 12-06-2013	Version.: 02.05	Sheet: 11
			Date: 14-01-2013	Function: =T1	Cabinet:		Total sheets: 13		Next sheet: =T1/12

–C1

Systemair A/S

Corrigo E28

DI1:71	13.1 DI1		AI1:31	15.1 AI1	AI	DO1:11	17.1 DO1		AO1:91	19.1 AO1	
Filter guard Prefilter guard			Extract temp sensor or Room 2			Fan Start			Fan speed		
DI2:72	13.2 DI2		AI2:32	15.3 AI2	AI	DO2:12	17.2 DO2		AO2:92	19.2 AO2	
Ready fan			Temperature sensor Supply			Heating Start			Heating coil Y1 Capacity		
DI3:73	13.6 DI3		AI3:34	15.5 AI3	AI	DO3:13	17.3 DO3		AO3:93	19.4 AO3	
Cooling start			Temperature sensor Outdoor / Intake			Cooling Start			Cooling / changeover Capacity		
DI4:74	13.7 DI4		AI4:35	15.7 AI4	AI	DO4:14	17.4 DO4		AO4:94	19.5 AO4	
Frost thermostat			Temperature sensor Frost protection Y1			Alarm signal			Recirculation capacity		
DI5:75	13.8 DI5		UI1:41	16.1 UI1	UI	DO5:15	17.5 DO5		AO5:95	19.7 AO5	
Reduced speed / or stop unit			Room 1 RH Outdoor			Damper motor Recirculation			El preheater / Split Y2		
DI6:76	13.9 DI6		UI2:42	16.3 UI2	UI	DO6:16	17.6 DO6				
Normal speed			Flow measuring Supply air fan			Damper motor Intake					
DI7:77	14.1 DI7		UI3:44	16.6 UI3	UI	DO7:17	17.7 DO7				
Fire signal			Pre.h.temp. / Out.temp RH or CO2 =Room/Duct			Electrical preheating					
DI8:78	14.6 DI8		UI4:45	16.8 UI4	UI						
Electrical heating Overheating			Pressure transmitter Supply air duct								

1 G
2 G0
3 P E
4 +C

11.1 24V DC → 24V DC 13.0
11.1 0V DC → 0V DC 14.0
11.9 PE

50 B
51 A
52 N
53 E

–Corrigo E0–R
–Corrigo E0–R
–Corrigo E0–R

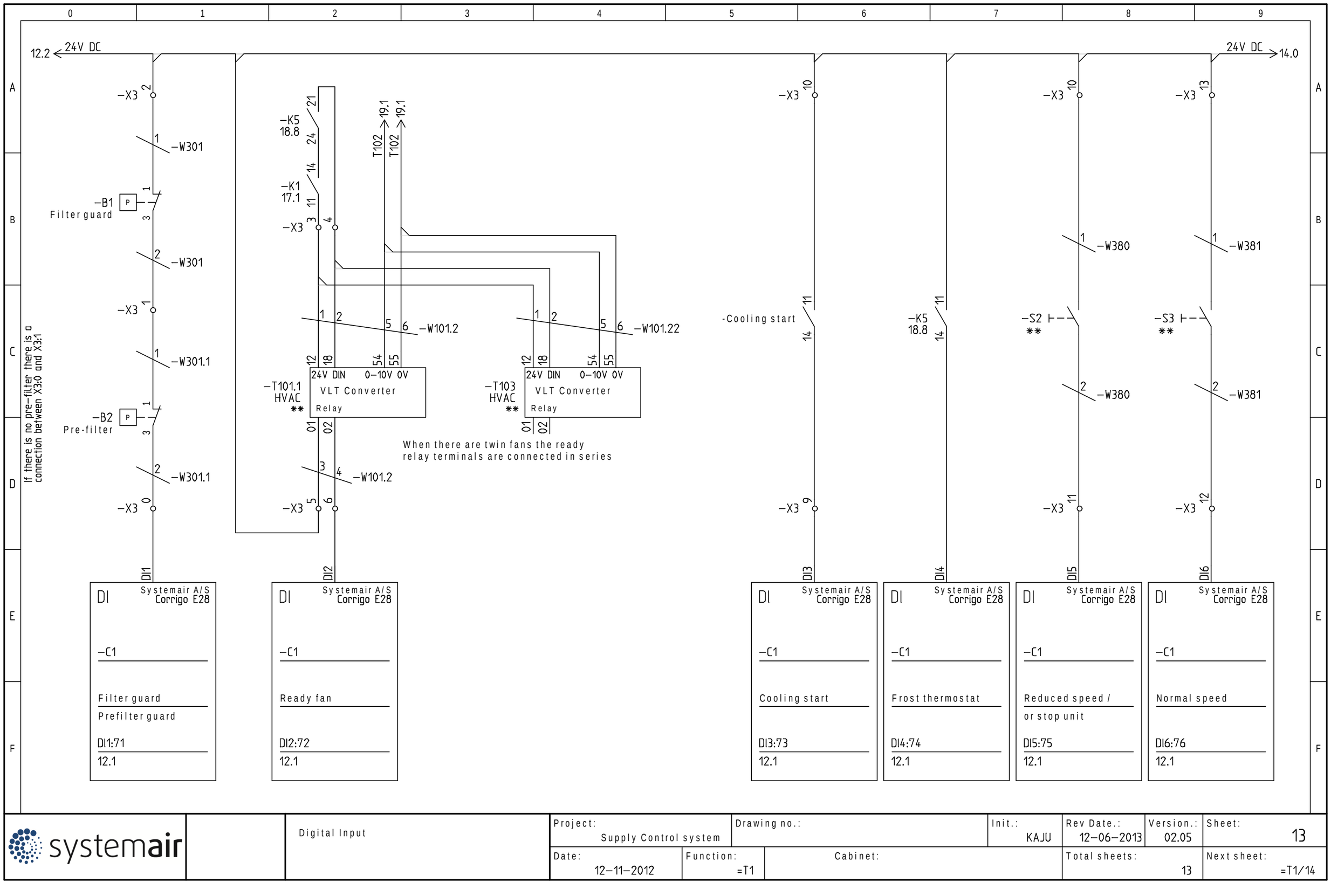
LON: Net+57
LON: Net+58
LON: Net+59

LON Terminals

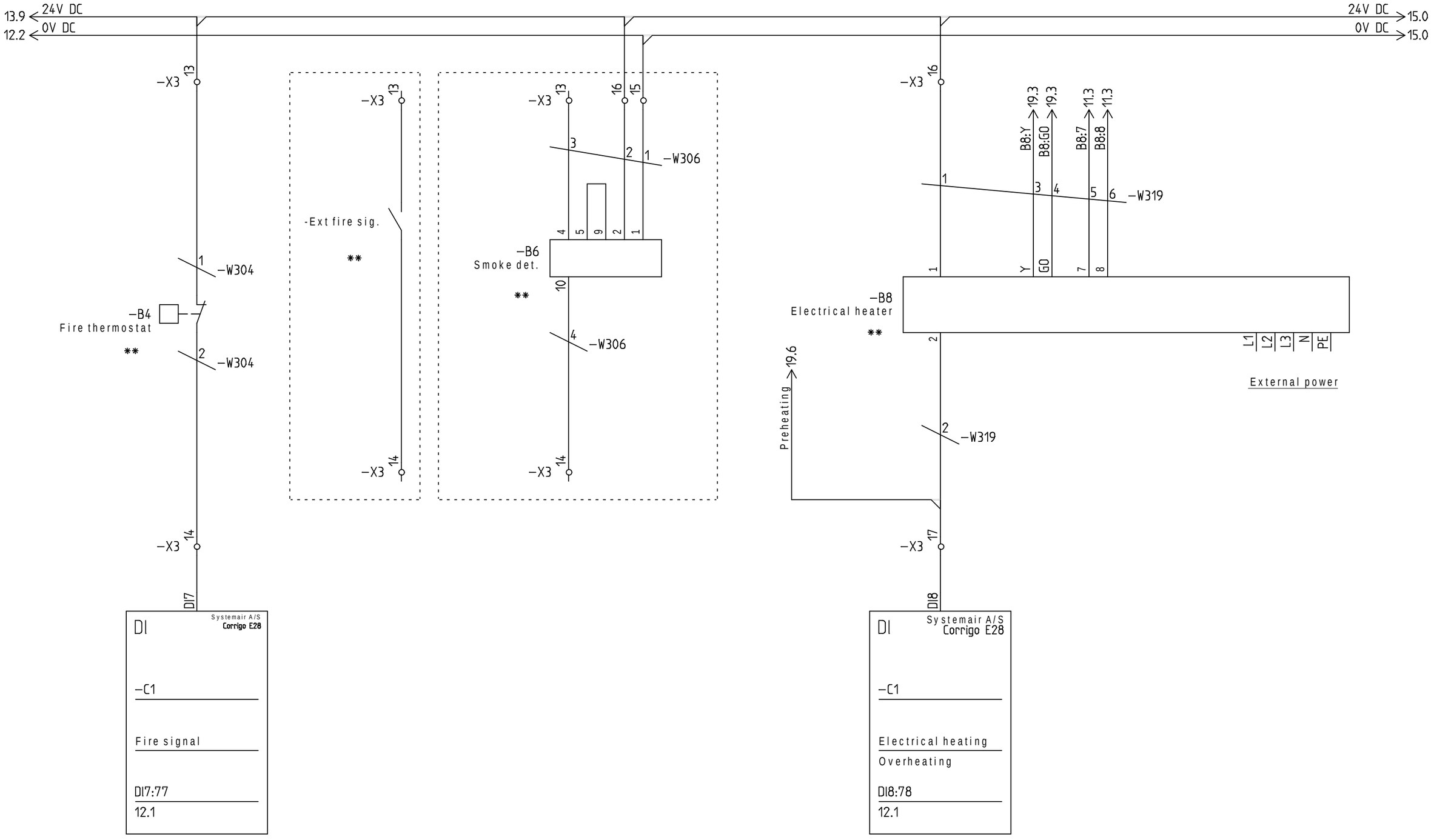
10 GDO

30 Agnd
33 Agnd
40 Agnd
43 Agnd
90 Agnd

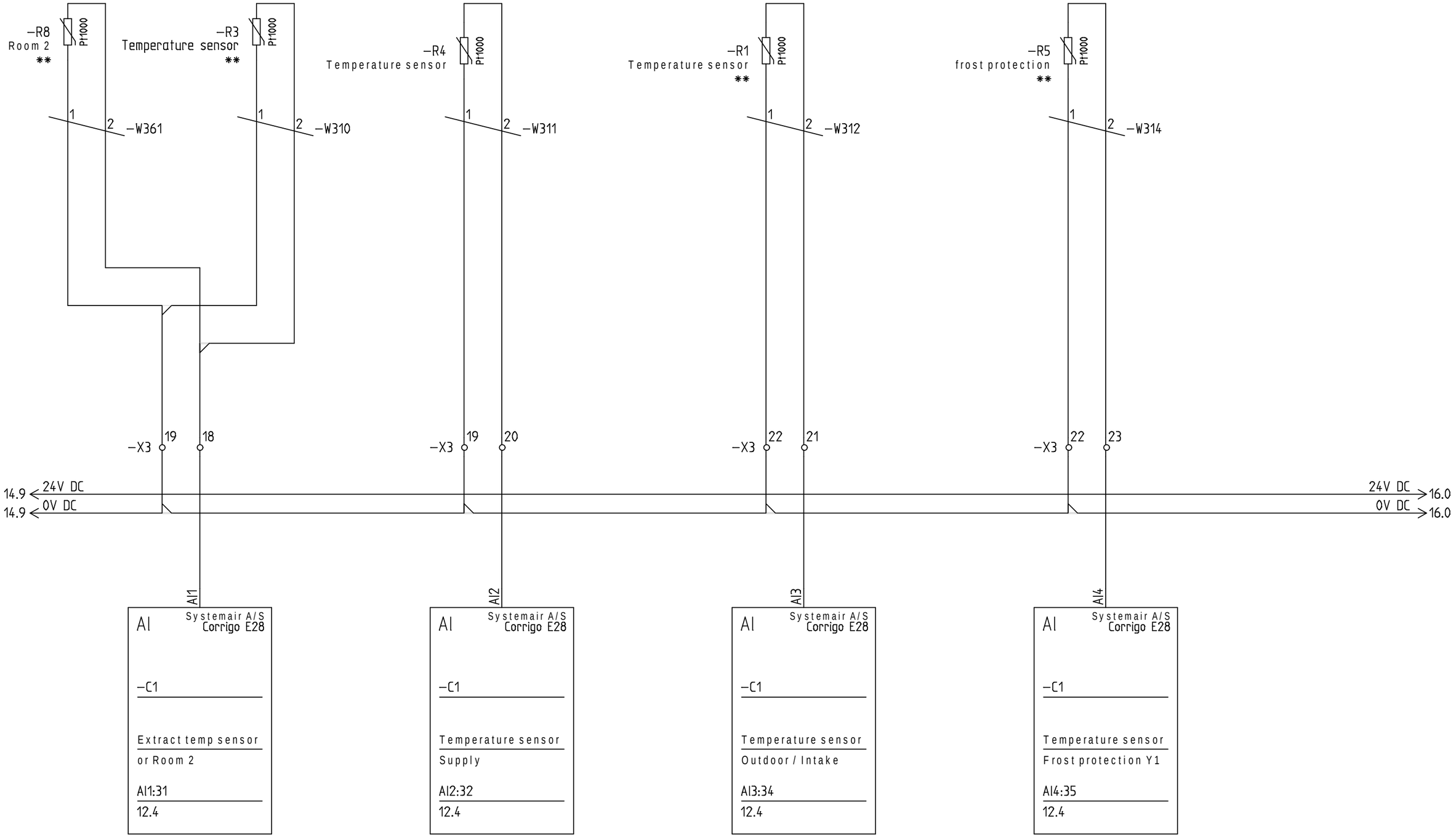
systemair		Corrigo E28	Project: Supply Control system	Drawing no.:	Init.: KAJU	Rev Date.: 12–06–2013	Version.: 02.05	Sheet: 12
			Date: 12–11–2012	Function: =T1	Cabinet:	Total sheets: 13		Next sheet: =T1/13



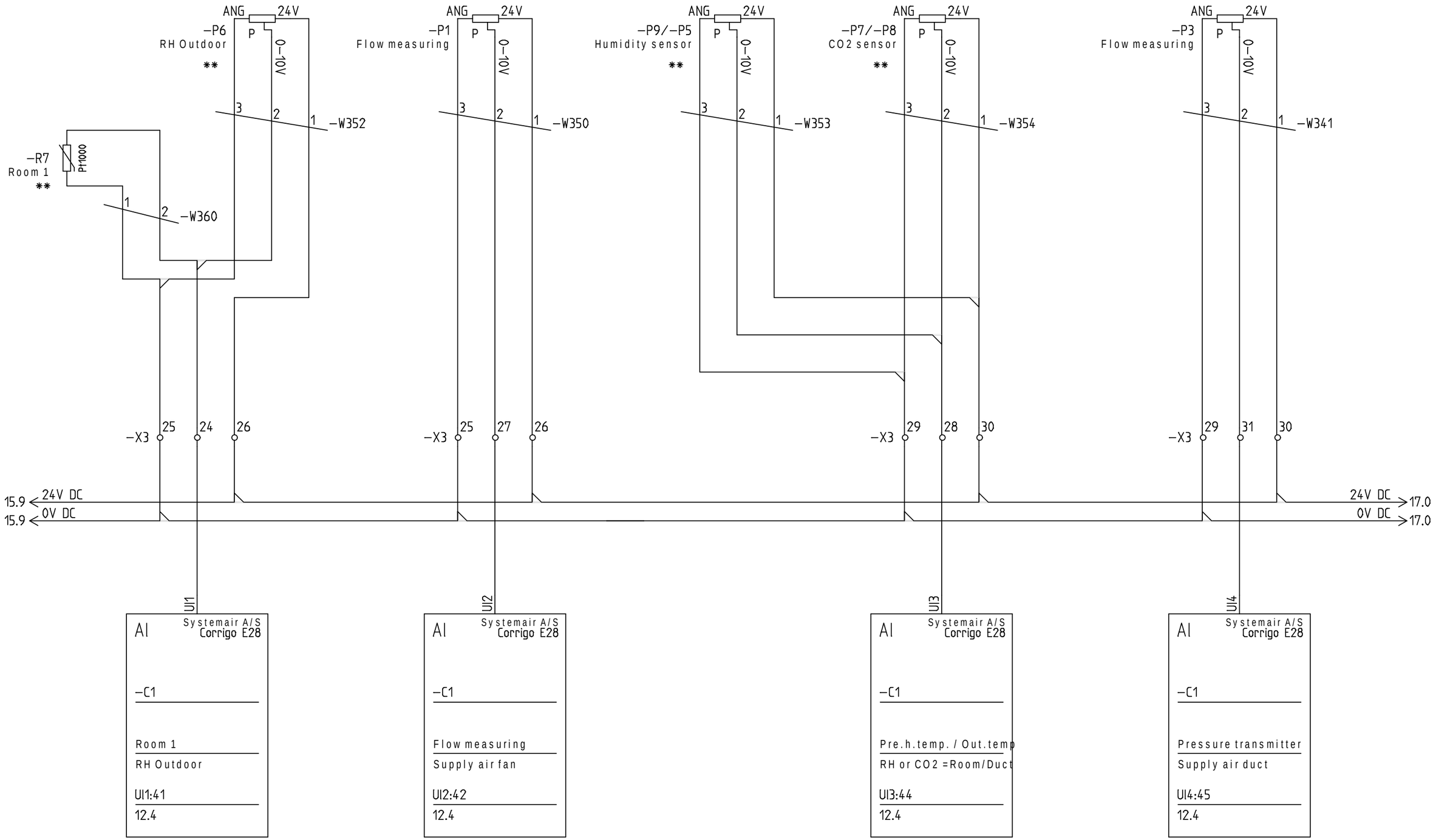
systemair		Digital Input	Project: Supply Control system	Drawing no.:	Init.: KAJU	Rev Date.: 12-06-2013	Version.: 02.05	Sheet: 13
			Date: 12-11-2012	Function: =T1	Cabinet:	Total sheets: 13		Next sheet: =T1/14



systemair		Digital Input	Project: Supply Control system	Drawing no.:	Init.: KAJU	Rev Date.: 12–06–2013	Version.: 02.05	Sheet: 14
			Date: 25–11–2012	Function: =T1	Cabinet:	Total sheets: 13		Next sheet: =T1/15



systemair		Analog input	Project: Supply Control system	Drawing no.:	Init.: KAJU	Rev Date.: 12-06-2013	Version.: 02.05	Sheet: 15
			Date: 12-11-2012	Function: =T1	Cabinet:	Total sheets: 13		Next sheet: =T1/16

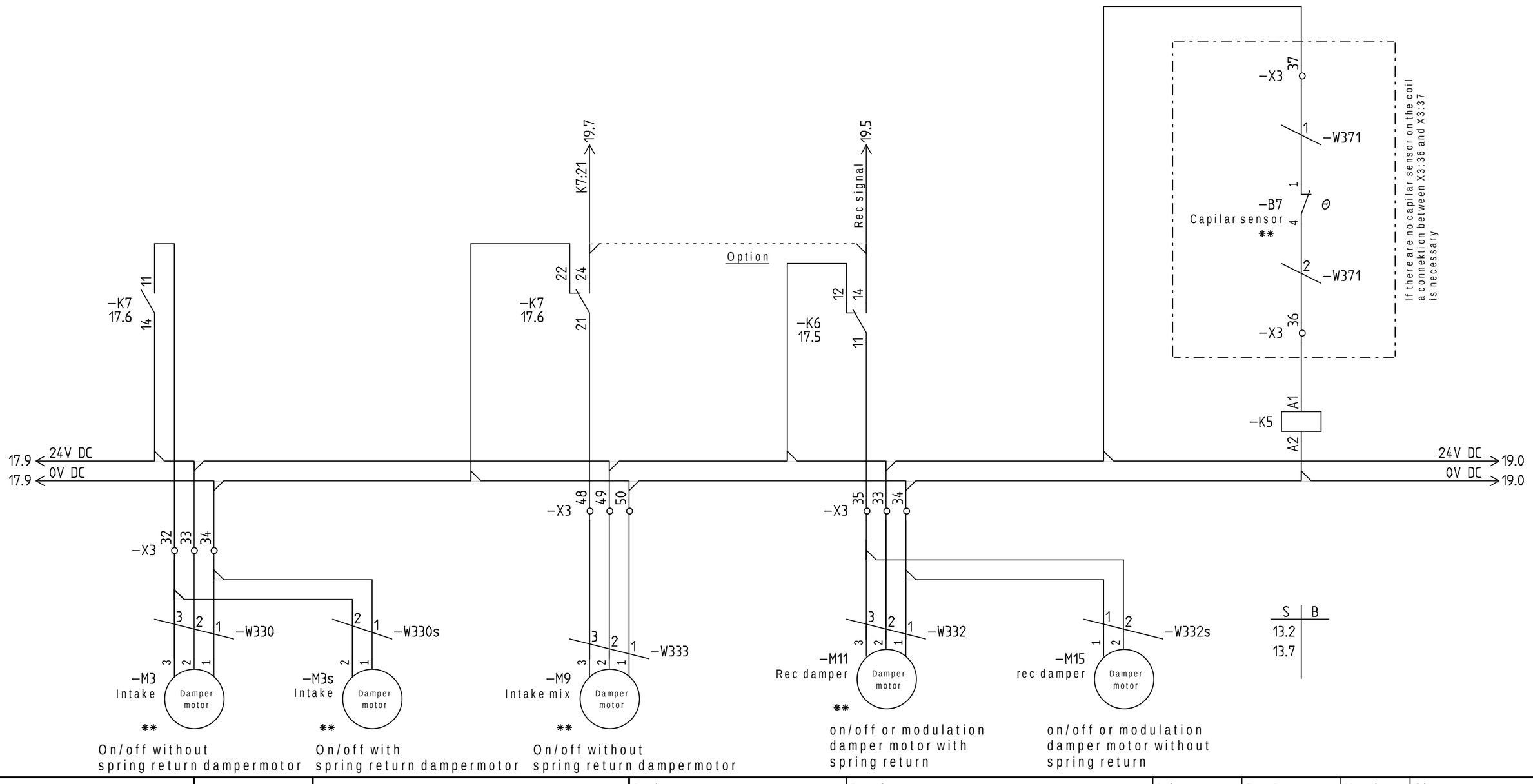


systemair		Universal input	Project: Supply Control system	Drawing no.:		Init.: KAJU	Rev Date.: 12–06–2013	Version.: 02.05	Sheet: 16
			Date: 25–11–2012	Function: =T1	Cabinet:		Total sheets: 13		Next sheet: =T1/17

Systemair A/S	Systemair A/S	Systemair A/S	Systemair A/S	Systemair A/S	Systemair A/S	Systemair A/S
Corrigo E28	Corrigo E28	Corrigo E28	Corrigo E28	Corrigo E28	Corrigo E28	Corrigo E28
–C1	–C1	–C1	–C1	–C1	–C1	–C1
Fan	Heating	Cooling	Alarm signal	Damper motor	Damper motor	Electrical preheating
Start	Start	Start		Recirculation	Intake	
D01:11	D02:12	D03:13	D04:14	D05:15	D06:16	D07:17
12.6	12.6	12.6	12.6	12.6	12.6	12.6
D0	D0	D0	D0	D0	D0	D0
D01	D02	D03	D04	D05	D06	D07

	–K1	–K2	–K3	–K4	–K6	–K7	–K8
A2							
A1							
16.9	24V DC						24V DC 18.0
16.9	0V DC						0V DC 18.0
S	13.2	11.4	20.1	20.5	18.5	18.1	19.8
B	20.4	20.2			18.5	18.3	

systemair		Digital output	Project: Supply Control system	Drawing no.:	Init.: KAJU	Rev Date.: 12–06–2013	Version.: 02.05	Sheet: 17
			Date: 19–11–2012	Function: =T1	Cabinet:	Total sheets: 13		Next sheet: =T1/18



systemair		Digital output	Project: Supply Control system	Drawing no.:	Init.: KAJU	Rev Date.: 12−06−2013	Version.: 02.05	Sheet: 18
			Date: 19−11−2012	Function: =T1	Cabinet:	Total sheets: 13		Next sheet: =T1/19

Systemair A/S
–C1 Corrigo E28
Fan speed
A01:91
12.8
A0

Systemair A/S
–C1 Corrigo E28
Heating coil Y1
Capacity
A02:92
12.8
A0

Systemair A/S
–C1 Corrigo E28
Cooling / changeover
Capacity
A03:93
12.8
A0

Systemair A/S
–C1 Corrigo E28
Recirculation
capacity
A04:94
12.8
A0

Systemair A/S
–C1 Corrigo E28
El preheater /
Split Y2
A05:95
12.8
A0

A01
A02
A03
A04
A05

18.5 Rec signal
Preheating 14.5
18.3 K7:21
L 11.8
–K8 17.7
14 11
N 11.8

18.9 24V DC
18.9 0V DC
24V DC 20.3
0V DC 20.3

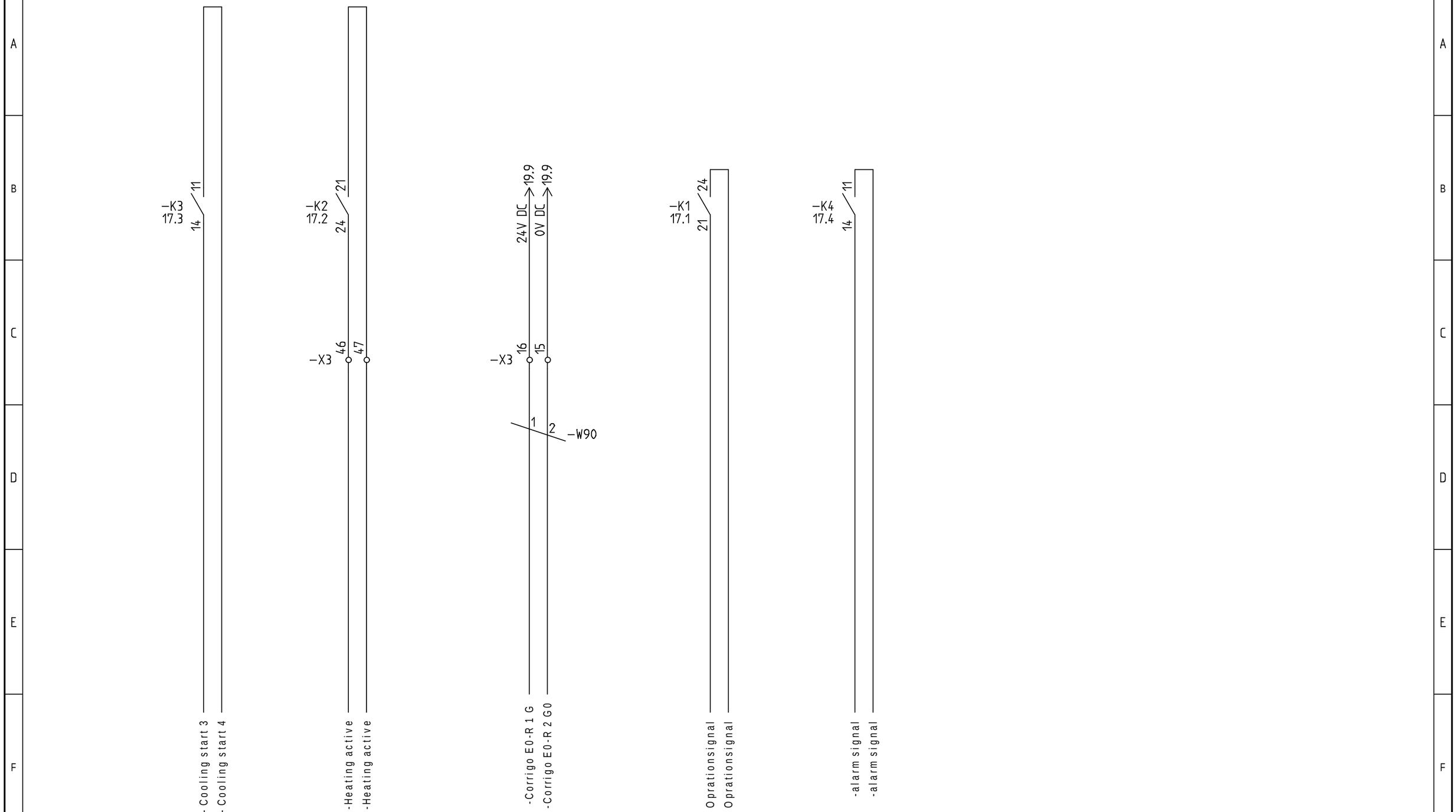
–X3 7 8
T102 13.2
T102 13.3

–X3 39 38 37
3 2 1 –W320
–M7
Valve for heating
SYV
**
Modulating motor
B8:Y 14.7
B8:GO 14.7

–X3 40 42 41
3 2 1 –W321
–M8
Valve for cooling
+ change over
SVK
**
Modulating motor

–X3 43 45
44 41
51
1 2 3 4 5 6 –W900
1 2 Y GO 7 8
External power
L1 L2 L3 N PE
–B9
Electrical pre-heater
**

systemair		Analog output	Project: Supply Control system	Drawing no.:	Init.: KAJU	Rev Date.: 12–06–2013	Version.: 02.05	Sheet: 19
			Date: 19–11–2012	Function: =T1	Cabinet:	Total sheets: 13		Next sheet: =T1/20



systemair		Analog output	Project: Supply Control system	Drawing no.:	Init.: KAJU	Rev Date.: 12-06-2013	Version.: 02.05	Sheet: 20
			Date: 19-11-2012	Function: =T1	Cabinet:	Total sheets: 13		Next sheet: =VLT FC-101/21

Set-up Danfoss FC101 for DV-units with AC motors

Connections:

0–10V:	Terminal 54-55
Start:	Terminal 12-18
Thermistor:	Terminal 50-53
Drive ready:	Terminal 1-2

Systemair factory set-up is based on Danfoss initialisation.

14–22: Operation mode:	[2] Initialisation (Danfoss Initialisation)

Systemair factory set-up:

0-01: Language selection:	
1-03: Torque characteristic:	Single fan: [3] Auto-Energy optim. With twin fan set-up: [1] Variable Torque
1-20: Motor Power:	According to motor plate / order papers With twin fan set-up total power must be used
1-24: Motor Current:	According to motor plate / order papers With twin fan set-up total current must be used
1-25: Motor Nominal Speed:	According to motor plate / order papers
1-42: Motor Cable Length:	3m
1-50: Motor Magnetisation at zero speed.:	0 %
1-52: Min. Speed Normal Magnetisation:	10 Hz
1-73: Flying Start:	[0] Disabled
1-90: Motor Thermal Protection:	[2] Thermistor trip
3-15: Reference 1 Source:	[2] Analog input AI54
1-93: Thermistor Source:	[1] Analog input AI53
3-03: Maximum Reference:	Max. Hz from order papers
3-16 + 3-17: Reference 2- and 3 Source:	[0] No function
3-41 + 342: Ramp 1 up and down:	20 Sec.
4-14: Motor Speed High Limit:	90Hz
4-19: Max. Output Frequency:	90Hz
5-12: Terminal 27 Digital input:	[0] No operation
5-40.0: Function Relay:	[3] Drive ready/remote
5-40.1: Function Relay:	[3] Drive ready/remote
6-25: Terminal 54 High Reference:	Max. Hz from order papers
14-20: Reset Mode:	[2] Automatic reset x 2
0-50: LCP Copy:	[1] All to LCP (Copy of settings to panel)

To store Systemair factory settings from the control panel:

0–50: LCP Copy:	[2]

Set-up Danfoss FC101 for DV-units with PM motors

Connections:

0–10V:	Terminal 54-55
Start:	Terminal 12-18
Thermistor:	Terminal 50-53
Drive ready:	Terminal 1-2

Systemair factory set-up is based on Danfoss initialisation.

14–22: Operation mode:	[2] Initialisation (Danfoss Initialisation)

Systemair factory set-up:

0-01: Language selection:	
1-06: Clockwise Direction:	[1] Inverse
1-10: Motor Construction:	[1] PM, non salient SPM
1-24: Motor Current:	According to motor plate / Schedule
1-25: Motor Nominal Speed:	According to motor plate / Schedule
1-26: Motor Cont. Rated torque:	According to motor plate / Schedule
1-30: Stator Resistance (Rs):	According to motor plate / Schedule
1-37: d-axis inductance (Ld):	According to motor plate / Schedule
1-39: Motor Poles:	According to motor plate / Schedule
1-40: Back EMF at 1000 RPM:	According to motor plate / Schedule
1-42: Motor Cable Length:	3m
1-90: Motor Thermal Protection:	[2] Thermistor trip
3-15: Reference 1 Source:	[2] Analog input AI54
1-93: Thermistor Source:	[1] Analog input AI53
3-03: Maximum Reference:	According to motor plate / Schedule
3-16 + 3-17: Reference 2- and 3 Source:	[0] No function
3-41: Ramp 1 Up Time:	30 Sec.
3-42: Ramp 1 Down Time:	60 Sec.
4-14: Motor Speed High Limit:	According to motor plate / Schedule
4-19: Max. Output Frequency:	According to motor plate / Schedule
5-12: Terminal 27 Digital input:	[0] No operation
5-40.0: Function Relay:	[3] Drive ready/remote
5-40.1: Function Relay:	[3] Drive ready/remote
6-25: Terminal 54 High Reference:	According to motor plate / Schedule
14-20: Reset Mode:	[2] Automatic reset x 2
0-50: LCP Copy:	[1] All to LCP (Copy of settings to panel)

To store Systemair factory settings from the control panel:

0–50: LCP Copy:	[2]

Type Number	Name plate	RPM rated	Name plate	Ohm [Rf-f]	mH [Lf-f]	Poles	Bemf @ 1000	Max Hz	Max motor Hz
HPS 71 3800 18	1,8	3800	2	3,600	13,00	6	67	215	219
HPS 71 3700 28	2,8	3700	3,6	1,580	6,10	6	79	191	204
HPS 71 3300 18	1,8	3300	2,6	5,750	20,50	6	85	170	182
HPS 71 3200 30	3	3200	4,2	1,850	7,25	6	84	161	176
HPS 71 2900 21	2,1	2900	3,3	4,500	14,75	6	95	143	160
HPS 71 2800 40	4	2800	6,14	1,675	6,75	6	95	144	154
HPS 71 2500 29	2,9	2500	5	3,000	11,00	6	105	129	138
HPS 71 2350 38	3,8	2350	7,3	2,300	9,35	6	115	120	129
HPS 90 2650 64	6,4	2650	9,6	1,250	10,75	8	87	182	194
HPS 90 2350 76	7,6	2350	13	0,800	10,00	8	103	159	172
HPS 90 2100 63	6,3	2100	10,5	1,500	14,75	8	101	142	154
HPS 90 2050 100	10	2050	19	0,810	8,75	8	115	140	150
HPS 90 1850 84	8,4	1850	16	1,050	11,50	8	110	127	136
HPS 90 1900 136	13,6	1900	26	0,575	7,25	8	110	127	139
HPS 90 1700 106	10,6	1700	22	0,900	11,00	8	117	116	125
HPS 112 1550 108	10,9	1550	32	0,750	8,75	6	178	80	85
HPS 112 1700 145	14,5	1700	39	0,465	5,45	6	162	88	94
HPS 112 1350 135	13,5	1350	44	0,490	6,45	6	197	69	74
HPS 112 1500 187	18,7	1500	54	0,295	4,35	6	175	76	83
HPS 112 1000 140	14	1000	51	0,475	7,00	6	242	54	55
HPS 132 1250 199	19,9	1250	69	0,255	7,60	6	210	65	69
HPS 132 1000 202	20,2	1000	77	0,315	9,25	6	230	51	65
HPS 132 1150 300	30	1150	104	0,235	8,00	6	230	58	65
HPS 132 930 273	27,3	930	118	0,280	9,75	6	261	46	65

systemair

Project:	Drawing no.:	Init.:	Rev Date.:	Version.:	Sheet:
Supply Control system		KAU	06-12-2013 14:51:14	02.05	22
Date:	Function:	Cabinet:	Total sheets:		Next sheet:
12-01-2013	=VLT FC-101		13		

List of spare parts

Name(-)	Amount	Type	Supplier	Description	Manufacture
–W100	0.00	Y–OZ	Miltronic	Motorcabel	Miltronic
–W101.1	0.00				
–W101.3	0.00	Y–OZ	Miltronic	Motorcabel	Miltronic
–W101.4	0.00	Y–OZ	Miltronic	Motorcabel	Miltronic
–W701	0.00	Y–OZ	Miltronic	Motorcabel	Miltronic
–W1000	0.00	Not delivered	Not delivered	Not delivered	Not delivered
–B1	1.00				
–B2	1.00				
–B4	1.00				
–B6	1.00				
–B7	1.00				
–B8	1.00				
–B9	1.00				
–C1	1.00				
–DC	1.00				
–DC	1.00				
–F1	1.00	552826	ABB	Automatic tripping 10A	ABB
–F2	1.00	552826	ABB	Automatic tripping 10A	ABB
–K1	1.00				
–K2	1.00				
–K3	1.00				
–K4	1.00				
–K5	1.00				
–K6	1.00				
–K7	1.00				
–K8	1.00				
–M3	1.00	Damper motor spring return	Belimo	Dampermotor Spring return	Belimo
–M3s	1.00	Damper motor spring return	Belimo	Dampermotor Spring return	Belimo
–M7	1.00	Ventilmotor	Belimo	Valve motor	Belimo
–M8	1.00	Ventilmotor	Belimo	Valve motor	Belimo

List of spare parts

Name(-)	Amount	Type	Supplier	Description	Manufacture
–M9	1.00	Damper motor spring return	Belimo	Dampermotor Spring return	Belimo
–M11	1.00	Rec damper			
–M12	1.00	Not delivered	Not delivered	Not delivered	Not delivered
–M15	1.00				
–P1	1.00				
–P3	1.00				
–P6	1.00				
–P7/–P8	1.00				
–P9/–P5	1.00				
–R1	1.00				
–R3	1.00				
–R4	1.00				
–R5	1.00				
–R7	1.00	Tempsencor 3	Motron	Tempsencor , Pt 1000. 2 m wire	Motron
–R8	1.00				
–S2	1.00				
–S3	1.00				
–S4	1.00	Switch	El Matic	Switch for light	Elmatic
–T1	1.00				
–T101.1	1.00	VLT FC101 Danfoss			
–T101.2	1.00	VLT FC101 Danfoss			
–T103	1.00	VLT FC101 Danfoss			
–W90	0.00	Not delivered	Not delivered	Not delivered	Not delivered
–W101.2	0.00				
–W101.7	0.00	Y–OZ	Miltronic	Motorcabel	Miltronic
–W101.21	0.00				
–W101.22	0.00				
–W101.23	0.00	Y–OZ	Miltronic	Motorcabel	Miltronic
–W101.24	0.00	Y–OZ	Miltronic	Motorcabel	Miltronic
–W301	0.00				

List of spare parts

Name(-)	Amount	Type	Supplier	Description	Manufacture
-W301.1	0.00				
-W304	0.00				
-W306	0.00				
-W310	0.00				
-W311	0.00				
-W312	0.00				
-W314	0.00				
-W319	0.00				
-W320	0.00	Y-OZ	Miltronic	Motorcabel	Miltronic
-W321	0.00	Y-OZ	Miltronic	Motorcabel	Miltronic
-W330	0.00	Y-OZ	Miltronic	Motorcabel	Miltronic
-W330s	0.00	Y-OZ	Miltronic	Motorcabel	Miltronic
-W332	0.00	Y-OZ	Miltronic	Motorcabel	Miltronic
-W332s	0.00				
-W333	0.00	Y-OZ	Miltronic	Motorcabel	Miltronic
-W341	0.00				
-W350	0.00				
-W352	0.00				
-W353	0.00				
-W354	0.00				
-W360	0.00				
-W361	0.00				
-W371	0.00				
-W380	0.00	Y-OZ	Miltronic	Motorcabel	Miltronic
-W381	0.00				
-W700	0.00	Y-OZ	Miltronic	Motorcabel	Miltronic
-W900	0.00				
-X1	4.00	1492-J16	ROCKWELL	Supply terminal L1,L2,L3	ROCKWELL
-X1	1.00	1492-JG16	ROCKWELL	Supply terminal PE	ROCKWELL
-X2	4.00	1492-K2	ROCKWELL	Terminal 1 in 1 out	ROCKWELL

List of spare parts

Name(-)	Amount	Type	Supplier	Description	Manufacture
-X3	38.00	1492-K2	ROCKWELL	Terminal 1 in 1 out	ROCKWELL
-X3	2.00	1492-EBK2	ROCKWELL	Dividingplate for terminal 1 ind 1 ud	ROCKWELL
-X3	2.00	1492-ERL35	ROCKWELL	Stop for terminals	ROCKWELL
-X3	14.00				

Terminal Matrix

Terminal Strip: -X1

Path	1	1	1	1	2
Sheet	10	10	10	10	10

Note	Cable type	Cable name	----- Cable -----

Connection 1	Term.	No.	Connection 2
– Supply L1	0	L1	–F1:2
– Supply L2	0	L2	–F1:4
– Supply L3	0	L3	–F1:6
– Supply N	0	N	–F2:N
– Supply PE	0	PE	PE

Main supply	Not delivered	–W1000	1	2	3	4	5

Note	Cable type	Cable name	----- Cable -----

systemair

–X1

Project:	Drawing no.:	Rev.:	Init.:
Supply Control system		02.05	KAJU
Date:	**Function:**	**Location:**	**Page:**
12–06–2013	=T1		60

Terminal Matrix

Terminal Strip: -X2

Path	4		4				6		6	
Sheet	11		11				11		11	

Note	Cable type	Cable name	----- Cable -----

Connection 1	Term.	No.	Connection 2
	O	1	
-B8:8	O		-K2:14
-M12:U	O	2	
-B8:7	O		
-M12:N	O		-F2:N
-P20:N	O		-X3:51
	O	3	
-S4	O		
-P20:L1	O	4	-K8:11
-S4	O		-T1:L

Mixing pump	Y-OZ	-W100		1		2					
Light P20	Y-OZ	-W701					2		1		
Electrical heating coil		=T1-W319	6		5						
Light switch	Y-OZ	=T1-W700						2		1	

Note	Cable type	Cable name	----- Cable -----

systemair

-X2

Project:	Drawing no.:	Rev.:	Init.:
Supply Control system		02.05	KAJU
Date:	**Function:**	**Location:**	**Page:**
12-06-2013	=T1		61

Terminal Matrix

Terminal Strip: -X3

Note	Cable type	Cable name
Filter guard		=T1–W301
Filter guard		=T1–W301.1
		=T1–W310
Temperature sensor		=T1–W311
		=T1–W312
Frost protc		=T1–W314
Electrical heating coil		=T1–W319
Room sensor No.2		=T1–W361
Extended operation		=T1–W381

Path	Sheet	Connection 2	Cable (upper)	No.	Term.	Connection 1	Cable (lower)
1	13	–B2:3	=T1–W301.1: 2	0	○	–C1:DI1	
1	13	–B1:3	=T1–W301: 2	1	○	–B2:1	=T1–W301.1: 1
1	13	–C1:1 G		2	⊚	–B1:1	=T1–W301: 1
2	13			3	○	–T101.1:12	=T1–W101.2: 1
		–K1:11			○	–T103:12	=T1–W101.22: 1
2	13			4	○	–T101.1:18	=T1–W101.2: 2
		–K5:21			○	–T103:18	=T1–W101.22: 2
2	13			5	⊚	–T101.1:01	=T1–W101.2: 3
2	13	–C1:DI2		6	○	–T101.1:02	=T1–W101.2: 4
1	19			7	○	–T101.1:54	=T1–W101.2: 5
		–C1:A01			○	–T103:54	=T1–W101.22: 5
1	19			8	⊚	–T101.1:55	=T1–W101.2: 6
		–K5:A2			○	–T103:55	=T1–W101.22: 6
6	13	–C1:DI3		9	○	–Cooling start:14	
6	13			10	⊚	–Cooling start:11	
		–K5:11			○	–S2	=T1–W380: 1
		–K5:11			○		
8	13	–C1:DI5		11	○	–S2	=T1–W380: 2
9	13	–C1:DI6		12	○	–S3	=T1–W381: 2
9	13			13	⊚	–B4	=T1–W304: 1
					○	–Ext fire sig.	
		–S3–1			○	–B6:4	=T1–W306: 3
1	14			14	○	–B4	=T1–W304: 2
					○	–Ext fire sig.	
		–C1:DI7			○	–B6:10	=T1–W306: 4
3	20			15	⊚	–Corrigo E0–R 2 G0	=T1–W90: 2
		–C1:2 G0			○	–B6:1	=T1–W306: 1
3	20			16	⊚	–Corrigo E0–R 1 G	=T1–W90: 1
		–B8:1	=T1–W319: 1		○	–B6:2	=T1–W306: 2
6	14	–C1:DI8		17	⊚	–B8:2	=T1–W319: 2
1	15	–R3	=T1–W310: 2	18	○	–C1:AI1	
		–R8	=T1–W361: 2		○		
1	15	–R3	=T1–W310: 1	19	⊚		
		–R8	=T1–W361: 1		○		
		–R4	=T1–W311: 1		○		
3	15	–R4	=T1–W311: 2	20	○	–C1:AI2	
5	15	–R1	=T1–W312: 2	21	○	–C1:AI3	
5	15	–R1	=T1–W312: 1	22	⊚		
		–R5	=T1–W314: 1		○		
7	15	–R5	=T1–W314: 2	23	○	–C1:AI4	

Note	Cable type	Cable name
Remote panel	Not delivered	=T1–W90
VLT control		=T1–W101.2
VLT control		=T1–W101.22
Filter guard		=T1–W301
Filter guard		=T1–W301.1
Fire thermostat		=T1–W304
Smoke detector		=T1–W306
Electrical heating coil		=T1–W319
Extended operation	Y–OZ	=T1–W380
Extended operation		=T1–W381

systemair

–X3

Project: Supply Control system	Drawing no.:	Rev.: 02.05	Init.: KAJU
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Terminal Matrix

Terminal Strip: **-X3**

CO2 Sensor =T1-W354
Room sensor No.1 =T1-W360

Note	Cable type	Cable name	Connection 1	Connection 2	No.	Term.
						Path
						Sheet
Flow measuring		=T1-W341				
Flow measuring		=T1-W350				
RH Outdoor		=T1-W352				
		=T1-W353				
		=T1-W354				
		=T1-W360				
Electrical heating coil		=T1-W319				
Heating valve	Y-OZ	=T1-W320				
Cooling valve	Y-OZ	=T1-W321				
Intake damper	Y-OZ	=T1-W330				
Intake damper	Y-OZ	=T1-W330s				
Rec mixing damper	Y-OZ	=T1-W332				
Rec mixing damper		=T1-W332s				
Intake mix damper	Y-OZ	=T1-W333				
Capilar sensor		=T1-W371				
Electrical preheating		=T1-W900				

----- Cable -----

Path	Sheet	Cable	Connection 1	Connection 2	No.	Term.
1	16	2	-C1:UI1	-P6:0-10V	24	
				-R7		
1	16	3		-P6:ANG	25	
				-R7		
				-P1:ANG		
3	16	1	-C1:UI2	-P1:24V	26	
			-C1:UI3	-P6:24V		
3	16	2		-P1:0-10V	27	
6	16			-P7/-P8:0-10V	28	
				-P9/-P5:0-10V		
6	16		-K1:A1	-P7/-P8:ANG	29	
				-P9/-P5:ANG		
		3		-P3:ANG		
8	16	1	-C1:UI4	-P3:24V	30	
			-M3:3	-P7/-P8:24V		
			-M3s:2	-P9/-P5:24V		
8	16	2	-M3:2	-P3:0-10V	31	
1	18		-M11:2		32	
			-M3:1	-K7:11		
1	18		-M3s:1		33	
			-M11:1	-K7:14		
			-M15:1	-K6:12		
1	18		-M11:3		34	
			-M15:2			
			-B7:4			
			-M7:1	-K7:22		
			-B7:1	-K5:A2		
5	18		-B8:GO		35	
			-M7:2	-K6:11		
8	18		-B8:Y	-K5:A1	36	
2	19		-M7:3		37	
			-M8:3			
2	19		-M8:1		38	
			-B9:GO			
2	19		-M8:2		39	
			-B9:1	-C1:A02		
4	19		-B9:Y	-C1:A03	40	
4	19		-B9:2		41	
			-Heating active			
4	19		-Heating active		42	
6	19		-M9:3		43	
7	19		-M9:2	-C1:A05	44	
6	19		-M9:1		45	
			-B9:7			
2	20			-K2:24	46	
2	20			-K2:21	47	
3	18			-K7:21	48	
4	18			-K6:12	49	
4	18			-K7:22	50	
8	19			-X2:2	51	

Note Cable type Cable name ----- Cable -----

systemair

-X3

Project:	Drawing no.:	Rev.:	Init.:
Supply Control system		02.05	KAJU
Date:	**Function:**	**Location:**	**Page:**
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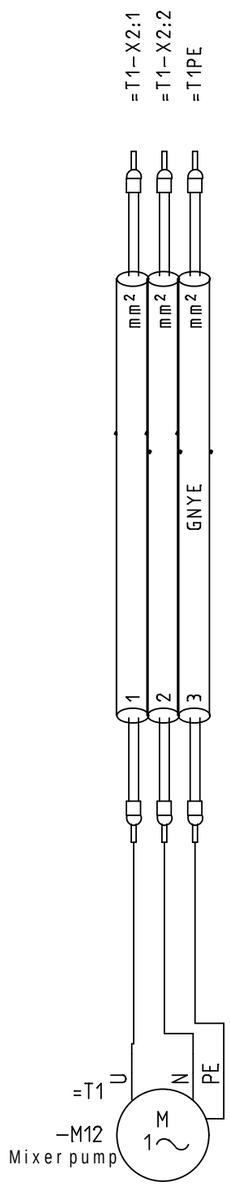
Cabelplan

Path	Sheet
4	11
4	11
4	11
3	10
4	10
4	10
4	10
3	10
4	10
4	10
4	10
4	10
3	10
3	10

-W100

Description: Mixing pump

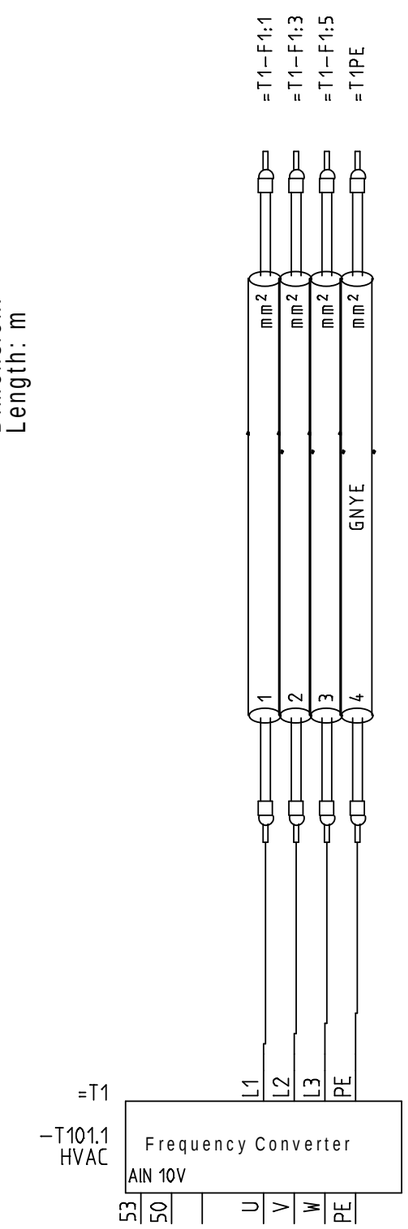
Type: Y-OZ
Dimension:
Length: m



-W101.1

Description: VLT Power

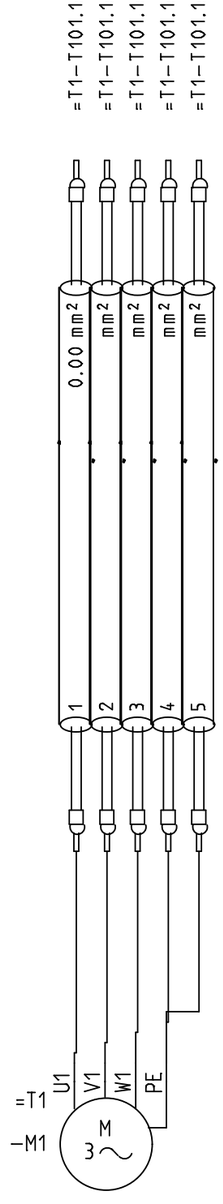
Type:
Dimension:
Length: m



-W101.3

Description: Fan supply

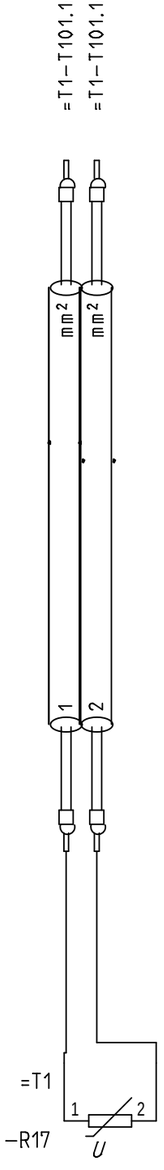
Type: Y-OZ
Dimension:
Length: m



-W101.4

Description: Thermistor

Type: Y-OZ
Dimension:
Length: m



systemair			Project: Supply Control system	Init.: KAJU	Rev.: 02.05	Sheet: 13
			Date: 12-06-2013	Funk	Dok. number	Page: 70

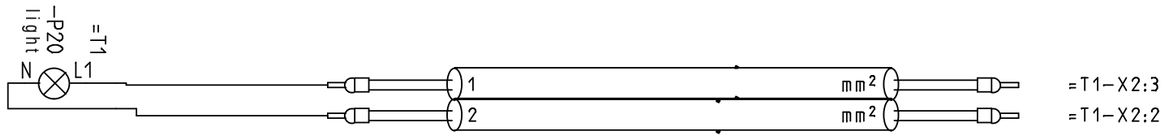
systemair

Cabelplan

-W701

Description: Light P20

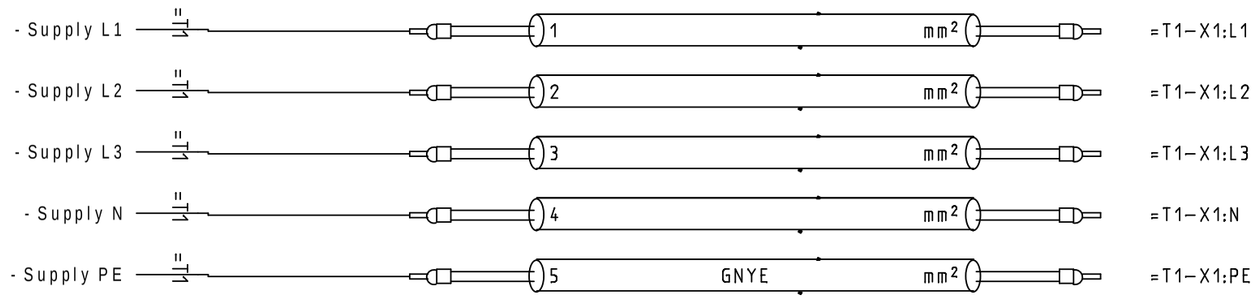
Type: Y-OZ
Dimension:
Length: m



-W1000

Description: Main supply

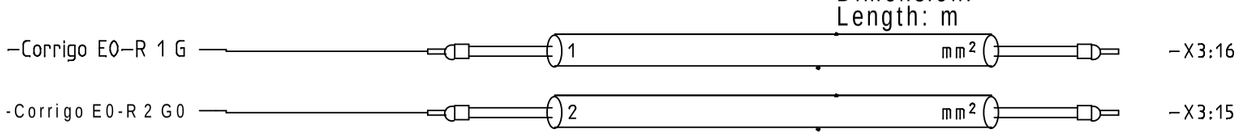
Type: Not delivered
Dimension:
Length: m



=T1-W90

Description: Remote panel

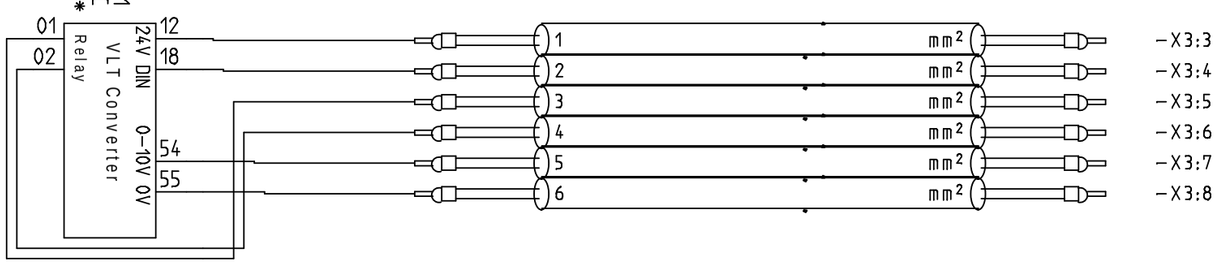
Type: Not delivered
Dimension:
Length: m



=T1-W101.2

Description: VLT control

Type:
Dimension:
Length: m



Sheet	Path
11	6
11	6
10	1
10	1
10	1
10	1
10	2
20	3
20	3
13	2
13	2
13	2
13	2
13	2
13	3

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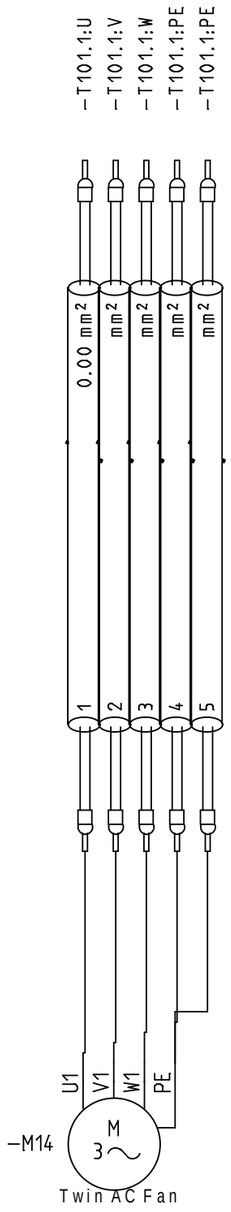
Cabelplan

=T1-W101.7

Description: Fan supply

Type: Y-OZ
Dimension:
Length: m

Sheet	Path
10	5
10	5
10	5
10	5
10	5

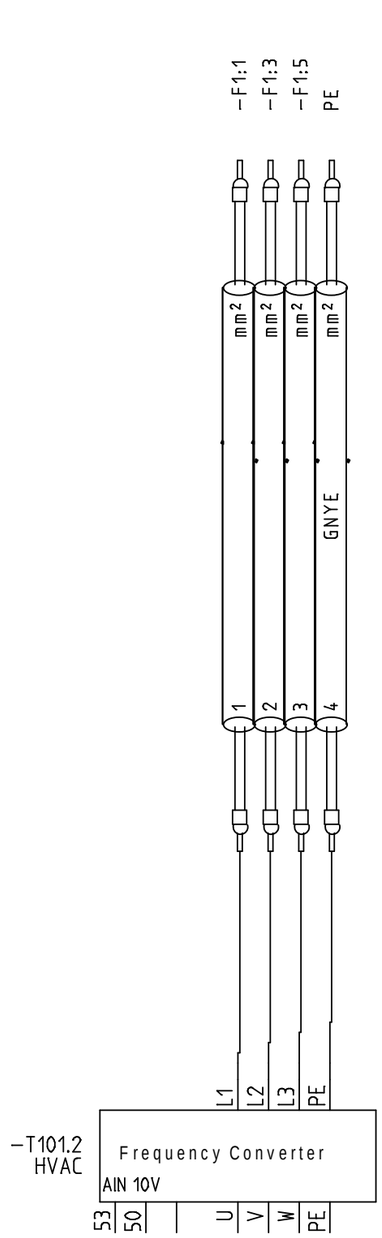


=T1-W101.21

Description: VLT power

Type:
Dimension:
Length: m

Sheet	Path
10	7
10	7
10	7
10	7

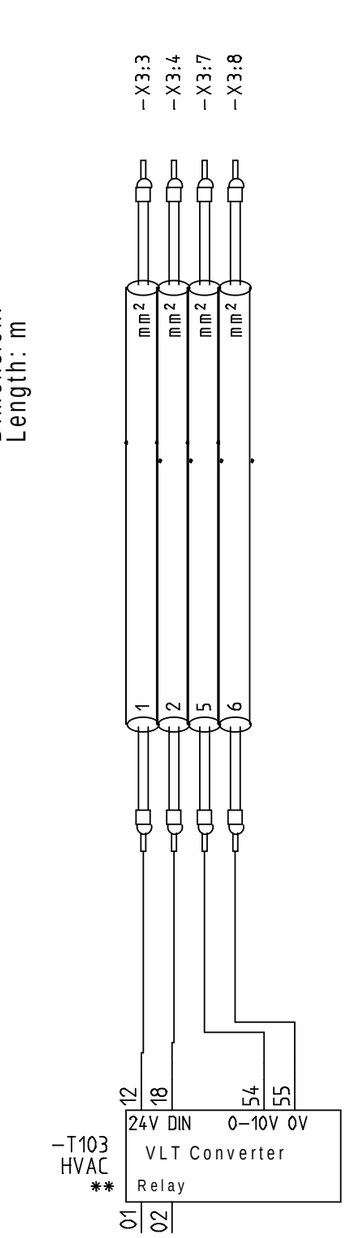


=T1-W101.22

Description: VLT control

Type:
Dimension:
Length: m

Sheet	Path
13	4
13	4
13	4
13	4



systemair

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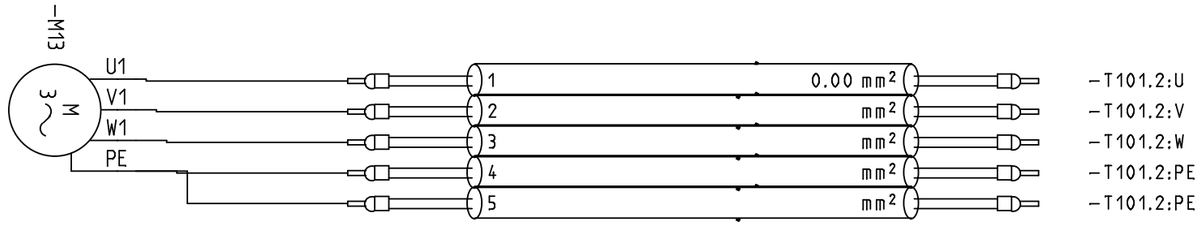
systemair

Cabelplan

=T1–W101.23

Description: Fan supply

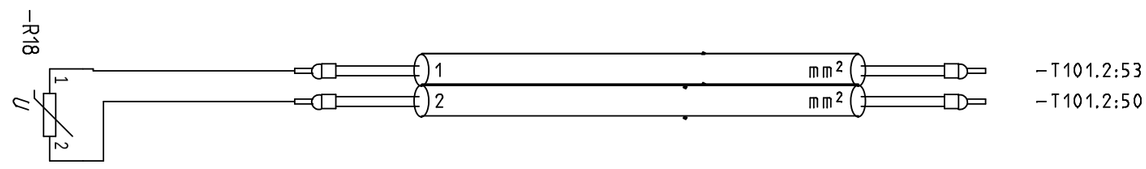
Type: Y-OZ
Dimension:
Length: m



=T1–W101.24

Description: Thermistor Twin PM

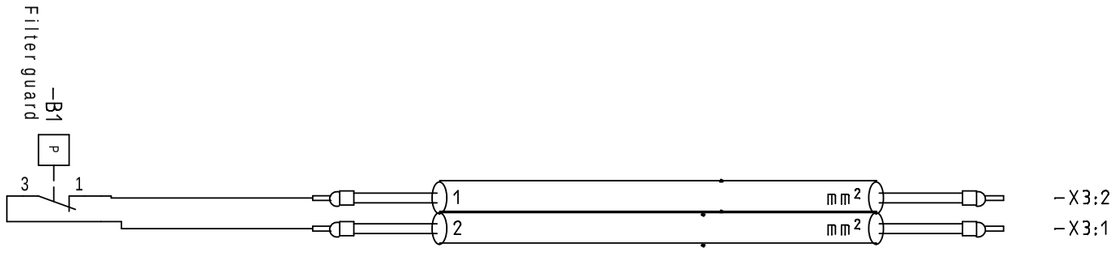
Type: Y-OZ
Dimension:
Length: m



=T1–W301

Description: Filter guard

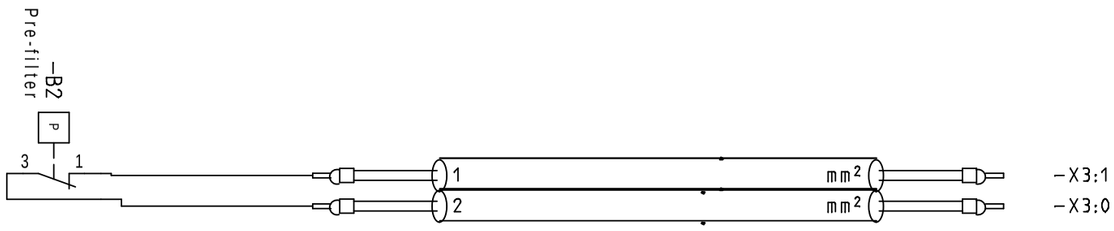
Type:
Dimension:
Length: m



=T1–W301.1

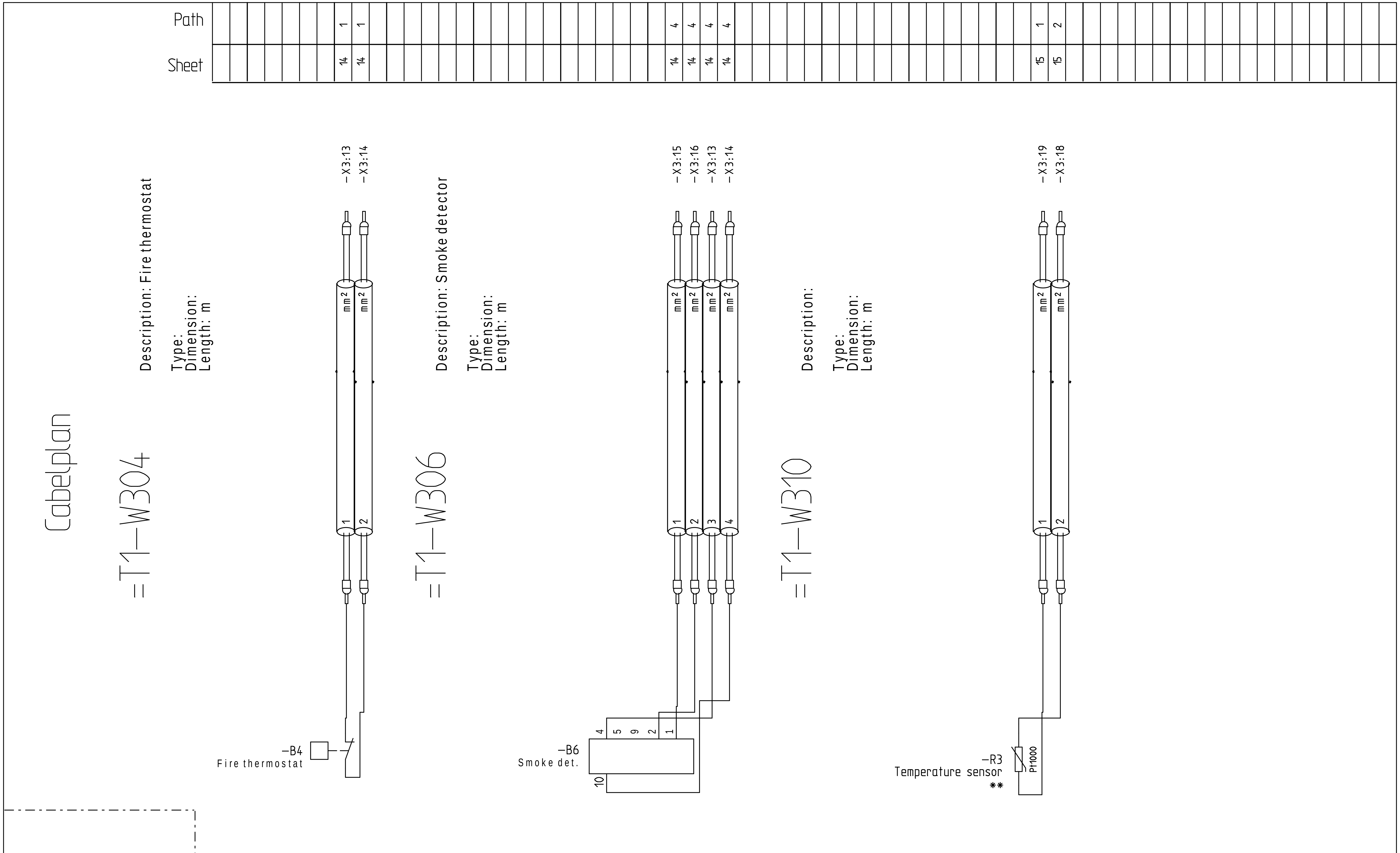
Description: Filter guard

Type:
Dimension:
Length: m



Sheet	Path
10	7
10	7
10	7
10	7
10	7
10	6
10	6
13	1
13	1
13	1
13	1

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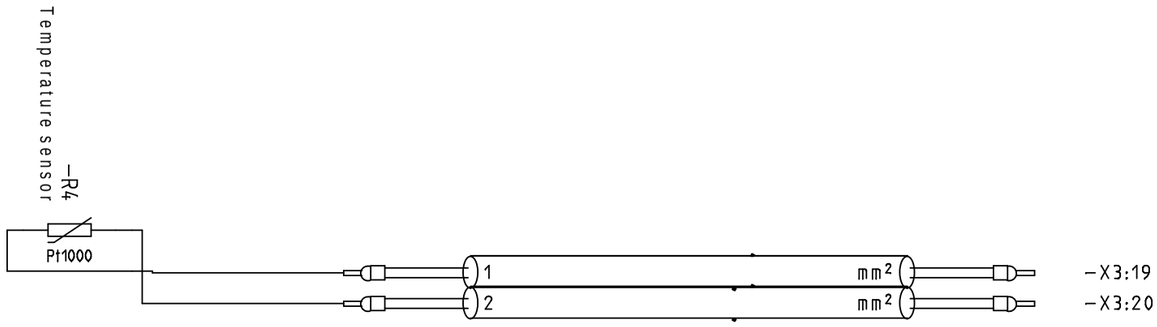
systemair

Cabelplan

=T1–W311

Description: Temperature sensor

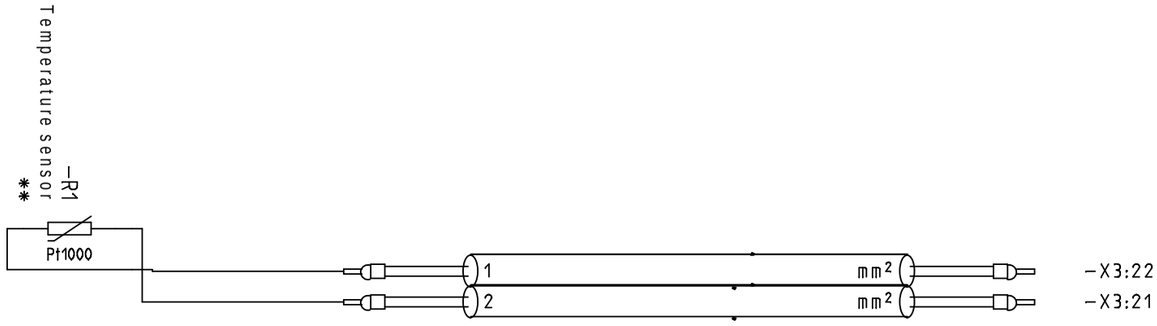
Type:
Dimension:
Length: m



=T1–W312

Description:

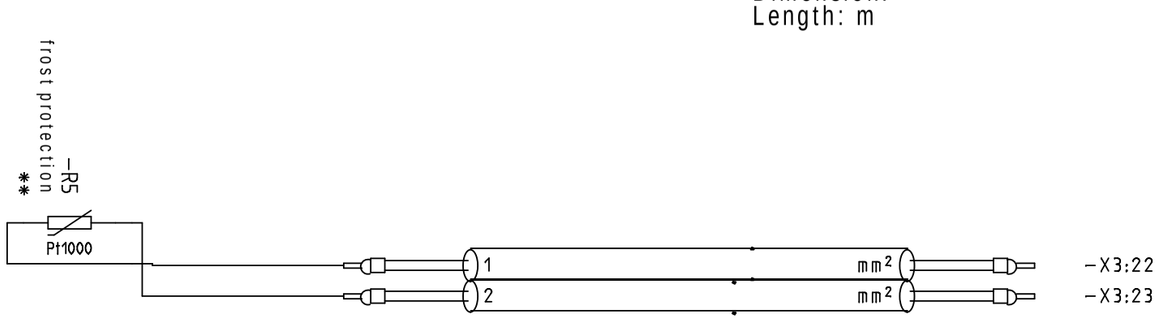
Type:
Dimension:
Length: m



=T1–W314

Description: Frost protc

Type:
Dimension:
Length: m



Sheet	Path
15	3
15	3
15	5
15	5
15	7
15	7

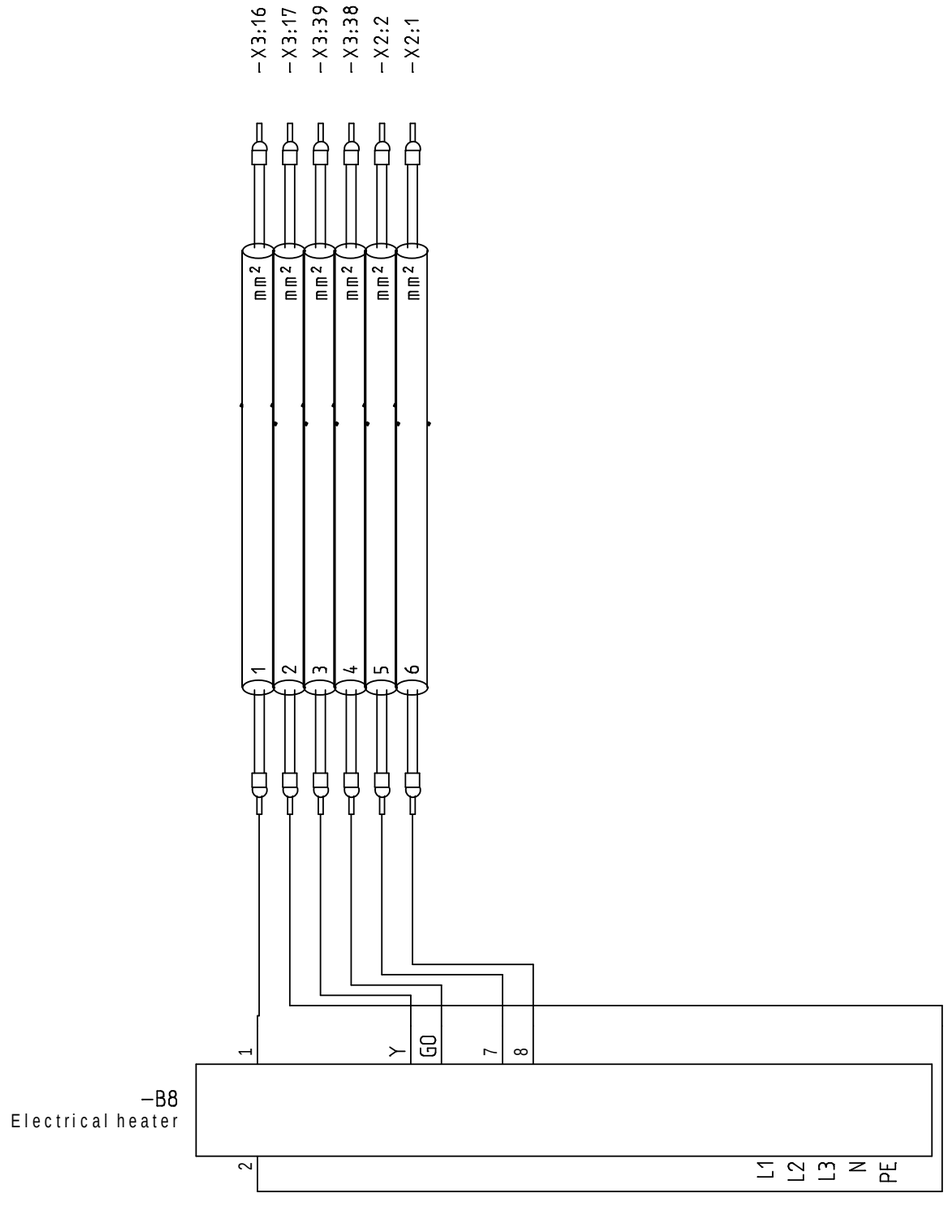
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Cabelplan

=T1-W319

Description: Electrical heating coil

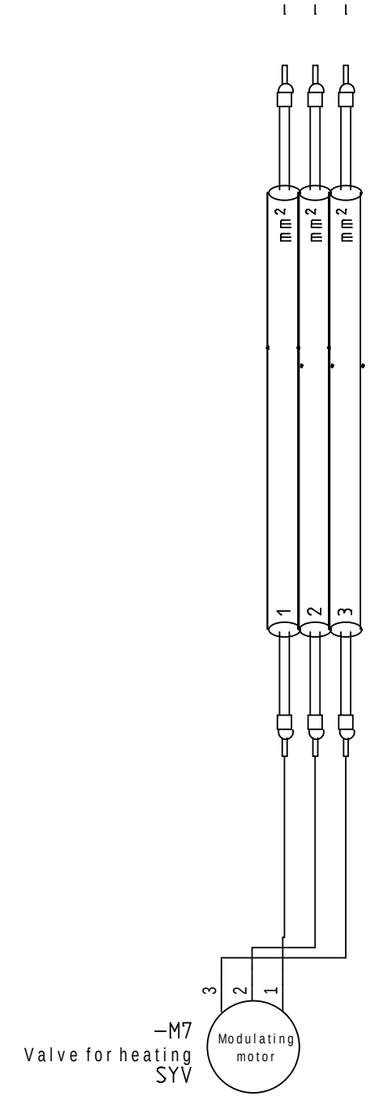
Type:
Dimension:
Length: m



=T1-W320

Description: Heating valve

Type: Y-OZ
Dimension:
Length: m



Path	6	6	7	7	7	7	2	2	2
Sheet	14	14	14	14	14	14	19	19	19

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	Path	Sheet
=T1-W321	4	19
	4	19
	4	19
=T1-W330	1	18
	1	18
	1	18
=T1-W330s	2	18
	2	18
=T1-W332	5	18
	5	18
	5	18

=T1-W321

Description: Cooling valve

Type: Y-OZ
Dimension:
Length: m

-X3:41 mm²
-X3:42 mm²
-X3:40 mm²

1 2 3

3 2 1

-M8
Valve for cooling
+ change over
SVK
**
Modulating motor

=T1-W330

Description: Intake damper

Type: Y-OZ
Dimension:
Length: m

-X3:34 mm²
-X3:33 mm²
-X3:32 mm²

1 2 3

3 2 1

-M3
Intake
Damper motor

=T1-W330s

Description: Intake damper

Type: Y-OZ
Dimension:
Length: m

-X3:34 mm²
-X3:32 mm²

1 2

2 1

-M3s
Intake
Damper motor

=T1-W332

Description: Rec mixing damper

Type: Y-OZ
Dimension:
Length: m

-X3:34 mm²
-X3:33 mm²
-X3:35 mm²

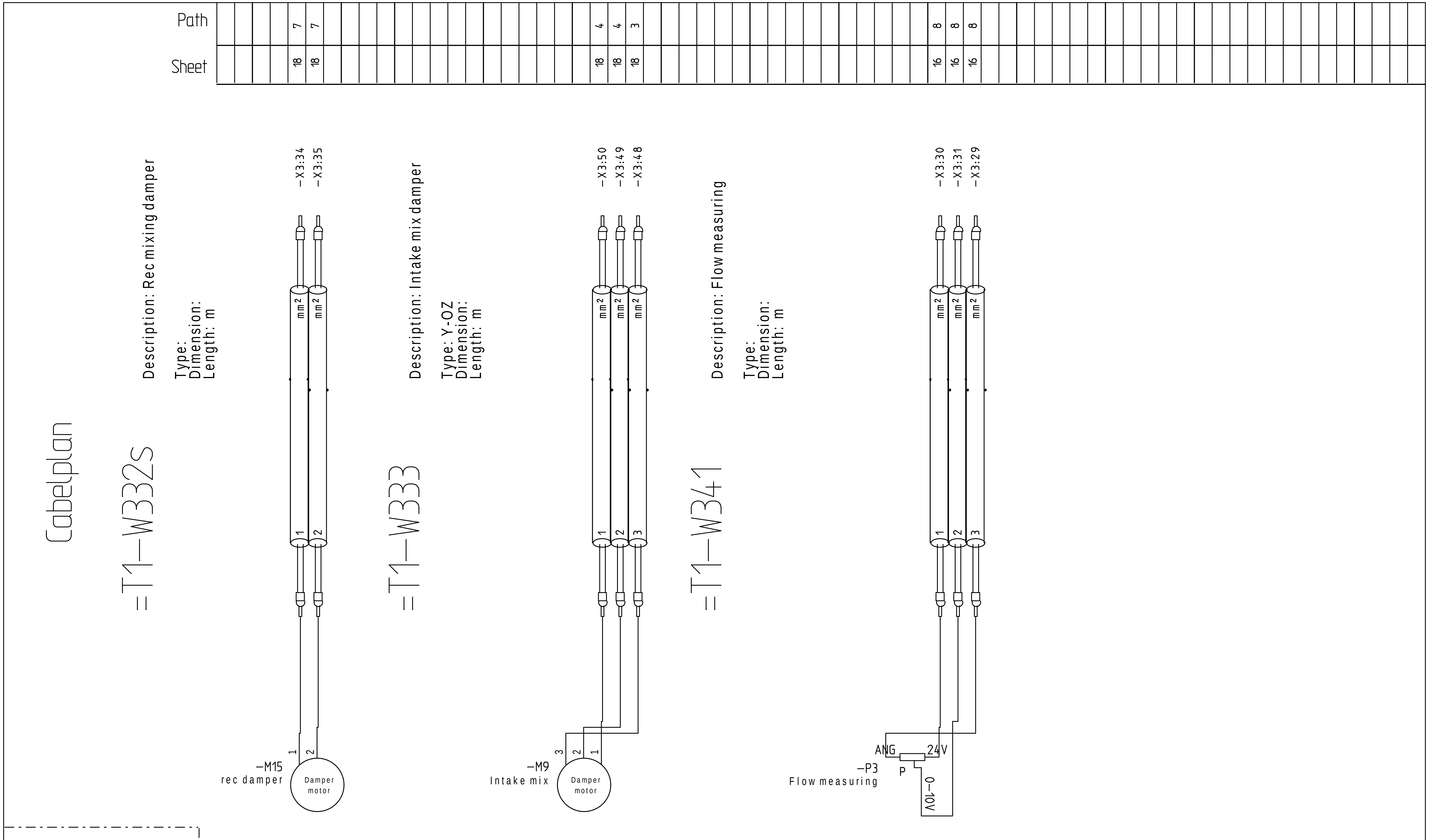
1 2 3

3 2 1

-M11
Rec damper
Damper motor

systemair

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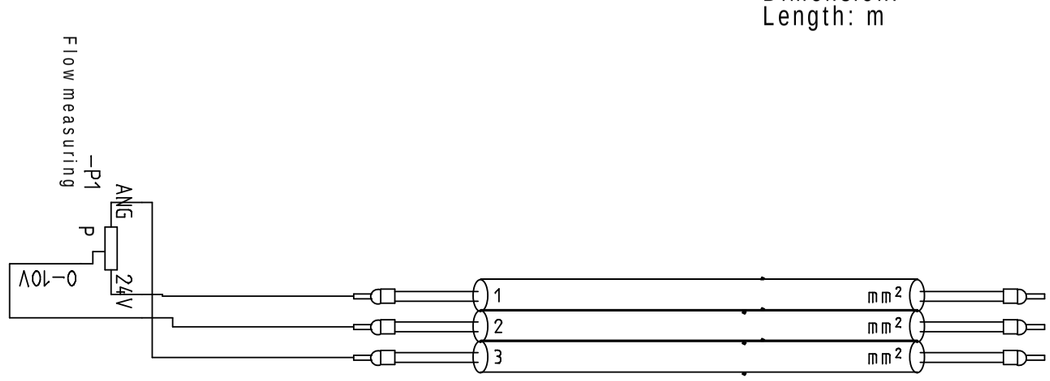
systemair

Cabelplan

=T1–W350

Description: Flow measuring

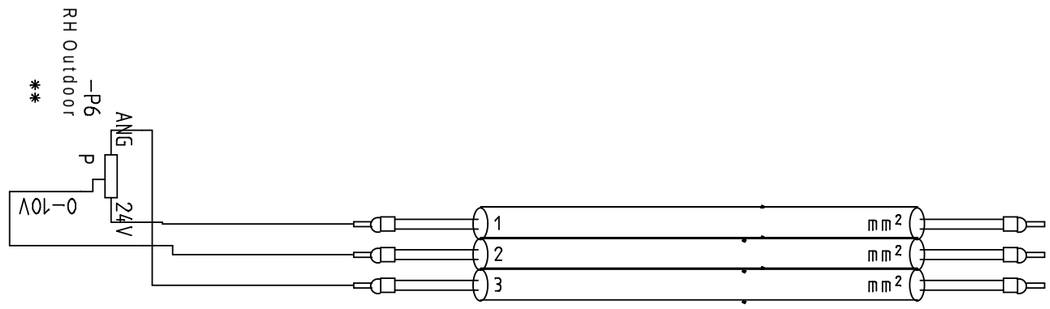
Type:
Dimension:
Length: m



=T1–W352

Description: RH Outdoor

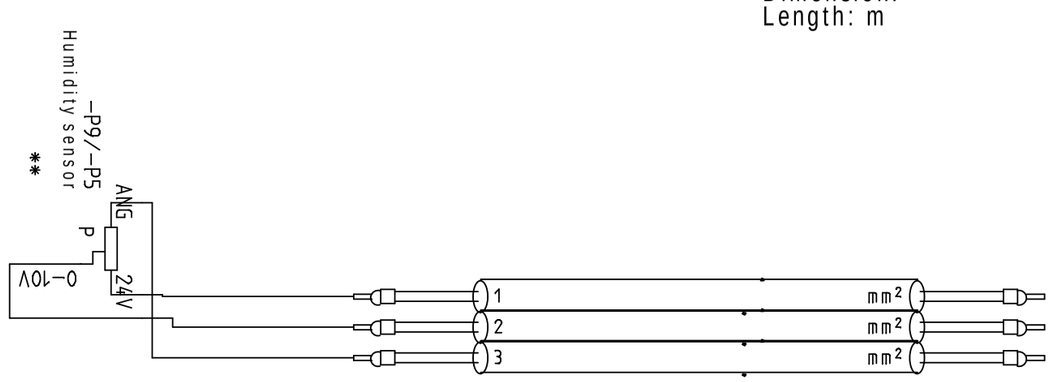
Type:
Dimension:
Length: m



=T1–W353

Description:

Type:
Dimension:
Length: m



Sheet	Path
16	3
16	3
16	3
16	2
16	2
16	1
16	5
16	5
16	4

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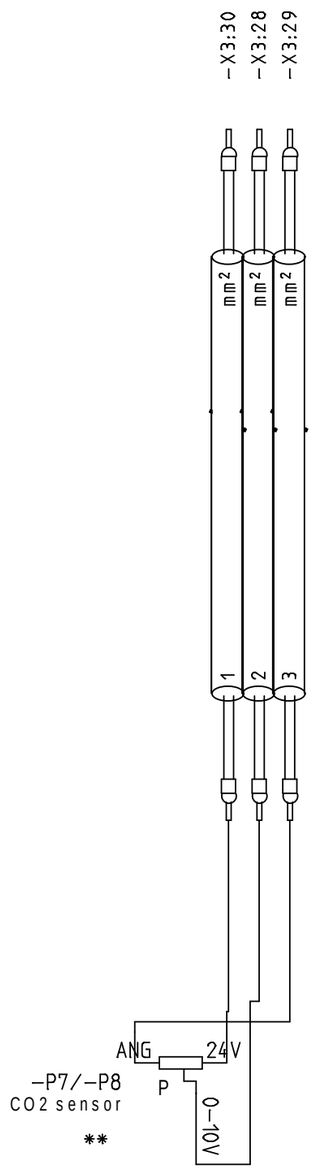
Cabelplan

Path	Sheet
6	16
6	16
6	16
1	16
1	16
0	15
0	15
8	18
8	18

=T1-W354+

Description: CO2 Sensor

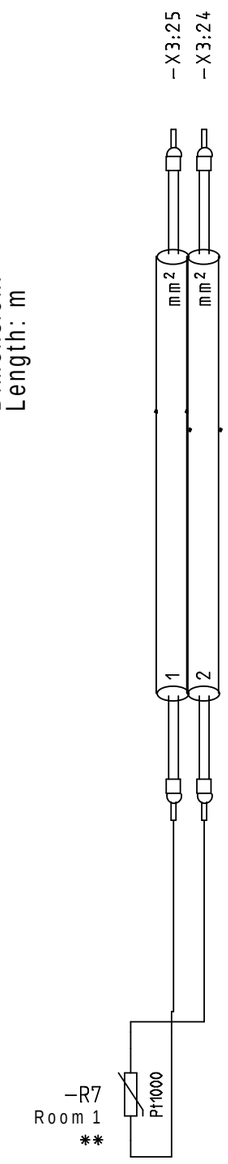
Type:
Dimension:
Length: m



=T1-W360

Description: Room sensor No.1

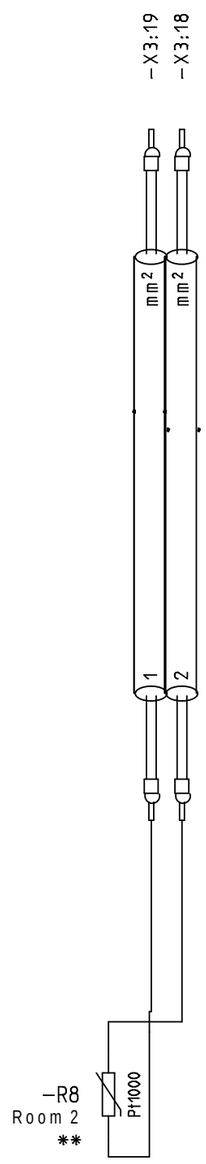
Type:
Dimension:
Length: m



=T1-W361

Description: Room sensor No.2

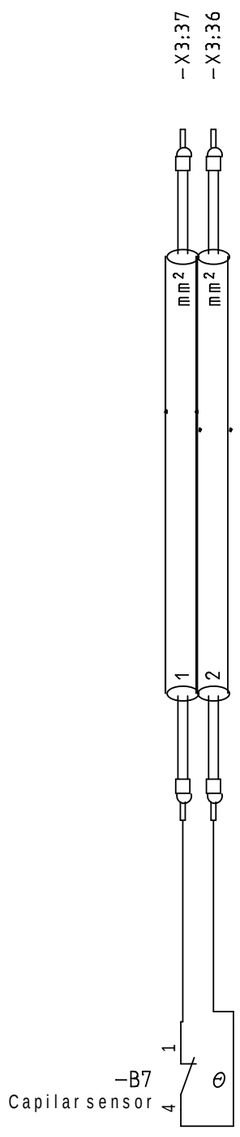
Type:
Dimension:
Length: m



=T1-W371

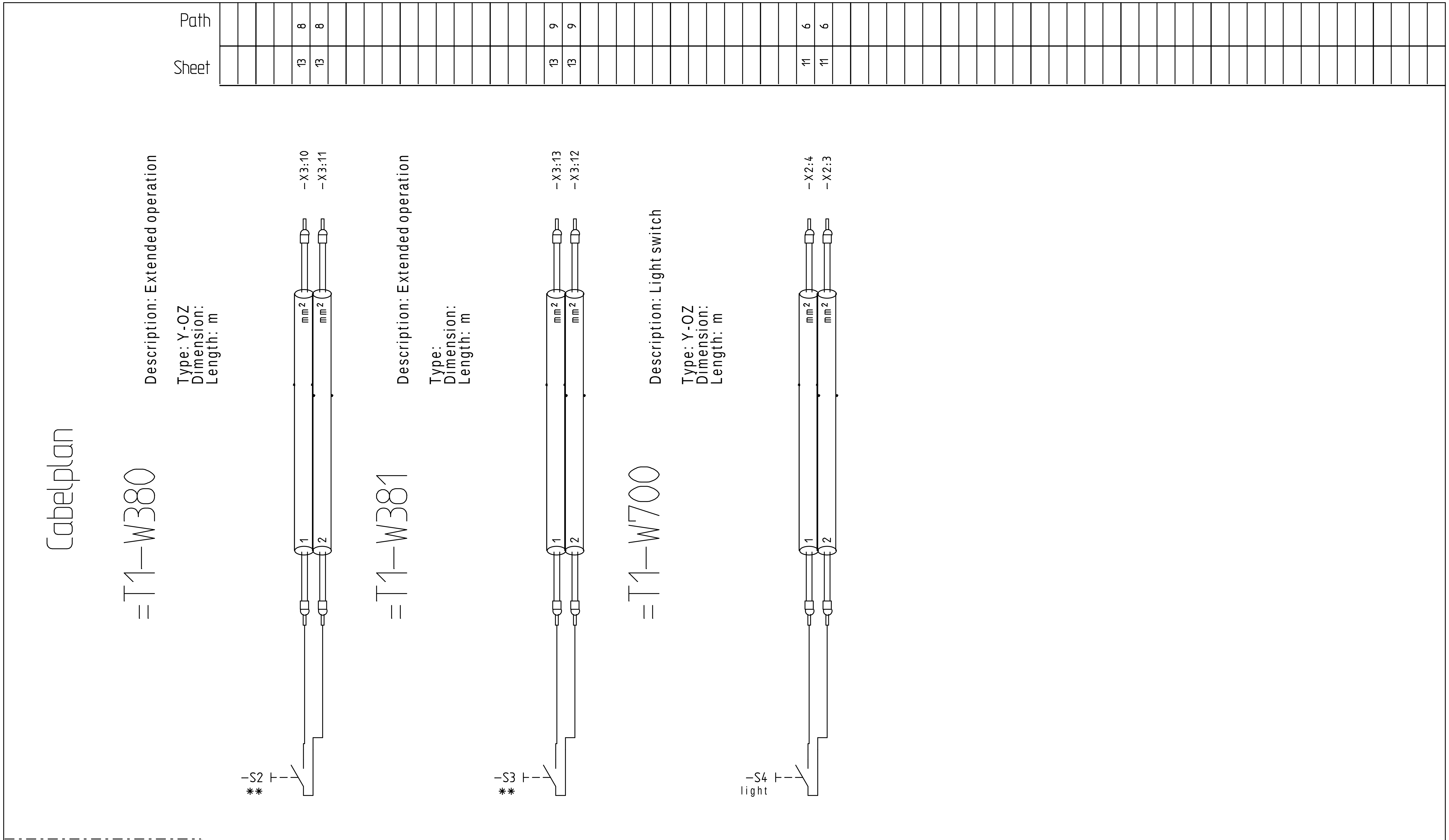
Description: Capilar sensor

Type:
Dimension:
Length: m



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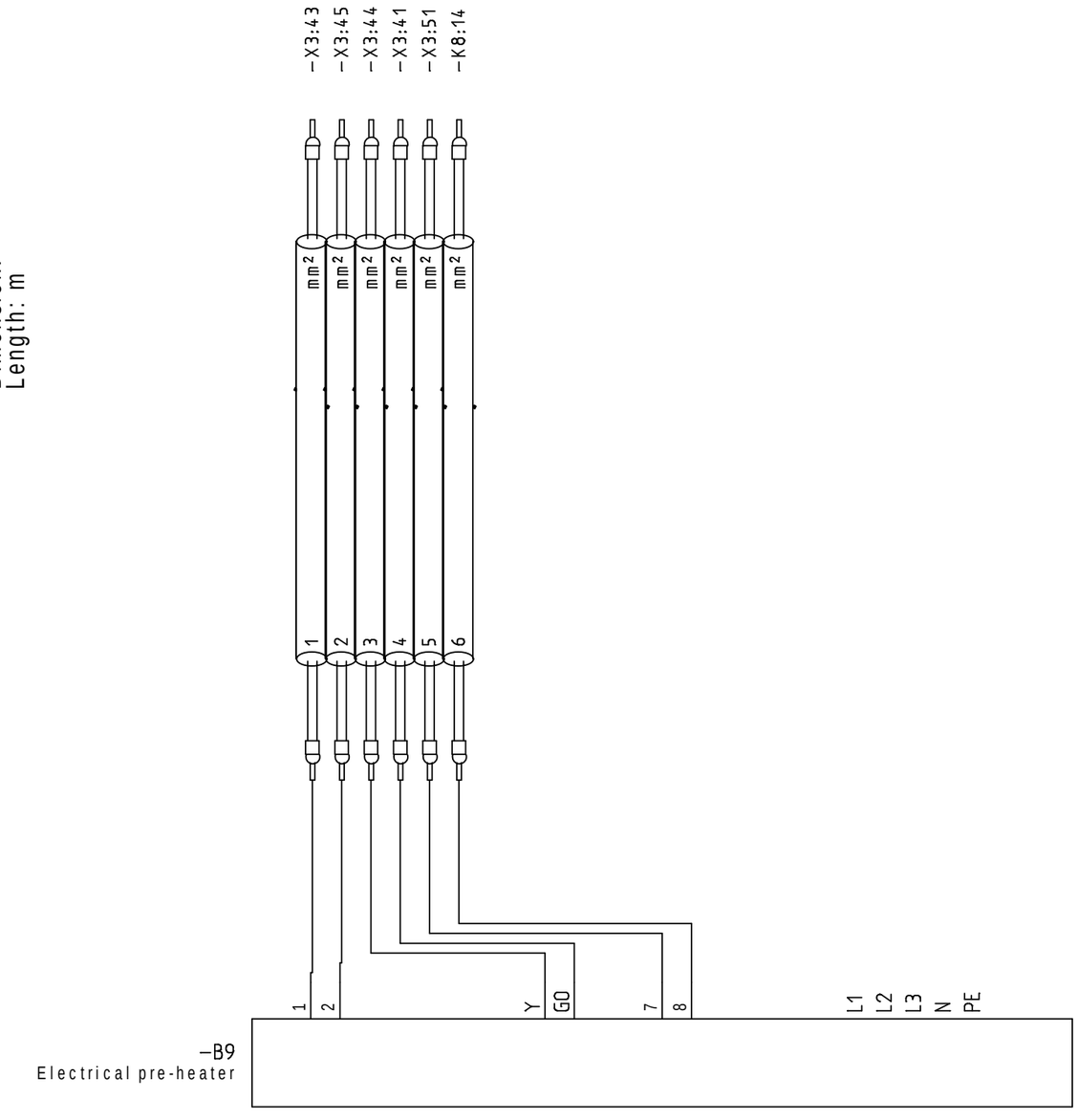
Cabelplan

=T1-W900

Description: Electrical preheating

Type:
Dimension:
Length: m

Path	6	6	7	7	8	8
Sheet	19	19	19	19	19	19



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