



WIRING DIAGRAM

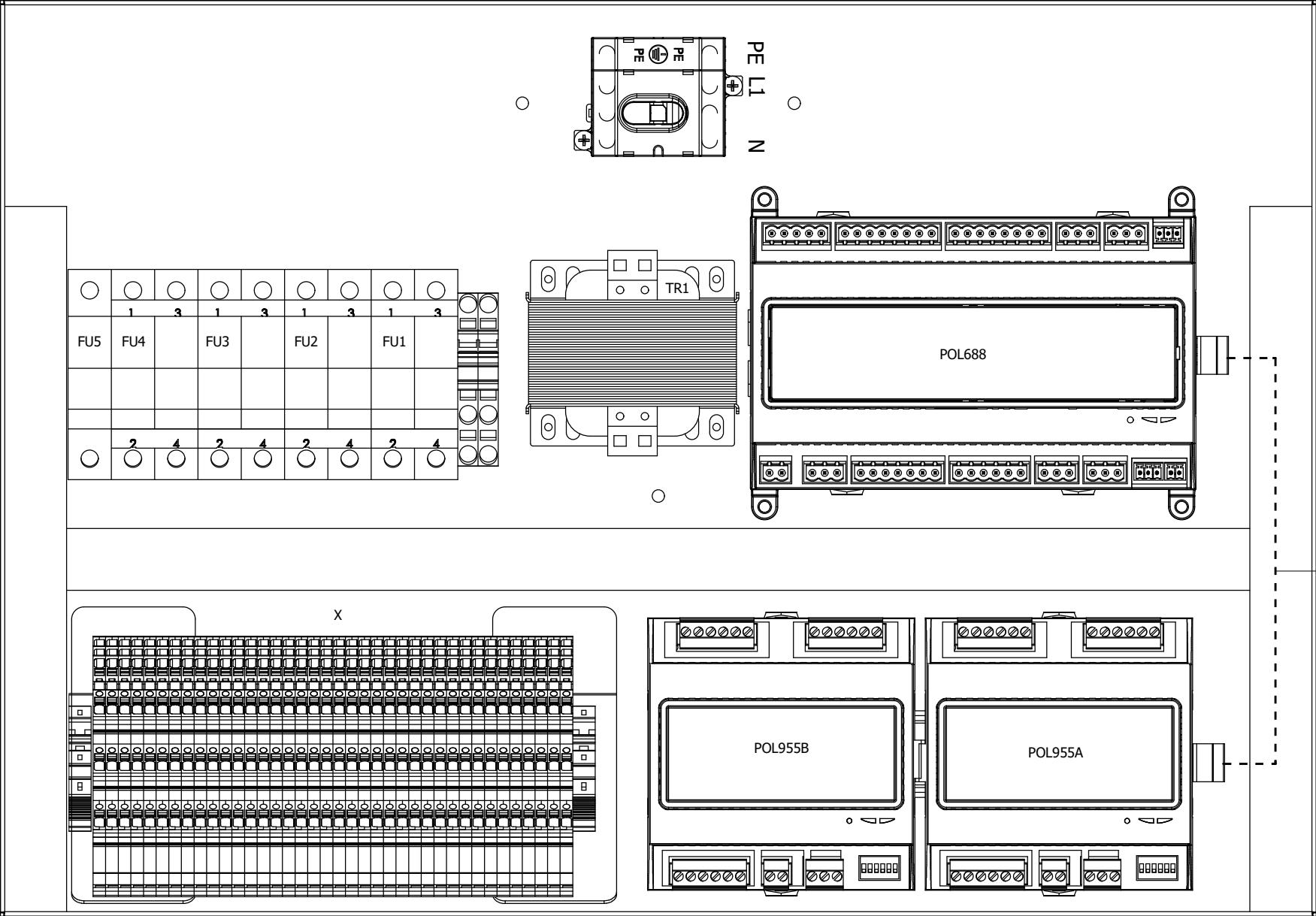
Daikin Applied Europe S.p.A.
Via Piani di Santa Maria, 72 - 00072 Ariccia, Roma, Italy
T. +39 06.937311 - F. +39 06.9374014

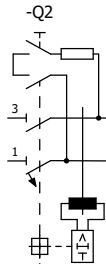
La proprietà del presente disegno e' di DAIKIN APPLIED EUROPE S.p.A. La riproduzione, anche se parziale, e la diffusione senza autorizzazione sono vietate a termini di legge. This document is reserved property of DAIKIN APPLIED EUROPE S.p.A. Reproduction or use for any purpose without authorization is strictly forbidden by law.

AHU COMPACT R PRO 1ph

Power supply 230 V
Auxiliary Power Supply 24 V AC
Max. Current Electr.Panel 16 A
Max. Short-Circuit Current 10 kA
IP 54
Standard CEI EN 60204

Drawing N° AHU COMPACT R PRO 1ph		Revision comment 1	
Created on 10/03/2026		Last Modify 10/03/2026	
Drawn by M. Palla		Check L. Pedrinola	Approved M. Di Pinto
Path/file name AHU COMPACT R PRO 1Ph		Total page 29	

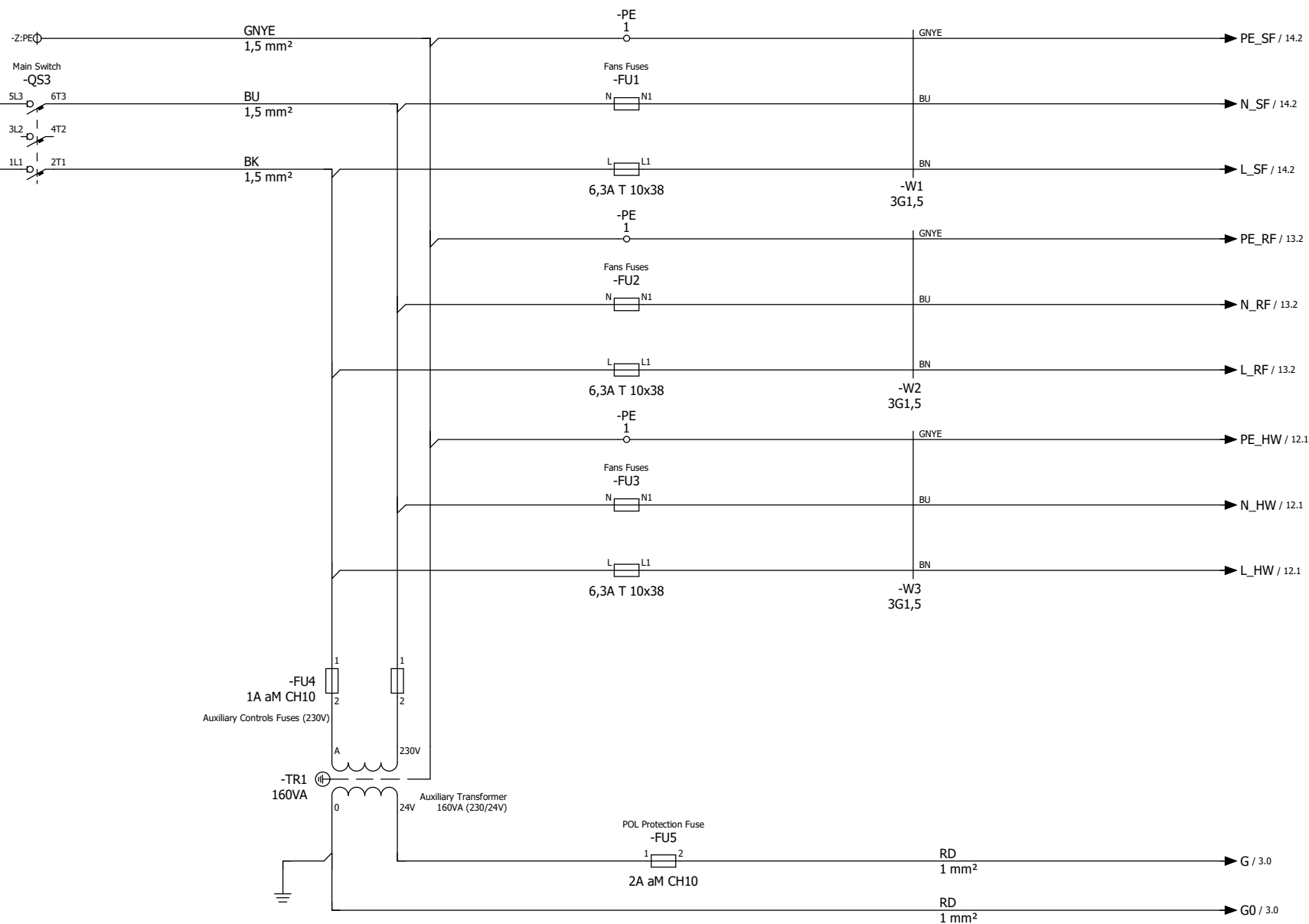


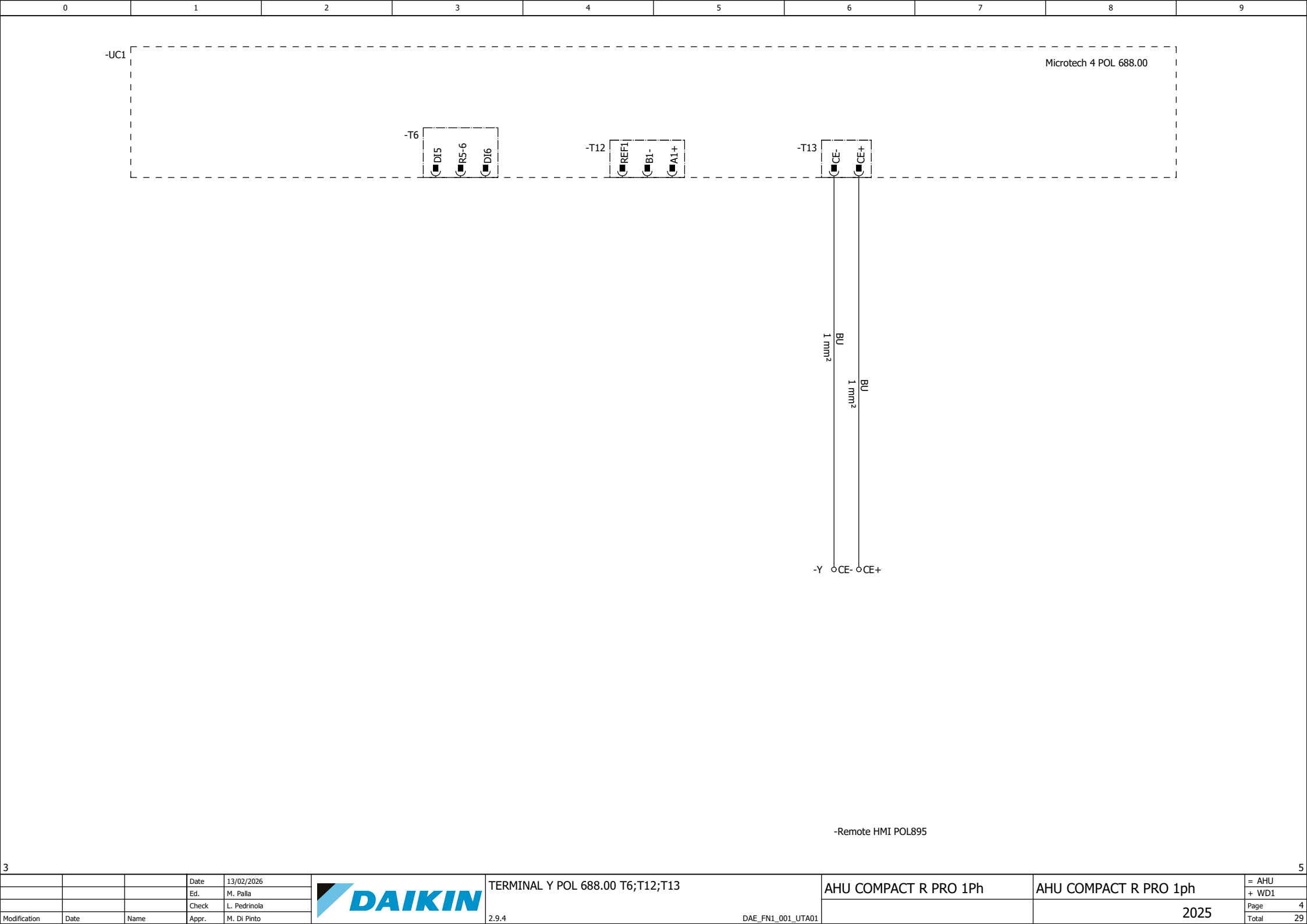


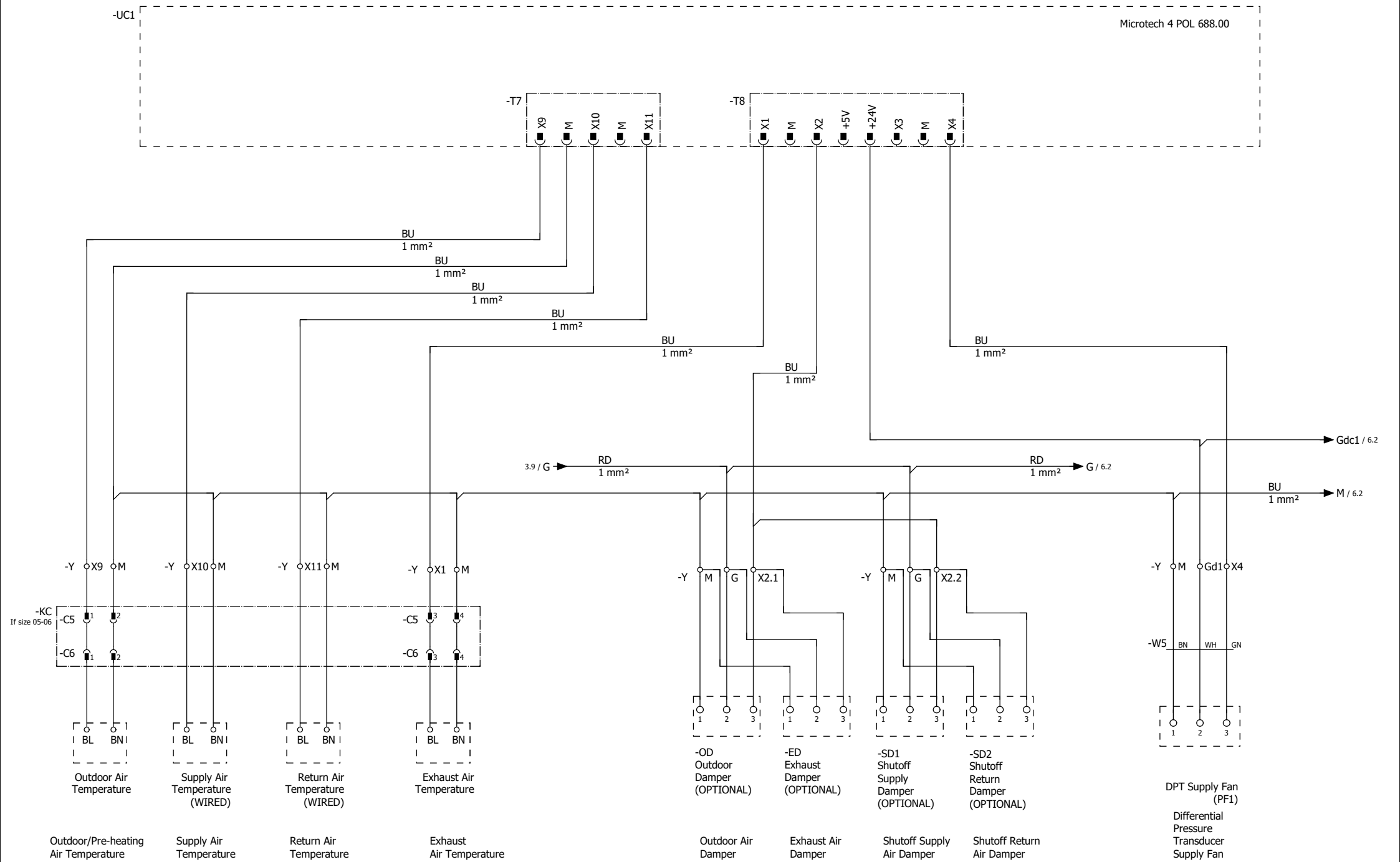
- ELECTRICAL DATA (MAX)
- MAXIMUM WORKING AMBIENT OPERATING TEMPERATURE
- TYPE OF INSULATION AND CABLE LAYING
- MAXIMUM LENGTH OF THE POWER SUPPLY LINE

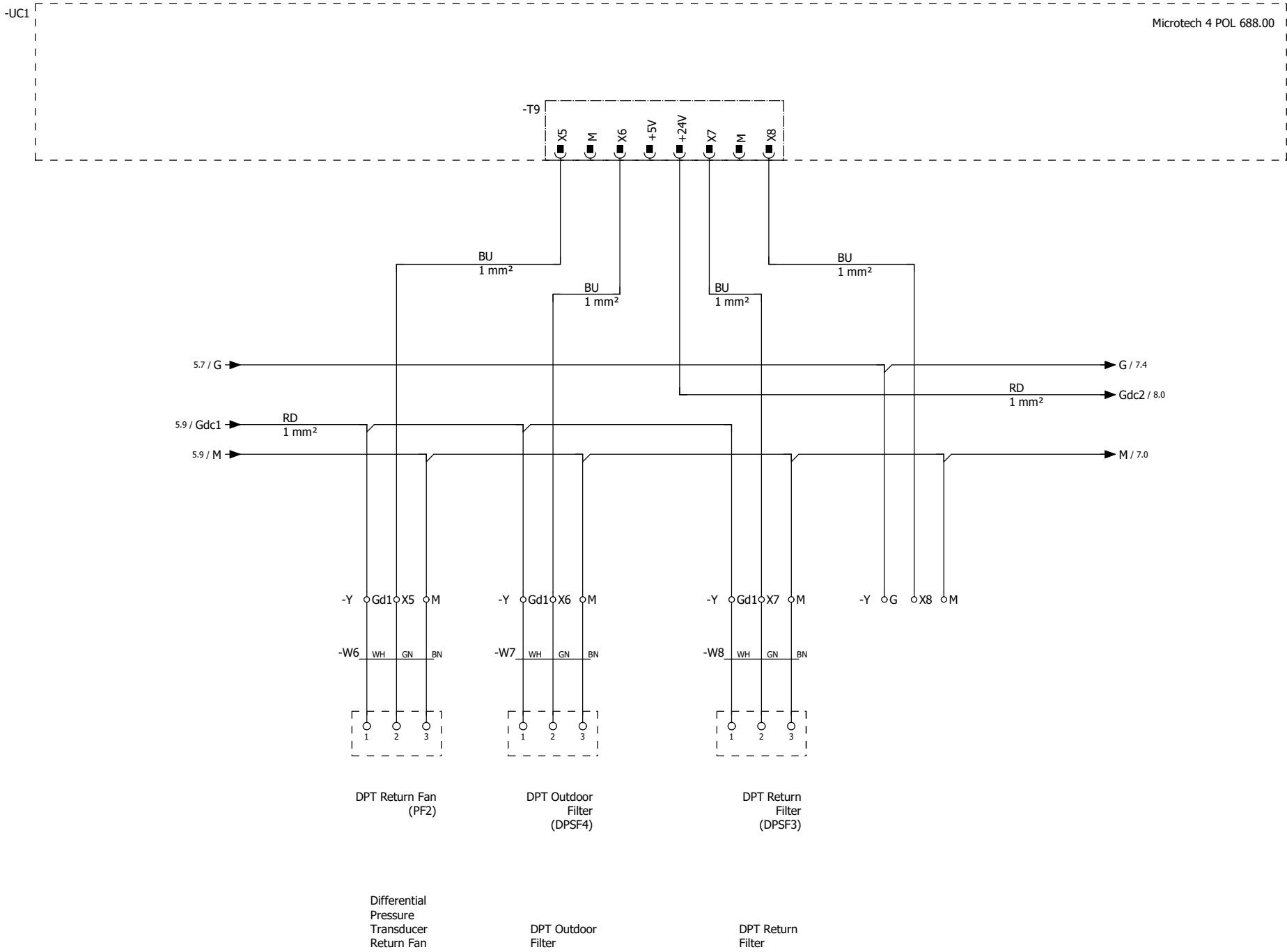
UNIT SIZE	Q1DI (EXTERNAL)
Size 1 to 6	2P-1ph-200...277Vac-16A-type F-"C"-10kA- IΔn=300mA

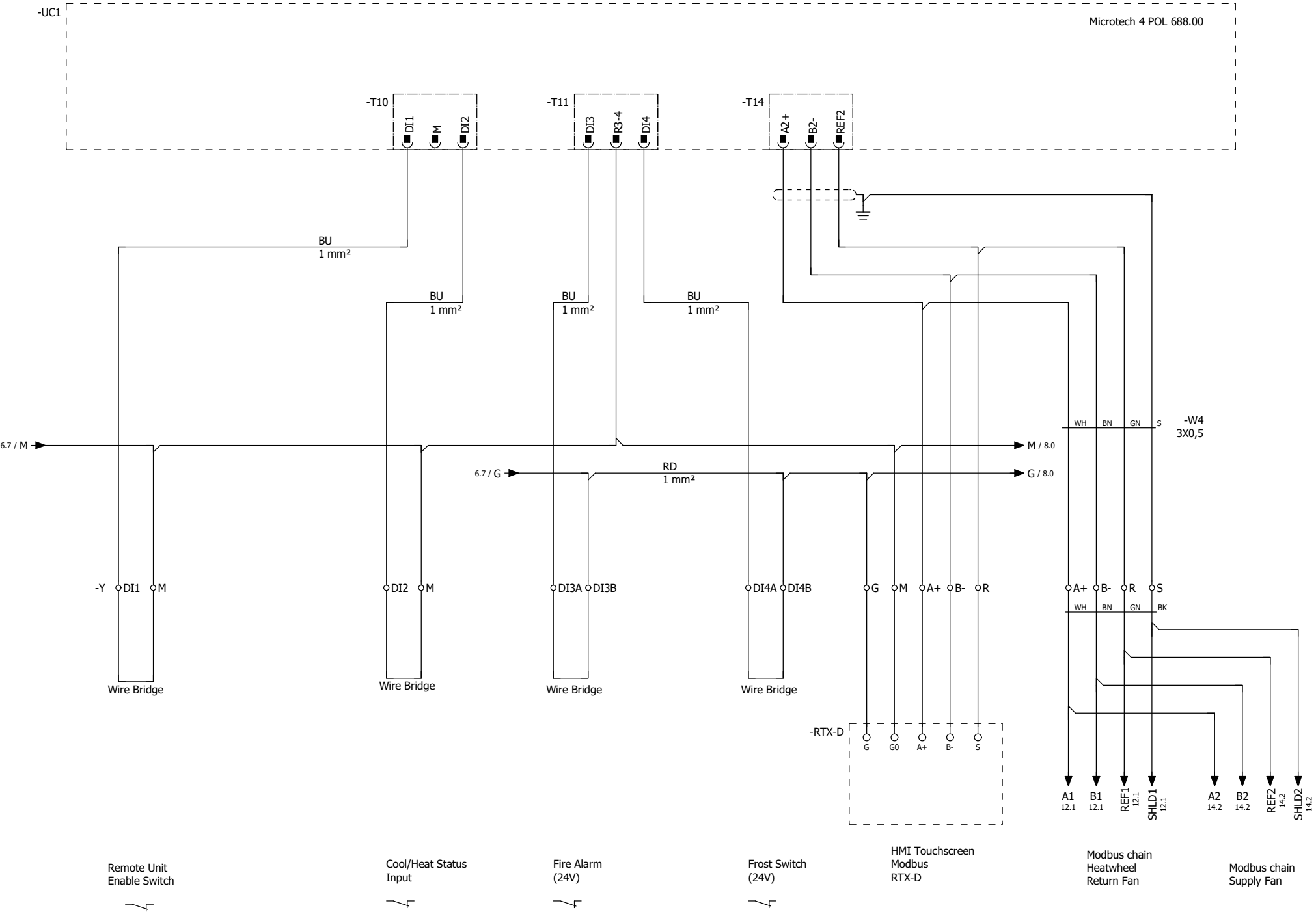
UNIT SIZE	MAX UNIT AMPS
Size 1	3,7A
Size 2	4,6A
Size 3	4,4A
Size 4	7,2A
Size 5	13,8A
Size 6	13,8A

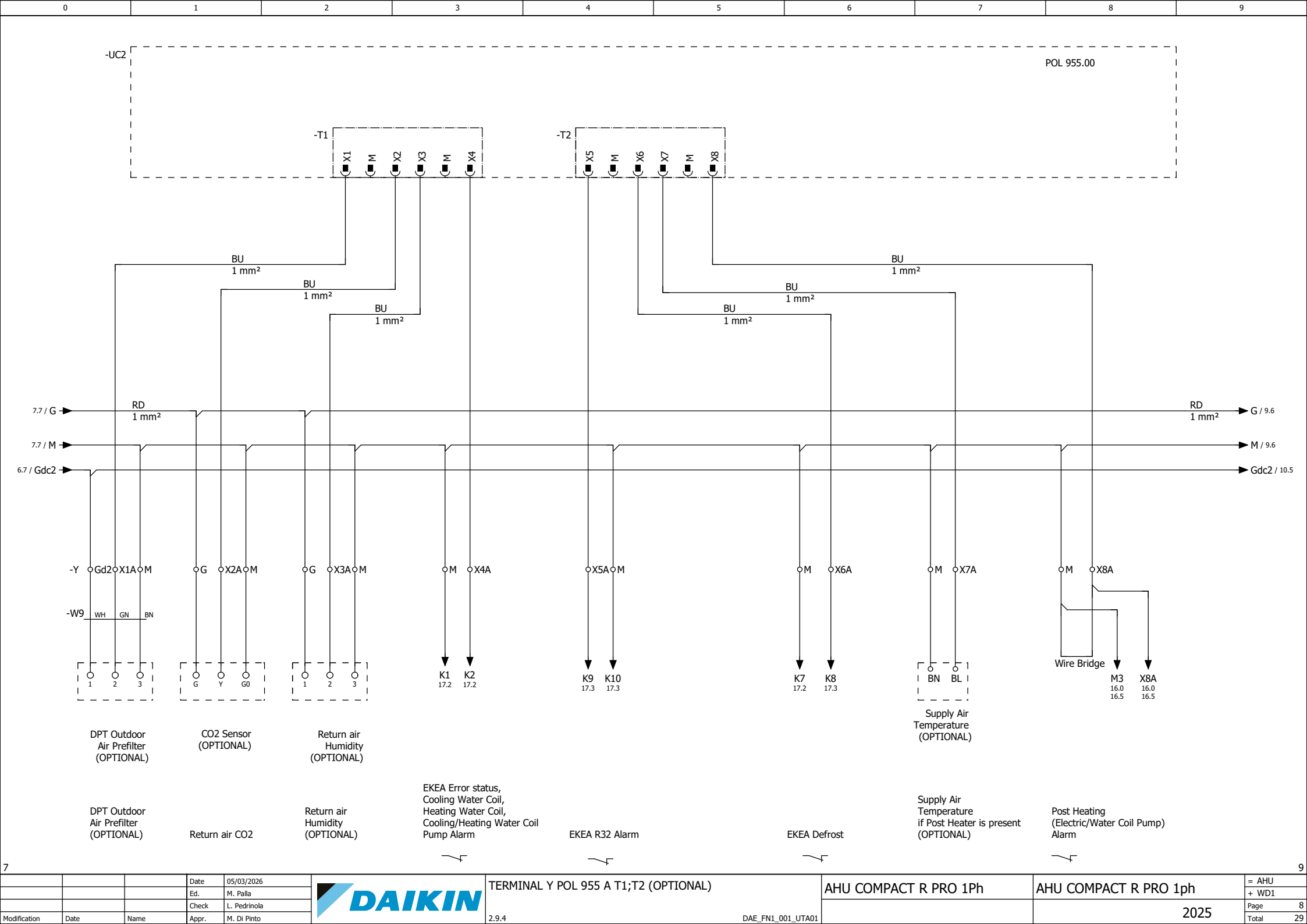






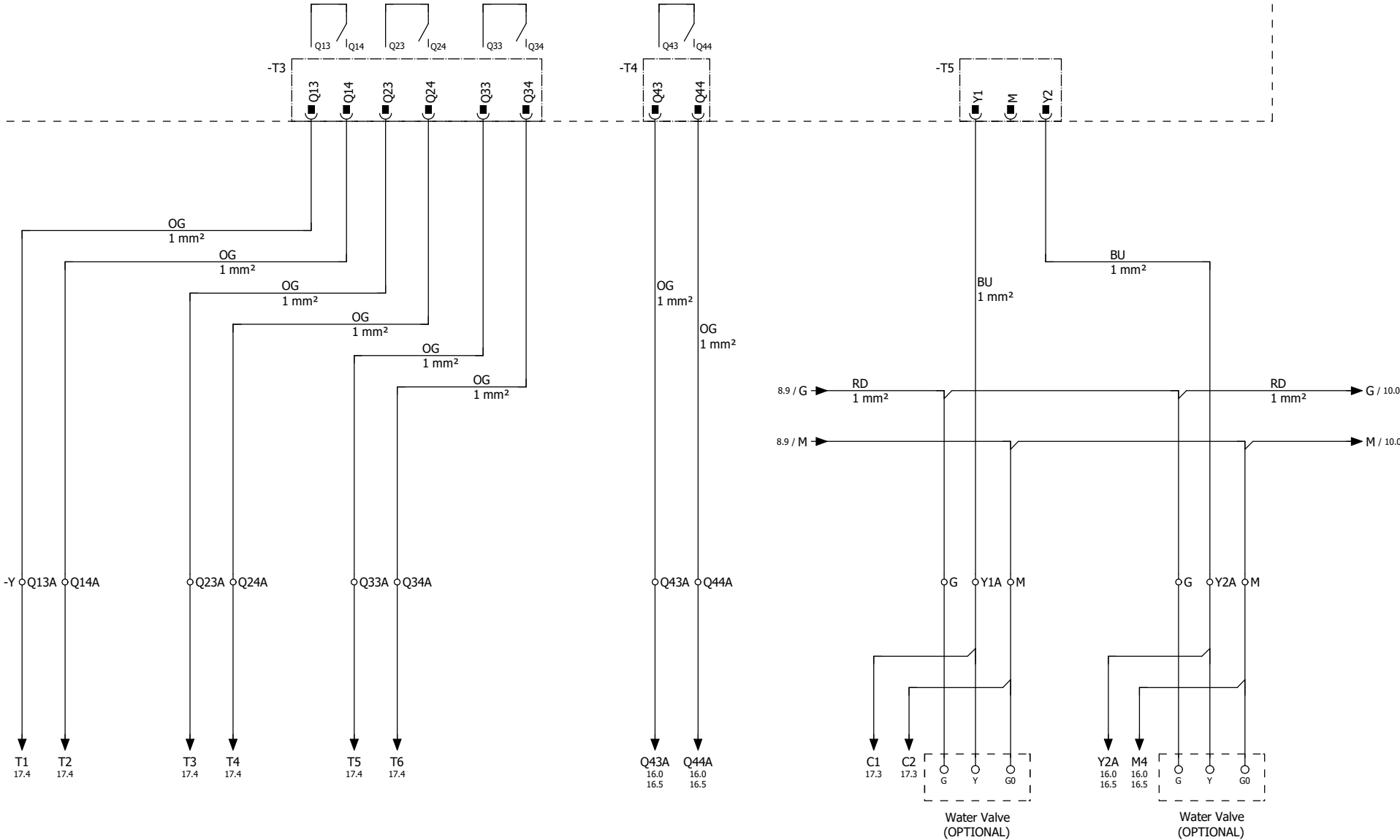






-UC2

POL 955.00



-Cooling Water Coil,
Heating Water Coil,
Cooling-Heating Water Coil
Pump ON/OFF
-EKEACBVE Input ON/OFF

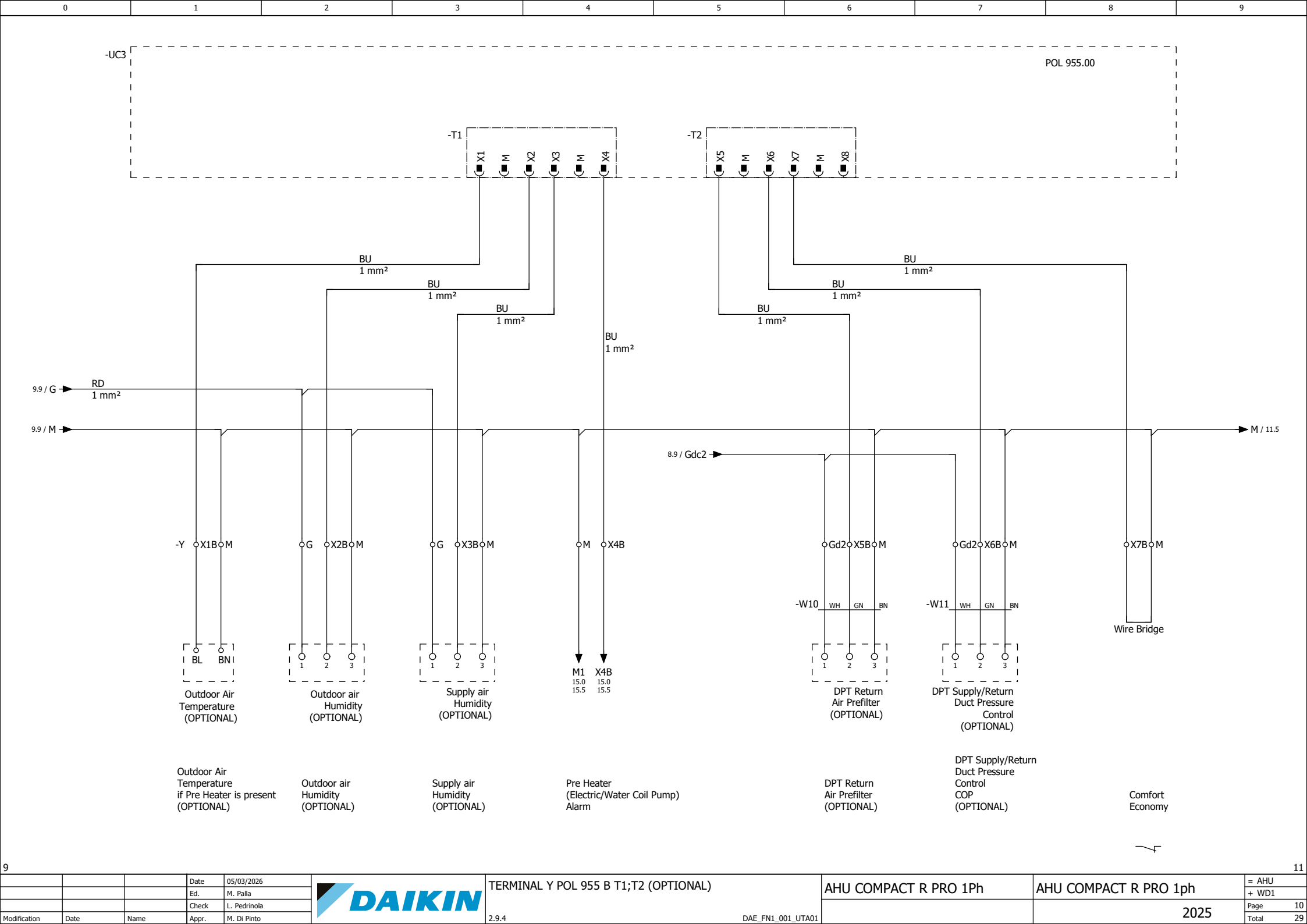
EKEA
Cool/Heat status

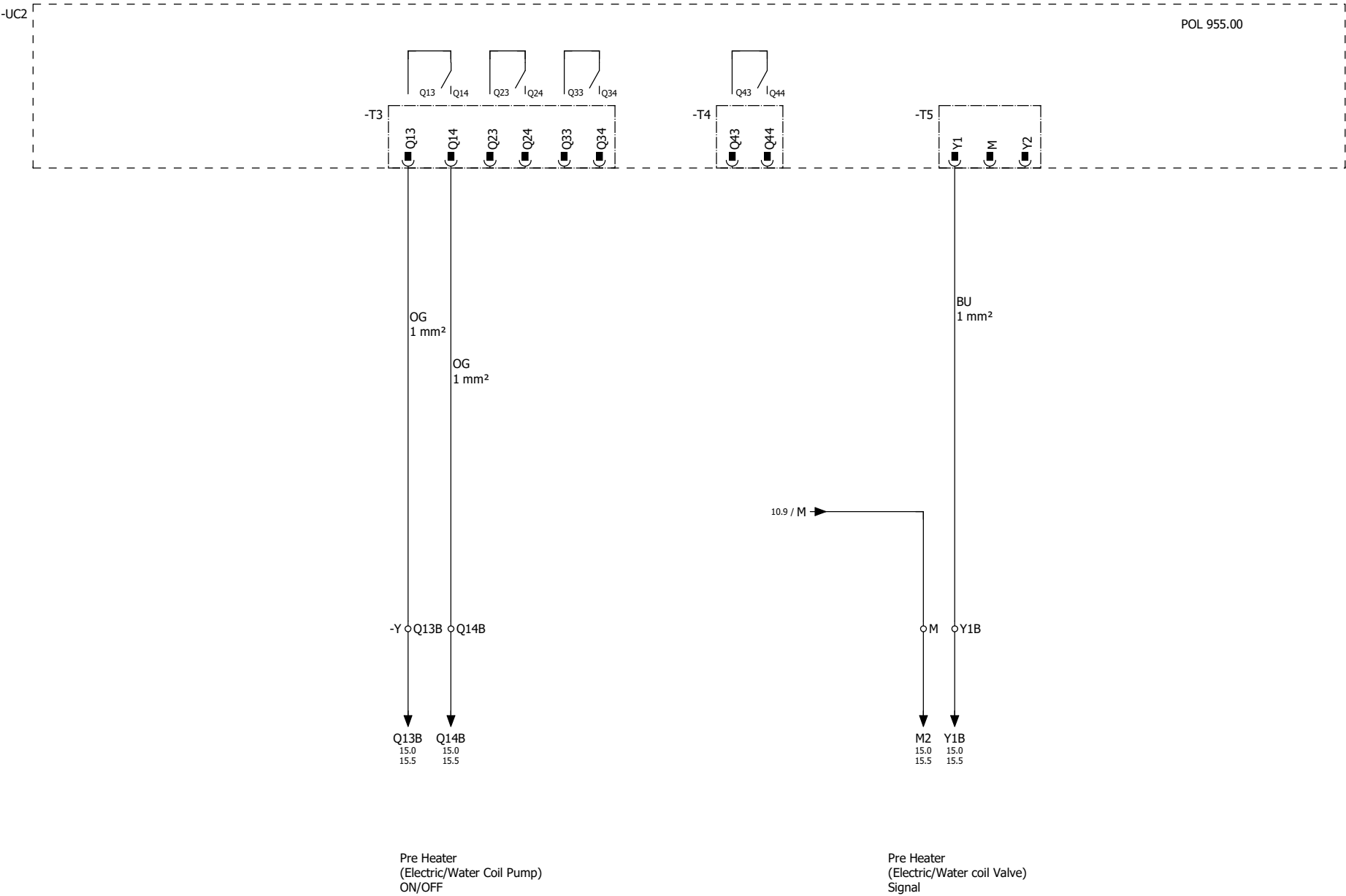
EKEA Malfunction
(Low flow)

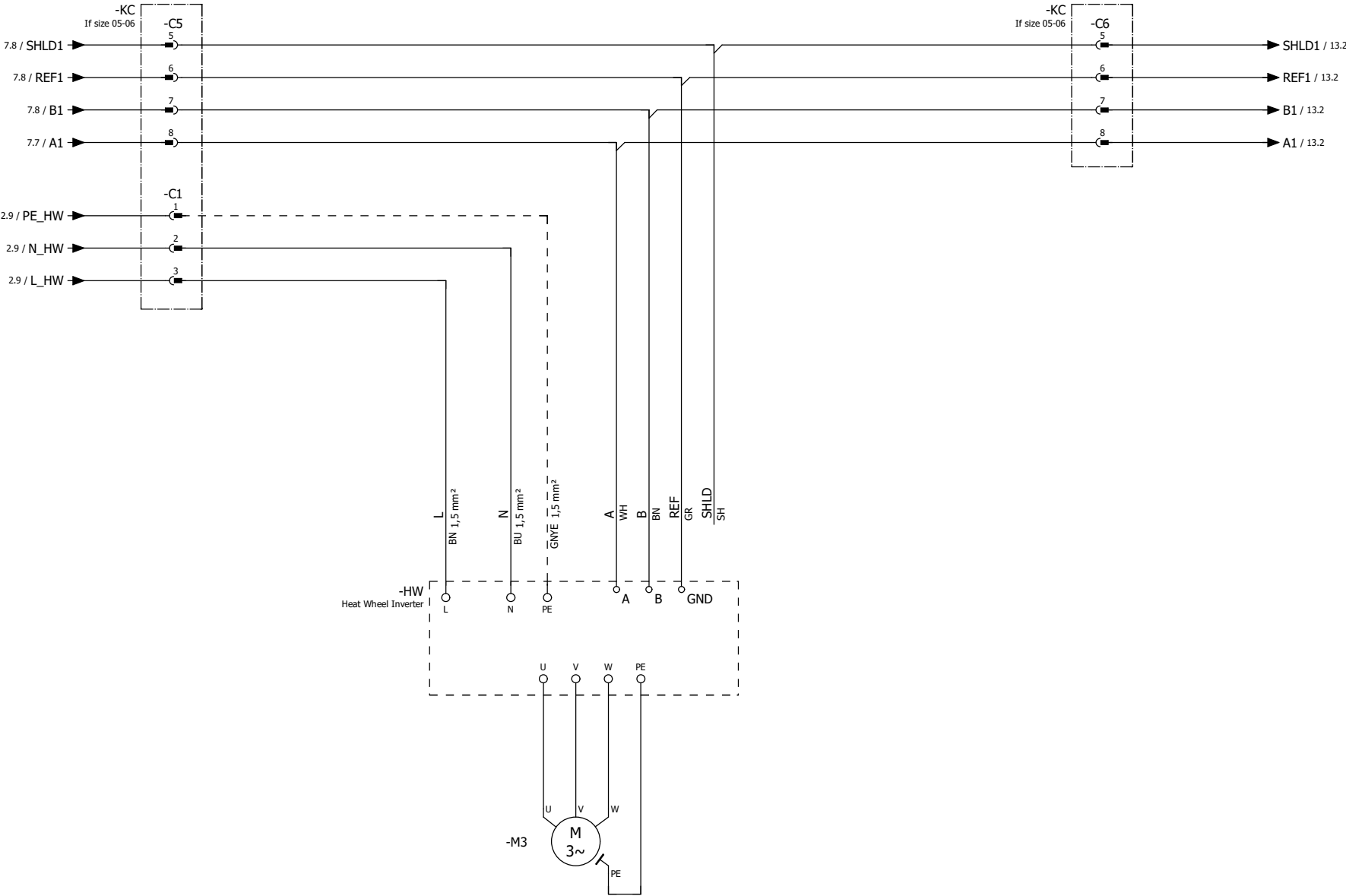
Post Heating
(Electric/Water Coil Pump)
ON/OFF

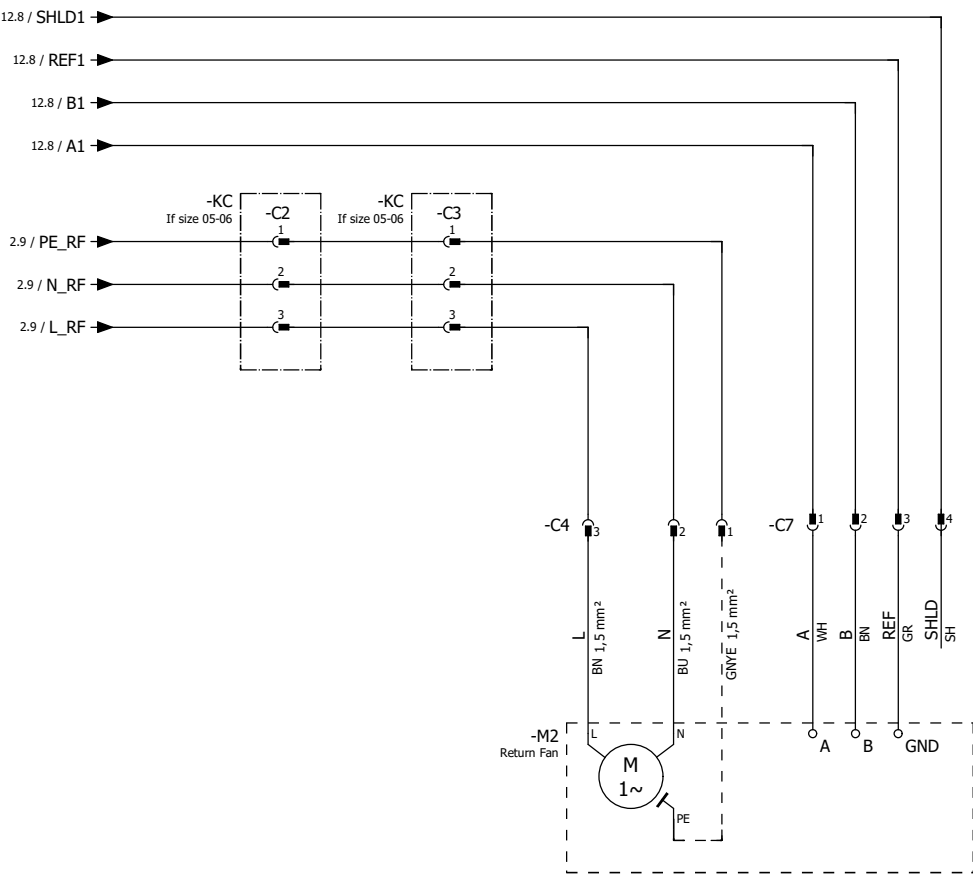
EKEA 0-10 V DC
Cooling Water Coil
Heating Water Coil
Cooling-Heating Water Coil
Pump Alarm

Post Heating
(Electric/Water Coil Valve)
Signal

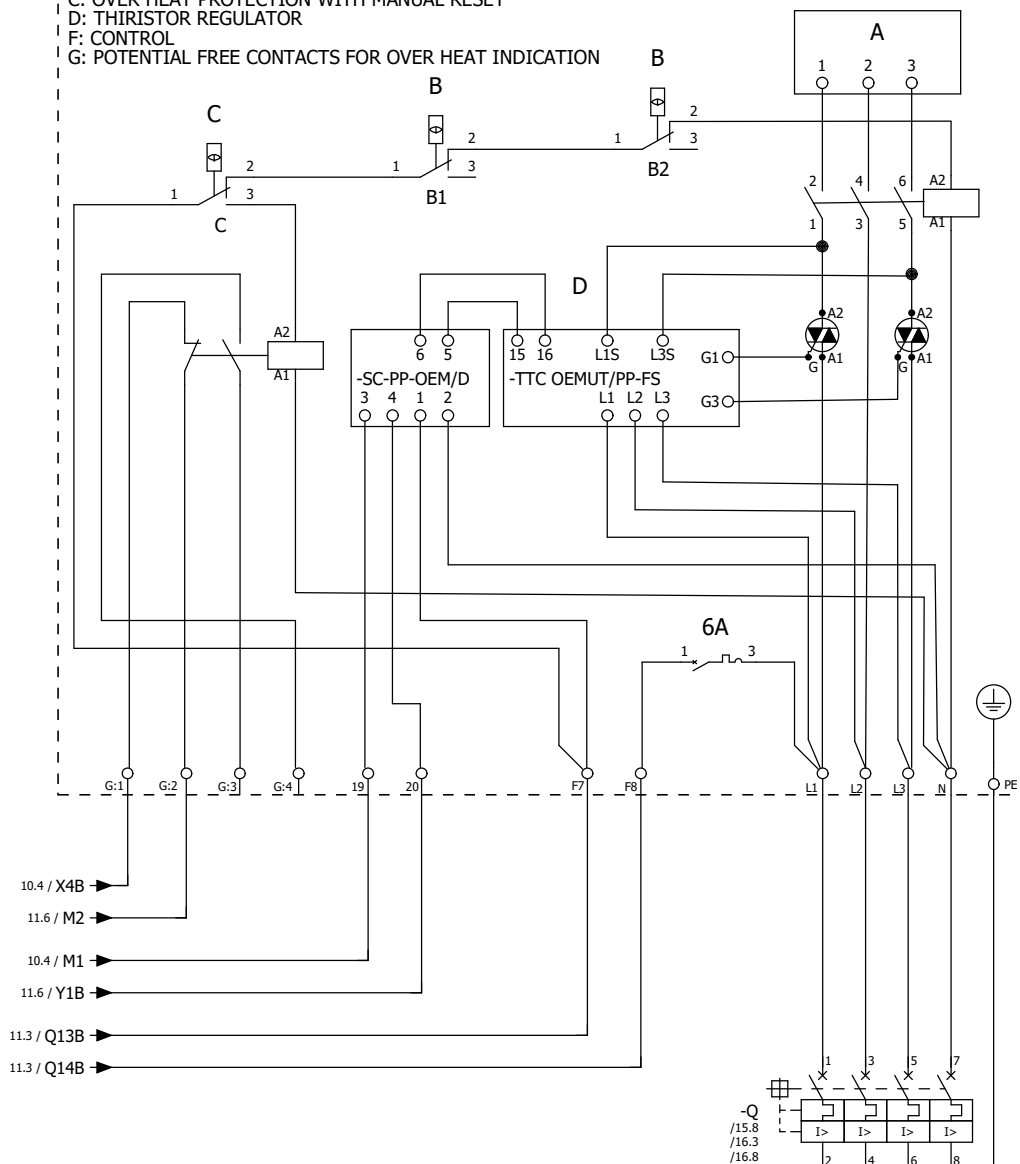








A: LOAD
B: OVER HEAT PROTECTION WHIT AUTOMATIC RESET
C: OVER HEAT PROTECTION WITH MANUAL RESET
D: THIRISTOR REGULATOR
F: CONTROL
G: POTENTIAL FREE CONTACTS FOR OVER HEAT INDICATION



EXTERNAL POWER SUPPLY
400V 3ph + N + PE 50/60Hz

Electric coil code	Power	Power Supply
ALD03HESA	4.0 kW	400V
ALD05HEFA	7.5 kW	400V
ALD05HESA	10 kW	400V
ALD07HEFA	15 kW	400V
ALD07HESA	15 kW	400V

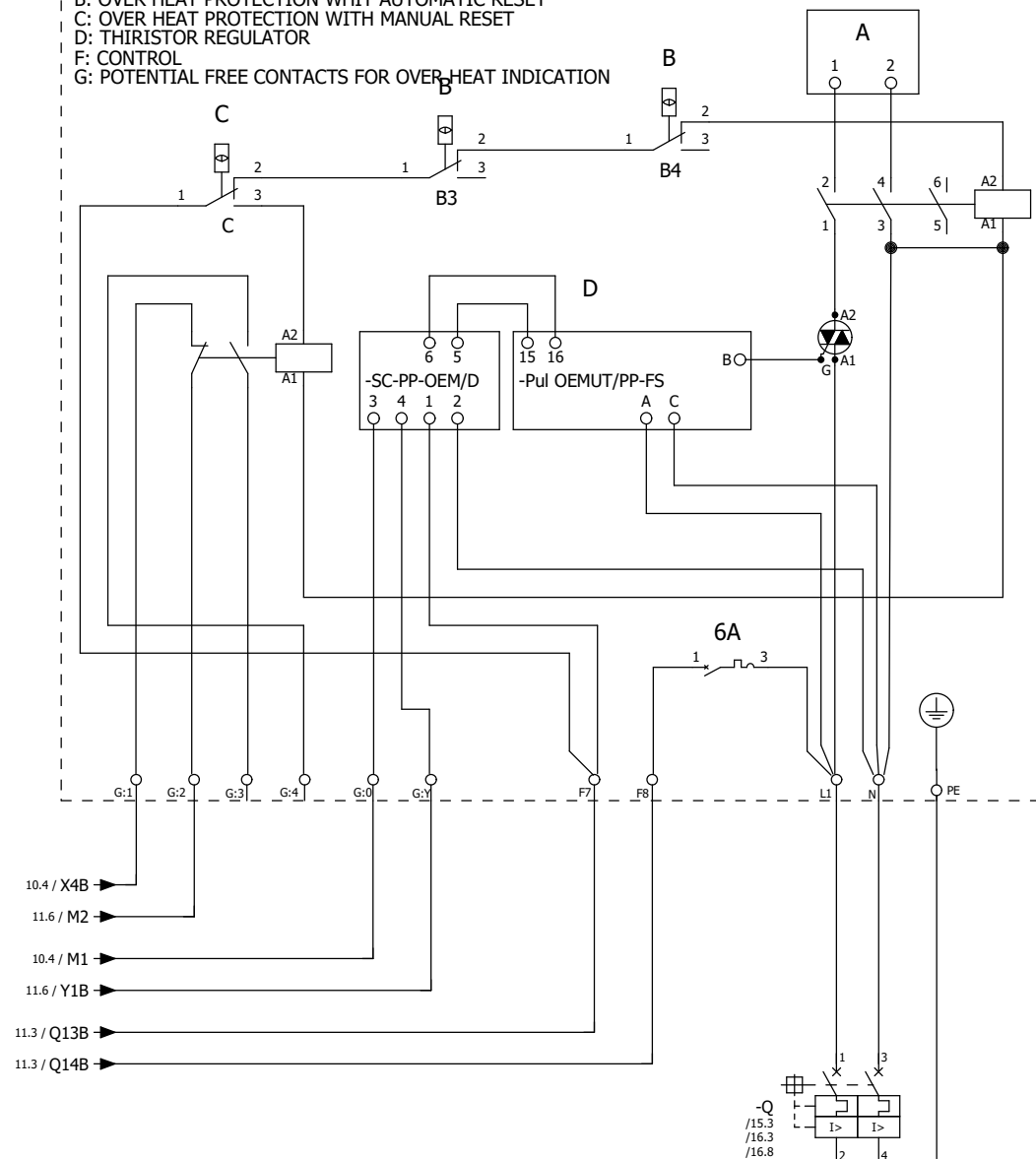
THE SIZE OF THE ELECTRIC COIL POWER CABLE IS STILL THE RESPONSIBILITY OF THE INSTALLER AND WILL BE MADE BY CONSIDERING:
·ELECTRICAL DATA (MAX)
·MAXIMUM WORKING AMBIENT OPERATING TEMPERATURE
·TYPE OF INSULATION AND CABLE LAYING
·MAXIMUM LENGTH OF THE POWER SUPPLY LINE



OPTIONAL PRE HEATER MODUL

2.9.4

A: LOAD
B: OVER HEAT PROTECTION WHIT AUTOMATIC RESET
C: OVER HEAT PROTECTION WITH MANUAL RESET
D: THIRISTOR REGULATOR
F: CONTROL
G: POTENTIAL FREE CONTACTS FOR OVER HEAT INDICATION



EXTERNAL POWER SUPPLY
230V 1ph + PE 50/60Hz

Electric coil code	Power	Power Supply
ALD02HEFA	1.5 kW	230V
ALD02HESA	2.1 kW	230V
ALD03HEFA	3.0 kW	230V

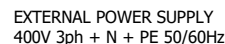
THE SIZE OF THE ELECTRIC COIL POWER CABLE IS STILL THE RESPONSIBILITY OF THE INSTALLER AND WILL BE MADE BY CONSIDERING:
·ELECTRICAL DATA (MAX)
·MAXIMUM WORKING AMBIENT OPERATING TEMPERATURE
·TYPE OF INSULATION AND CABLE LAYING
·MAXIMUM LENGTH OF THE POWER SUPPLY LINE

AHU COMPACT R PRO 1ph

AHU COMPACT R PRO 1ph

2025

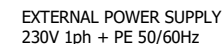
= AHU	15
+ WD1	2
Total	17



Electric coil code	Power	Power Supply
ALD03HESA	4.0 kW	400V
ALD05HEFA	7.5 kW	400V
ALD05HESA	10 kW	400V
ALD07HEFA	15 kW	400V
ALD07HESA	15 kW	400V



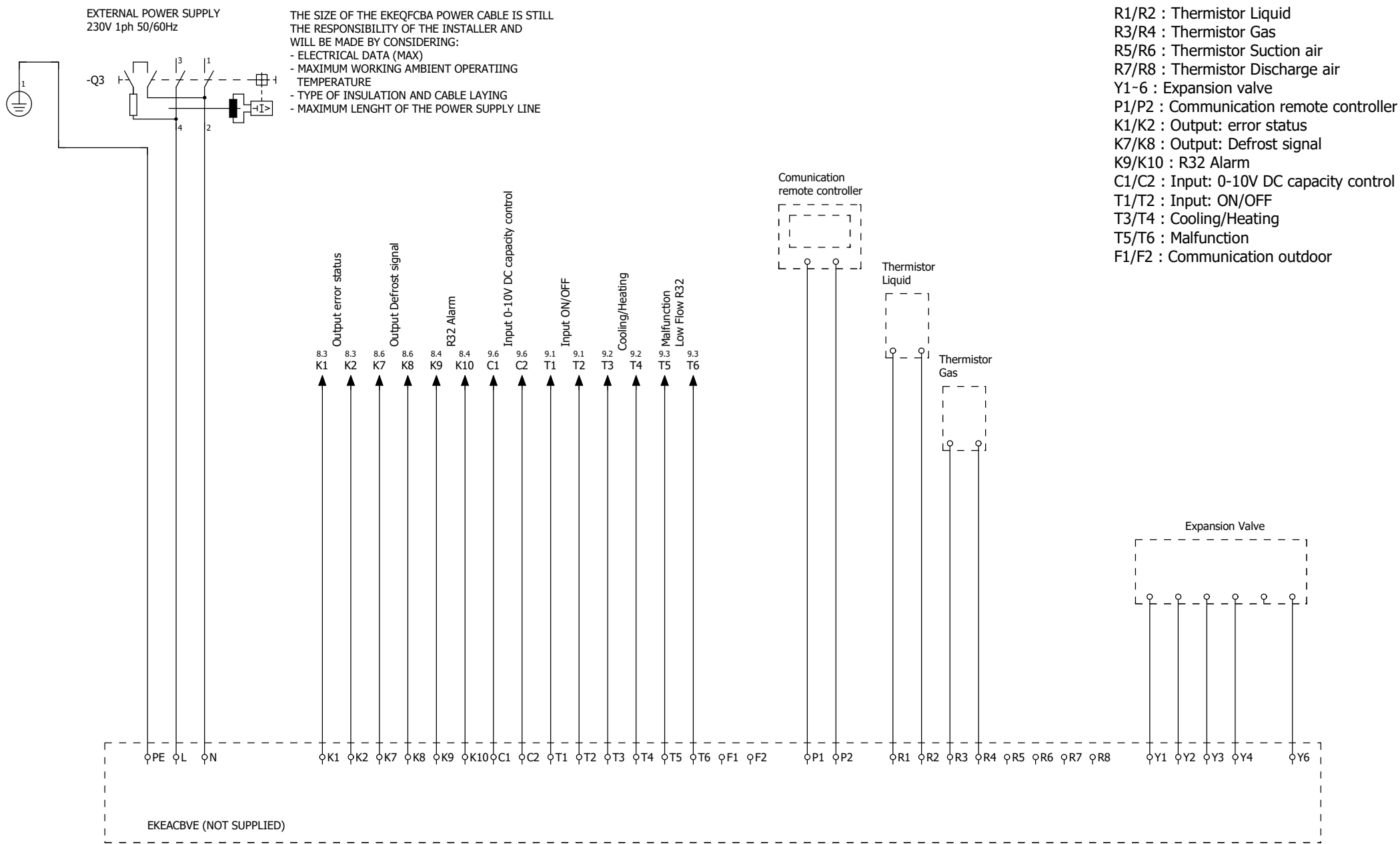
A: LOAD
B: OVER HEAT PROTECTION WITH AUTOMATIC RESET
C: OVER HEAT PROTECTION WITH MANUAL RESET
D: THIRISTOR REGULATOR
F: CONTROL
G: POTENTIAL FREE CONTACTS FOR OVER HEAT INDICATION

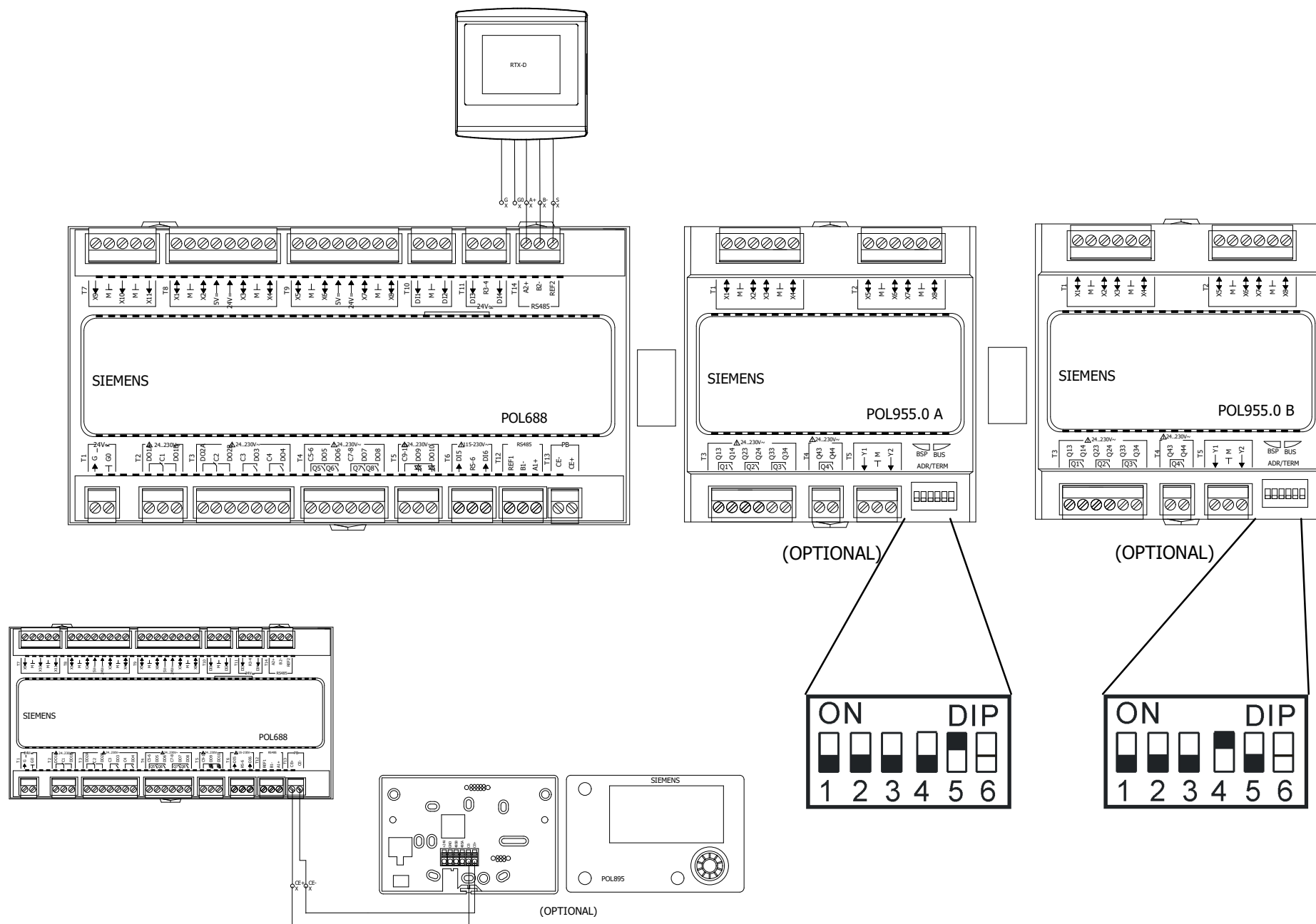


Electric coil code	Power	Power Supply
ALD02HEFA	1.5 kW	230V
ALD02HESA	2.1 kW	230V
ALD03HEFA	3.0 kW	230V

AHU COMPACT R PRO 1Ph

AHU COMPACT R PRO 1ph





Modification	Date	Name
--------------	------	------

Table of contents

Higher-level function	Mounting location	Page	Page description
AHU	DOC	1	Cover sheet
	WD1	1	LAYOUT COMPACT R PRO
	WD1	2	POWER SUPPLY & 24 V AC AUXILIARY
	WD1	3	TERMINAL Y POL 688.00 T1;12;T3;T4;T5
	WD1	4	TERMINAL Y POL 688.00 T6;T12;T13
	WD1	5	TERMINAL Y POL 688.00 T7;T8
	WD1	6	TERMINAL Y POL 688.00 T9
	WD1	7	TERMINAL Y POL 688.00 T10;11;T14
	WD1	8	TERMINAL Y POL 955 A T1;T2 (OPTIONAL)
	WD1	9	TERMINAL Y POL 955 A T3;T4;T5 (OPTIONAL)
	WD1	10	TERMINAL Y POL 955 B T1;T2 (OPTIONAL)
	WD1	11	TERMINAL Y POL 955 B T3;T4;T5 (OPTIONAL)
	WD1	12	HEATWHEEL
	WD1	13	RETURN FAN
	WD1	14	SUPPLY FAN
	WD1	15	OPTIONAL PRE HEATER MODUL
	WD1	16	OPTIONAL POST HEATER MODUL
	WD1	17	OPTIONAL EKEACBVE
	WD1	18	OPTIONAL & ROOM UNIT
	WD1	19	TERMINAL Y
TZB	DOC	2	Table of contents
	DOC	3	Device tag list
	WD1	100	Terminal diagram =AHU+WD1-PE
	WD1	101	Terminal diagram =AHU+WD1-X2
	WD1	102	Terminal diagram =AHU+WD1-Y
	WD1	102.a	Terminal diagram =AHU+WD1-Y
	WD1	102.b	Terminal diagram =AHU+WD1-Y
	WD1	102.c	Terminal diagram =AHU+WD1-Y
	WD1	102.d	Terminal diagram =AHU+WD1-Y

Higher-level function	Mounting location	Page	Page description
-----------------------	-------------------	------	------------------

Device tag list

DAE_F03_002_WD

Device tag	Quantity	Page	Column	Function
	1	2	4	
-C1	1	12	2	
-C2	1	13	3	
-C3	1	13	4	
-C4	1	13	4	
-C5	1	12	2	
-C6	1	12	7	
-C7	1	13	5	
-C8	1	14	4	
-C9	1	14	5	
-ED	1	5	5	Exhaust Damper (OPTIONAL)
-FU1	1	2	6	Fans Fuses
-FU2	1	2	6	Fans Fuses
-FU3	1	2	6	Fans Fuses
-FU4	1	2	4	Auxiliary Controls Fuses (230V)
-FU5	1	2	6	POL Protection Fuse
-HW	1	12	3	Heat Wheel Inverter
-M1	1	14	4	Supply Fan
-M2	1	13	4	Return Fan
-M3	1	12	4	
-OD	1	5	4	Outdoor Damper (OPTIONAL)
-Q	1	15	3	
-Q2	1	2	1	Bipolar Magnetothermic Circuit Breaker With Differential
-Q3	1	17	1	
-QS3	1	2	2	Main Switch
-RTX-D	1	7	6	HMI Touchscreen Modbus RTX-D
-SD1	1	5	6	Shutoff Supply Damper (OPTIONAL)
-SD2	1	5	6	Shutoff Return Damper (OPTIONAL)
-T1	1	3	1	AHU General Alarm
-T2	1	3	2	
-T3	1	3	4	Cool/Heat Status
-T4	1	3	6	
-T5	1	3	8	
-T6	1	4	3	
-T7	1	5	4	Outdoor Air Damper
-T8	1	5	6	Shutoff Supply Air Damper
-T9	1	6	4	DPT Outdoor Filter
-T10	1	7	3	Cool/Heat Status Input
-T11	1	7	4	Fire Alarm (24V)
-T12	1	4	5	
-T13	1	4	6	-Remote HMI POL895
-T14	1	7	5	Frost Switch (24V)

Device tag	Quantity	Page	Column	Function
-TR1	1	2	4	Auxiliary Transformer 160VA (230/24V)
-UC1	1	3	1	AHU General Alarm
-UC2	1	8	1	Return air CO2
-UC3	1	10	1	Outdoor Air Temperature if Pre Heater is present (OPTIONAL)
-Y	1	3	1	AHU General Alarm
-Z	1	2	2	

+DOC/3

100102

[illegible]

102.b

	= TZB
	+ WD1
Page	102.a
Total	29

Terminal diagram				Strip =AHU+WD1-Y										Cable name										DAE_F13_004									
Cable name				Cable name										Cable name										Cable name									
-W11				-W11										-W11										-W11									
-W10				-W10										-W10										-W10									
-W9				-W9										-W9										-W9									
-W8				-W8										-W8										-W8									

102.d

	= TZB
	+ WD1
Page	102.c
Total	29

102.c

	= TZB
	+ WD1
Page	102.d
Total	29