Elektriskeem

iTec XT ja iTec XTR

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Muukeelsed versioonid on originaalkasutusjuhendi tõlked.
(direktiiv 2006/42/EÜ)

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Sisukord

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1.1 Üksuse number tabelis 4

2 iTec XT/iTec XTR 400V~3N 6
2.1 iTec XT/iTec XTR 400V~3N 6

3 iTec XT/iTec XTR 230V~1N 15
3.1 iTec XT/iTec XTR 230V~1N 15

4 iTec XT/iTec XTR 230V~3 24
4.1 iTec XT/iTec XTR 230V~3 24

1 Üksuse number tabelis

1.1 Üksuse number tabelis

Soojuspumba puhul kasutatakse järgmist numbrit/märkust. Kasutatav number/märkus oleneb soojuspumba mudelist.

Number/märkus	Kirjeldus
5	Soojuspump
7	Õhk-vesi soojuspumba siseseade
31	Ringluspump (HWC)
32	Ringluspump (bassein)
33	Ringluspump (šundi lisaküttekeha)
34	Ringluspump (kuum gaas)
35	Ringluspump (WCS)
36	Ringluspump (süsteem)
38	Ringluspump (jahutuskontuur)
39	Ringluspump (soojuspump)
40	Laienduskaart
48	Väline soolvee sissevooluandur
49	Väline soolvee väljavooluandur
50	Väline andur
51	Süsteemi pealevooluandur
52	Süsteemi tagasivoolu andur
53	Alumine sooja vee andur
54	Andur (WCS)
55	Ülemine sooja vee andur
56	HWC tagasivoolutoru andur
57	Jahutuspaagi tagasivoolu andur
58	Jahutuskontuuri pealevooluandur
59	Jahutuspaagi andur
60	Basseiniandur
61	Soojuspumba tagasivoolu andur
62	Ruumiandur
63	Sooja vee andur
64	Külma vee andur
71	Voolukaitse/-andur
72	Välise lisaküttekeha šunt
73	Juhtventiil WCS
74	Jahutuskontuuri šuntventiil
75	Segamisventiil HW
76	Soojuspumba pöördventiil
77	Sooja vee pöördventiil
78	Jahutuse pöördventiil
79	Aktiivjahutuse pöördventiil
101	Basseini tagastusklapp
105	Regulaator
107	Šunt (ringjaotus 1)
108	Pealevooluandur (ringjaotus 1)

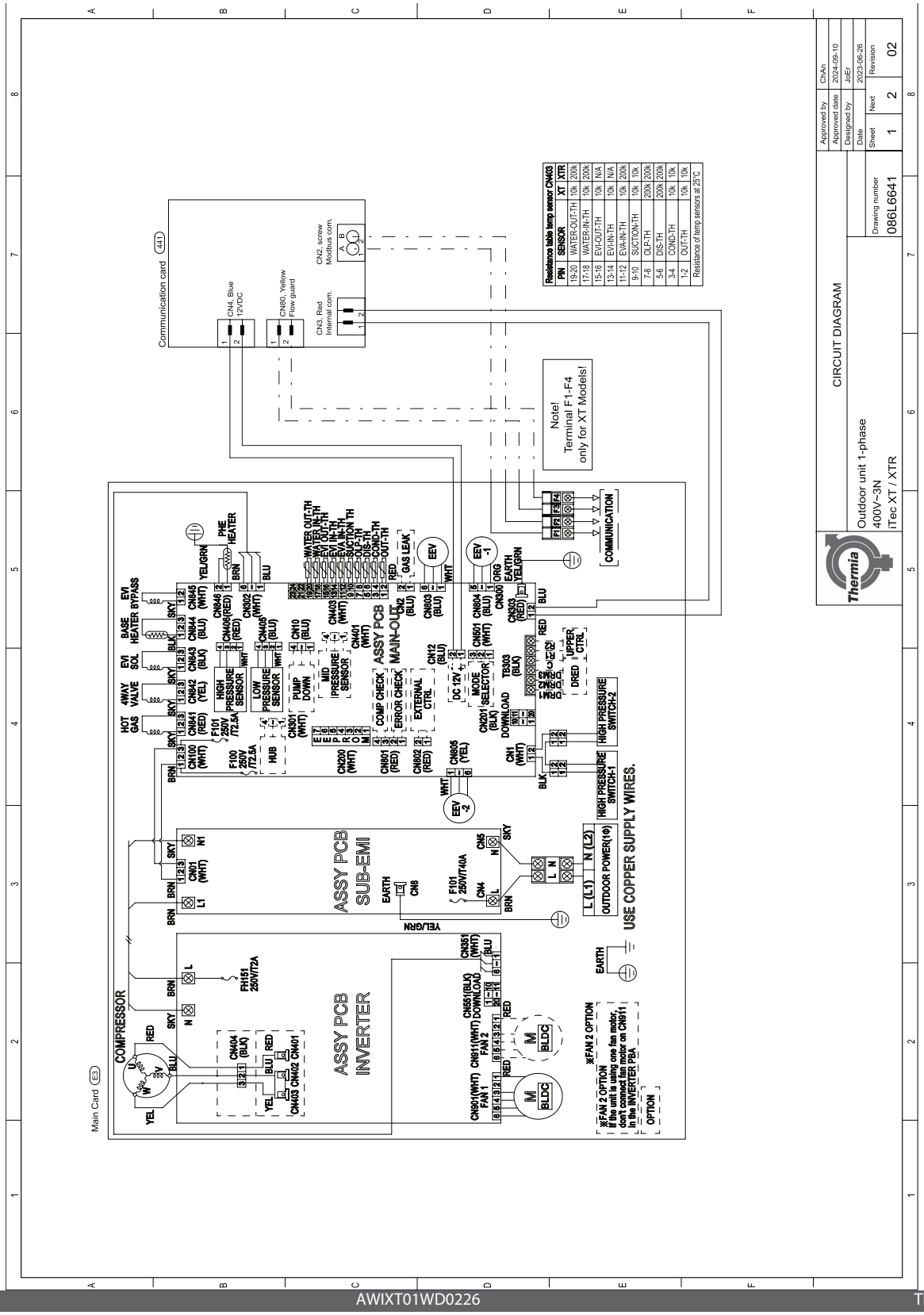
Number/märkus	Kirjeldus
109	Ringluspump (ringjaotus 1)
115	Kuuma gaasi katla lisaküttekeha
117	Väline lisaküttekeha
118	Lisaküttekeha (Legionella-vastane)
119	Kuivjahuti juhtsignaal
132	Passiivne ruumiandur
136	Paisupaagi andur
143	Tagasivoolutoru šunt
170	Süsteemi ringluspump A
171	Süsteemi ringluspump B
172	Lisaringluspump (soolvesi)
173	BMS/Hoone haldussüsteem
174	Tarvik
175	Tarviku jälgimine võrgus
176	Välise küttekeha läbipõlenud pump
180	Paagiandur TWC (kuuma gaasi katel)
181	Tagasivoolu andur (jahutuskontuur)
182	Soojuspumba pealevooluandur
183	Basseini pealevooluandur
184	Kuuma gaasi katla pöördventiil
185	Jahutuse pöördventiili režiim
186	Individuaalse basseini pöördventiil
207	Šunt (jaotuskontuur 2–5)
208	Pealevooluandur (jaotuskontuur 2–5)
209	Ringluspump (jaotuskontuur 2–5)
210	Tagasivoolu andur (jaotuskontuur 2–5)
211	Ventiili tsoon 1
212	Ventiili tsoon 2
213	Ruumianduri tsoon 1
214	Ruumianduri tsoon 2
250	Basseini ahela šunt
251	Soojuspumba šuntventiil
301	Kompressor
302	Soolvee pump
304	Varuringluspump
305	Ventilaator
308	Kondensaatori pump
310	Pöördventiil
311	4-suunaline klapp
312	Möödaviiguventiil
313	Elektrooniline paisventiil

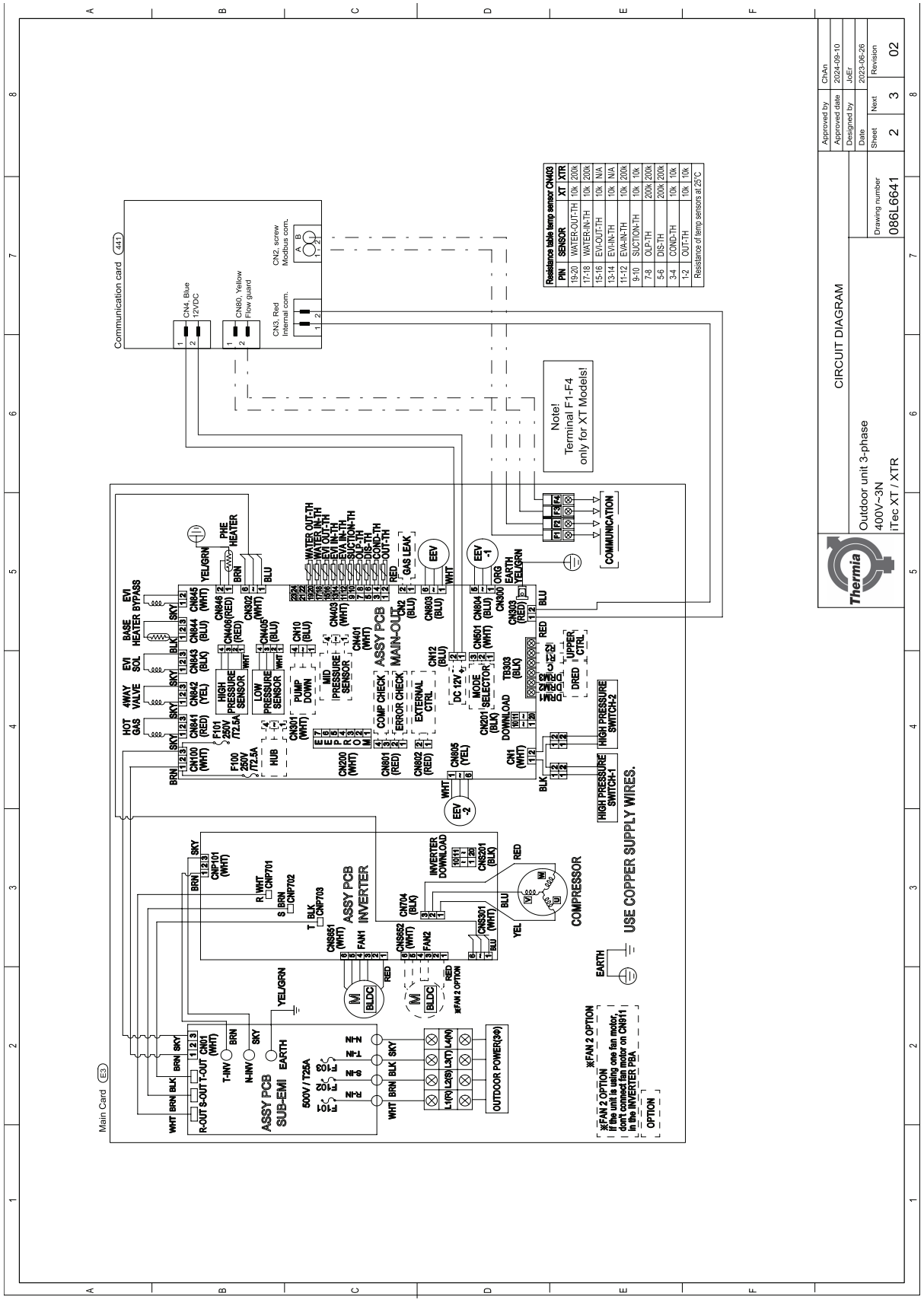
Number/märkus	Kirjeldus
314	Elektrooniline sissepritseventiil
317	Sukelküttekeha
318	Ringluspumba sekundaarne seade
319	Solenoidventiil
320	Gaasiseparaator
340	Temperatuurikaitse
341	Käivitussignaal
342	Väline mahuti välja lülitatud
343	Välise WCS-i käivitamine
344	Häirerelee
345	Sisemise soolvee käivitussignaal
346	Jahutuse käivitussignaal
347	Jahutusrežiim
354	Kompressori küttekeha
355	Kogumisaluse küttekaabel
364	Sooja vee šuntventiil
365	Pealevooluandur, sekundaarne
366	Tagasivoolu andur, sekundaarne
370	Sekundaarne ringluspump
375	Soolveeklapp
377	Mahupaagi pöördventiil
402	Mahupaagi andur
403	Töörõhu lüliti
404	Soolvee sissevooluanduri jahutusrežiim
405	Radiaatori väljundiandur
407	HGW andur
408	EVU / nutikas võrk 1
409	Nutikas võrk 2
411	Radiaatori tagasivooluandur
412	Soolvee väljavooluandur
413	Soolvee sissevooluandur
414	Kõrgrõhulüliti
416	Väljalasketoru andur
417	Sulatusandur
418	Jahutusaine 1 / vedelikutoru andur
419	Jahutusaine 2 / aurustusandur
421	Imigaasi andur
422	Kastepunkti andur
431	Vedelikutoru andur
432	Signaali kompressor on töös
433	Madalrõhuandur
434	Kõrgrõhuandur
435	Inverter
436	DI 1

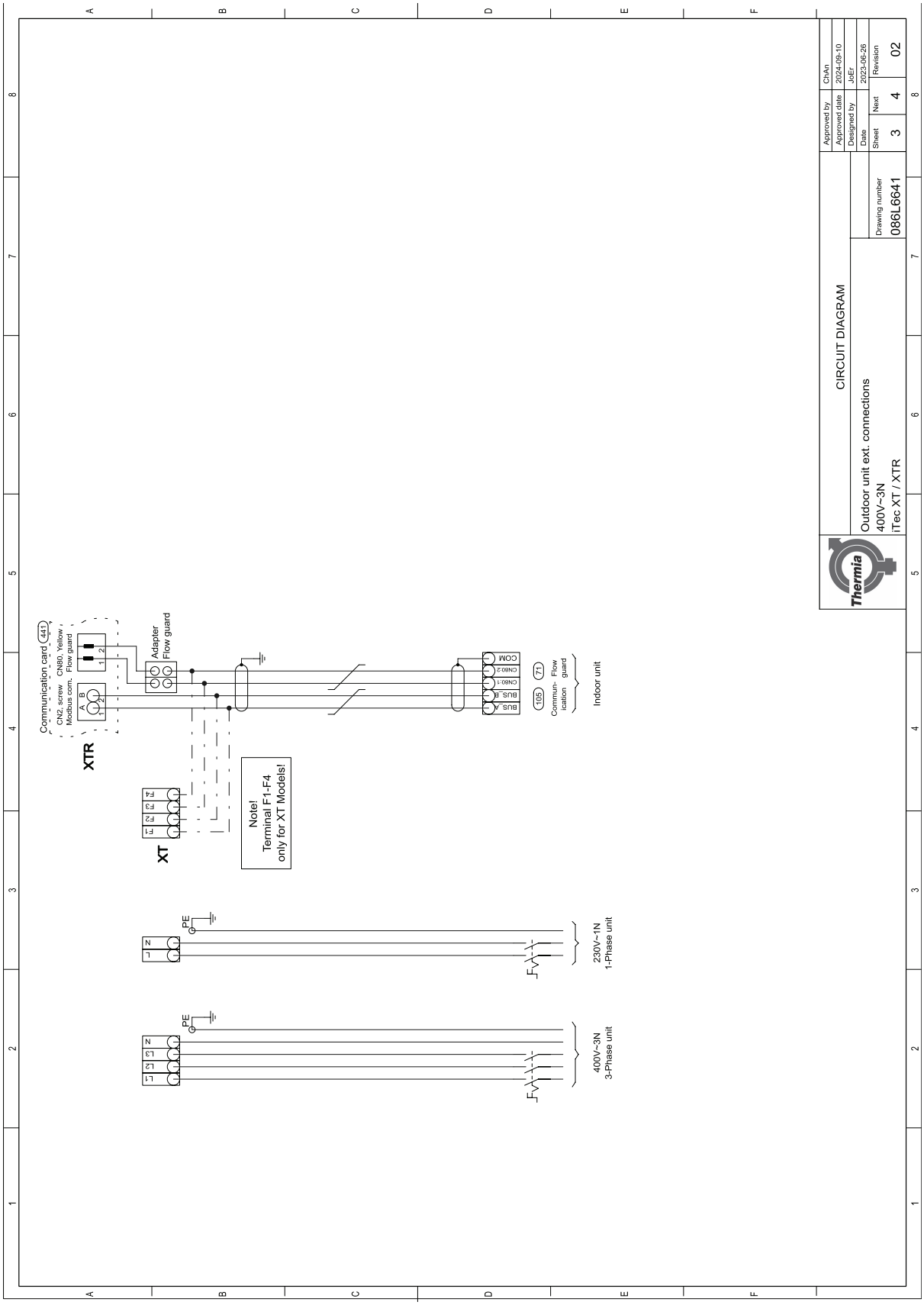
Number/märkus	Kirjeldus
437	DI 2
438	DI 3
439	DI 4
440	Varu
441	Sidekaart
442	Peamine PCB
443	Alam-PCB
444	Väline alarm
445	DI 5
446	DI 6
447	DI 7
448	DI 8
449	DC-piiraja
453	Ekraan
455	Siseruumijaoturi kontroller
456	Voolutugevuse piiraja
501	Külmumiskaitse andur
502	Sissepritseandur
503	Õhu väljavooluandur
504	Õlivanni andur
505	EVI rõhuandur
506	Kondensaatori väljavooluandur
507	Kondensaatori sissevooluandur
508	Õhu sissevooluandur
509	Gaasiandur
510	Rõhkude vahe lüliti
600	Välisseade koos kompressoriga ja sisseehitatud elektrilise lisaküttega
* Märkus 8	Häire
* Märkus 9	Kiiruse juhtelement
* Märkus 15	Sukelküttekeha või väline lisaküttekeha
* Märkus 16	Potentsiaalivaba kontakt
* Märkus 17	Välisseadmesse
* Märkus 18	Paisuseadmesse
* Märkus 19	Side
* Märkus 28	230 V AC väliste koormuste jaoks
* Märkus 29	Koormus kuni 5 A
* Märkus 30	24 V AC väliste koormuste jaoks
* Märkus 31	Kogukoormus kuni 1 A
*Märkus 32	Väline seade on varustatud modbus-sidekaardiga, mida ei kuvata sellel vooluringi diagrammil. Klemm F1/F2 on põhitrükkplaadi asemel ühendatud sidekaardiga.
*Märkus 33	15 kW sukelküttekeha on valikuline
*Märkus 34	Töötab ainult koos EM3-kaardiga

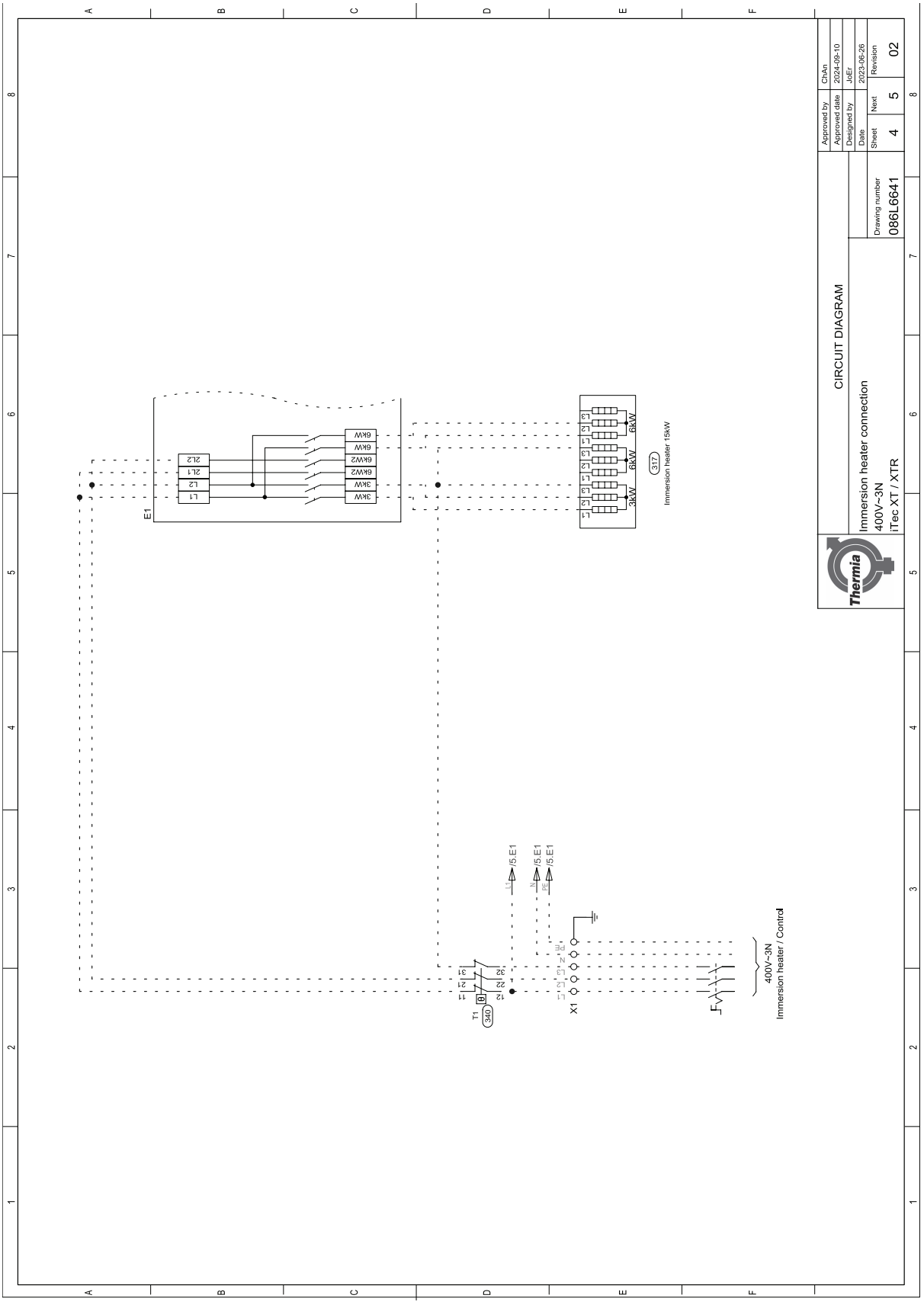
2 iTec XT/iTec XTR 400V~3N

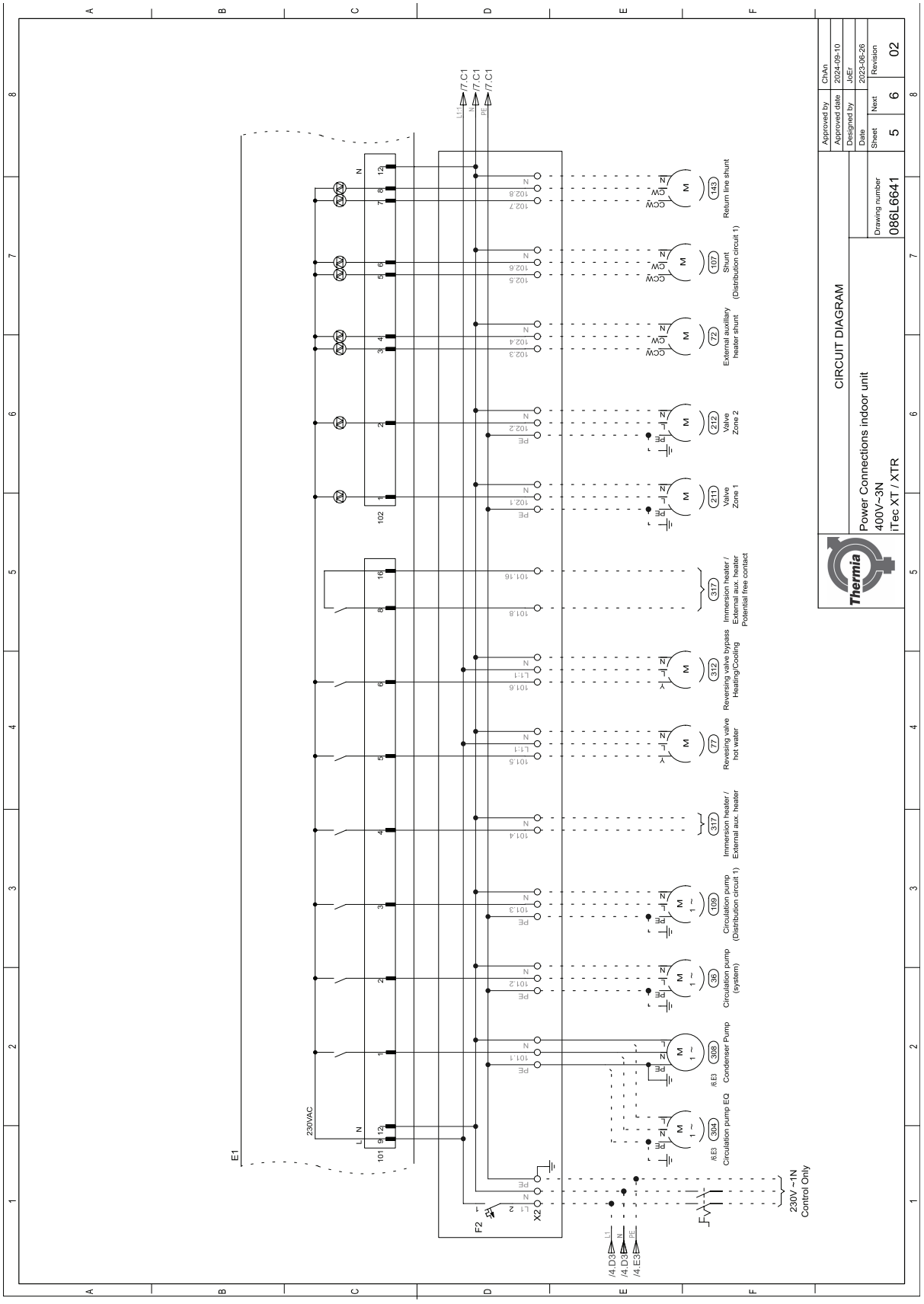
2.1 iTec XT/iTec XTR 400V~3N

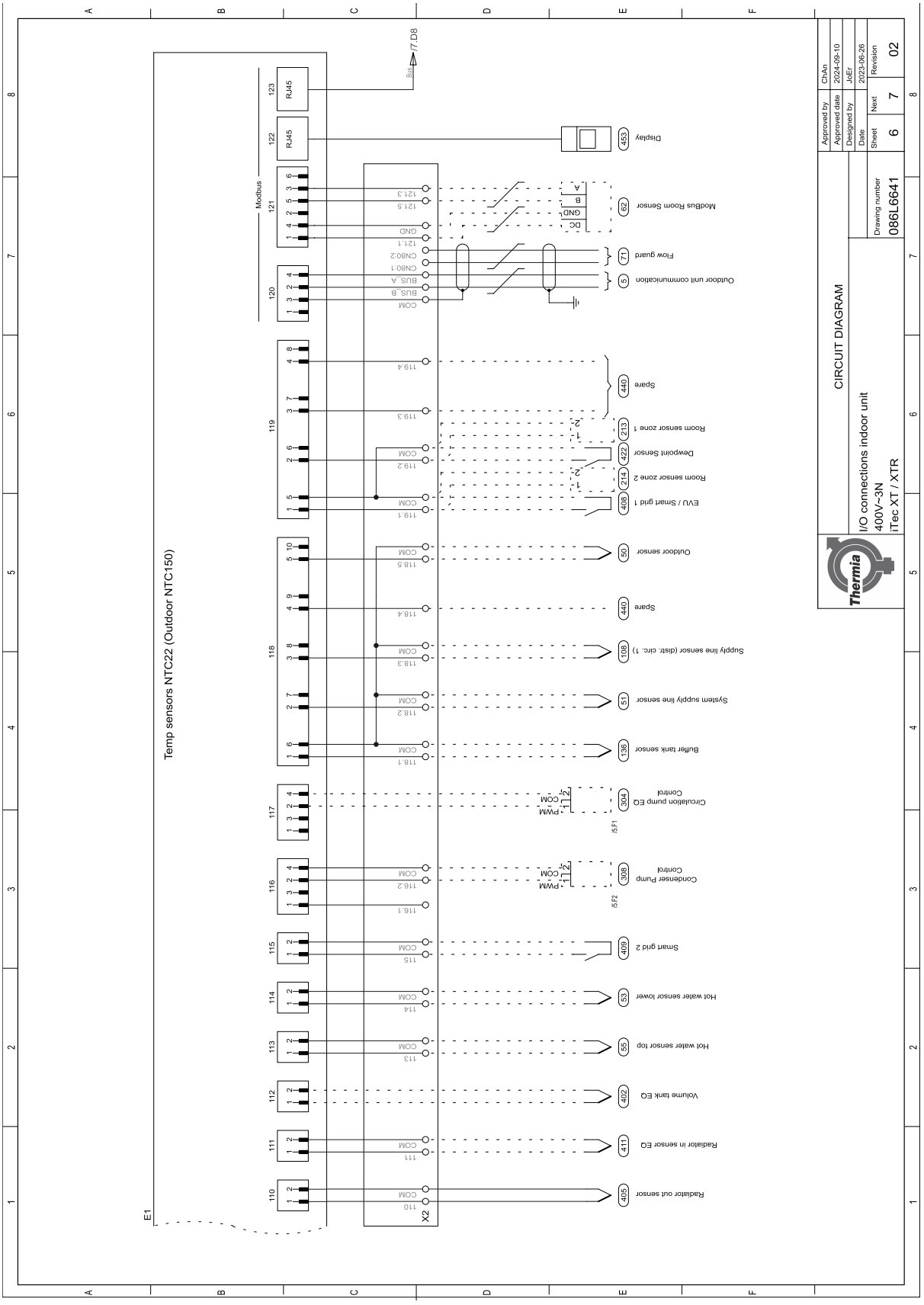


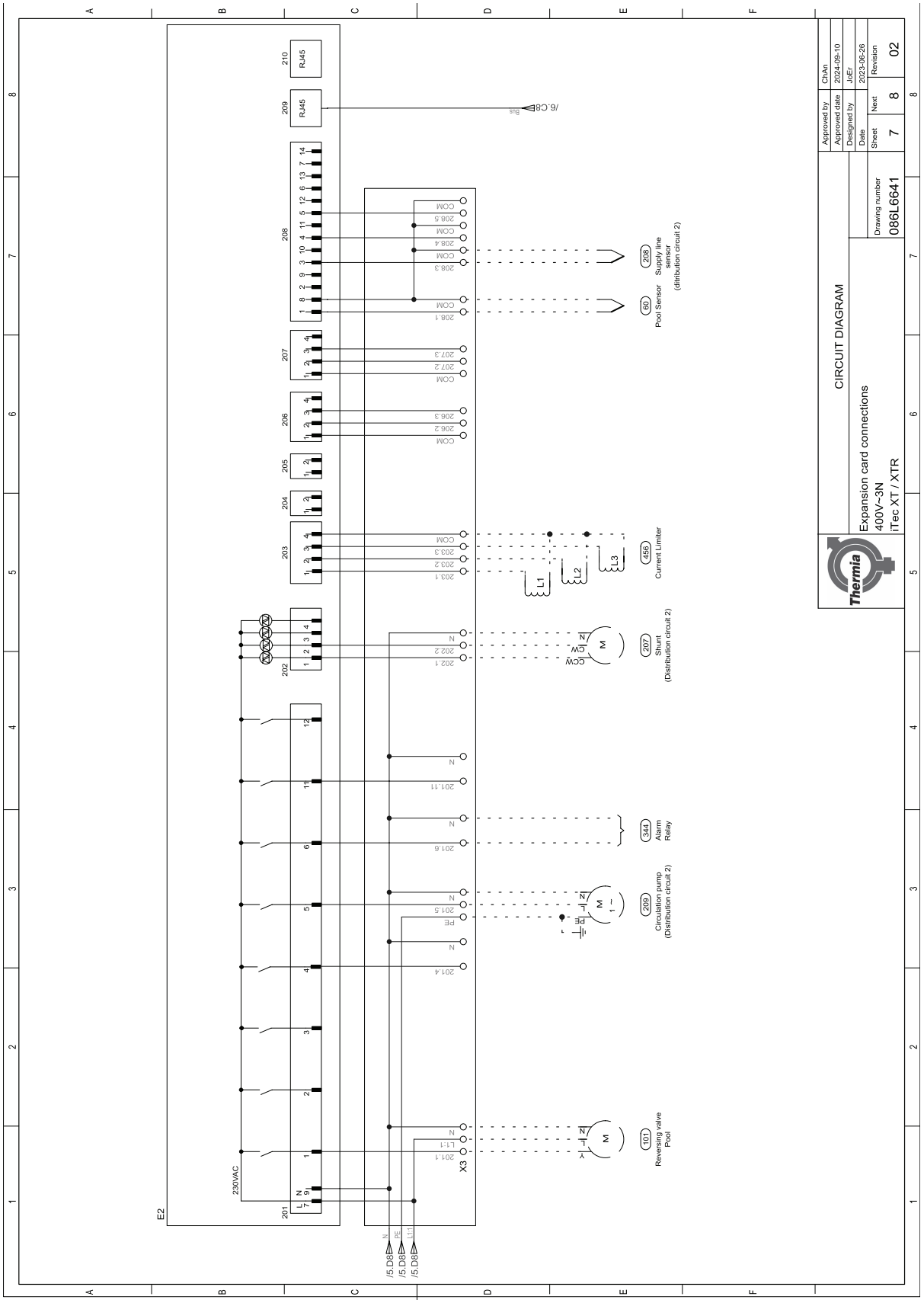

CIRCUIT DIAGRAM
Outdoor unit 3-phase
400V~3N
iTec XT / XTR
Drawing number
086L6641
Sheet 2
Next 3
Revision 02
Approved by ChAn
Approved date 2024-09-10
Designed by JoEr
Date 2023-06-26
Communication card (441)
CN4, Blue 12VDC
CN80, Yellow Flow guard
CN3, Red Internal com.
CN2, screw Modbus com.
Note! Terminal F1-F4 only for XT Models!
Main Card (E3)
ASSY PCB SUB-EMI
ASSY PCB INVERTER
ASSY PCB MAIN-OUT
COMPRESSOR
OUTDOOR POWER(3Φ)
USE COPPER SUPPLY WIRES.
※FAN 2 OPTION
if the unit is using one fan motor, don't connect fan motor on CN811 in the INVERTER PBA
OPTION
Resistance table temp sensor CN403
PIN SENSOR XT XTR
19-20 WATER-OUT-TH 10k 200k
17-18 WATER-IN-TH 10k 200k
15-16 EVI-OUT-TH 10k N/A
13-14 EVI-IN-TH 10k N/A
11-12 EVA-IN-TH 10k 200k
9-10 SUCTION-TH 10k 10k
7-8 OLP-TH 200k 200k
5-6 DIS-TH 200k 200k
3-4 COND-TH 10k 10k
1-2 OUT-TH 10k 10k
Resistance of temp sensors at 25°C

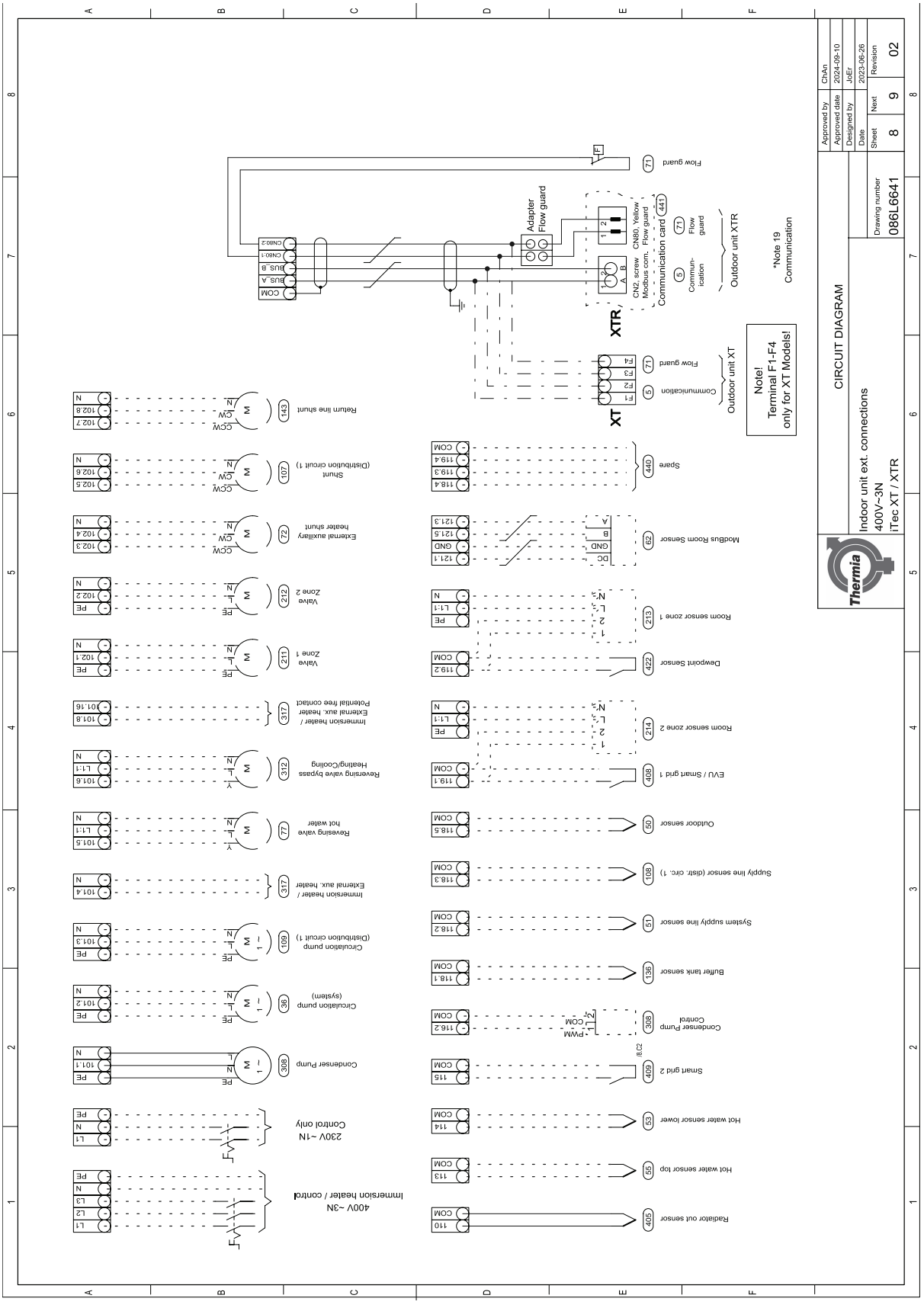

CIRCUIT DIAGRAM
Outdoor unit ext. connections
400V~3N
iTec XT / XTR
Drawing number
086L6641
Sheet
3
Next
4
Revision
02
Approved by
ChAn
Approved date
2024-09-10
Designed by
JoEr
Date
2023-06-26
Communication card (441)
CN2, screw
CN80, Yellow
Modbus com.
Flow guard
Adapter
Flow guard
XTR
XT
Note!
Terminal F1-F4
only for XT Models!
COM
CN60:2
CN60:1
BUS_B
BUS_A
(105)
(71)
Commun-ication
Flow guard
Indoor unit
PE
L
N
230V~1N
1-Phase unit
L1
L2
L3
400V~3N
3-Phase unit

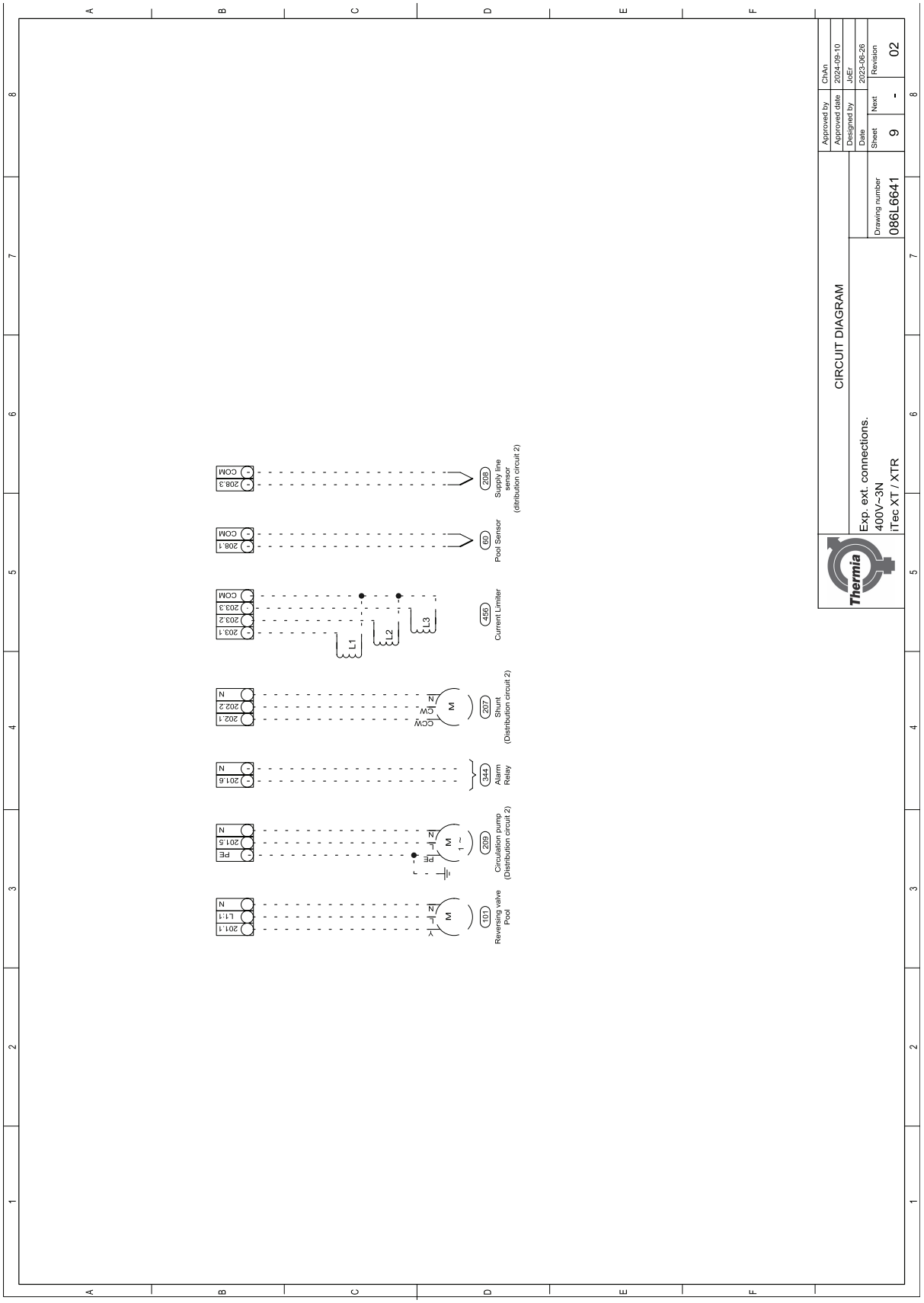

CIRCUIT DIAGRAM
Immersion heater connection
400V~3N
iTec XT / XTR
Drawing number
086L6641
Sheet
4
Next
5
Revision
02
Approved by
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Approved date
2024-09-10
Designed by
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Date
2023-06-26
E1
2L2
2L1
L2
L1
6kW
6kW
6kW2
6kW2
3kW
3kW
6kW
6kW
3kW
(317)
Immersion heater 15kW
T1
(340)
X1
/5.E1
/5.E1
/5.E1
400V~3N
Immersion heater / Control


CIRCUIT DIAGRAM
Power Connections indoor unit
400V~3N
iTec XT / XTR
Drawing number
086L6641
Sheet
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Next
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Revision
02
Approved by
ChAn
Approved date
2024-09-10
Designed by
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Date
2023-06-26
230VAC
E1
X2
F2
230V ~1N
Control Only
Circulation pump EQ
Condenser Pump
Circulation pump (system)
Circulation pump (Distribution circuit 1)
Immersion heater / External aux. heater
Reversing valve hot water
Reversing valve bypass Heating/Cooling
Immersion heater / External aux. heater Potential free contact
Valve Zone 1
Valve Zone 2
External auxiliary heater shunt
Shunt (Distribution circuit 1)
Return line shunt


CIRCUIT DIAGRAM
I/O connections indoor unit
400V~3N
iTec XT / XTR
Drawing number
086L6641
Sheet
6
Next
7
Revision
02
Approved by
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Approved date
2024-09-10
Designed by
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Date
2023-06-26
Temp sensors NTC22 (Outdoor NTC150)
Modbus
Display
ModBus Room Sensor
Flow guard
Outdoor unit communication
Spare
Room sensor zone 1
Dewpoint Sensor
Room sensor zone 2
EVU / Smart grid 1
Outdoor sensor
Spare
Supply line sensor (distr. circ. 1)
System supply line sensor
Buffer tank sensor
Circulation pump EQ Control
Condenser Pump Control
Smart grid 2
Hot water sensor lower
Hot water sensor top
Volume tank EQ
Radiator in sensor EQ
Radiator out sensor
X2
E1

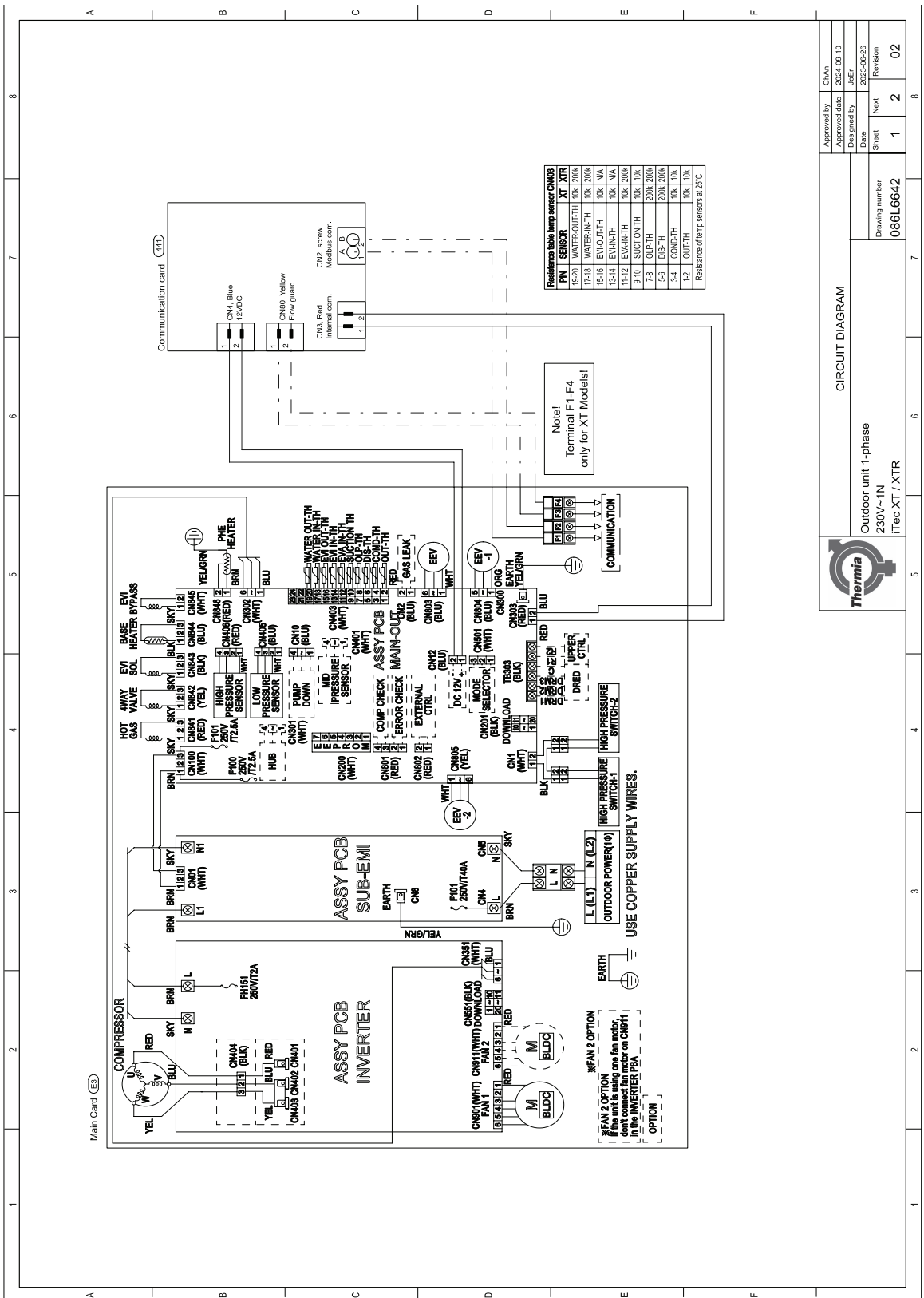

CIRCUIT DIAGRAM
Expansion card connections
400V~3N
iTec XT / XTR
Drawing number
086L6641
Sheet 7
Next 8
Revision 02
Approved by ChAn
Approved date 2024-09-10
Designed by JoEr
Date 2023-06-26
E2
X3
230VAC
RJ45
Bus
/6.C8
Pool Sensor
Supply line sensor (distribution circuit 2)
Current Limiter
Shunt (Distribution circuit 2)
Alarm Relay
Circulation pump (Distribution circuit 2)
Reversing valve Pool
/5.D8
/5.D8
/5.D8

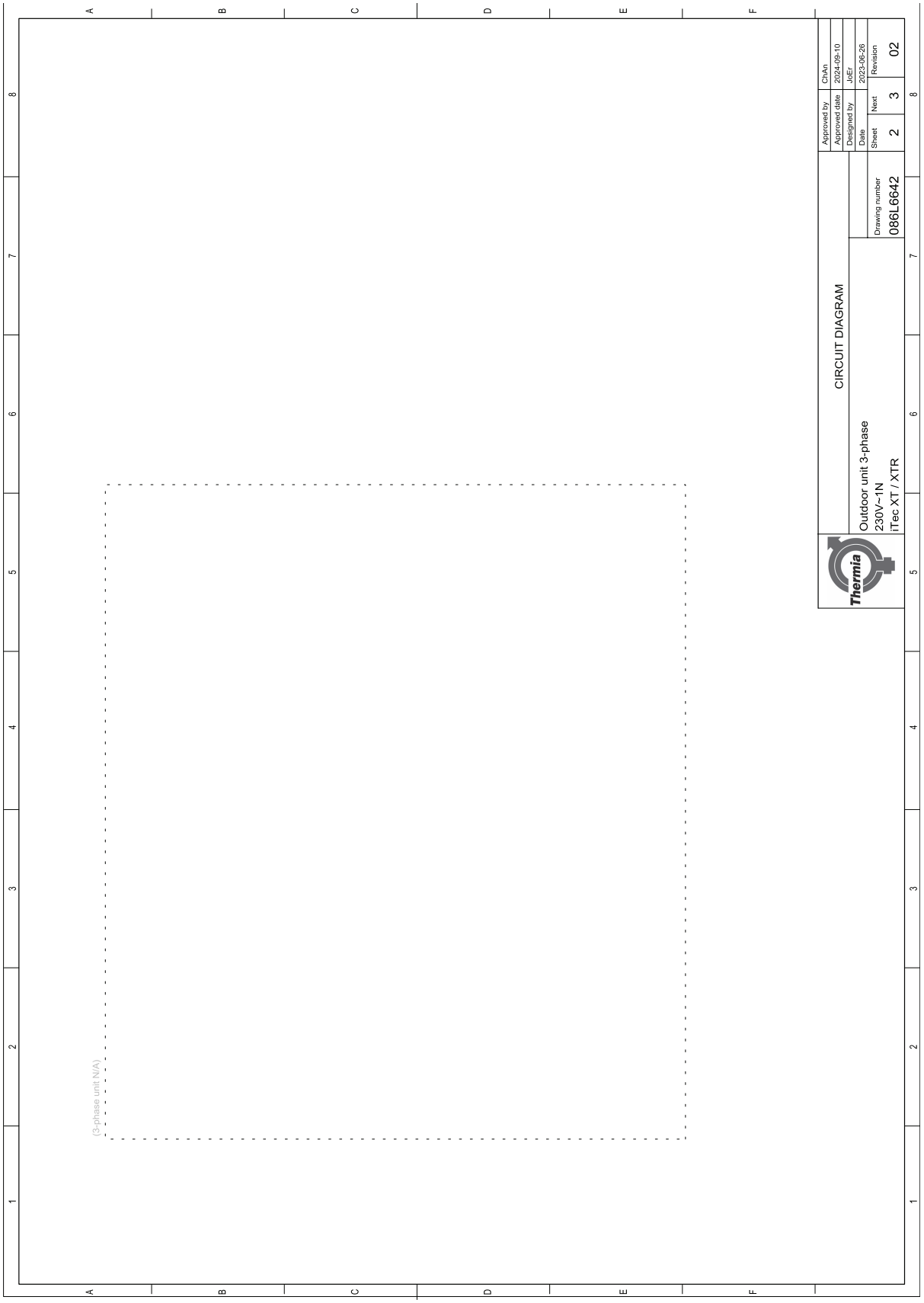

CIRCUIT DIAGRAM
Indoor unit ext. connections
400V~3N
iTec XT / XTR
Drawing number 086L6641
Sheet 8 9
Revision 02
Approved by ChAn
Approved date 2024-09-10
Designed by JoEr
Date 2023-06-26
Note! Terminal F1-F4 only for XT Models!
*Note 19 Communication
Outdoor unit XTR
Outdoor unit XT
Communication card
Flow guard
Adapter Flow guard
CN2, screw Modbus com.
CN80, Yellow Flow guard
Communication
Flow guard
Spare
ModBus Room Sensor
Room sensor zone 1
Dewpoint Sensor
Room sensor zone 2
EVU / Smart grid 1
Outdoor sensor
Supply line sensor (distr. circ. 1)
System supply line sensor
Buffer tank sensor
Condenser Pump Control
Smart grid 2
Hot water sensor lower
Hot water sensor top
Radiator out sensor
Return line shunt
Shunt (Distribution circuit 1)
External auxiliary heater shunt
Valve Zone 2
Valve Zone 1
Immersion heater / External aux. heater Potential free contact
Reversing valve bypass Heating/Cooling
Reversing valve hot water
Immersion heater / External aux. heater
Circulation pump (Distribution circuit 1)
Circulation pump (system)
Condenser Pump
230V ~1N Control only
400V ~3N Immersion heater / control

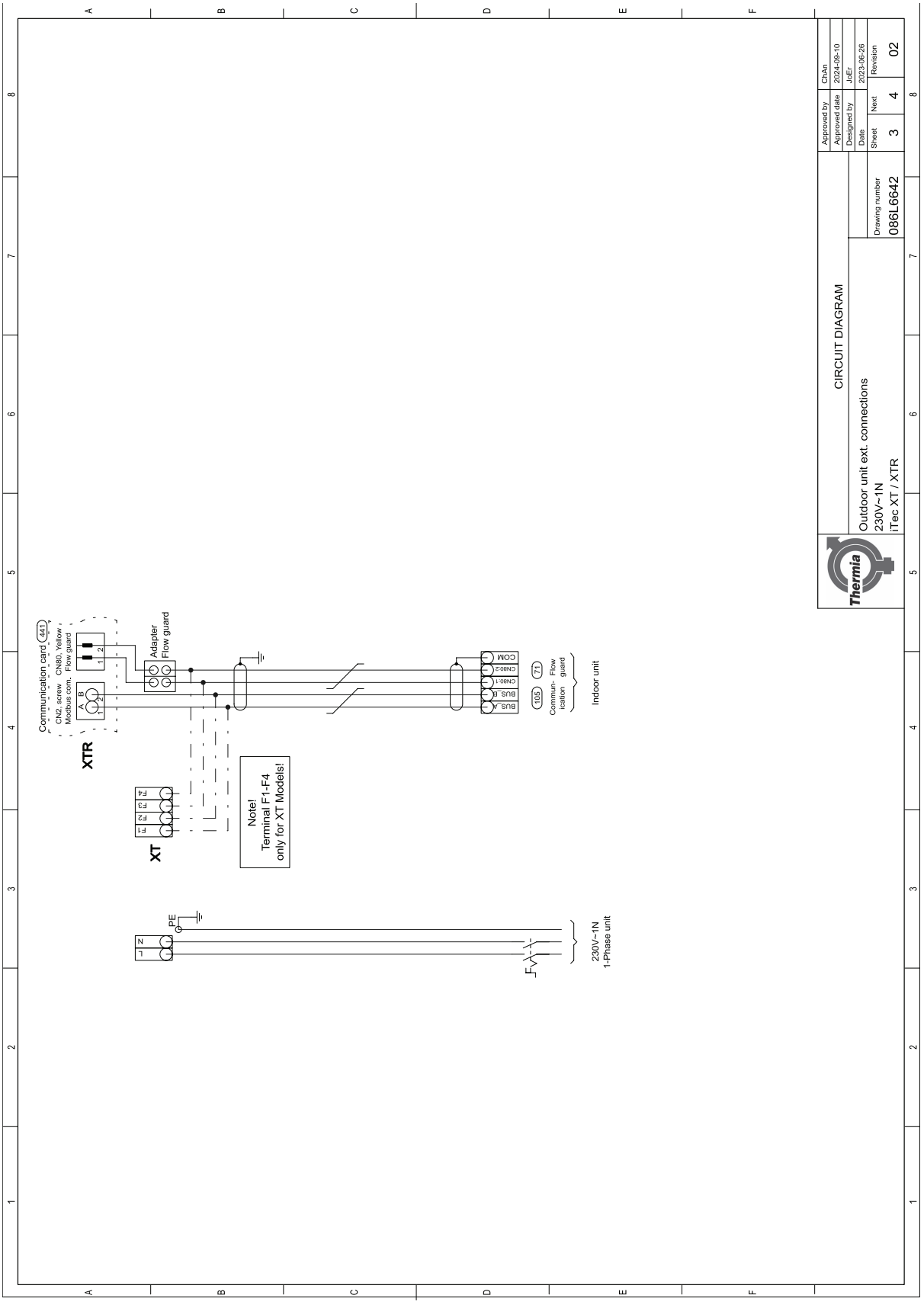

CIRCUIT DIAGRAM
Exp. ext. connections.
400V~3N
iTec XT / XTR
Drawing number
086L6641
Sheet
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Next
-
Revision
02
Approved by
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Approved date
2024-09-10
Designed by
JoEr
Date
2023-06-26
Supply line sensor (distribution circuit 2)
208
Pool Sensor
60
Current Limiter
456
Shunt (Distribution circuit 2)
207
Alarm Relay
344
Circulation pump (Distribution circuit 2)
209
Reversing valve Pool
101
L1
L2
L3
COM
N
PE
GCW
Y

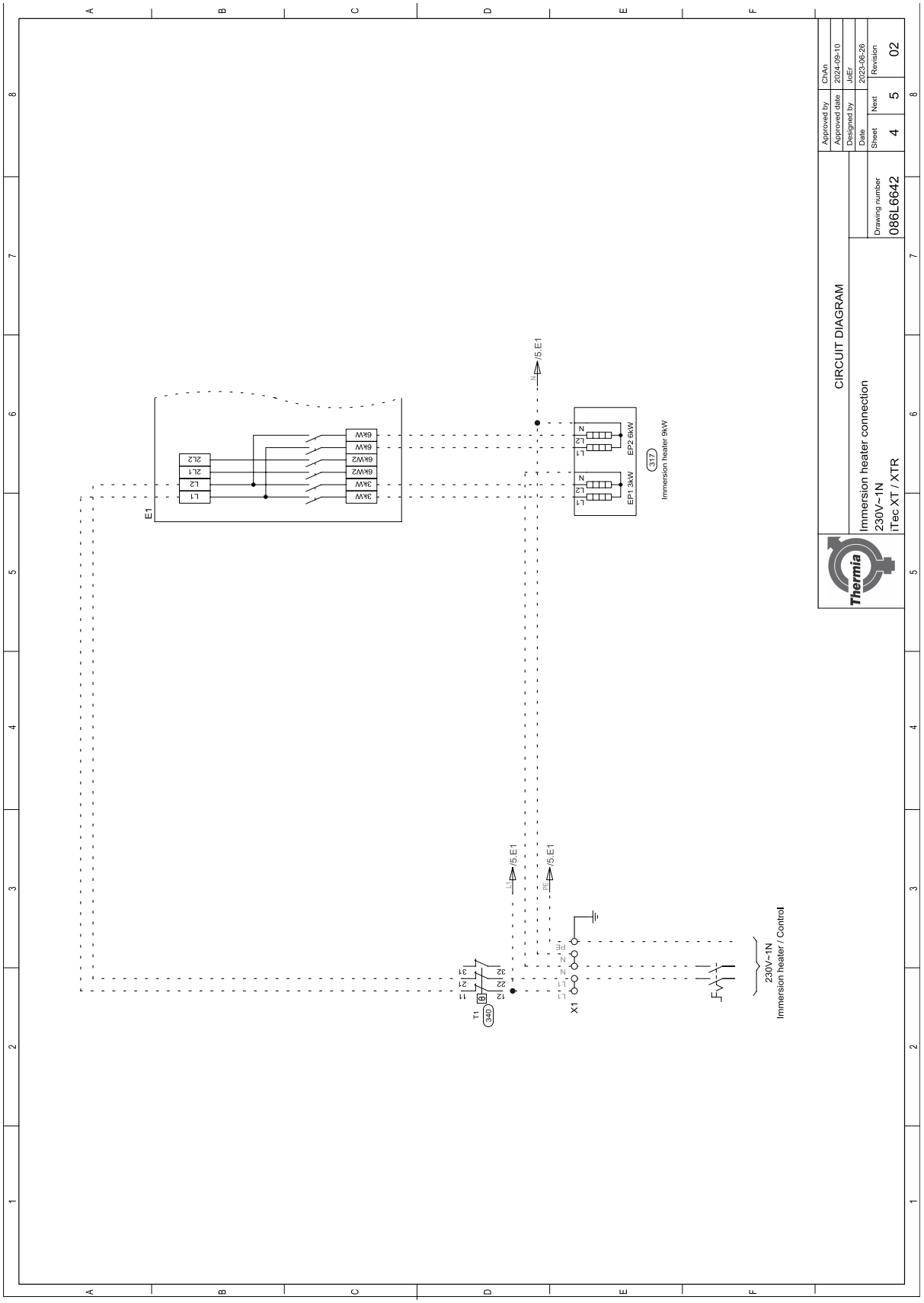
3 iTec XT/iTec XTR 230V~1N

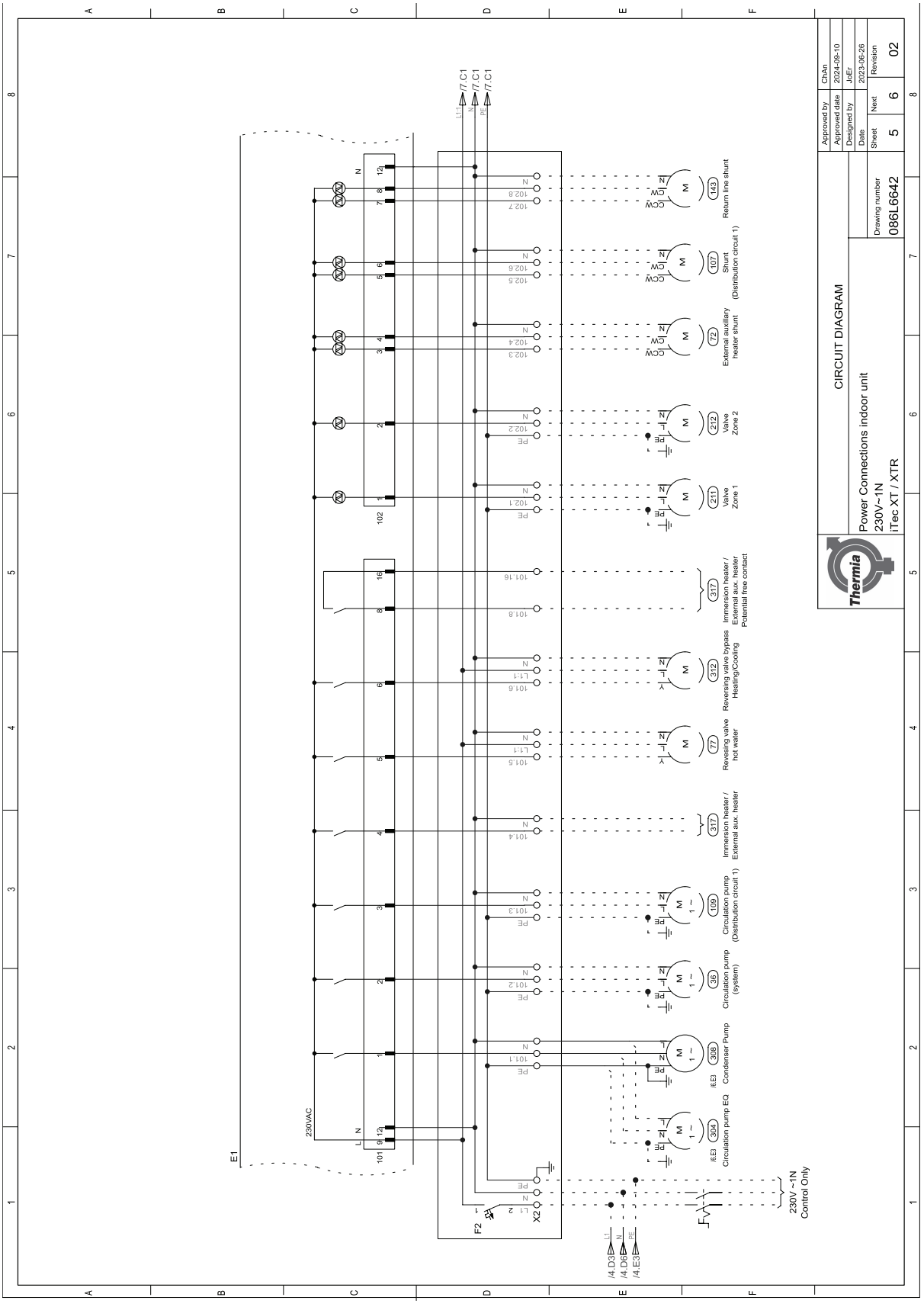
3.1 iTec XT/iTec XTR 230V~1N

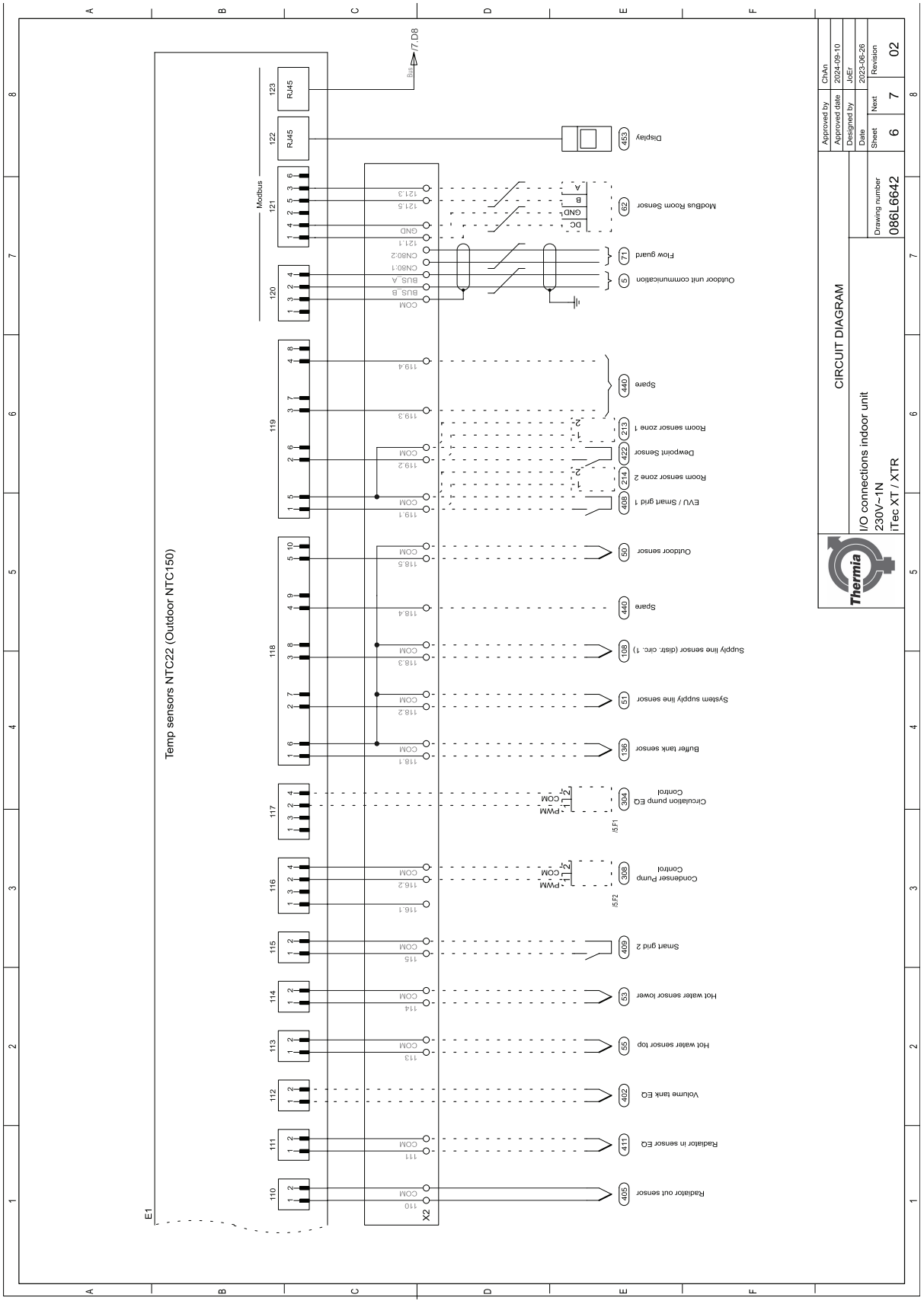


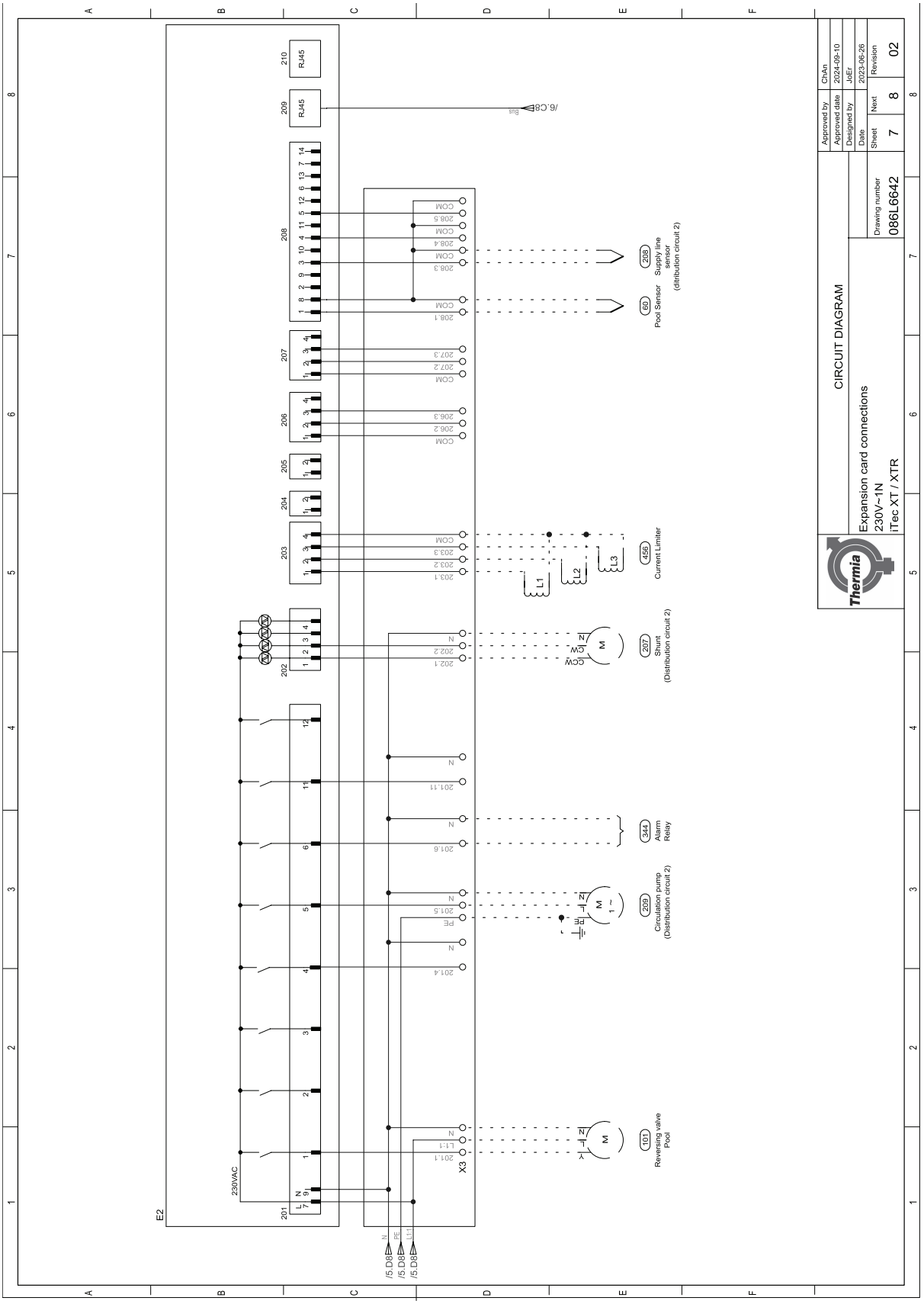

CIRCUIT DIAGRAM
Outdoor unit 3-phase
230V~1N
iTec XT / XTR
Drawing number
086L6642
Sheet
2
Next
3
Revision
02
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Approved date
2024-09-10
Designed by
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Date
2023-06-26
(3-phase unit N/A)

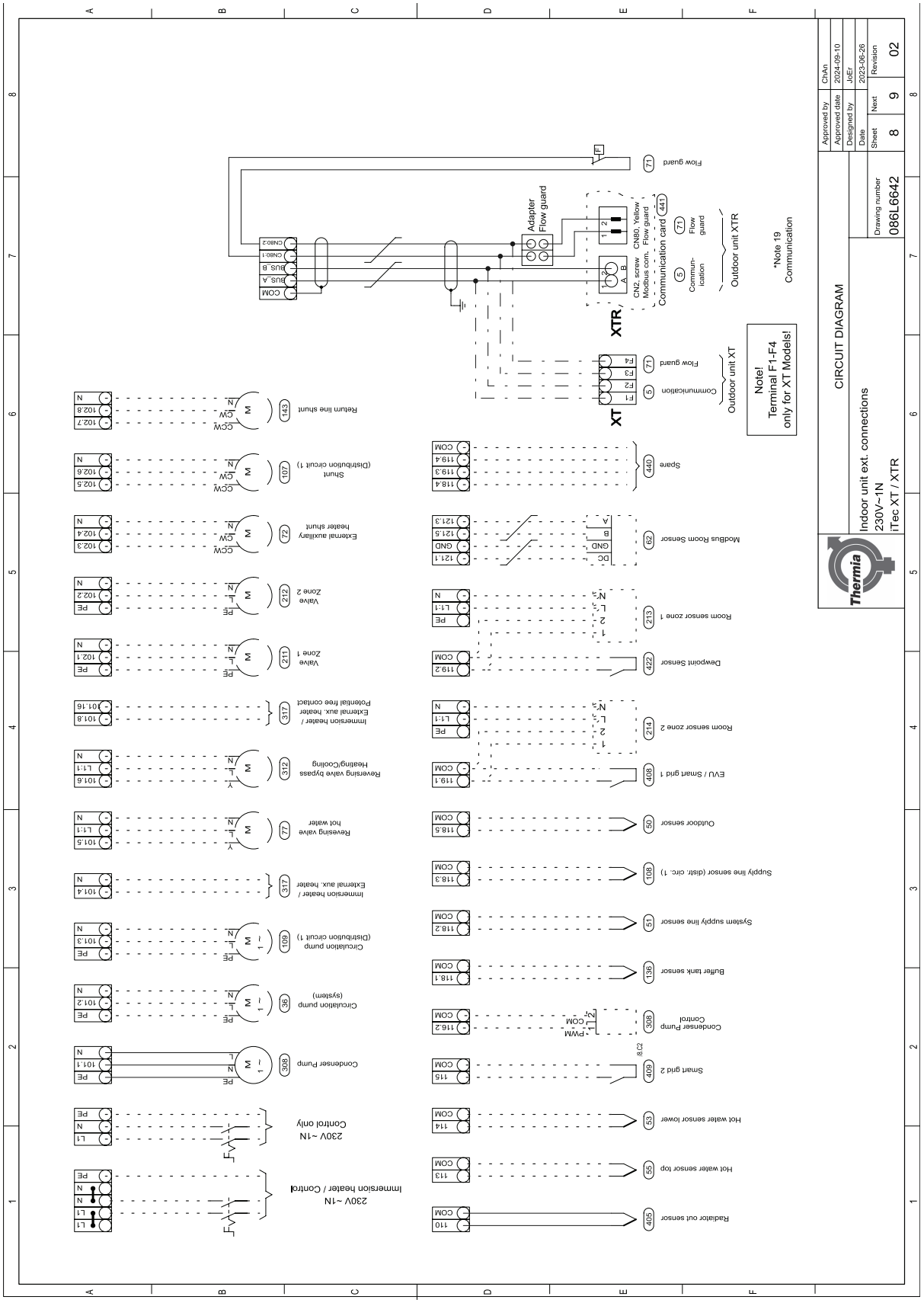

CIRCUIT DIAGRAM
Outdoor unit ext. connections
230V~1N
iTec XT / XTR
Drawing number
086L6642
Sheet
3
Next
4
Revision
02
Approved by
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Approved date
2024-09-10
Designed by
JoEr
Date
2023-06-26
Communication card (441)
CN2, screw
Modbus com.
CN80, Yellow
Flow guard
Adapter
Flow guard
XTR
XT
F1
F2
F3
F4
Note!
Terminal F1-F4
only for XT Models!
COM
CN80-2
CN80-1
BUS_B
BUS_A
(105)
(71)
Commun-
ication
Flow
guard
Indoor unit
PE
L
N
230V~1N
1-Phase unit

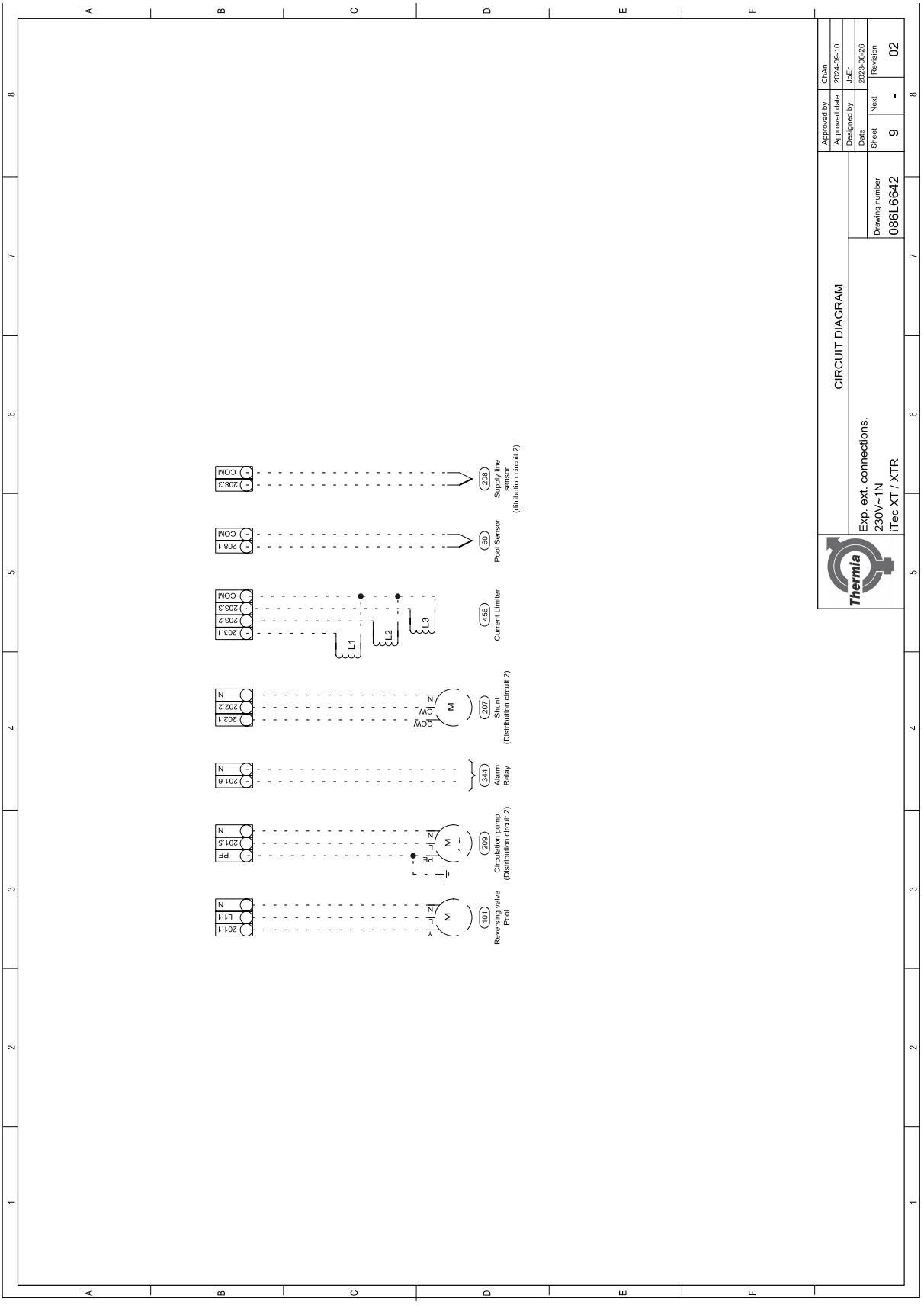

CIRCUIT DIAGRAM
Immersion heater connection
230V~1N
iTec XT / XTR
Drawing number
086L6642
Sheet
4
Next
5
Revision
02
Approved by
ChAn
Approved date
2024-09-10
Designed by
JoEr
Date
2023-06-26
E1
6kW
6kW2
3kW
2L1
L1
L2
EP2 6kW
EP1 3kW
317
Immersion heater 9kW
/5.E1
T1
340
X1
230V~1N
Immersion heater / Control


CIRCUIT DIAGRAM
Power Connections indoor unit
230V~1N
iTec XT / XTR
Drawing number
086L6642
Sheet
5
Next
6
Revision
02
Approved by
ChAn
Approved date
2024-09-10
Designed by
JoEr
Date
2023-06-26
230VAC
E1
X2
F2
Circulation pump EQ
Condenser Pump
Circulation pump (system)
Circulation pump (Distribution circuit 1)
Immersion heater / External aux. heater
Reversing valve hot water
Reversing valve bypass Heating/Cooling
Immersion heater / External aux. heater Potential free contact
Valve Zone 1
Valve Zone 2
External auxiliary heater shunt
Shunt (Distribution circuit 1)
Return line shunt
230V ~1N Control Only


CIRCUIT DIAGRAM
I/O connections indoor unit
230V~1N
iTec XT / XTR
Drawing number 086L6642
Sheet 6
Next 7
Revision 02
Approved by ChAn
Approved date 2024-09-10
Designed by JoEr
Date 2023-06-26
Temp sensors NTC22 (Outdoor NTC150)
Modbus
Display
ModBus Room Sensor
Flow guard
Outdoor unit communication
Spare
Room sensor zone 1
Dewpoint Sensor
Room sensor zone 2
EVU / Smart grid 1
Outdoor sensor
Supply line sensor (dist. circ. 1)
System supply line sensor
Buffer tank sensor
Circulation pump EQ Control
Condenser Pump Control
Smart grid 2
Hot water sensor lower
Hot water sensor top
Volume tank EQ
Radiator in sensor EQ
Radiator out sensor
X2
E1

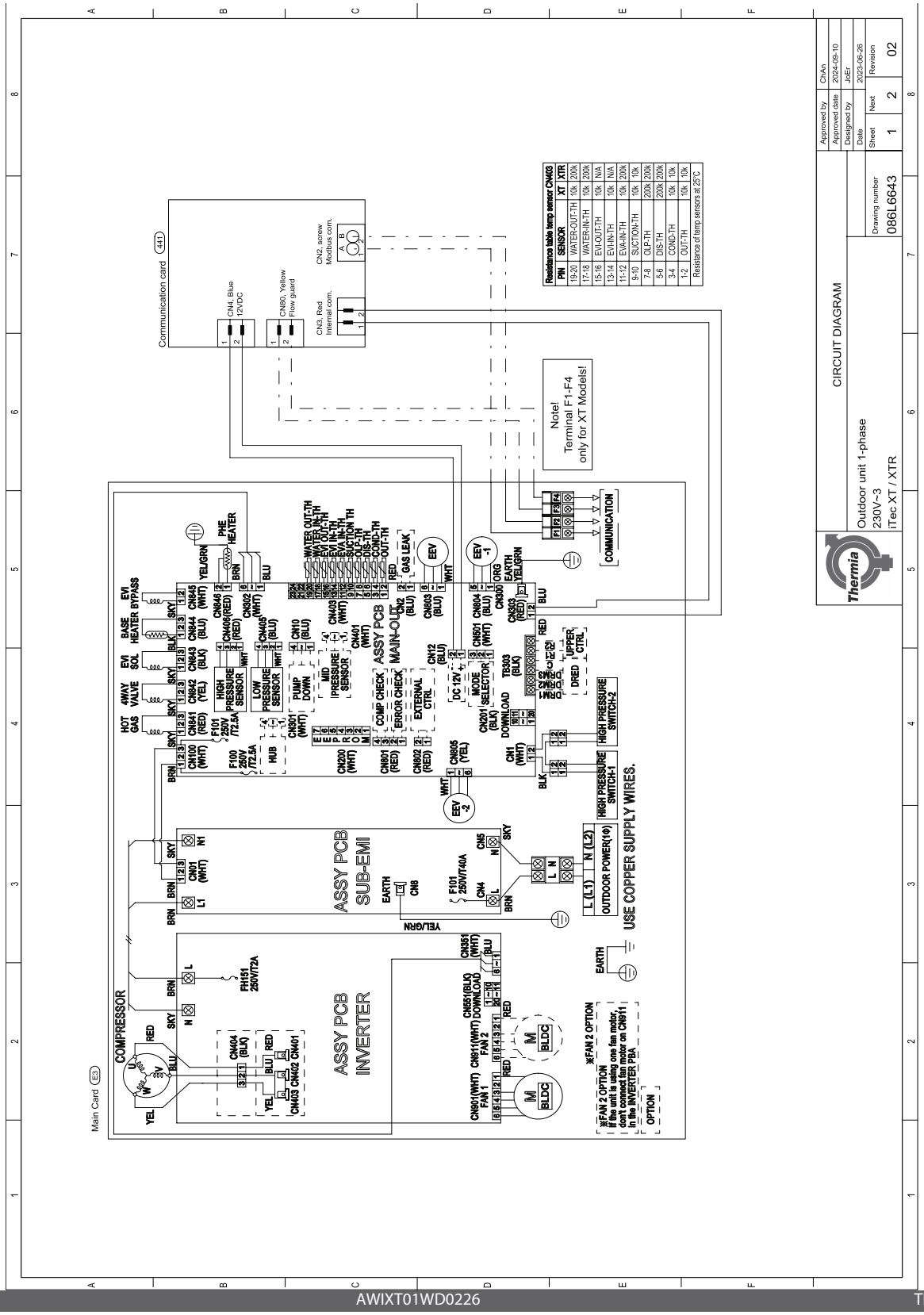

CIRCUIT DIAGRAM
Expansion card connections
230V~1N
iTec XT / XTR
Drawing number
086L6642
Sheet
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Revision
02
Approved by
ChAn
Approved date
2024-09-10
Designed by
JoEr
Date
2023-06-26
E2
X3
230VAC
Pool Sensor
Supply line sensor (distribution circuit 2)
Current Limiter
Shunt (Distribution circuit 2)
Alarm Relay
Circulation pump (Distribution circuit 2)
Reversing valve Pool

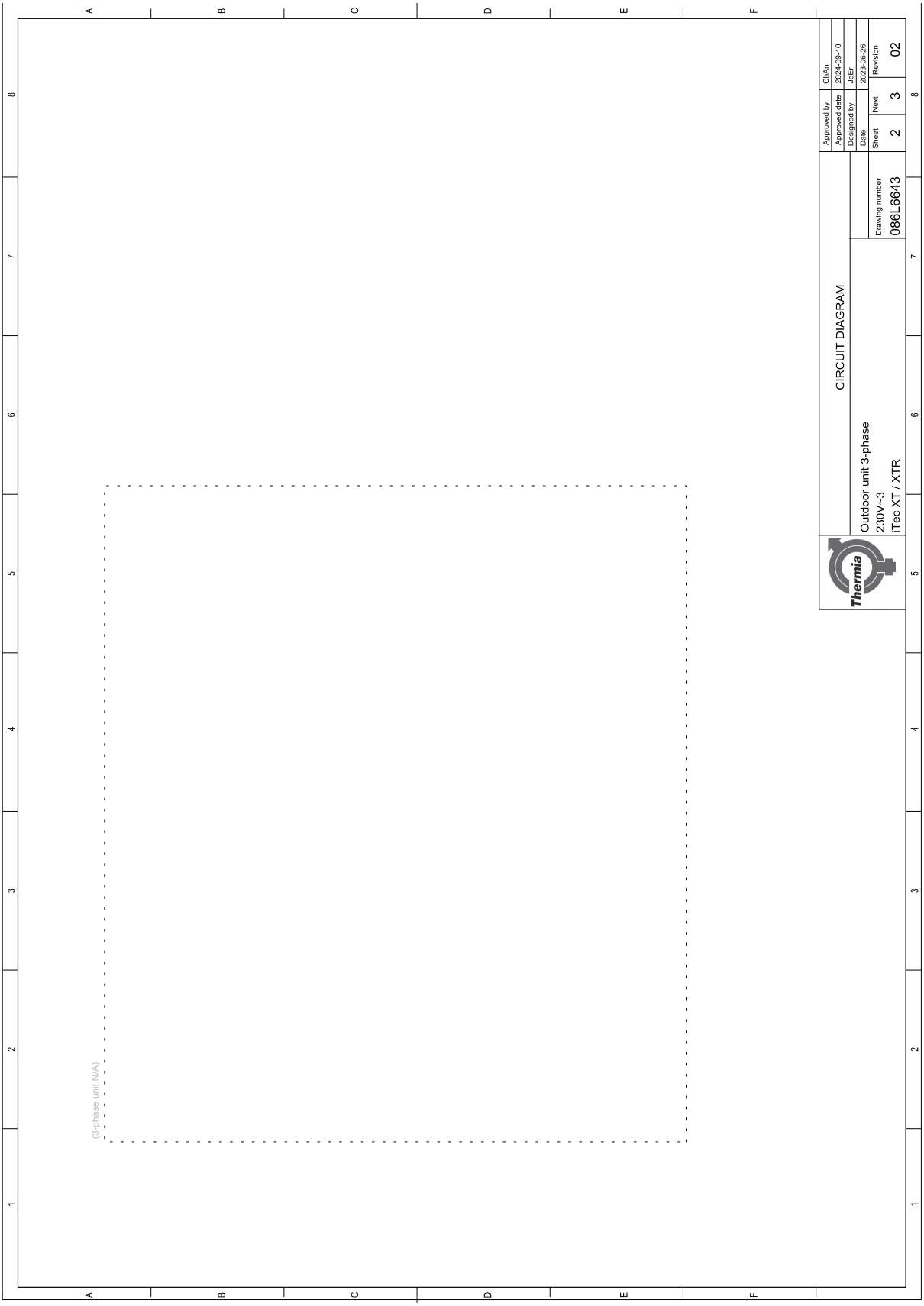

CIRCUIT DIAGRAM
Indoor unit ext. connections
230V~1N
iTec XT / XTR
Drawing number 086L6642
Sheet 8
Next 9
Revision 02
Approved by ChAn
Approved date 2024-09-10
Designed by JoEr
Date 2023-06-26
Thermia
Outdoor unit XT
Outdoor unit XTR
Communication card
Adapter Flow guard
Flow guard
Communication
CN2, screw
CN80, Yellow
Modbus com.
Flow guard
*Note 19
Communication
Note!
Terminal F1-F4
only for XT Models!
Hot water sensor lower
Hot water sensor top
Radiator out sensor
Outdoor sensor
Supply line sensor (distr. circ. 1)
System supply line sensor
Buffer tank sensor
Condenser Pump Control
Hot water
Return line shunt
Shunt (Distribution circuit 1)
External auxiliary heater shunt
Valve Zone 2
Valve Zone 1
Immersion heater / External aux. heater Potential free contact
Reversing valve bypass Heating/Cooling
Reversing valve hot water
Immersion heater / External aux. heater
Circulation pump (Distribution circuit 1)
Circulation pump (system)
Condenser Pump
230V ~1N Control only
230V ~1N Immersion heater / Control

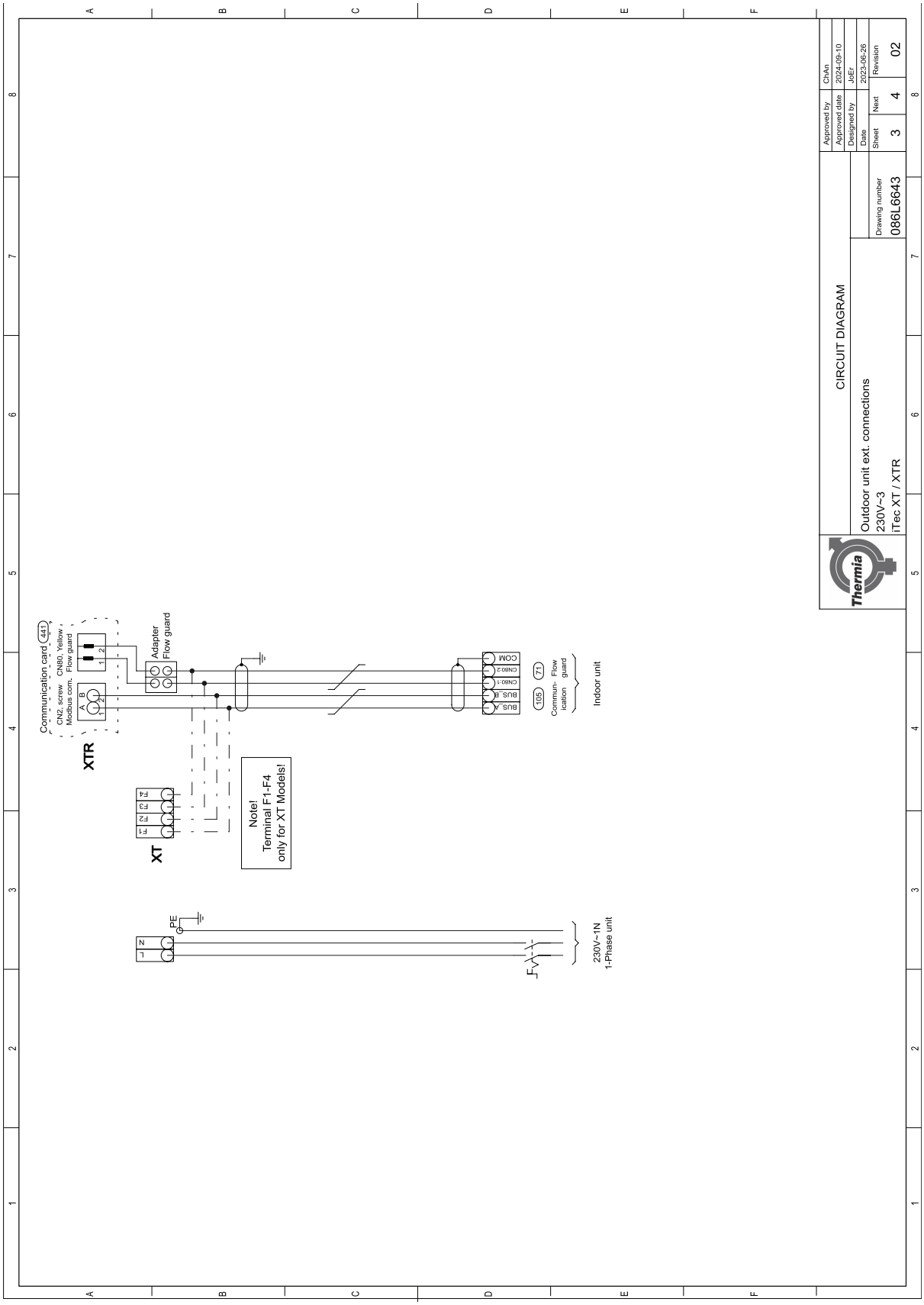

CIRCUIT DIAGRAM
Exp. ext. connections.
230V~1N
iTec XT / XTR
Drawing number
086L6642
Sheet
9
Next
-
Revision
02
Approved by
ChAn
Approved date
2024-09-10
Designed by
JoEr
Date
2023-06-26
Supply line sensor (distribution circuit 2)
208
Pool Sensor
60
Current Limiter
455
Shunt (Distribution circuit 2)
207
Alarm Relay
344
Circulation pump (Distribution circuit 2)
209
Reversing valve Pool
101
COM
208.3
208.1
203.3
203.2
203.1
202.2
202.1
201.6
201.5
201.1
L1
L2
L3
GCW
PE
N

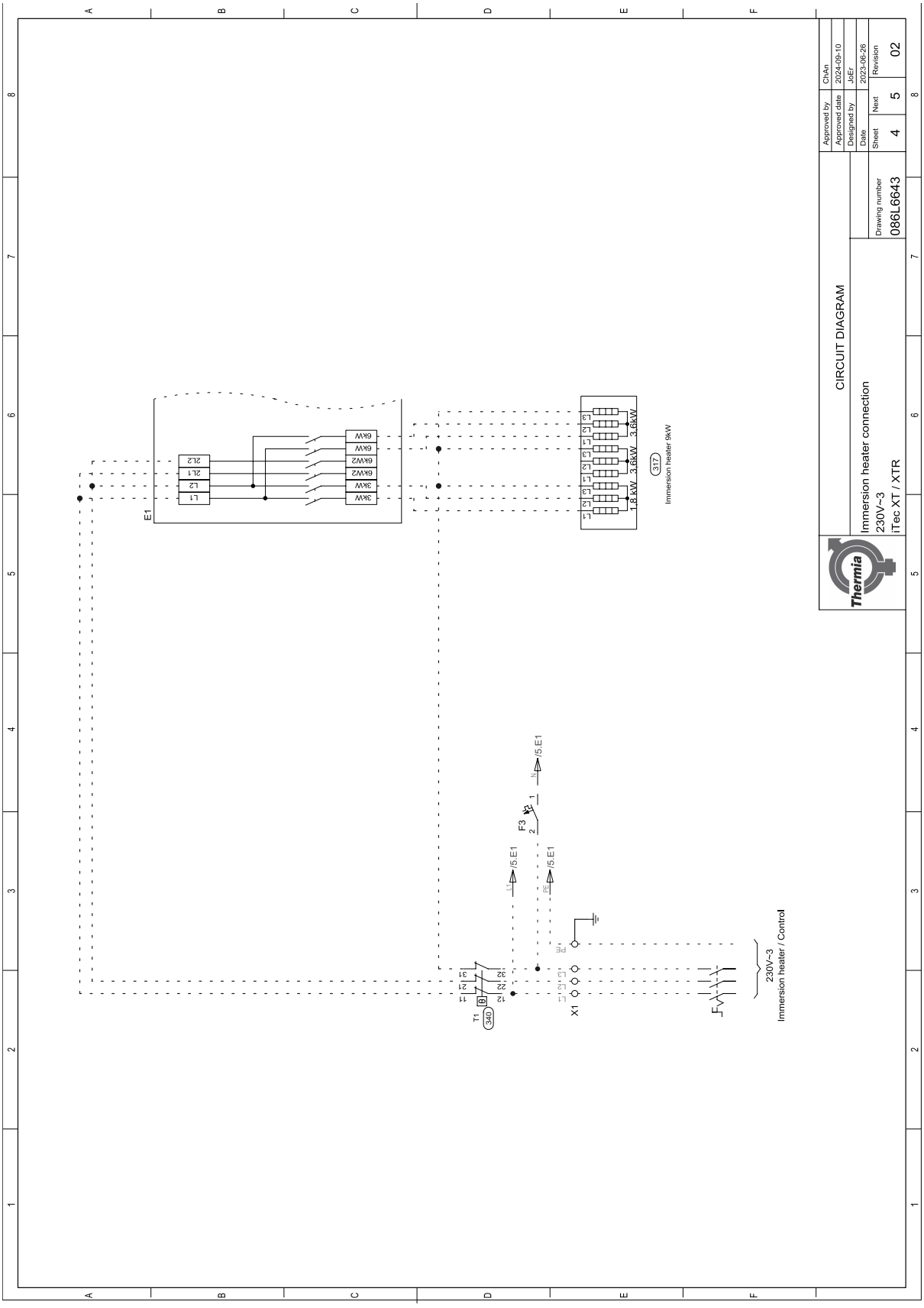
4 iTec XT/iTec XTR 230V~3

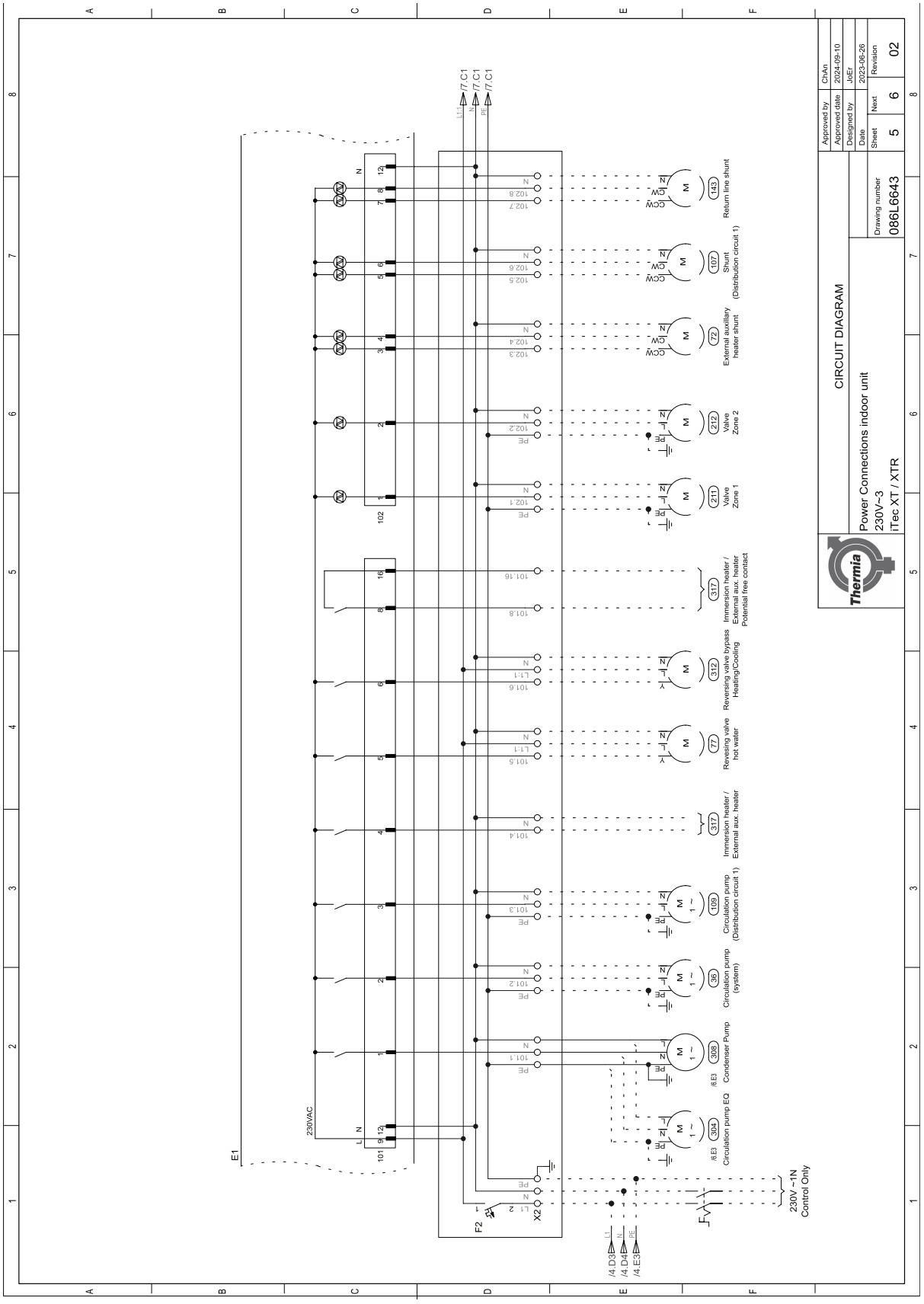
4.1 iTec XT/iTec XTR 230V~3

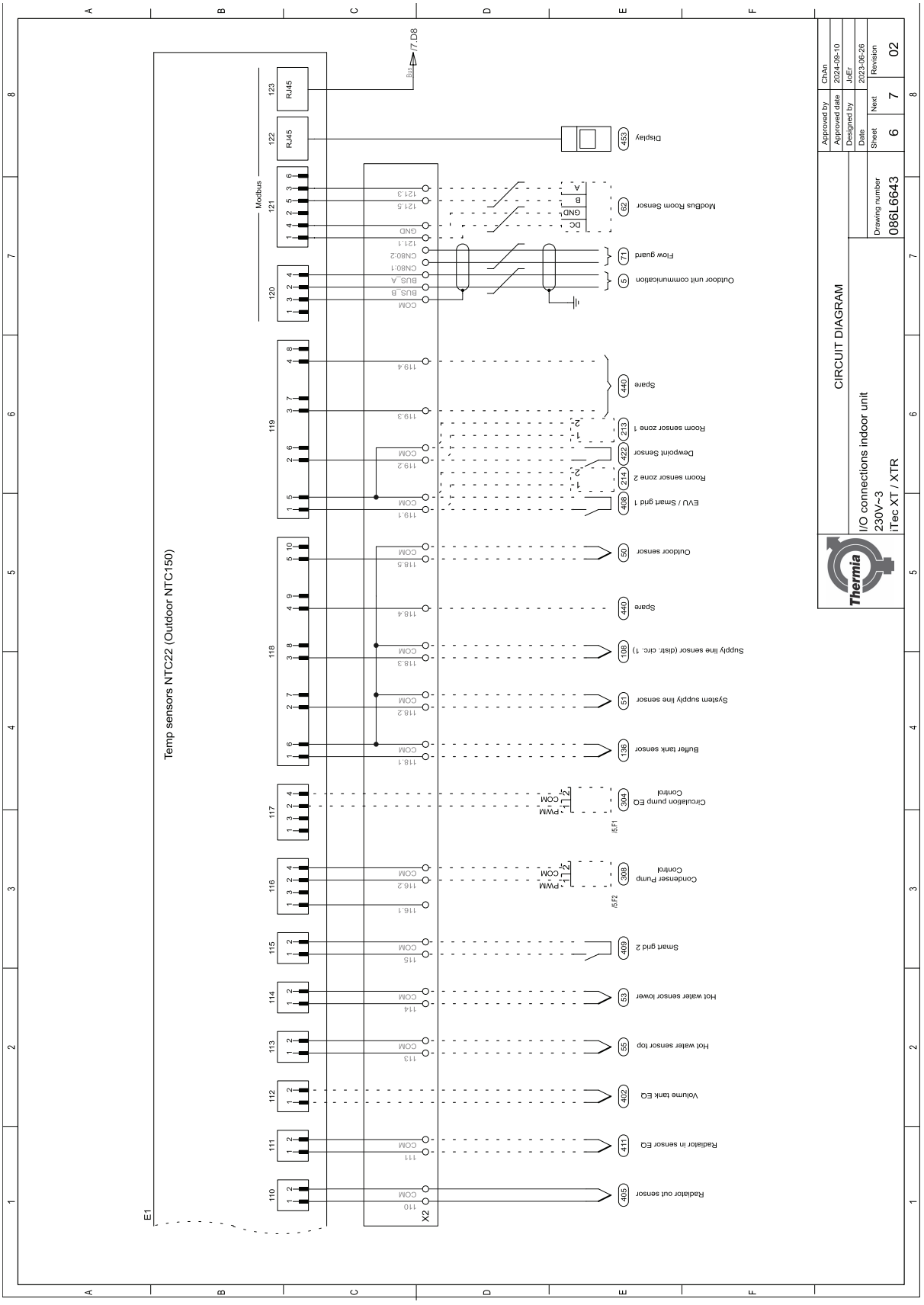


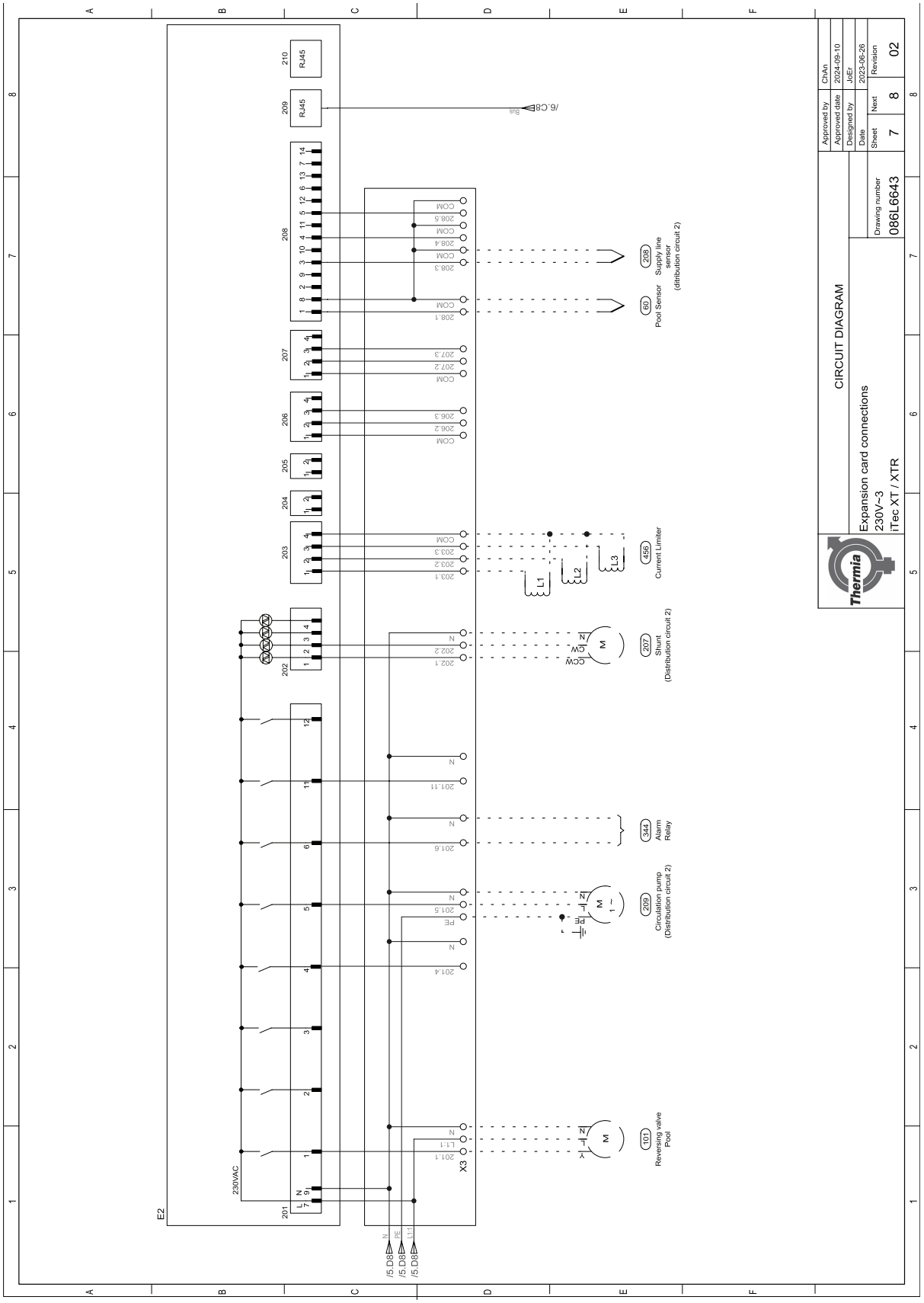

CIRCUIT DIAGRAM
Outdoor unit 3-phase
230V~3
iTec XT / XTR
Drawing number
086L6643
Sheet
2
Next
3
Revision
02
Approved by
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Designed by
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Date
2023-06-26
(3-phase unit N/A)

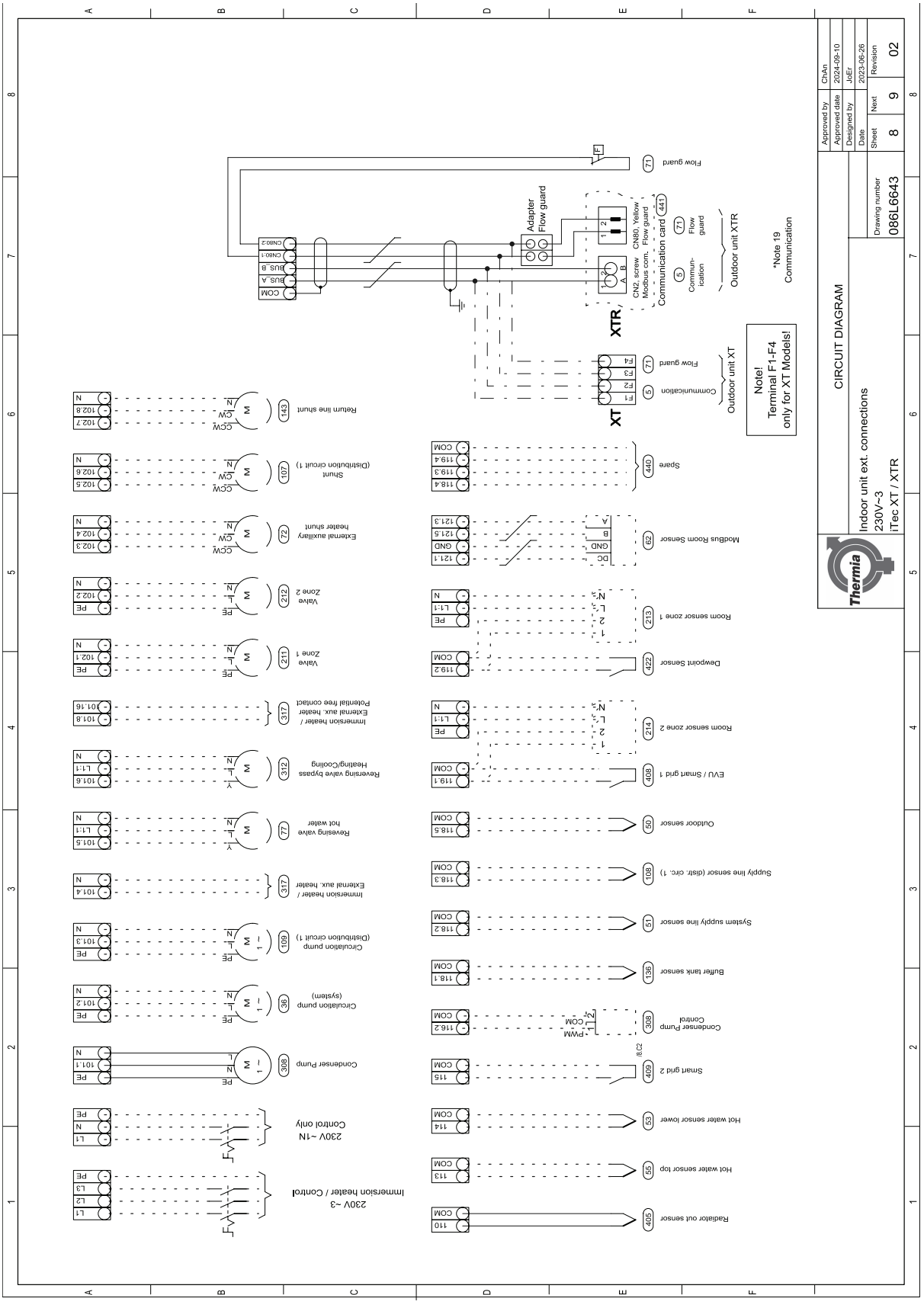

CIRCUIT DIAGRAM
Outdoor unit ext. connections
230V~3
iTec XT / XTR
Drawing number
086L6643
Sheet 3
Next 4
Revision 02
Approved by ChAn
Approved date 2024-09-10
Designed by JoEr
Date 2023-06-26
Communication card (441)
CN2, screw CN80, Yellow
Modbus com. Flow guard
Adapter Flow guard
XTR
XT
Note!
Terminal F1-F4
only for XT Models!
CN80:2
CN80:1
BUS_B
BUS_A
COM
(105)
(71)
Commun-ication
Flow guard
Indoor unit
PE
L
N
230V~1N
1-Phase unit

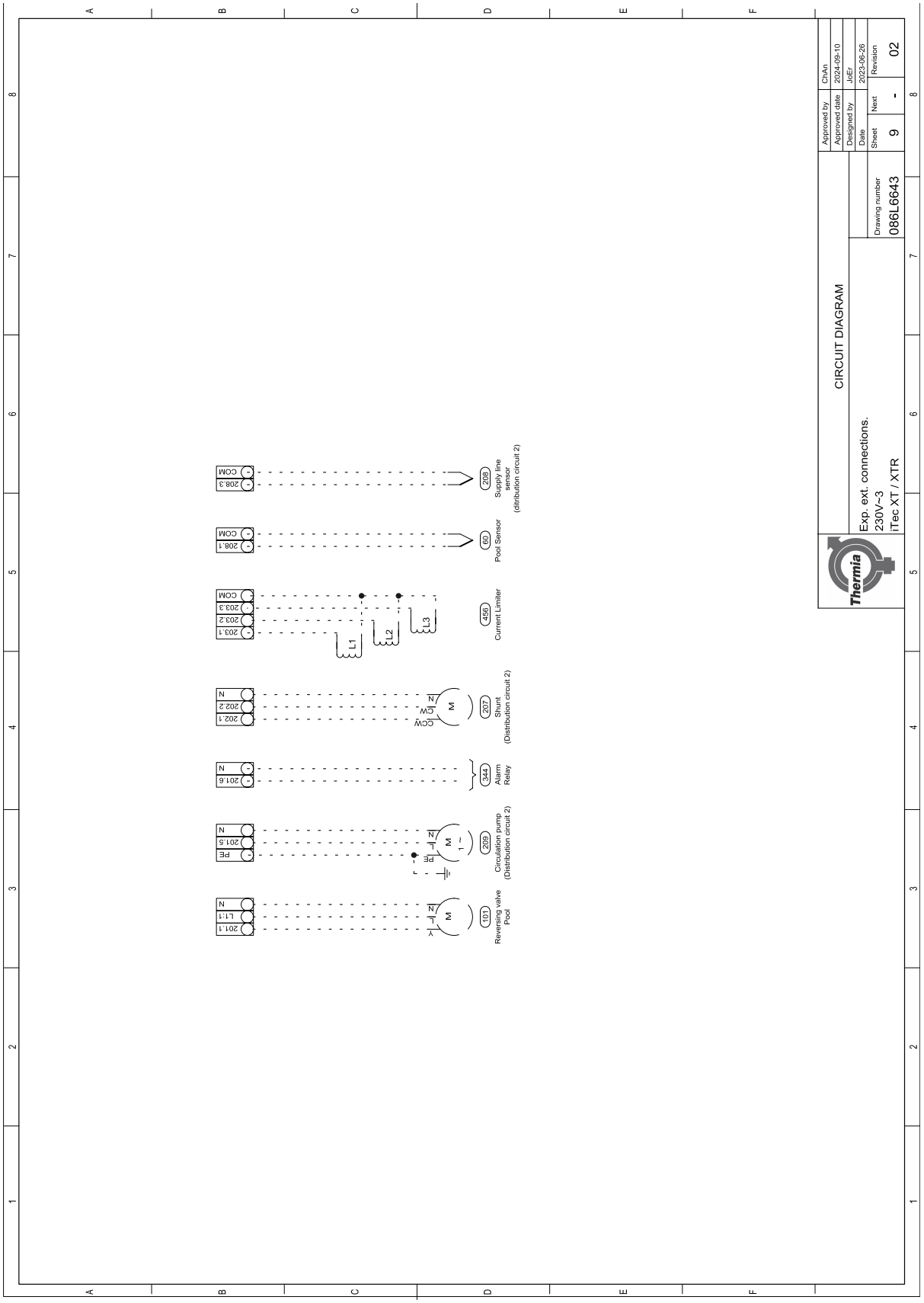

CIRCUIT DIAGRAM
Immersion heater connection
230V~3
iTec XT / XTR
Drawing number
086L6643
Sheet
4
Next
5
Revision
02
Approved by
ChAn
Approved date
2024-09-10
Designed by
JoEr
Date
2023-06-26
E1
6kW
6kW
6kW2
6kW2
3kW
3kW
L1
L2
2L1
2L2
1.8 kW
3.6kW
3.6kW
317
Immersion heater 9kW
T1
340
X1
F3
/5.E1
/5.E1
/5.E1
230V~3
Immersion heater / Control


CIRCUIT DIAGRAM
Power Connections indoor unit
230V~3
iTec XT / XTR
Drawing number
086L6643
Sheet
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Revision
02
Approved by
ChAn
Approved date
2024-09-10
Designed by
JoEr
Date
2023-06-26
230VAC
Circulation pump EQ
Condenser Pump
Circulation pump (system)
Circulation pump (Distribution circuit 1)
Immersion heater / External aux. heater
Reversing valve hot water
Reversing valve bypass Heating/Cooling
Immersion heater / External aux. heater Potential free contact
Valve Zone 1
Valve Zone 2
External auxiliary heater shunt
Shunt (Distribution circuit 1)
Return line shunt
230V ~1N Control Only


CIRCUIT DIAGRAM
I/O connections indoor unit
230V~3
iTec XT / XTR
Drawing number
086L6643
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Revision
02
Approved by
ChAn
Approved date
2024-09-10
Designed by
JoEr
Date
2023-06-26
Temp sensors NTC22 (Outdoor NTC150)
Modbus
Bus
Display
Modbus Room Sensor
Flow guard
Outdoor unit communication
Spare
Room sensor zone 1
Dewpoint Sensor
Room sensor zone 2
EVU / Smart grid 1
Outdoor sensor
Supply line sensor (distr. circ. 1)
System supply line sensor
Buffer tank sensor
Circulation pump EQ Control
Condenser Pump Control
Smart grid 2
Hot water sensor lower
Hot water sensor top
Volume tank EQ
Radiator in sensor EQ
Radiator out sensor
X2
E1


CIRCUIT DIAGRAM
Expansion card connections
230V~3
iTec XT / XTR
Drawing number
086L6643
Sheet 7
Next 8
Revision 02
Approved by ChAn
Approved date 2024-09-10
Designed by JoEr
Date 2023-06-26
Thermia
E2
X3
230VAC
Bus
/6.C8
/5.D8
Pool Sensor
Supply line sensor (distribution circuit 2)
Current Limiter
Shunt (Distribution circuit 2)
Alarm Relay
Circulation pump (Distribution circuit 2)
Reversing valve Pool
RJ45
COM
L1
L2
L3
N
PE


CIRCUIT DIAGRAM
Indoor unit ext. connections
230V~3
iTec XT / XTR
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086L6643
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Revision
02
Approved by
ChAn
Approved date
2024-09-10
Designed by
JoEr
Date
2023-06-26
Note!
Terminal F1-F4
only for XT Models!
*Note 19
Communication
Outdoor unit XTR
Outdoor unit XT
Communication card
Adapter
Flow guard
Flow guard
Communication
Immersion heater / Control
230V ~3
230V ~1N
Control only
Condenser Pump
Circulation pump (system)
Circulation pump (Distribution circuit 1)
Immersion heater / External aux. heater
Reversing valve hot water
Reversing valve bypass Heating/Cooling
Immersion heater / External aux. heater Potential free contact
Valve Zone 1
Valve Zone 2
External auxiliary heater shunt
Shunt (Distribution circuit 1)
Return line shunt
Radiator out sensor
Hot water sensor top
Hot water sensor lower
Smart grid 2
Condenser Pump Control
Buffer tank sensor
System supply line sensor
Supply line sensor (distr. circ. 1)
Outdoor sensor
EVU / Smart grid 1
Room sensor zone 2
Dewpoint Sensor
Room sensor zone 1
ModBus Room Sensor
Spare
Flow guard
Communication
Modbus com.
CN2, screw
CN80, Yellow
Flow guard
Flow guard
Communication
Modbus com.
CN2, screw
CN80, Yellow
Flow guard


CIRCUIT DIAGRAM
Exp. ext. connections.
230V~3
iTec XT / XTR
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Revision
02
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Date
2023-06-26
Supply line sensor (distribution circuit 2)
208
Pool Sensor
60
Current Limiter
456
Shunt (Distribution circuit 2)
207
Alarm Relay
344
Circulation pump (Distribution circuit 2)
209
Reversing valve Pool
101
L1
L2
L3
COM
N
PE
GCW
Y

Thermia AB
Box 950
SE 671 29 ARVIKA
Phone +46 570 81300
E-mail: info@thermia.com
Internet: www.thermia.com

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