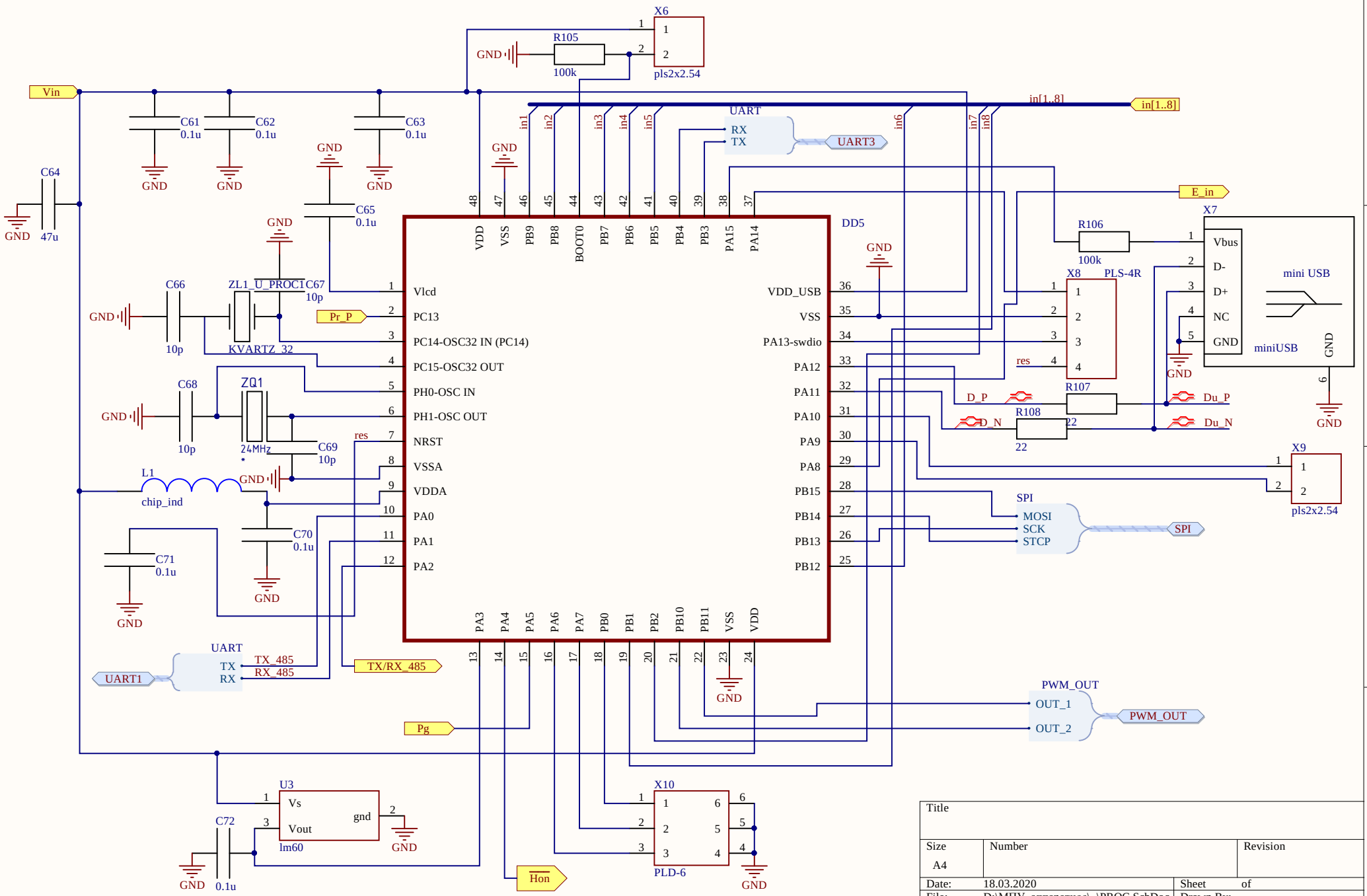
X6
R105
100k
pls2x2.54
Vin
C61 0.1u
C62 0.1u
C63 0.1u
C64
47u
C65 0.1u
C66
10p
ZL1_U_PROC1
C67 10p
KVARTZ_32
C68
10p
ZQ1
24MHz
C69 10p
L1
chip_ind
C70 0.1u
C71 0.1u
GND
UART
RX
TX
UART3
in[1..8]
DD5
VDD
VSS
PB9
PB8
BOOT0
PB7
PB6
PB5
PB4
PB3
PA15
PA14
Vlcd
PC13
PC14-OSC32 IN (PC14)
PC15-OSC32 OUT
PH0-OSC IN
PH1-OSC OUT
NRST
VSSA
VDDA
PA0
PA1
PA2
VDD_USB
VSS
PA13-swdio
PA12
PA11
PA10
PA9
PA8
PB15
PB14
PB13
PB12
PA3
PA4
PA5
PA6
PA7
PB0
PB1
PB2
PB10
PB11
VSS
VDD
Pr_P
res
TX_485
RX_485
TX/RX_485
Pg
Hon
E_in
R106
100k
X8
PLS-4R
R107
R108
22
D_P
D_N
Du_P
Du_N
X7
Vbus
D-
D+
NC
GND
mini USB
miniUSB
X9
pls2x2.54
SPI
MOSI
SCK
STCP
PWM_OUT
OUT_1
OUT_2
U3
Vs
Vout
gnd
lm60
C72
0.1u
X10
PLD-6
Title
Size
A4
Number
Revision
Date: 18.03.2020
Sheet of
File: D:\МПУ_аппаратное\..\PROC.SchDoc
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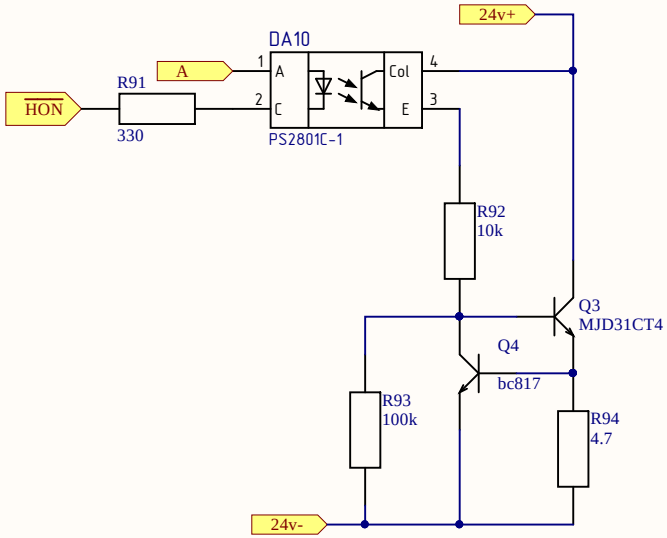

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Date: 18.03.2020		Sheet of
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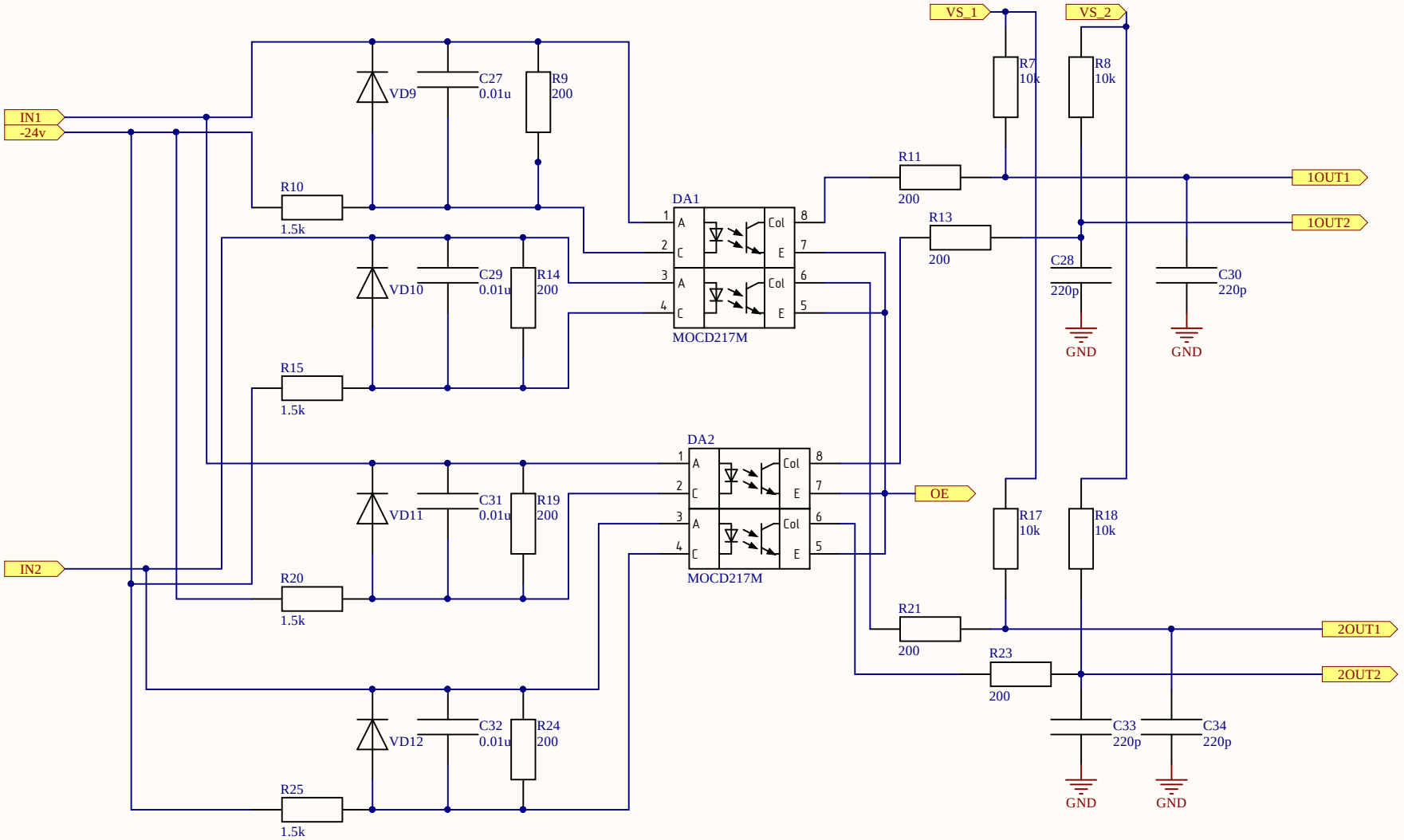

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Size A4	Number	Revision
Date: 18.03.2020		Sheet of
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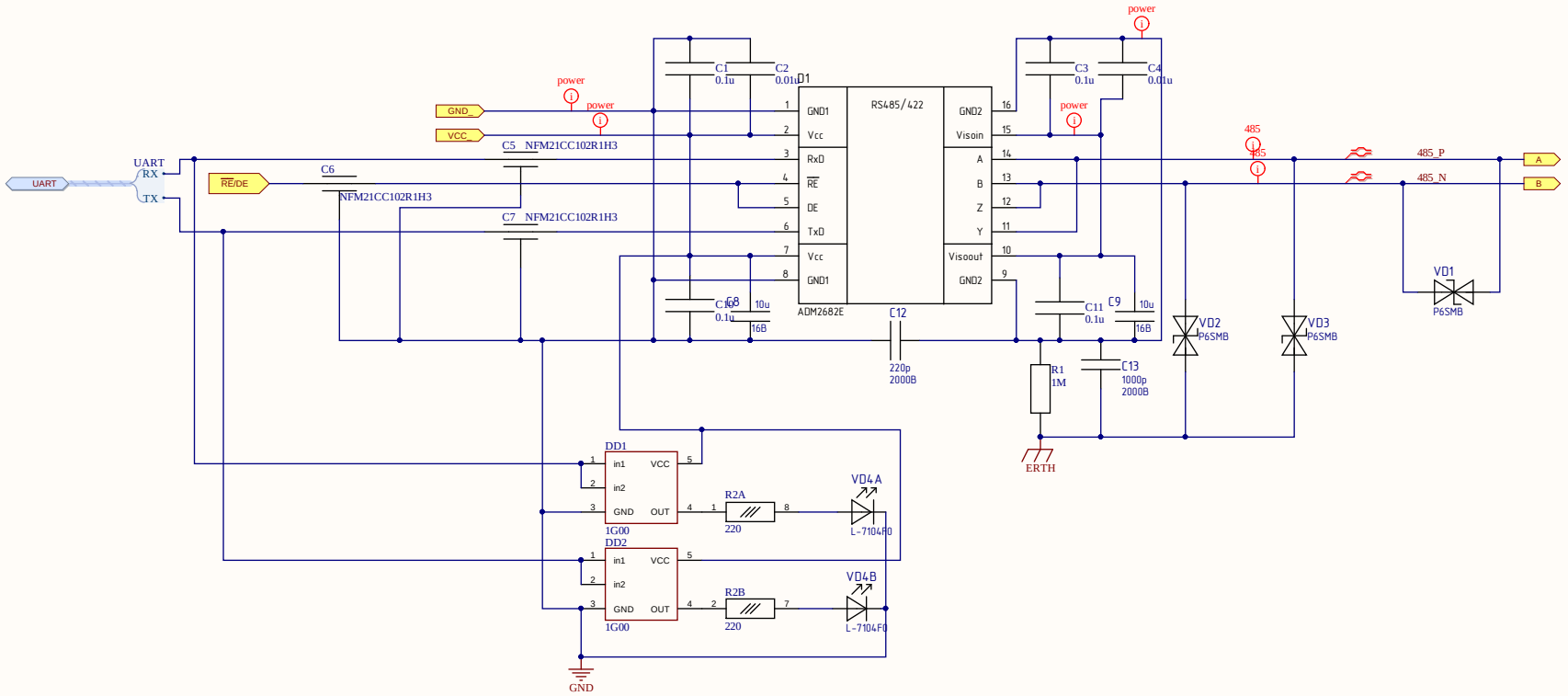
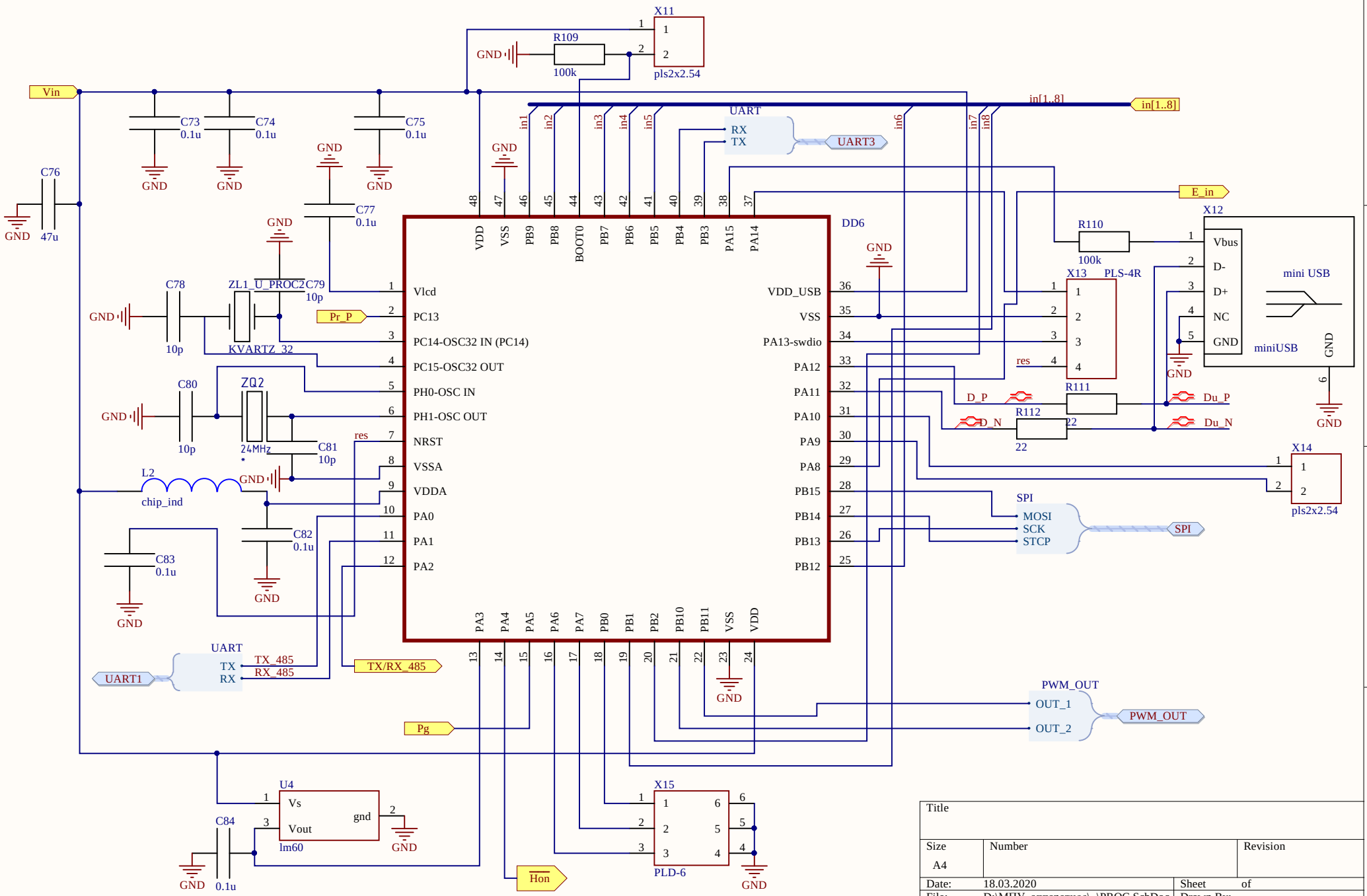


Изм.	Лист	№ докум.	Подп.	Дата	Децимальный номер	Лист
						*

Подп. и дата | Инв.№ дубл. | Взам.инв.№ | Подп.и дата | Инв.№ подл.

Формат А3


X11
R109
100k
pls2x2.54
Vin
C73 0.1u
C74 0.1u
C75 0.1u
C76
47u
C77 0.1u
C78
10p
ZL1_U_PROC2
C79 10p
KVARTZ_32
C80
10p
ZQ2
24MHz
C81 10p
L2
chip_ind
C82 0.1u
C83 0.1u
GND
UART
RX
TX
UART3
UART1
TX_485
RX_485
TX/RX_485
in[1..8]
E_in
DD6
VDD
VSS
PB9
PB8
BOOT0
PB7
PB6
PB5
PB4
PB3
PA15
PA14
Vlcd
PC13
PC14-OSC32 IN (PC14)
PC15-OSC32 OUT
PH0-OSC IN
PH1-OSC OUT
NRST
VSSA
VDDA
PA0
PA1
PA2
VDD_USB
VSS
PA13-swdio
PA12
PA11
PA10
PA9
PA8
PB15
PB14
PB13
PB12
PA3
PA4
PA5
PA6
PA7
PB0
PB1
PB2
PB10
PB11
Pr_P
Pg
res
R110
100k
X13
PLS-4R
R111
R112
22
D_P
D_N
Du_P
Du_N
X12
Vbus
D-
D+
NC
mini USB
miniUSB
X14
SPI
MOSI
SCK
STCP
PWM_OUT
OUT_1
OUT_2
U4
Vs
Vout
gnd
lm60
C84
0.1u
X15
PLD-6
Hon
Title
Size
A4
Number
Revision
Date: 18.03.2020
Sheet of
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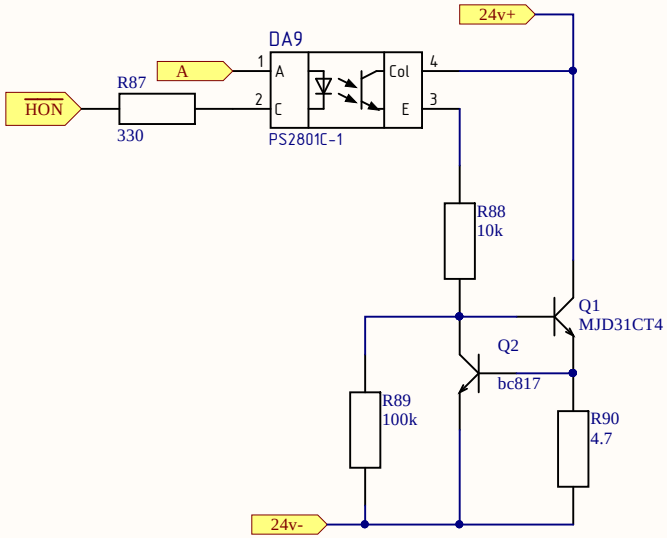

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Size A4	Number	Revision
Date: 18.03.2020		Sheet of
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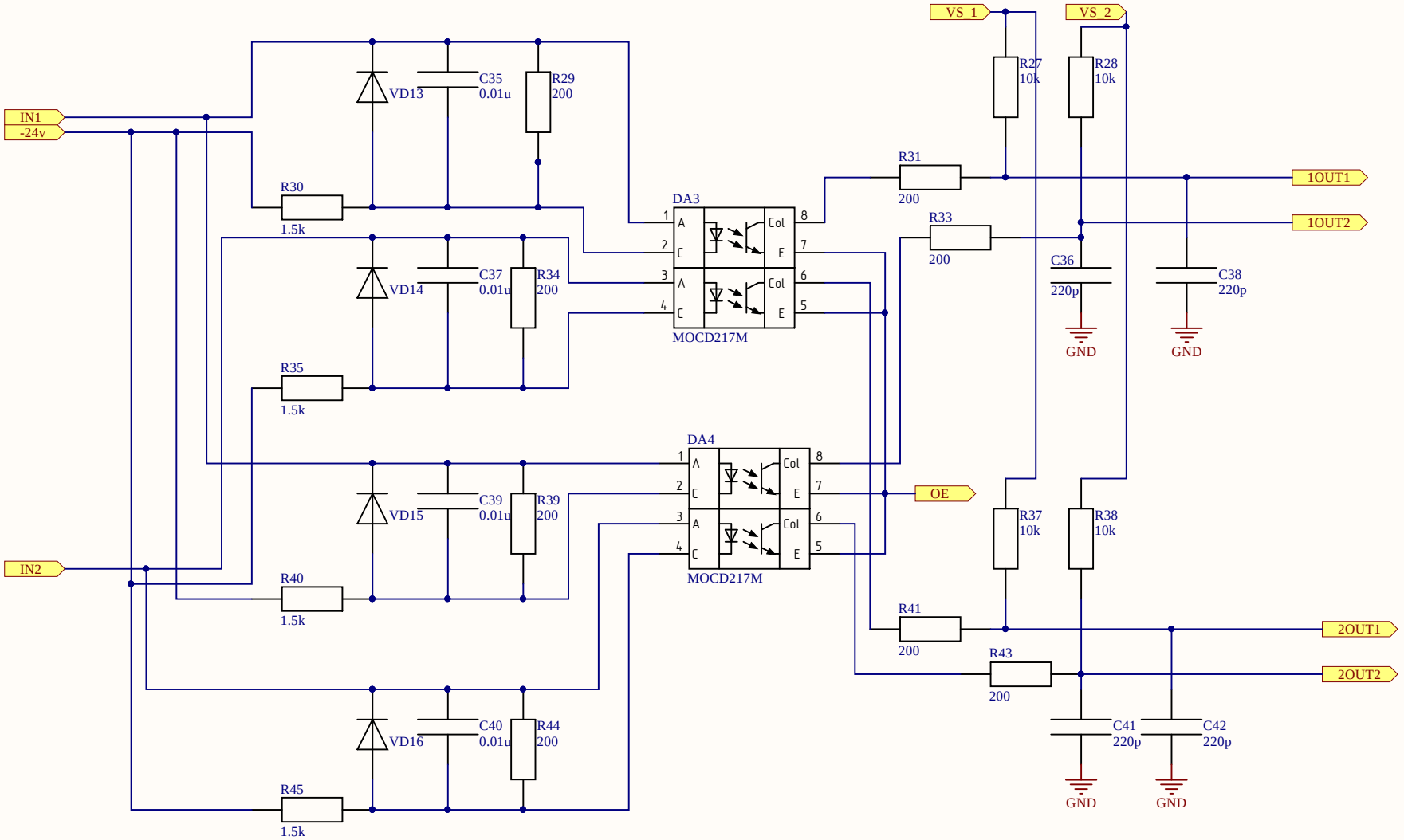

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Size A4	Number	Revision
Date: 18.03.2020		Sheet of
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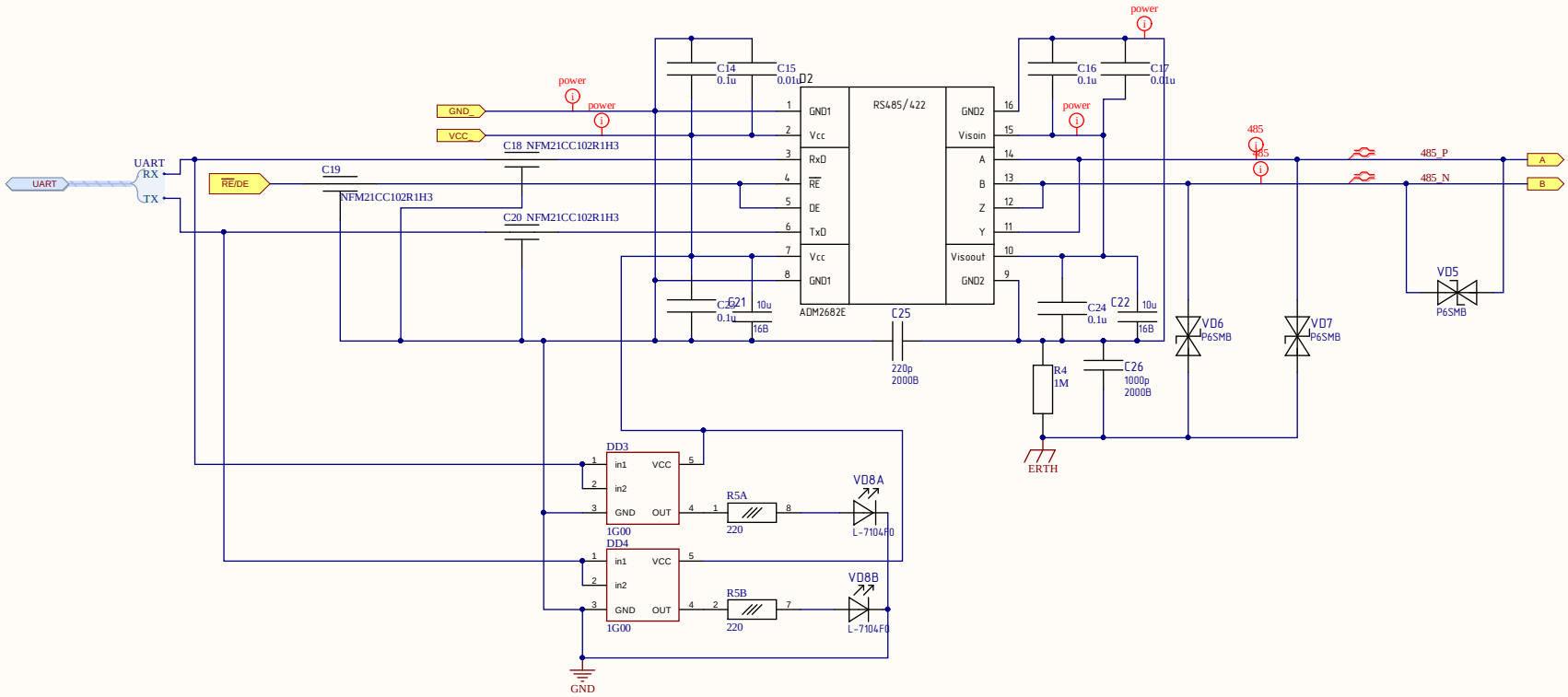

Изм.	Лист	№ докум.	Подп.	Дата	Десятичный номер	Лист
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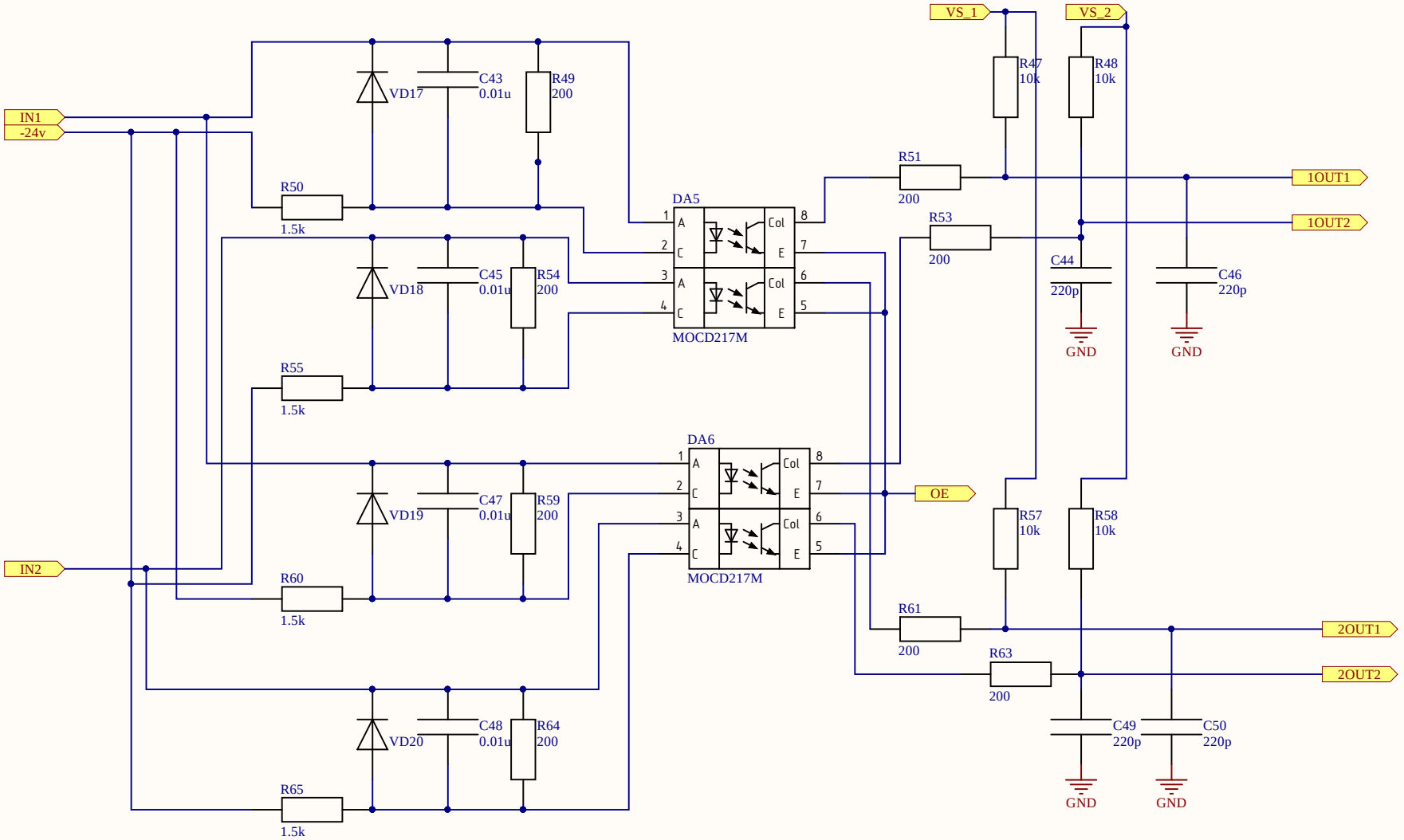
Подп. и дата | Инв.№ дубл. | Взам.инв.№ | Подп.и дата | Инв.№ подл.

Формат А3



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Size A4	Number	Revision
Date: 18.03.2020		Sheet of
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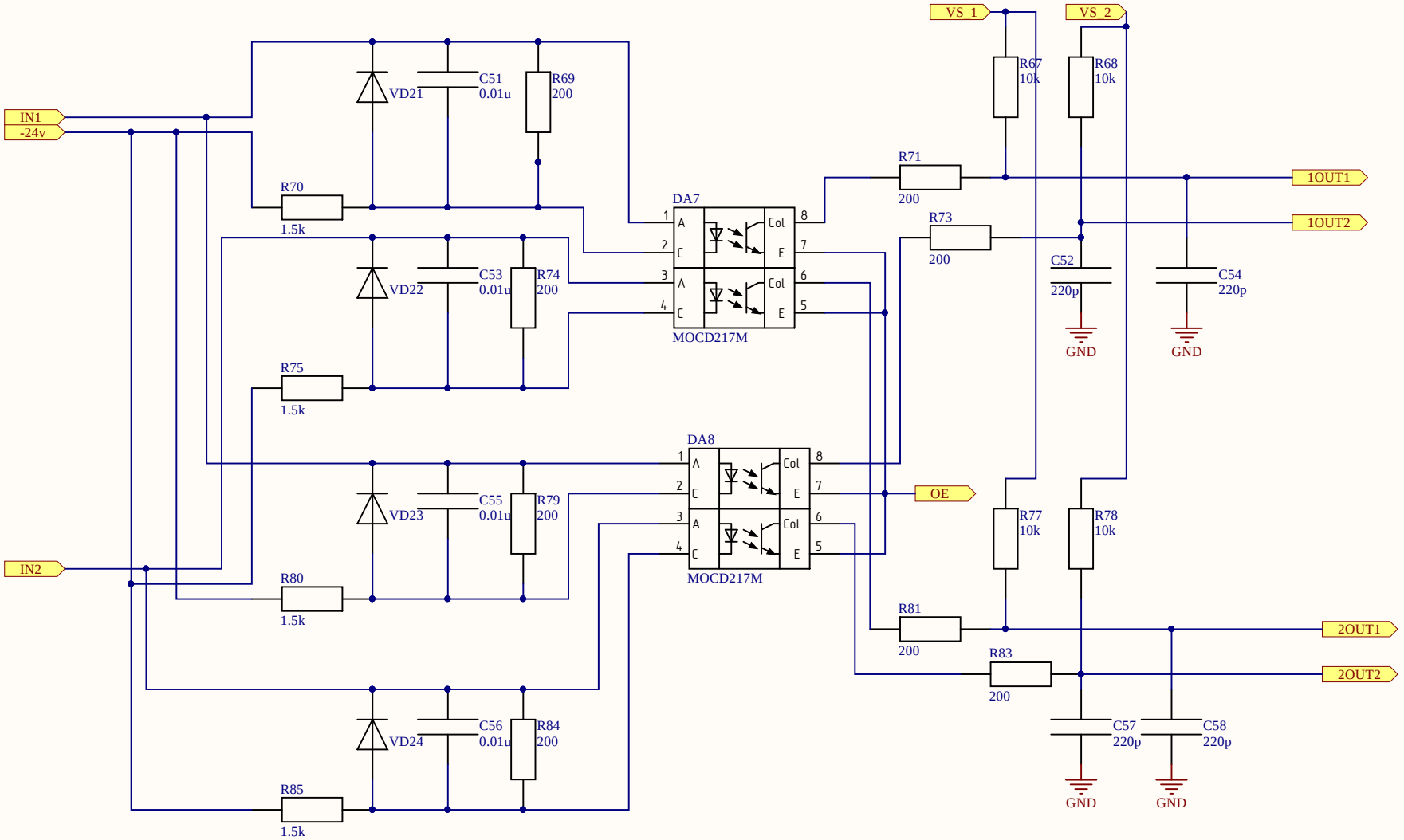

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Size A4	Number	Revision
Date: 18.03.2020		Sheet of
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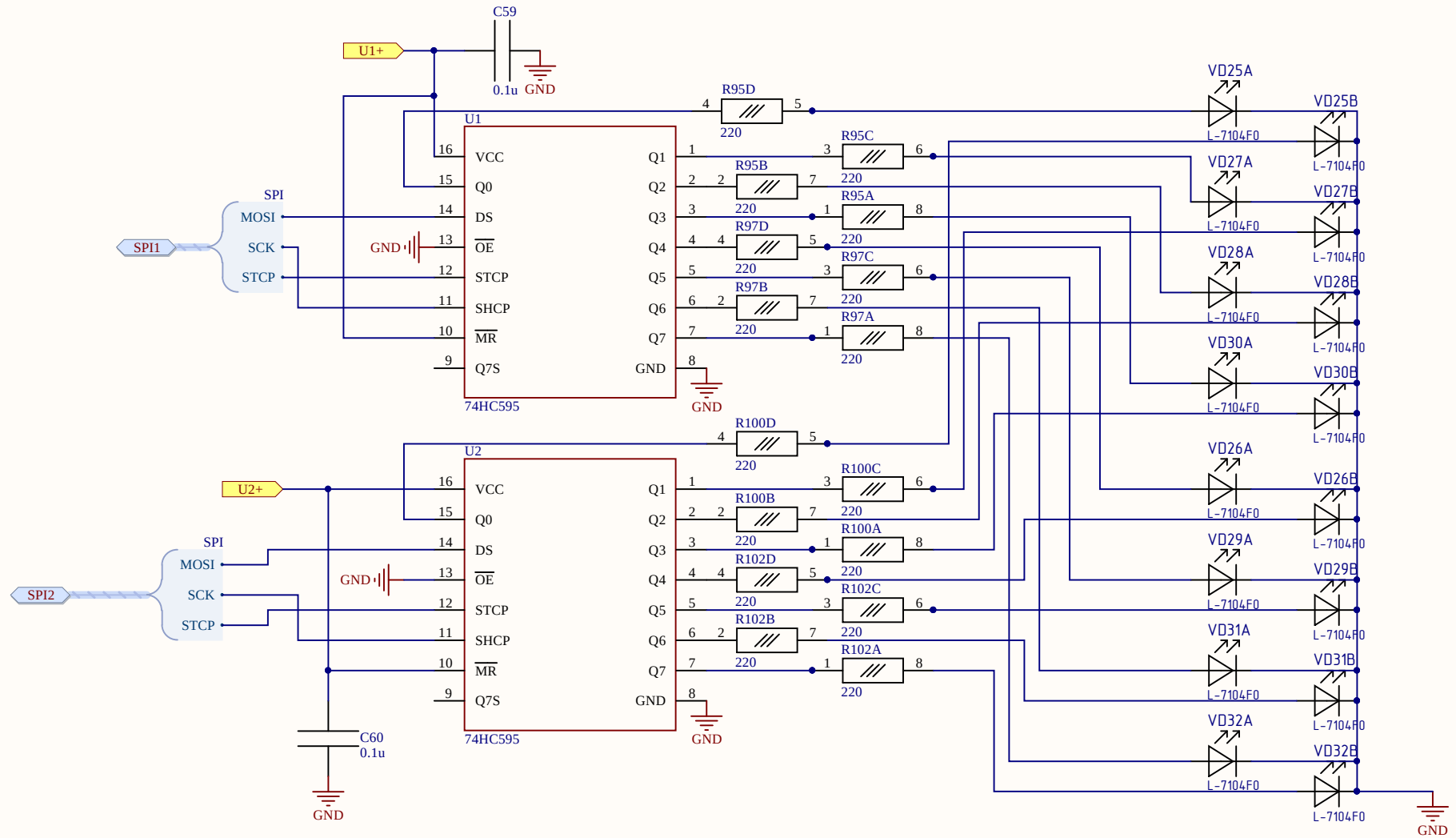

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Size A4	Number	Revision
Date: 18.03.2020		Sheet of
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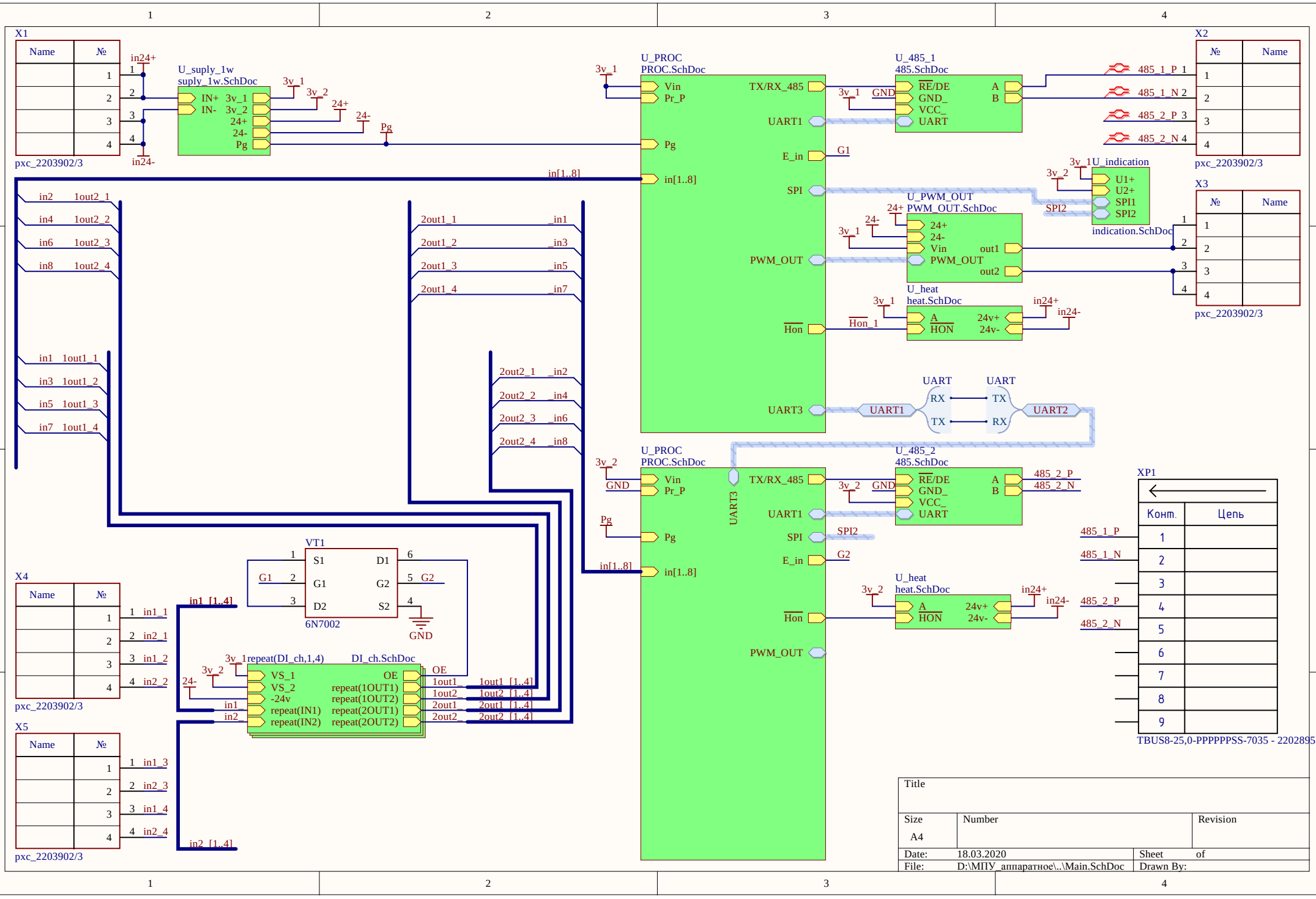
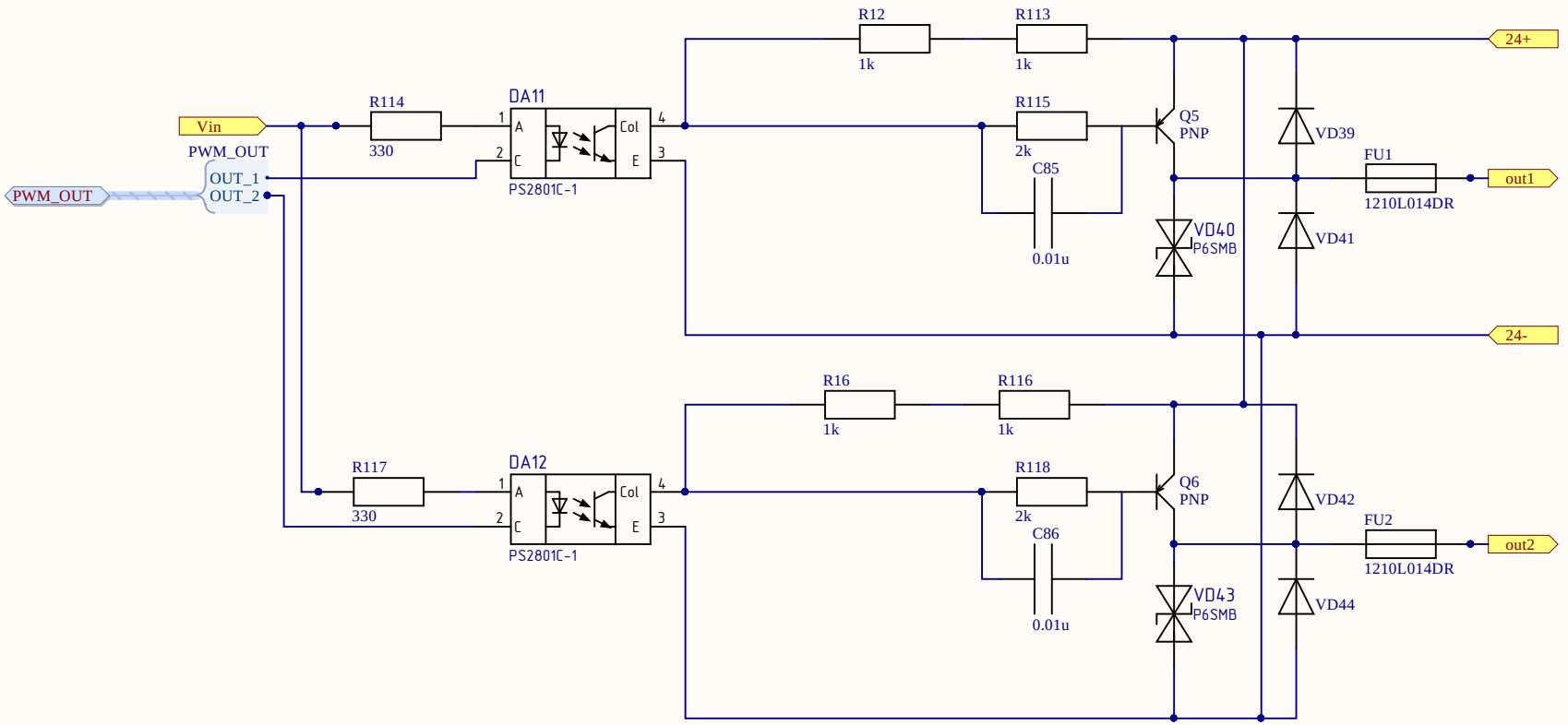

X1
Name
№
pxc_2203902/3
U_suply_1w
suply_1w.SchDoc
IN+ 3v_1
IN- 3v_2
24+
24-
Pg
U_PROC
PROC.SchDoc
Vin
Pr_P
Pg
in[1..8]
TX/RX_485
UART1
E_in
SPI
PWM_OUT
Hon
UART3
U_485_1
485.SchDoc
RE/DE
GND_
VCC_
UART
A
B
485_1_P
485_1_N
485_2_P
485_2_N
X2
U_indication
indication.SchDoc
U1+
U2+
SPI1
SPI2
X3
U_PWM_OUT
PWM_OUT.SchDoc
out1
out2
U_heat
heat.SchDoc
24v+
24v-
UART
RX
TX
U_485_2
UART3
G1
G2
in1_1
in2_1
in1_2
in2_2
in1_3
in2_3
in1_4
in2_4
VT1
6N7002
GND
DI_ch.SchDoc
repeat(DI_ch,1,4)
VS_1
VS_2
-24v
repeat(IN1)
repeat(IN2)
OE
repeat(1OUT1)
repeat(1OUT2)
repeat(2OUT1)
repeat(2OUT2)
XP1
Конт.
Цепь
TBUS8-25,0-PPPPPPSS-7035 - 2202895
Title
Size
A4
Number
Revision
Date:
18.03.2020
Sheet
of
File:
D:\МПУ_аппаратное\..\Main.SchDoc
Drawn By:



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Size A4	Number	Revision
Date: 18.03.2020		Sheet of
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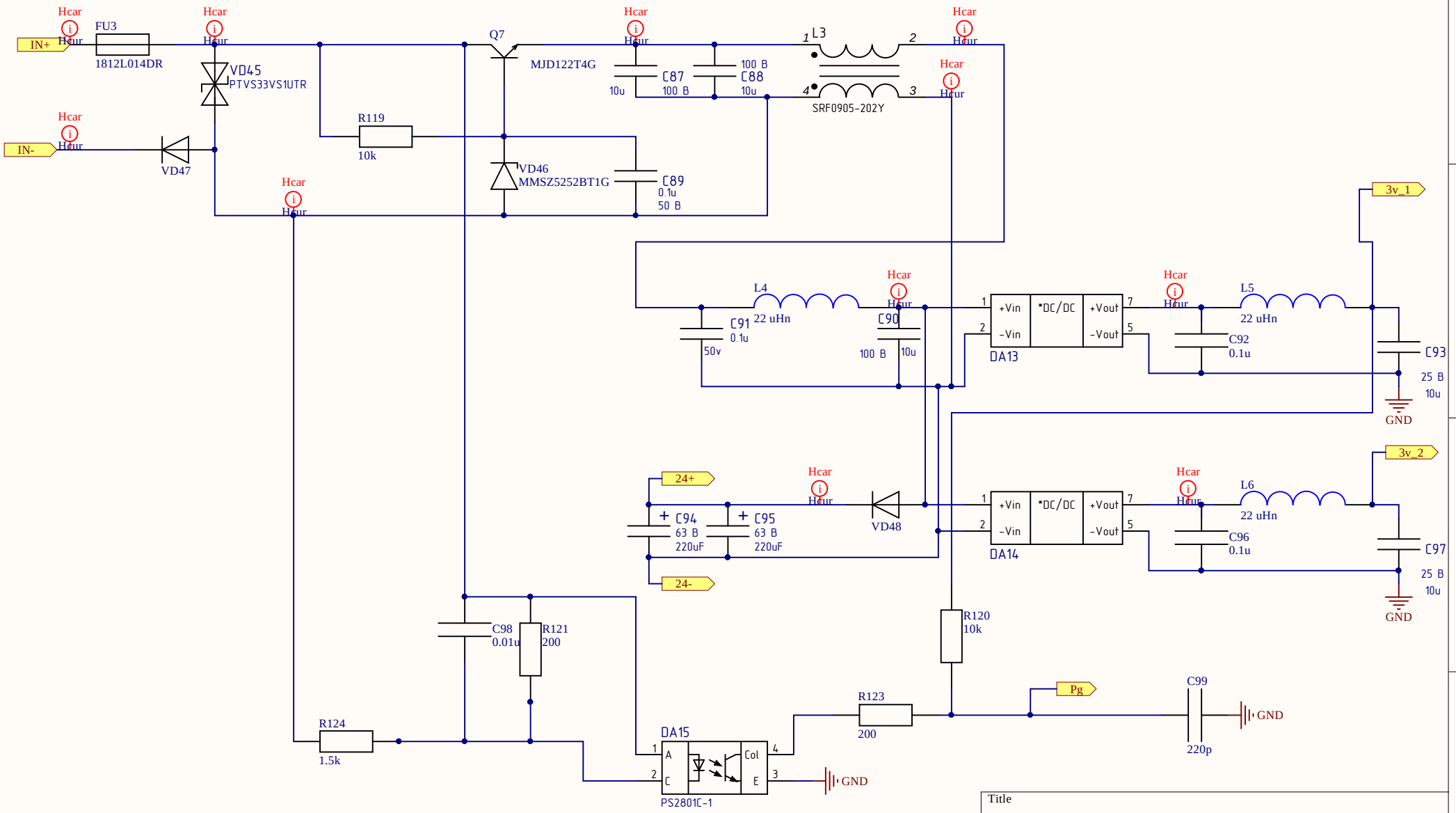

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Size A4	Number	Revision
Date: 18.03.2020		Sheet of
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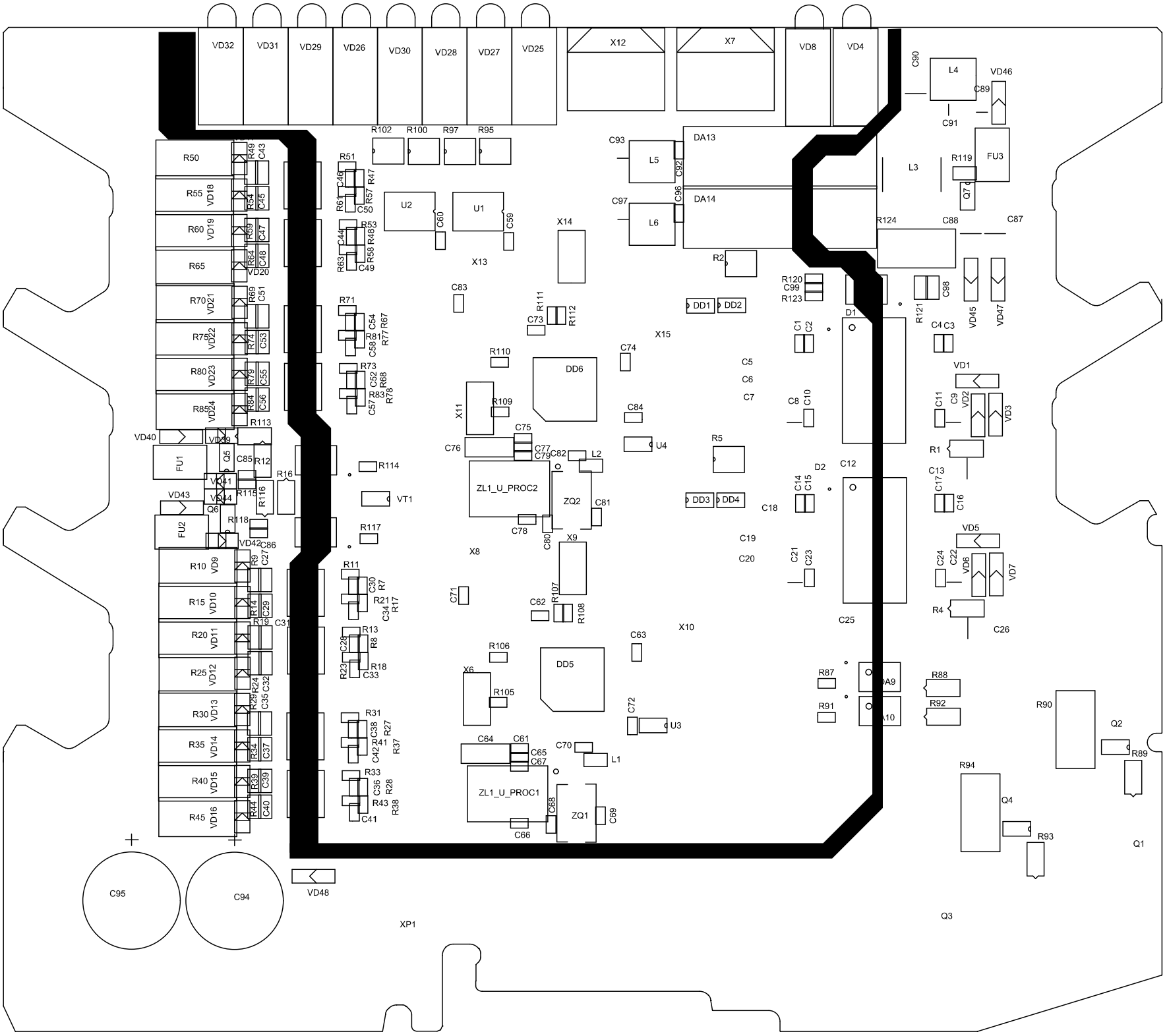
VD32
VD31
VD29
VD26
VD30
VD28
VD27
VD25
X12
X7
VD8
VD4
C90
L4
VD46
C89
C91
R102
R100
R97
R95
C93
L5
DA13
C92
L3
R119
FU3
Q7
C97
L6
DA14
C96
R124
C88
C87
R50
R55
R60
R65
R70
R75
R80
R85
VD18
VD19
VD20
VD21
VD22
VD23
VD24
R49
R54
R59
R64
R69
R74
R79
R84
C43
C45
C47
C48
C51
C53
C55
C56
R51
R61
R47
R57
C49
C50
U2
U1
C60
C59
R53
R63
R48
R58
C44
C49
X13
X14
R2
C83
R71
R81
R67
R77
C54
C58
R73
R83
R68
R78
C52
C57
R111
C73
R112
X15
DD1
DD2
R120
C99
R123
D1
C1
C2
C4
C3
R121
C98
VD45
VD47
R110
C74
C5
C6
C7
DD6
VD1
VD2
VD3
C11
C9
C8
C10
X11
R109
C84
C75
C76
C77
C79
C82
L2
U4
R5
R1
C13
C17
C16
ZL1_U_PROC2
ZQ2
C81
C78
C80
X9
X8
DD3
DD4
C18
D2
C12
C14
C15
C19
C20
C21
C23
VD5
VD6
VD7
C24
C22
R4
C26
C25
C71
R107
C62
R108
X10
C63
R106
X6
R105
DD5
C72
U3
R87
R91
DA9
DA10
R88
R92
R90
Q2
R89
C64
C61
C65
C67
C70
L1
R94
Q4
R93
Q1
ZL1_U_PROC1
ZQ1
C68
C69
C66
Q3
VD40
VD39
FU1
Q5
C85
R12
R16
R113
R114
VD41
VD44
VD43
R115
R116
VT1
Q6
R118
FU2
VD42
C86
R117
R10
R15
R20
R25
R30
R35
R40
R45
VD9
VD10
VD11
VD12
VD13
VD14
VD15
VD16
R9
R14
R19
R24
R29
R34
R39
R44
C27
C29
C31
C32
C35
C37
C39
C40
R11
R21
R17
C30
C34
R7
R13
R23
R8
R18
C28
C33
R31
R41
R27
R37
C38
C42
R33
R43
R28
R38
C36
C41
C95
C94
VD48
XP1

Board Stack Report