KLAFS
MY SAUNA AND SPA

Circuit- and Installation diagram

for

Profi-Sanarium

Control unit

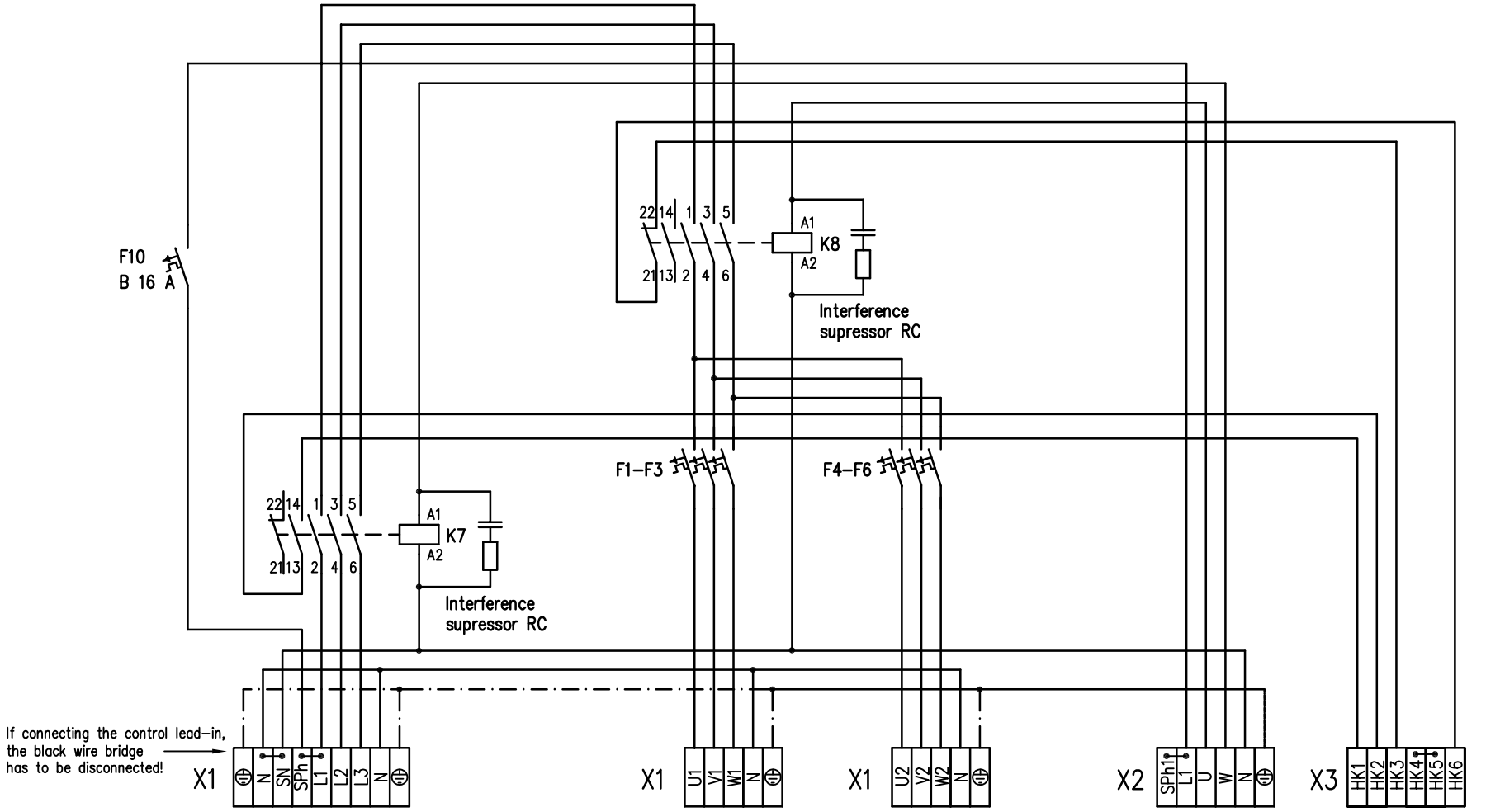
18033

with two heaters

18 kW - 30 kW

Stand: 1.03.2012
50701226

Main circuit in power unit with relay



Index	Änderung	Datum	Name		
				Datum	6.5.2010
				Bearb.	VHerr
				Gepr.	
				Norm	

main circuit
power unit with relay

Urspr. | Ers.f. | Ers.d.

KLAFS
Erich–Klafs–Str. 1–3
74523 Schwäbisch Hall

Profi – Sanarium
18 kW – 30 kW

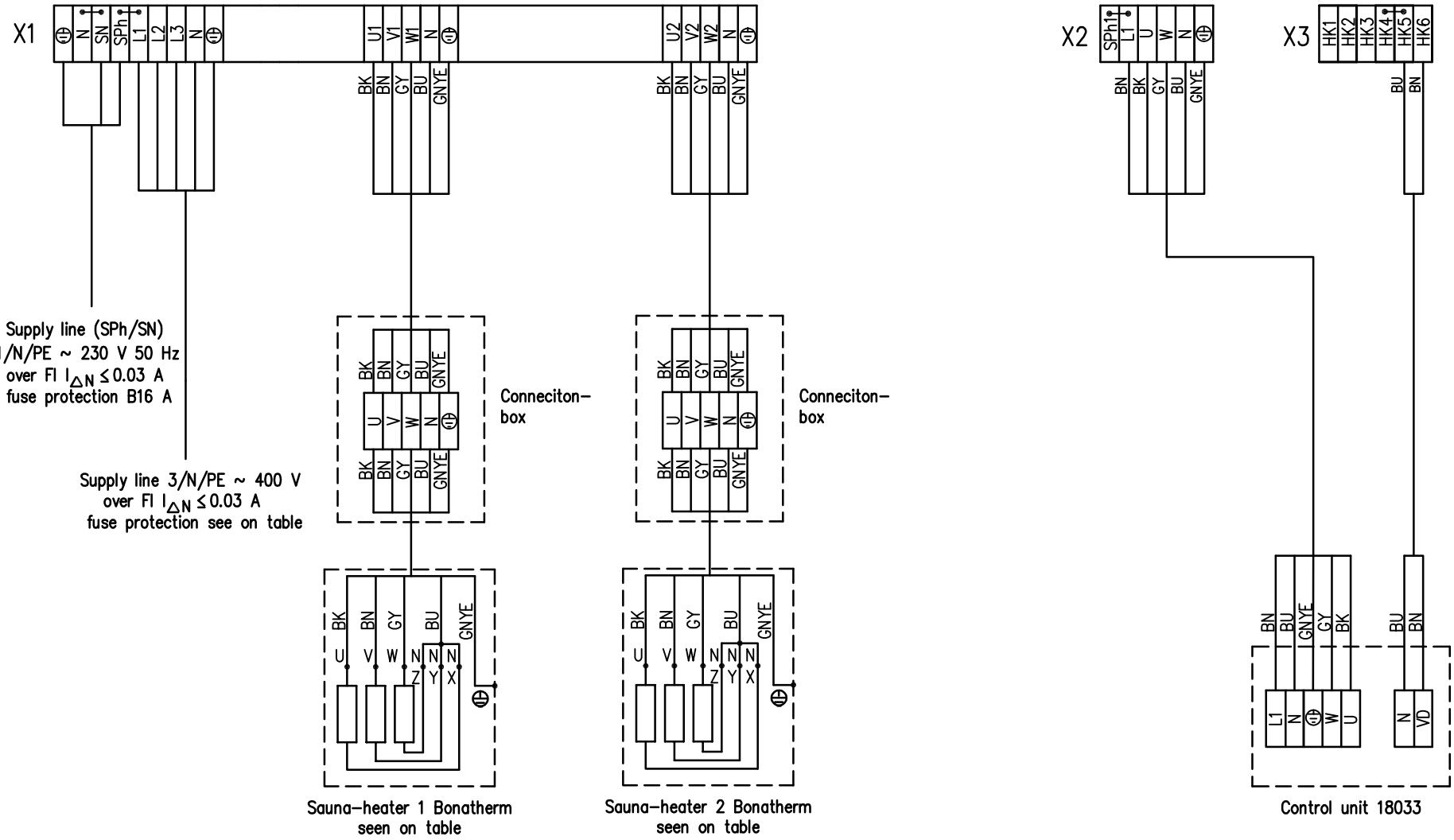
control unit 18033

50701226

Blatt 1
von 11 Bl

Terminal block in power unit with relay

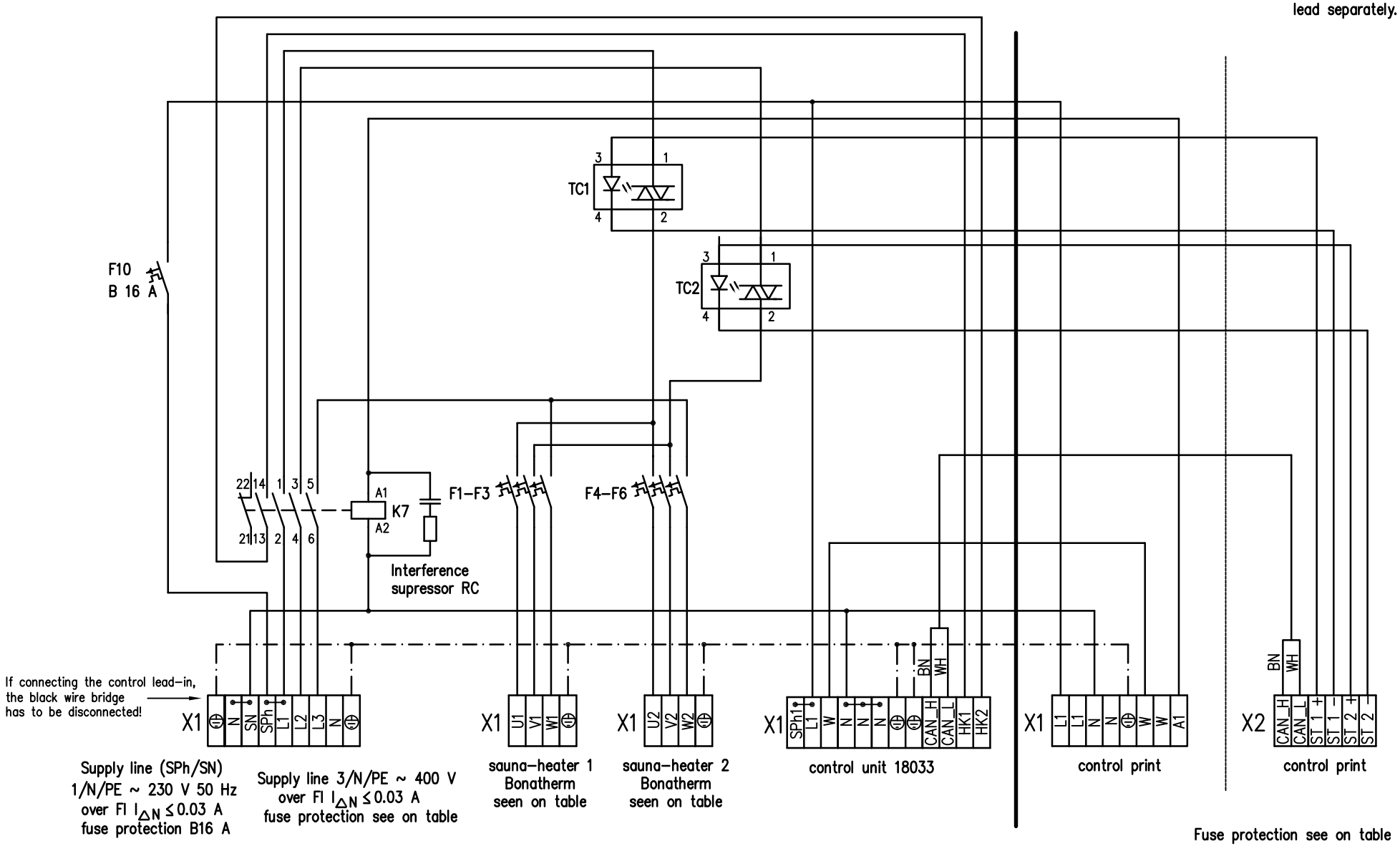
If connecting the control lead-in,
the black wire bridge
has to be disconected!



				Datum	6.5.2010	connecting diagram power unit with relay	KLAFS Erich-Klafs-Str. 1-3 74523 Schwäbisch Hall	Profi – Sanarium 18 kW – 30 kW	control unit 18033	= +
				Bearb.	VHerr					
				Gepr.					50701226	Blatt 2 von 11 Bl
Index	Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		

main circuit in power unit with semiconductor relay

Attention!
Low voltage, transfer lead separately.



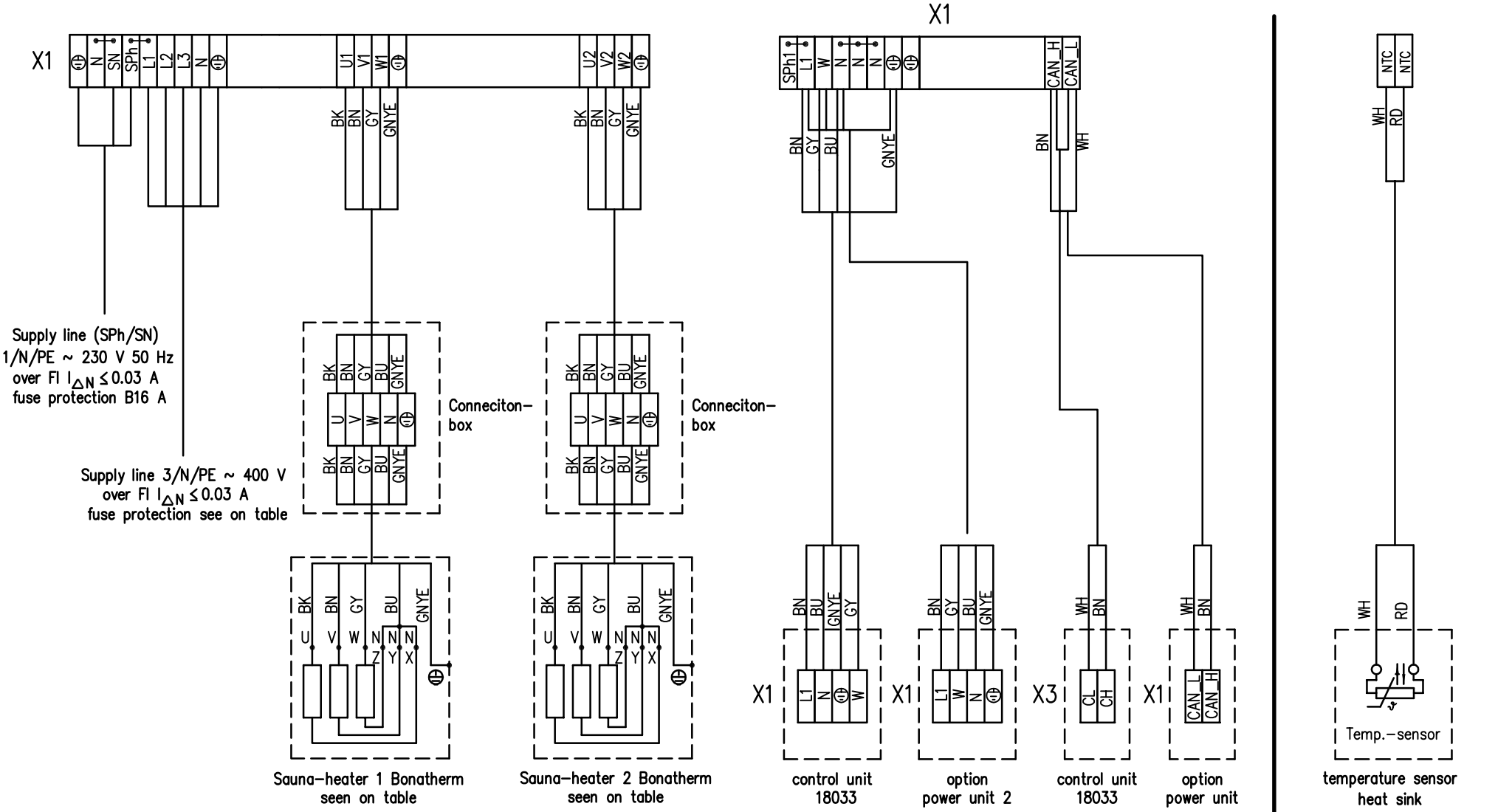
				Datum	6.5.2010	main circuit power unit semiconductor	KLAFS Erich-Klafs-Str. 1-3 74523 Schwäbisch Hall	Profi – Sanarium 18 kW – 30 kW	control unit 18033 =
				Bearb.	VHerr				+
				Gepr.					50701226 Blatt 3
Index	Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.	von 11 Bl

Terminal block in power unit with semiconductor relay

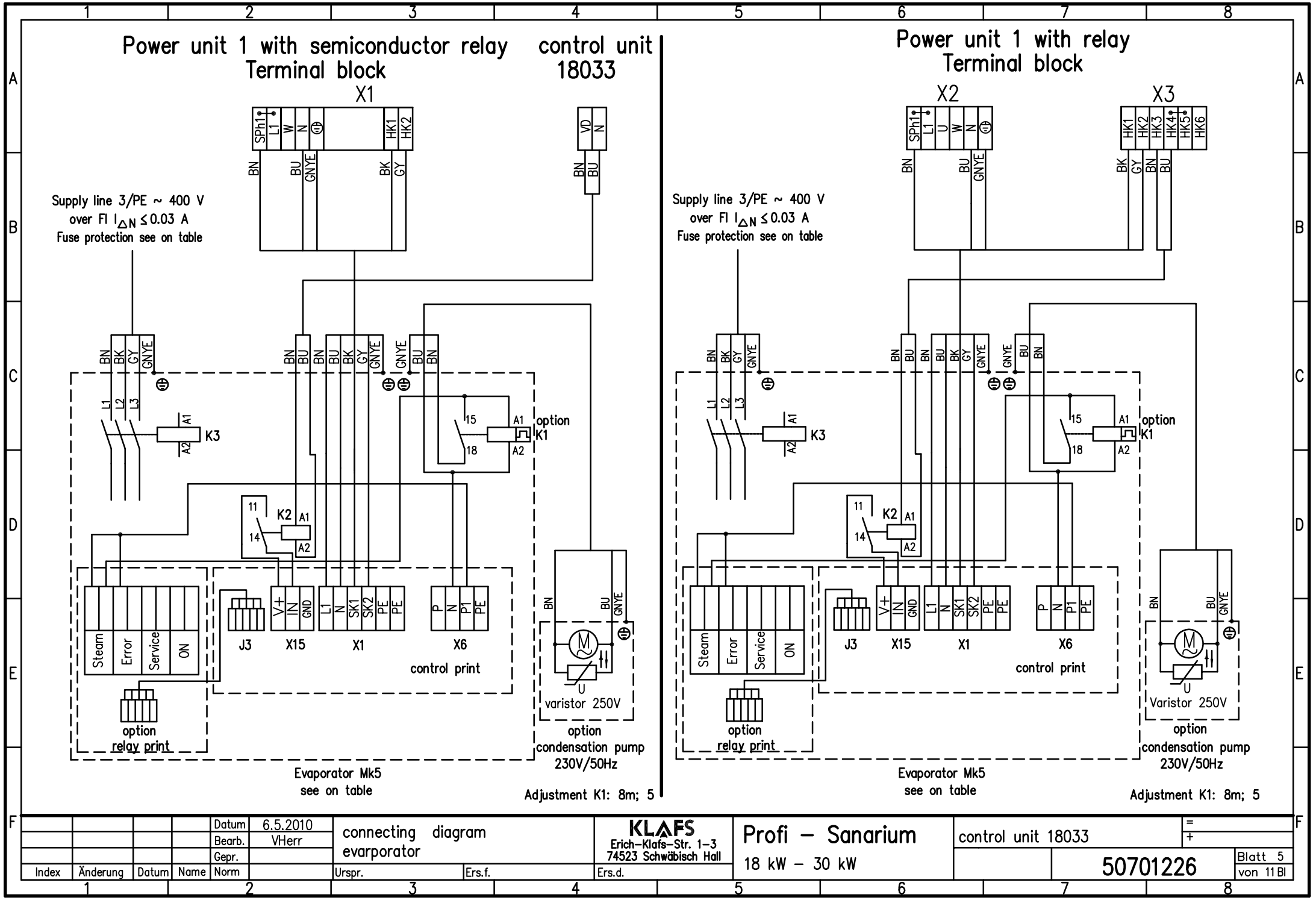
If connecting the control lead-in,
the black wire bridge
has to be disconected!

Attention!
Low voltage, transfer
lead separately.

Control print

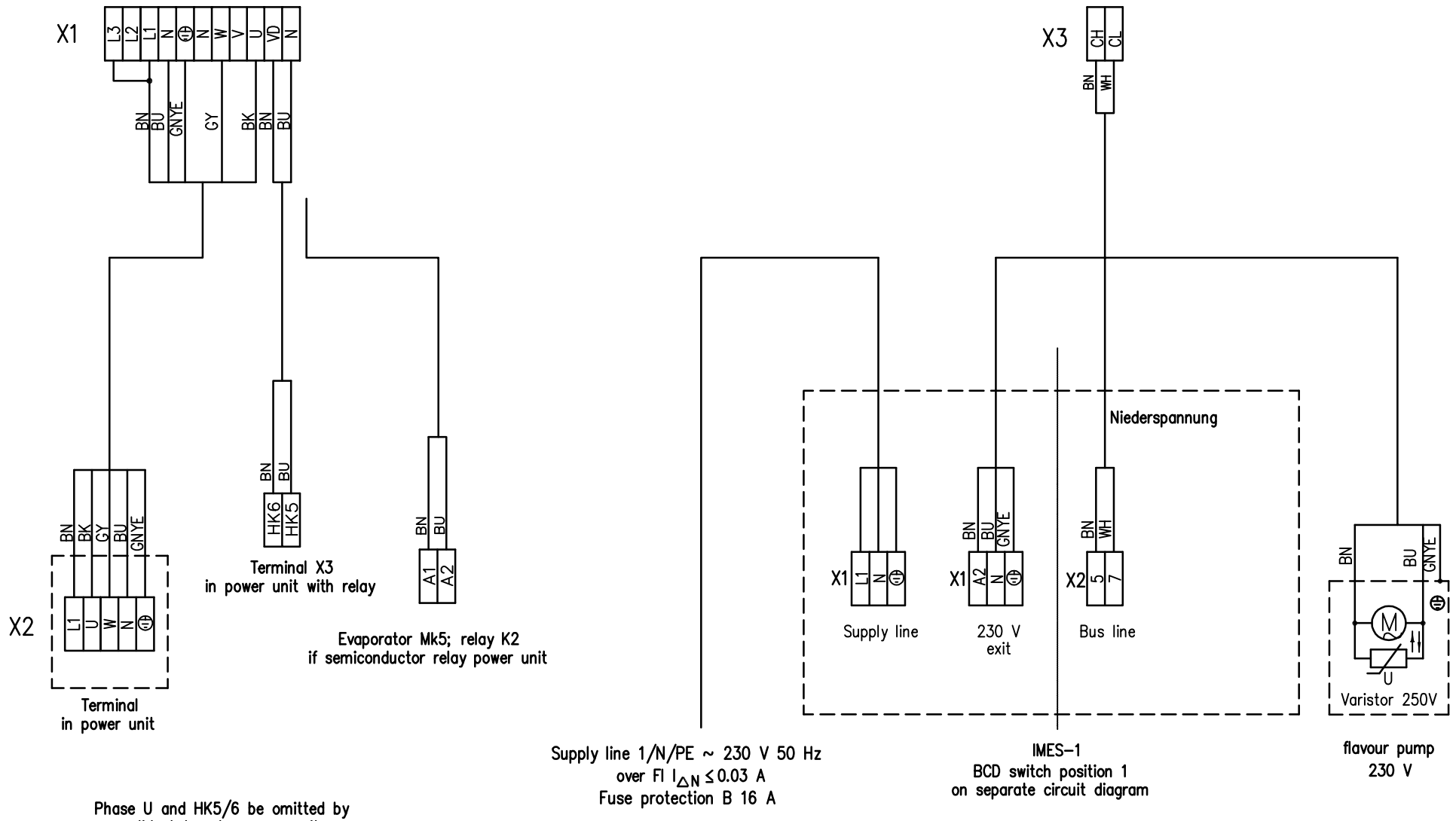


				Datum	6.5.2010	connecting diagram power unit semiconductor	KLAFS Erich-Klafs-Str. 1-3 74523 Schwäbisch Hall	Profi – Sanarium 18 kW – 30 kW	control unit 18033	=
				Bearb.	VHerr					+
				Gepr.					50701226	Blatt 4
Index	Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		von 11 Bl



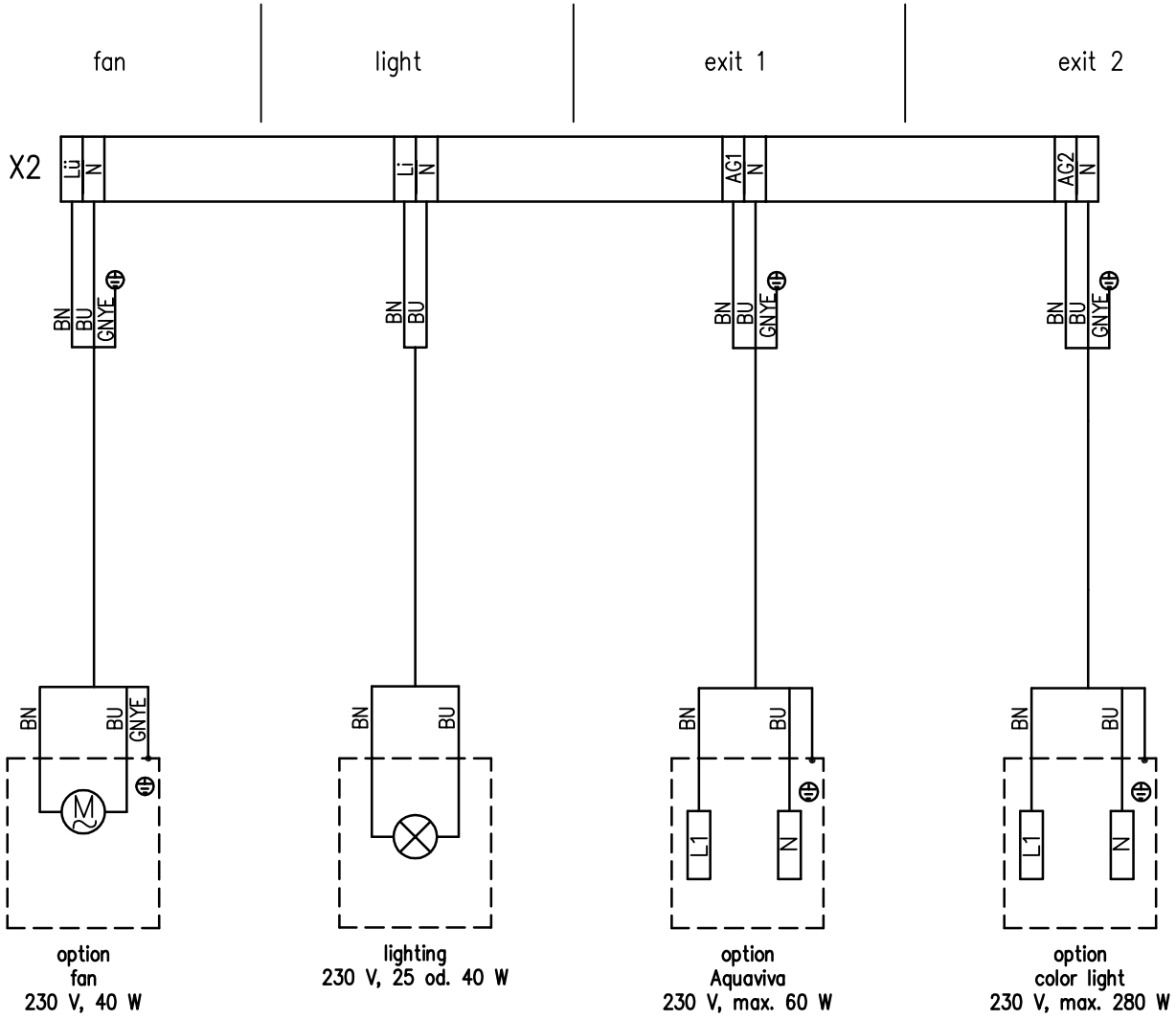
				Datum	6.5.2010	connecting diagram evarporator	KLAFS Erich-Klafs-Str. 1-3 74523 Schwäbisch Hall	Profi – Sanarium 18 kW – 30 kW	control unit 18033	=
				Bearb.	VHerr					+
				Gepr.					50701226	Blatt 5
Index	Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		von 11 Bl

Terminal block in control unit 18033 and IMES–1



				Datum	6.5.2010	connecting diagram control unit 18033	KLAFS Erich–Klafs–Str. 1–3 74523 Schwäbisch Hall	Profi – Sanarium 18 kW – 30 kW	control unit 18033	= +
				Bearb.	VHerr					
				Gepr.					50701226	Blatt 6 von 11 Bl
Index	Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		

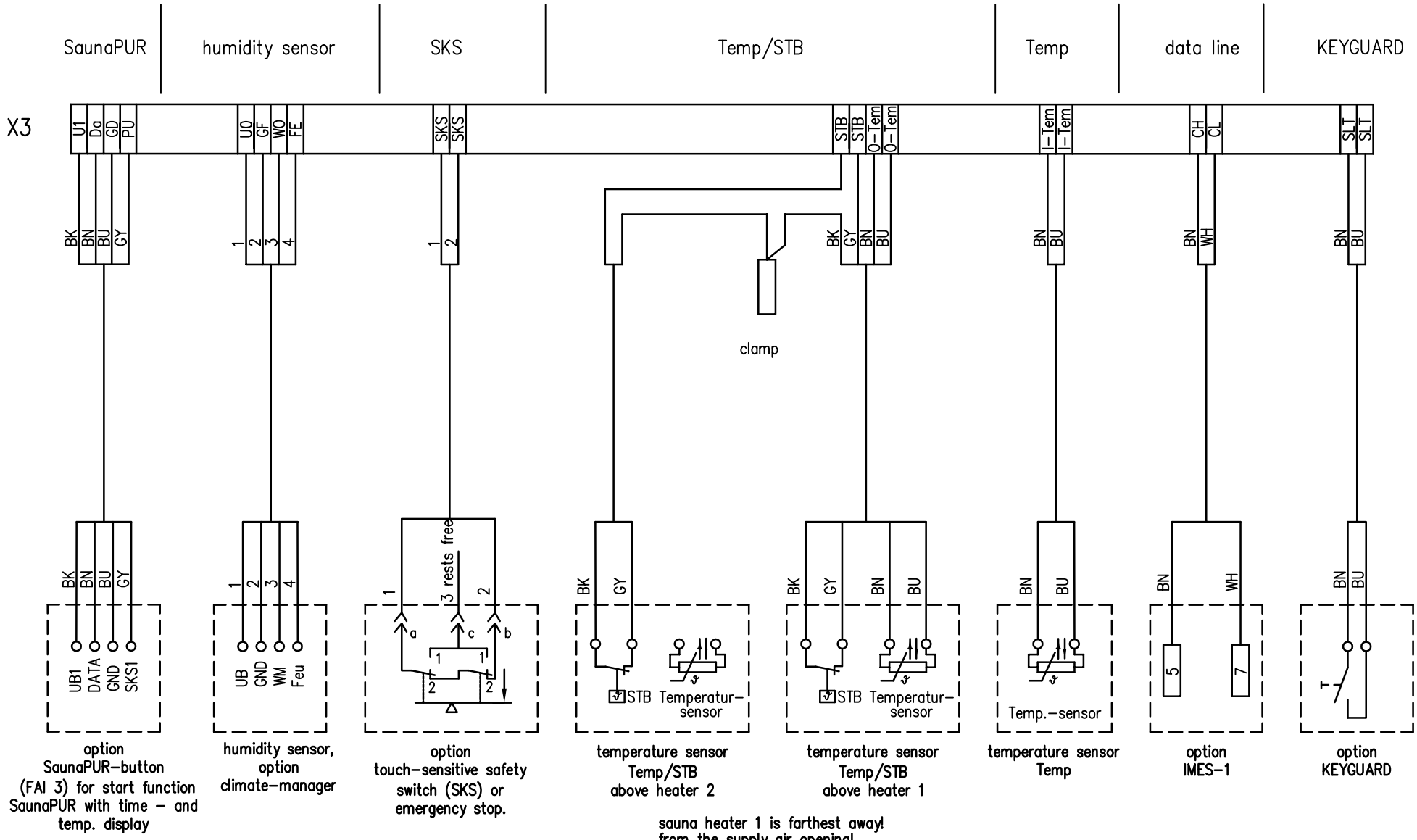
Connection clamp in control unit 18033



Warning !
exit 1 + light + fan = max. 280 W

				Datum	6.5.2010	connecting diagram control unit 18033	KLAFS Erich-Klafs-Str. 1-3 74523 Schwäbisch Hall	Profi – Sanarium 18 kW – 30 kW	control unit 18033 =
				Bearb.	VHerr				+
				Gepr.					Blatt 7
Index	Änderung	Datum	Name	Norm		Urspr. / Ers.f.	Ers.d.		50701226 von 11 Bl

Terminal block in control unit 18033



option SaunaPUR-button (FAI 3) for start function SaunaPUR with time - and temp. display

humidity sensor, option climate-manager

option touch-sensitive safety switch (SKS) or emergency stop.

temperature sensor Temp/STB above heater 2

temperature sensor Temp/STB above heater 1

temperature sensor Temp

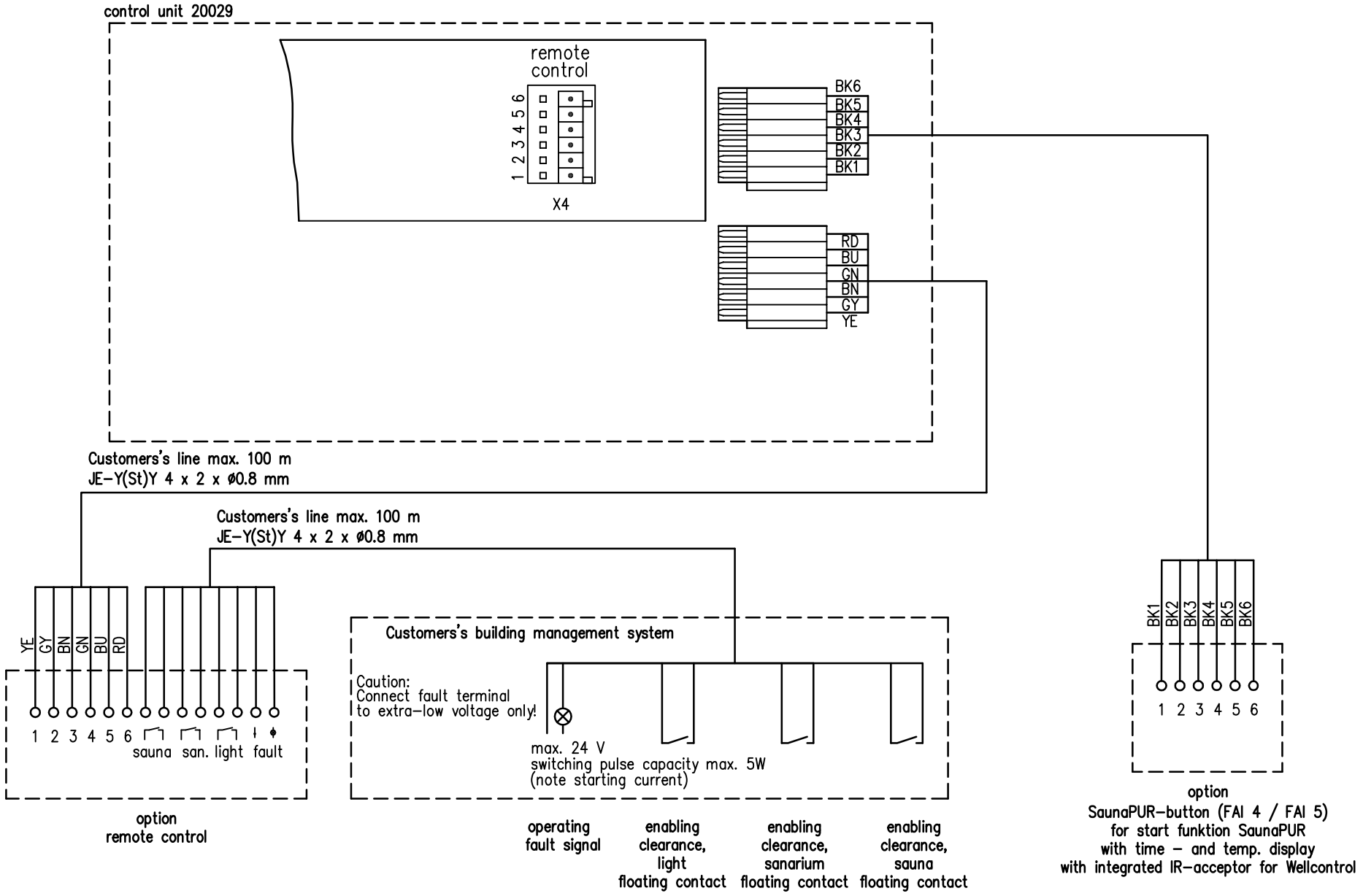
option IMES-1

option KEYGUARD

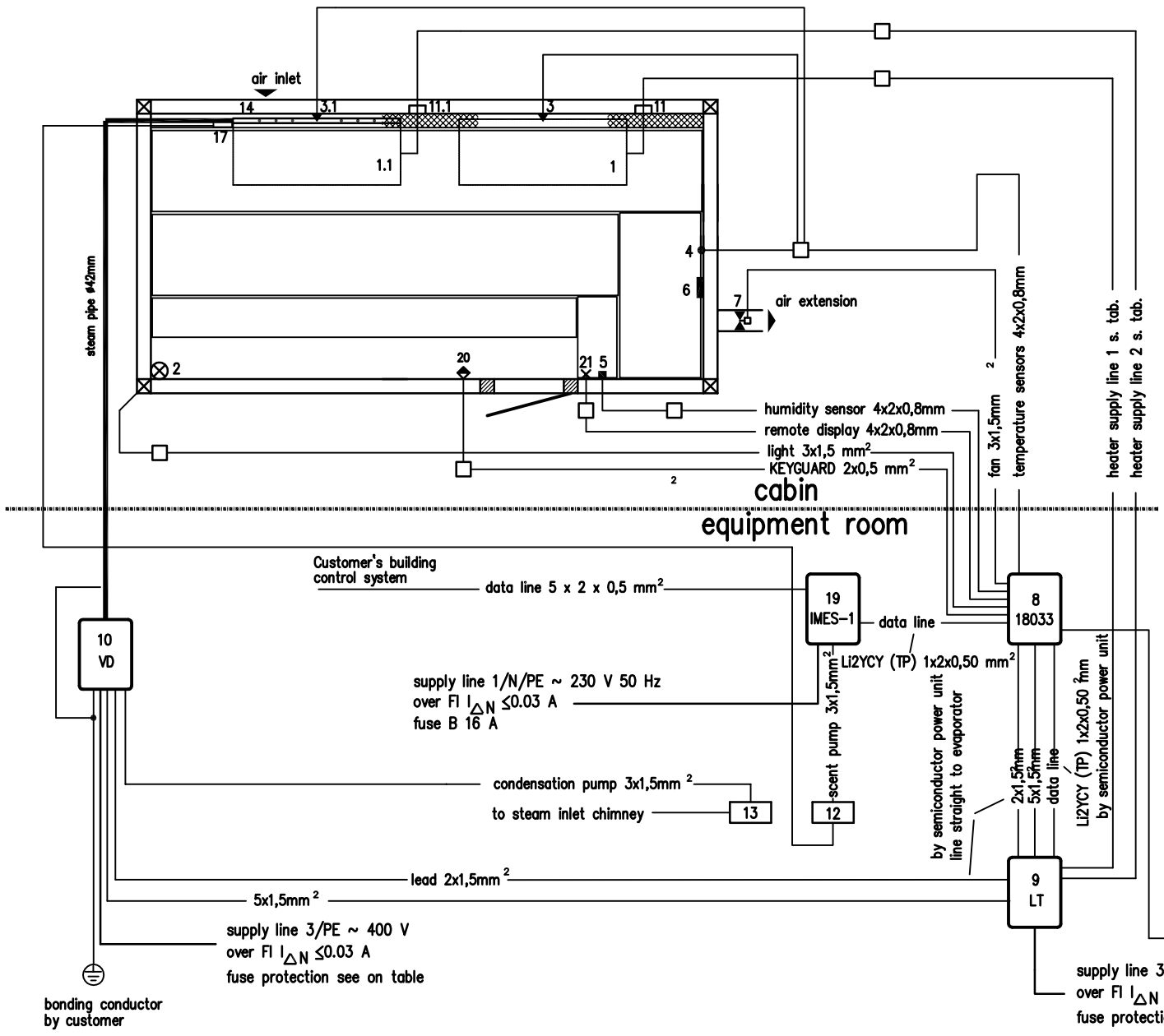
sauna heater 1 is farthest away! from the supply air opening!

				Datum	6.5.2010	connecting diagram control unit 18033	KLAFS Erich-Klafs-Str. 1-3 74523 Schwäbisch Hall	Profi - Sanarium 18 kW - 30 kW	control unit 18033
				Bearb.	VHerr				=
				Gepr.					+
Index	Änderung	Datum	Name	Norm		Urspr. / Ers.f.	Ers.d.		50701226 Blatt 8 von 11 Bl

Connecting clamp in control unit 18033



				Datum	6.5.2010	connecting diagram control unit 18033	KLAFS Erich-Klafs-Str. 1-3 74523 Schwäbisch Hall	Profi - Sanarium 18 kW - 30 kW	control unit 18033
				Bearb.	VHerr				=
				Gepr.					+
Index	Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.	50701226
									Blatt 9 von 11 Bl



Legend:

1 = Sauna-heater 1
1.1 = Sauna-heater 2
2 = light, height of cable bushing = 1,75 m above finished floor
3 = Temperature probe Temp/ STB
height = 0,10 m below grille hot-air shaft
in the middle above heating unit (middle of the housing)
3.1 = STB
height = 0,10 m below grille hot air shaft
in the middle above heating unit (middle of the housing)
4 = Temperature probe Temp
height = 0,15 m below sauna ceiling (middle of the housing),
The limiter unit is mounted at 2,10 when the sauna
is higher than 2,20.
5 = Humidity sensor Type FRL + optional Climate-Manager
height = 1,38 m top edge housing above finished floor.
horizontal min. 1 m steam inlet
6 = Thermometer, height = 0,15 m below sauna ceiling.
(middle of the housing)
7 = fan 230 V
8 = Control unit 18033
Height 1.65 m above finished floor level (centre of display).
9 = Power unit
10 = Evaporator Mk5 Visual (seen on table I)
11 = heating unit-connection box
11.1 = heating unit-connection box
12 = scent pump
13 = Condensation pump (Option)
14 = Steam pipe Art. Nr. 519740
17 = Scent basin
18 = Remote control (Option)
19 = IMES-1
20 = KEYGUARD (Option)
21 = Remote display for temperature, time and moisture
height= 1,38m top edge housing above finished floor (Option)

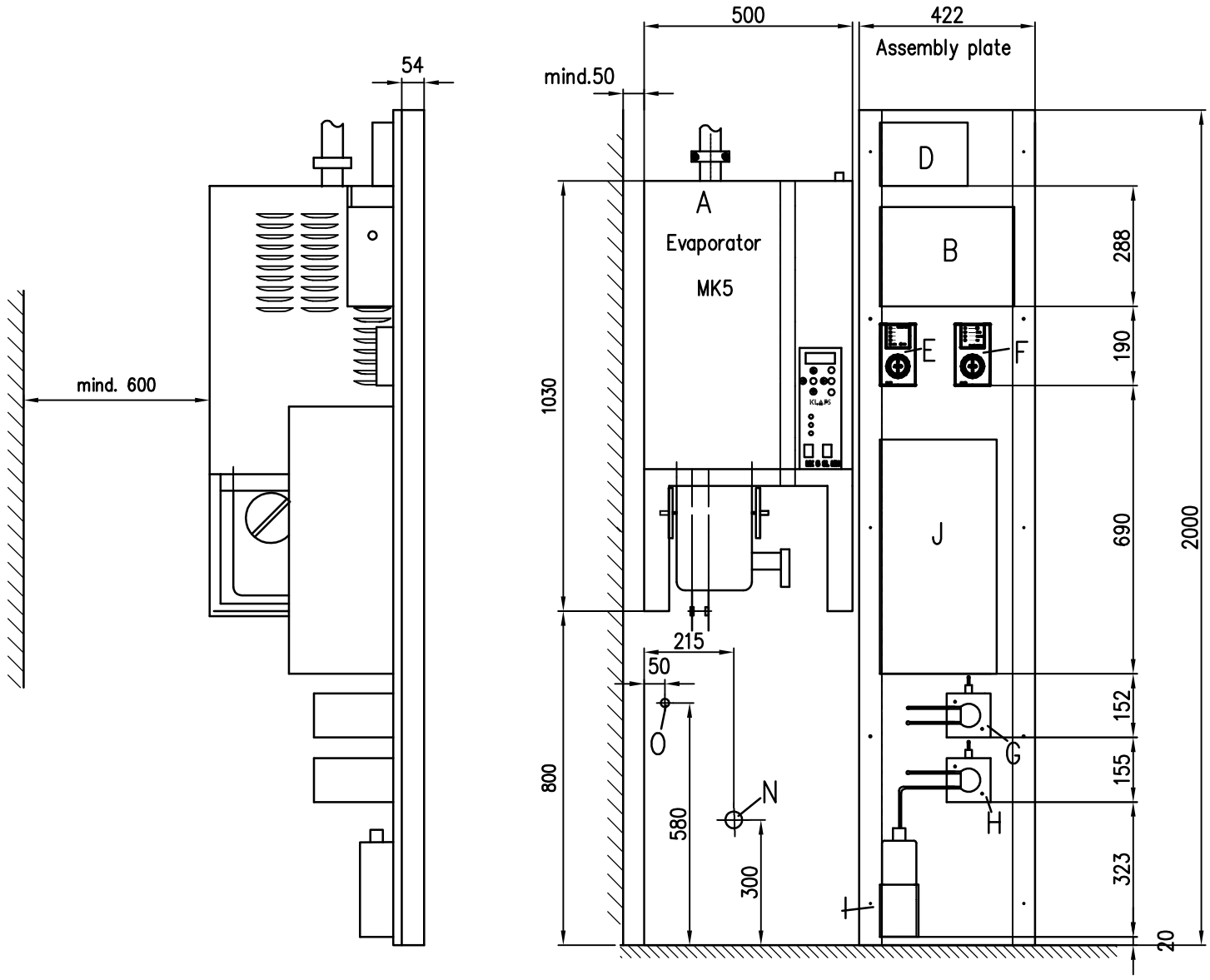
Important:

All electric cables inside the sauna have to be covered with silicon!
In case of external control board and power switch junktion boxes have to be attached near the sauna cabin, to get a transition of NYM-cables to silicon.

When determining the care spezifications of electrical cables, please made, due allowance for the length of cable required and the ambiant temperature
(to comply to VDE 0100, part 430, Nov'91)
Ambient temperatur equipment room 0°C – 40°C
High humidity 80% RH

				Datum	6.5.2010	Installation diagram Bonatherm	KLAFS Erich-Klafs-Str. 1-3 74523 Schwäbisch Hall	Profi – Sanarium 18 kW – 30 kW	control unit 18033
				Bearb.	VHerr				
				Gepr.					
Index	Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.	50701226

Blatt 10 von 11 Bl



A Evaporator Mk5

B Control unit

D IMES–1

E Light field–control unit Typ 16072 (Option)

F Remote control (Option)

G Condensation pump (Option)

H Scent pump

I Scent

J Power unit

N Water drain
HT–pipe NW 40
with condensation pump

O Water intake
R 1/2" cold
corner valve R 1/2"

				Datum	6.5.2010	Installation diagram assembly plate	KLAFS Erich–Klafs–Str. 1–3 74523 Schwäbisch Hall	Profi – Sanarium 18 kW – 30 kW	control unit 18033
				Bearb.	VHerr				
				Gepr.					50701226
Index	Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.	Blatt 11 von 11 Bl