

ChargePoint, Inc

Sheet: /

File: CIB_Main_PCB.kicad_sch

Title: CIB PCB

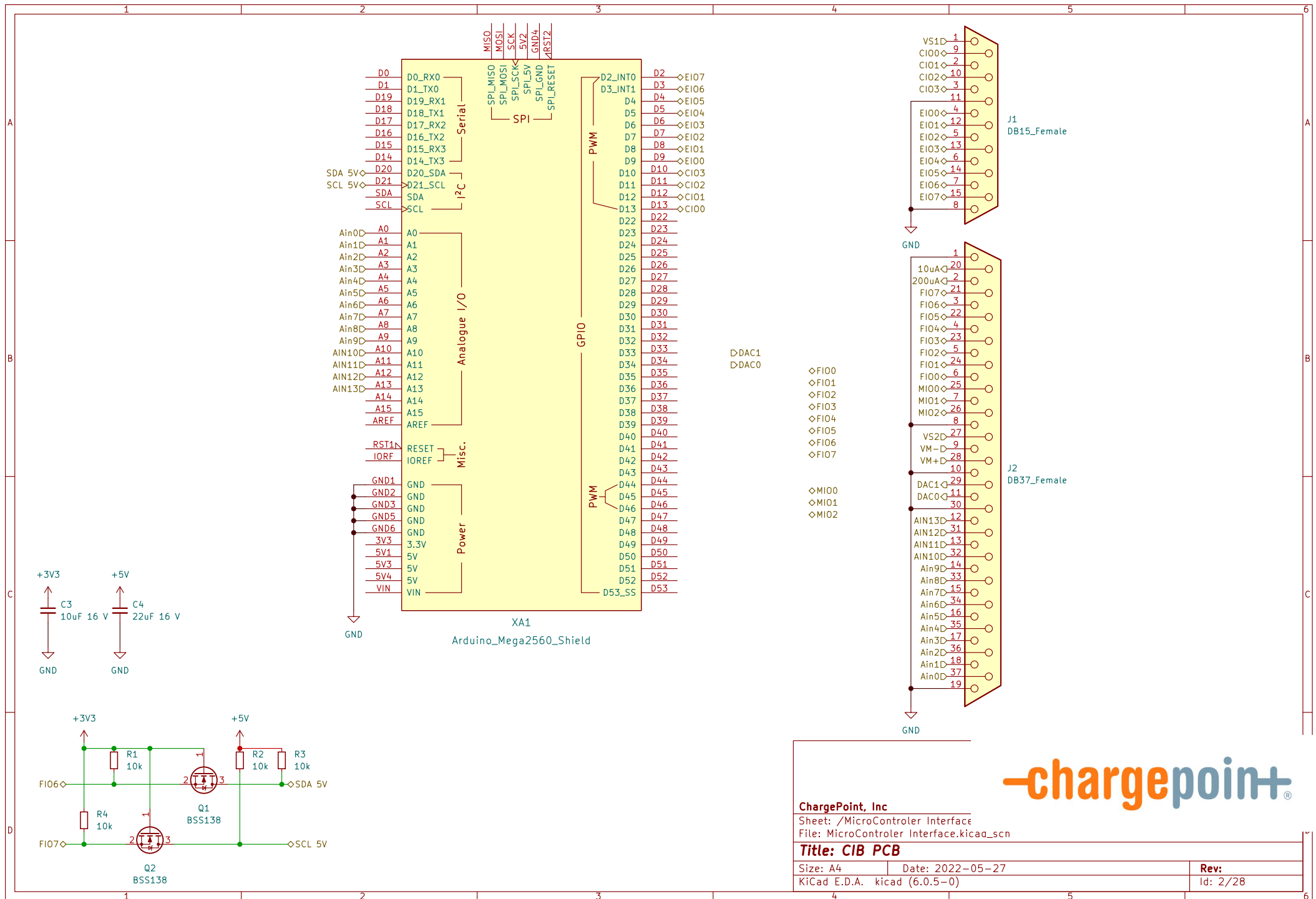
Size: A4 Date: 2022-05-27

KiCad E.D.A. kicad (6.0.5-0)

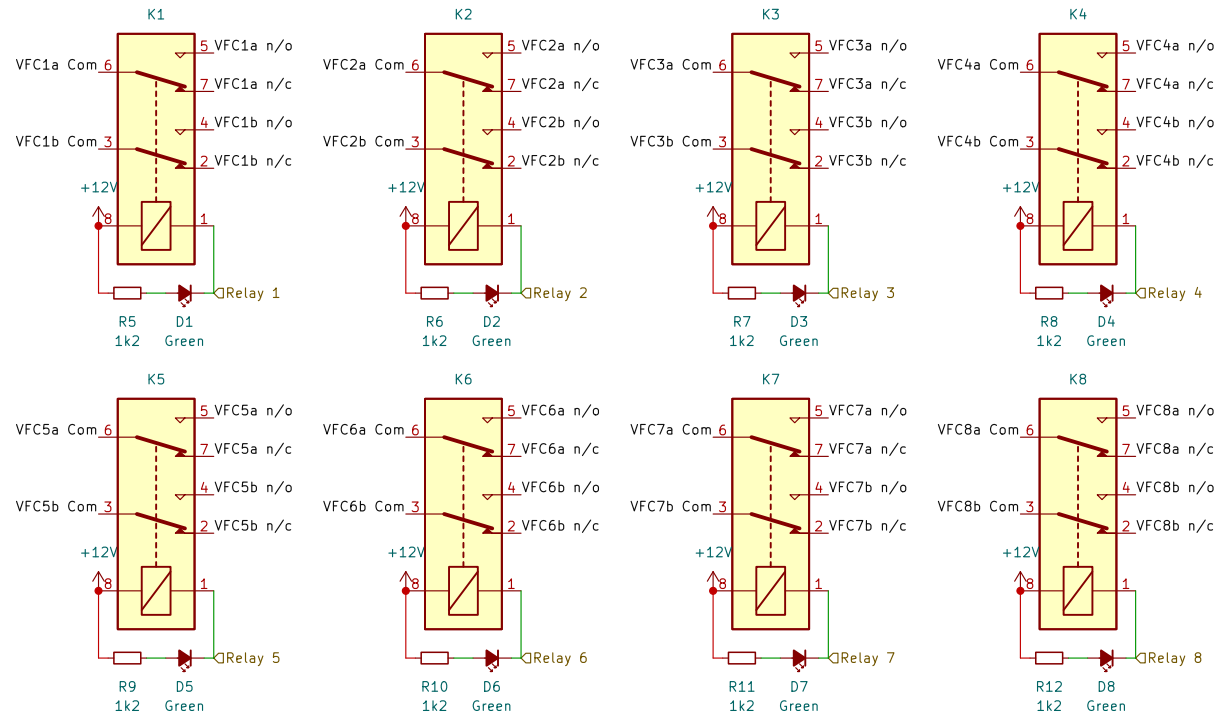
Rev:

Id: 1/28









J? VFC 1-2					
VFC1b n/o 7	7	1	1	VFC1a n/o	
VFC1b Com 8	8	2	2	VFC1a Com	
VFC1b n/c 9	9	3	3	VFC1a n/c	
VFC2b n/o 10	10	4	4	VFC2a n/o	
VFC2b Com 11	11	5	5	VFC2a Com	
VFC2b n/c 12	12	6	6	VFC2a n/c	

J? VFC 3-4					
VFC3b n/o 7	7	1	1	VFC3a n/o	
VFC3b Com 8	8	2	2	VFC3a Com	
VFC3b n/c 9	9	3	3	VFC3a n/c	
VFC4b n/o 10	10	4	4	VFC4a n/o	
VFC4b Com 11	11	5	5	VFC4a Com	
VFC4b n/c 12	12	6	6	VFC4a n/c	

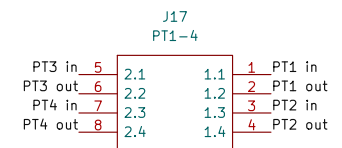
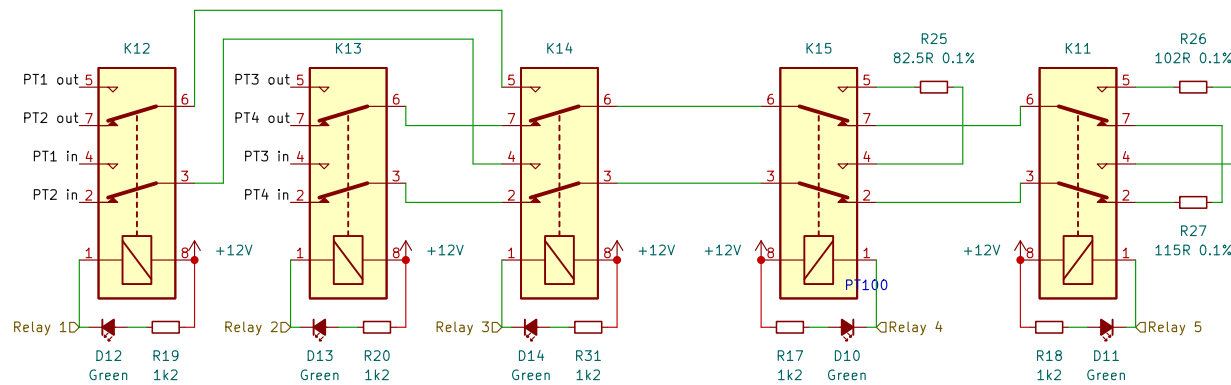
J? VFC 5-6					
VFC5b n/o 7	7	1	1	VFC5a n/o	
VFC5b Com 8	8	2	2	VFC5a Com	
VFC5b n/c 9	9	3	3	VFC5a n/c	
VFC6b n/o 10	10	4	4	VFC6a n/o	
VFC6b Com 11	11	5	5	VFC6a Com	
VFC6b n/c 12	12	6	6	VFC6a n/c	

J? VFC 7-8					
VFC7b n/o 7	7	1	1	VFC7a n/o	
VFC7b Com 8	8	2	2	VFC7a Com	
VFC7b n/c 9	9	3	3	VFC7a n/c	
VFC8b n/o 10	10	4	4	VFC8a n/o	
VFC8b Com 11	11	5	5	VFC8a Com	
VFC8b n/c 12	12	6	6	VFC8a n/c	



Sheet: /Misc Relays/Volt Free ()
File: Volt Free Contacts.kicad_scn

Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.5-0)		Id: 4/28



<https://chargepoint.atlassian.net/wiki/spaces/EN/pages/2363396879/FDC+FCT+PVT+--+Functional+Test+Specification#RTD-Temperature-Sense-Circuits>
<https://chargepoint.atlassian.net/wiki/spaces/EN/pages/2707457600/FDC+FCT+PVT+--+Custom+Circuits+RTD>



ChargePoint, Inc

Sheet: /Misc Relays/PT100 PT1

File: PT100 PT1000 Simulation.kicad_scn

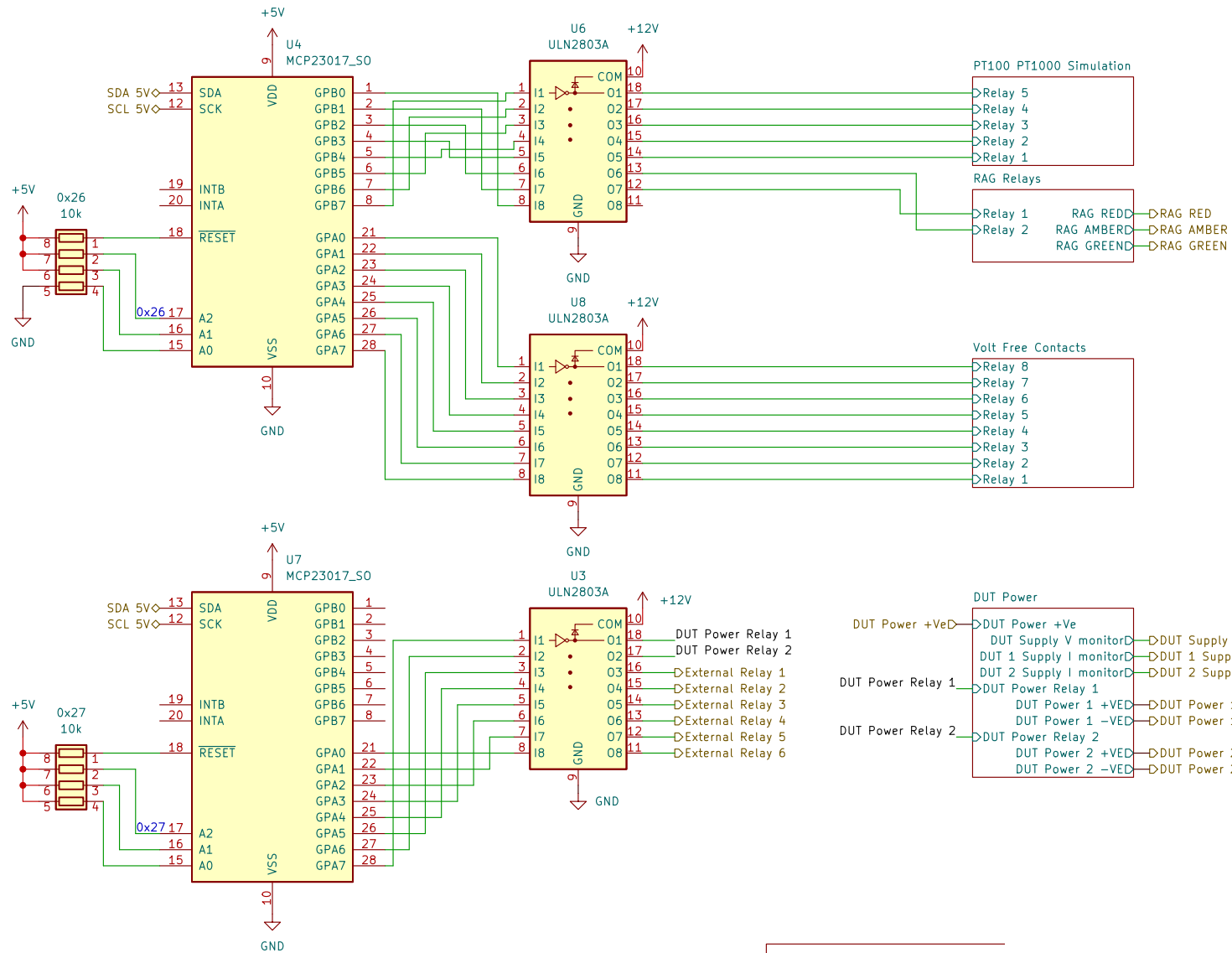
Title: CIB PCB

Size: A4 Date: 2022-05-27

KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: 7/28



ChargePoint, Inc

Sheet: /Misc Relays/
File: misc relays.kicad_sch

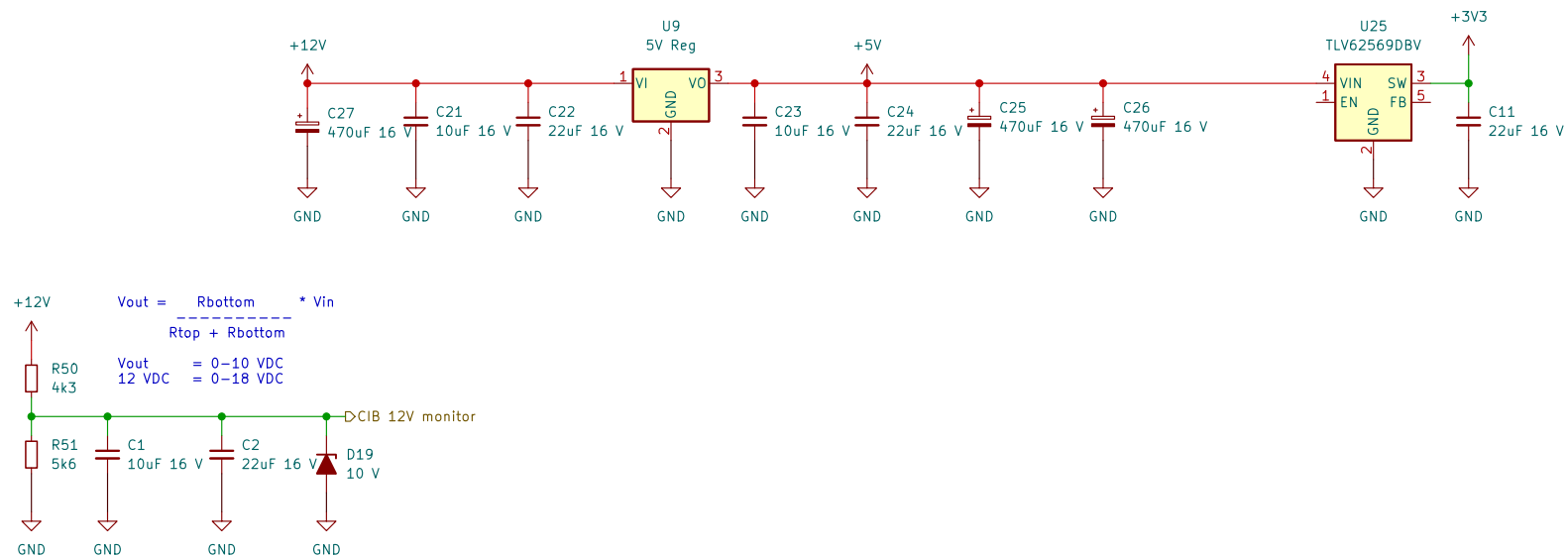
Title: CIB PCB

Size: A4 Date: 2022-05-27

KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: 11/28



ChargePoint, Inc

Sheet: /Power Supply/

File: CIB PSU.kicad_sch

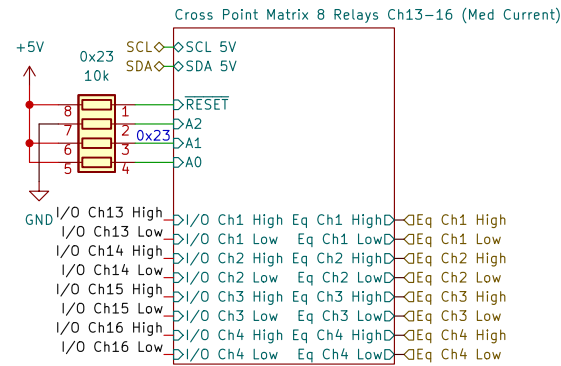
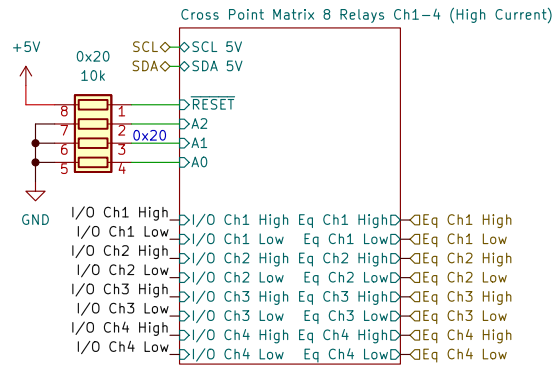
Title: CIB PCB

Size: A4 Date: 2022-05-27

KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: 12/28



J7
Ch 1-4

I/O Ch1 High	5	2.1	1.1	1	I/O Ch1 Low
I/O Ch2 High	6	2.2	1.2	2	I/O Ch2 Low
I/O Ch3 High	7	2.3	1.3	3	I/O Ch3 Low
I/O Ch4 High	8	2.4	1.4	4	I/O Ch4 Low

J7
Ch 5-8

I/O Ch5 High	5	2.1	1.1	1	I/O Ch5 Low
I/O Ch6 High	6	2.2	1.2	2	I/O Ch6 Low
I/O Ch7 High	7	2.3	1.3	3	I/O Ch7 Low
I/O Ch8 High	8	2.4	1.4	4	I/O Ch8 Low

J8
Ch 9-12

I/O Ch9 High	5	2.1	1.1	1	I/O Ch9 Low
I/O Ch10 High	6	2.2	1.2	2	I/O Ch10 Low
I/O Ch11 High	7	2.3	1.3	3	I/O Ch11 Low
I/O Ch12 High	8	2.4	1.4	4	I/O Ch12 Low

J18
Ch 13-16

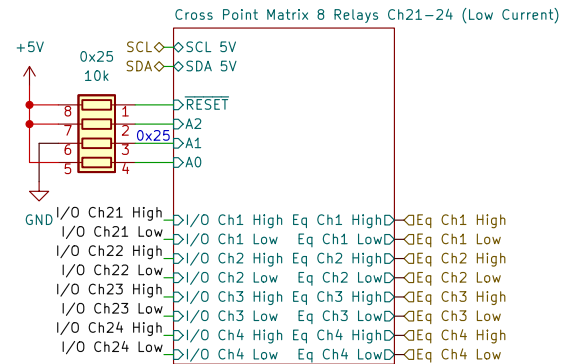
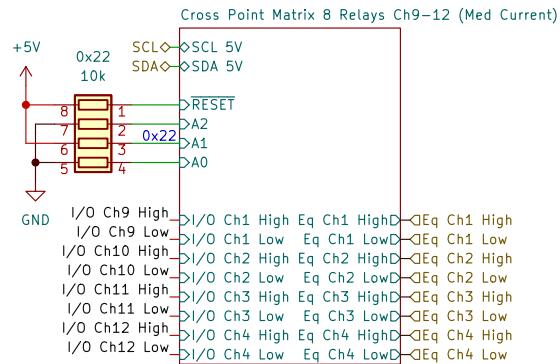
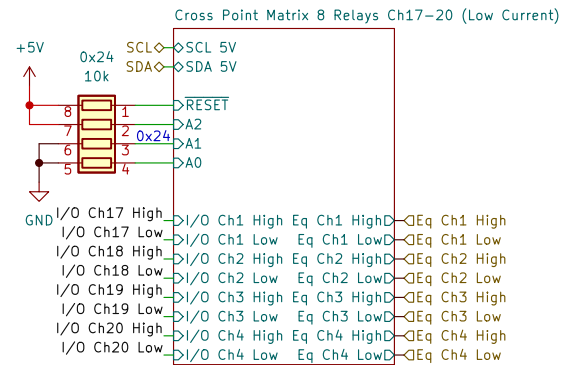
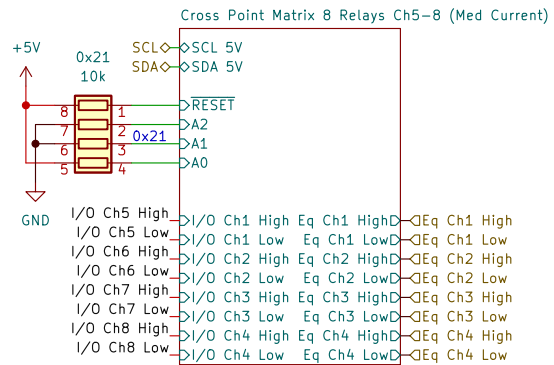
I/O Ch13 High	5	2.1	1.1	1	I/O Ch13 Low
I/O Ch14 High	6	2.2	1.2	2	I/O Ch14 Low
I/O Ch15 High	7	2.3	1.3	3	I/O Ch15 Low
I/O Ch16 High	8	2.4	1.4	4	I/O Ch16 Low

J9
Ch 17-20

I/O Ch17 High	5	2.1	1.1	1	I/O Ch17 Low
I/O Ch18 High	6	2.2	1.2	2	I/O Ch18 Low
I/O Ch19 High	7	2.3	1.3	3	I/O Ch19 Low
I/O Ch20 High	8	2.4	1.4	4	I/O Ch20 Low

J19
Ch 21-24

I/O Ch21 High	5	2.1	1.1	1	I/O Ch21 Low
I/O Ch22 High	6	2.2	1.2	2	I/O Ch22 Low
I/O Ch23 High	7	2.3	1.3	3	I/O Ch23 Low
I/O Ch24 High	8	2.4	1.4	4	I/O Ch24 Low



ChargePoint, Inc

Sheet: /Cross Point Matrix/
File: Cross Point Matrix.kicad_scn

Title: CIB PCB

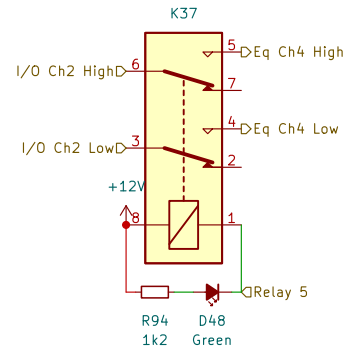
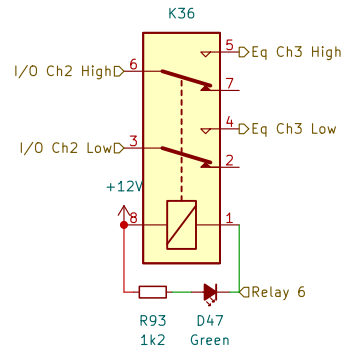
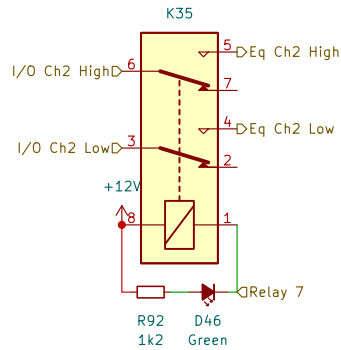
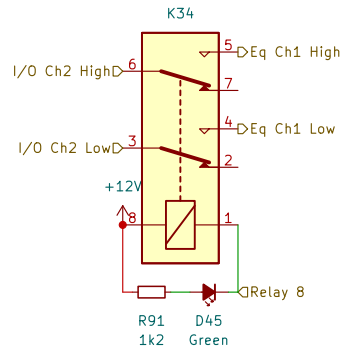
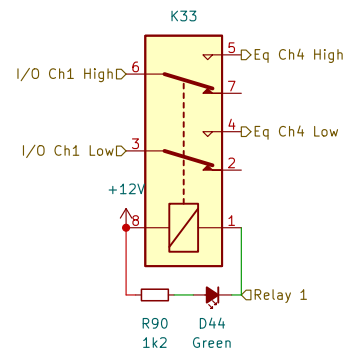
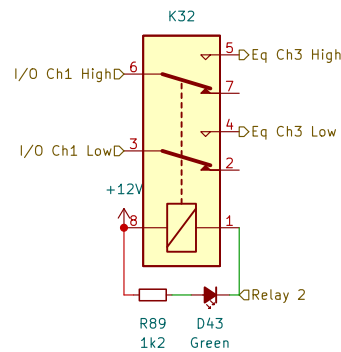
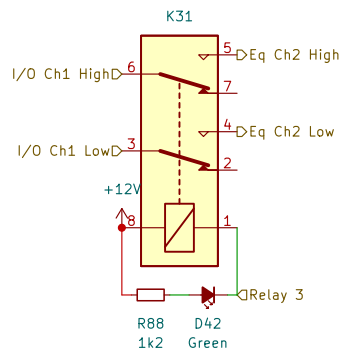
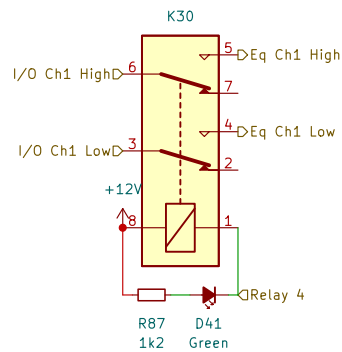
Size: A4 Date: 2022-05-27

KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: 14/28





These relays are capable of switching upto 1 A
 Omron PN# G6K-2P DC12
 Digikey PN# Z117-ND
 Relay 1A DPDT (2 Form C) 12 VDC coil



ChargePoint, Inc

Sheet: /Cross Point Matrix/Cro:

File: Cross Point Matrix 8 Relays (Low Current).kicad_scn

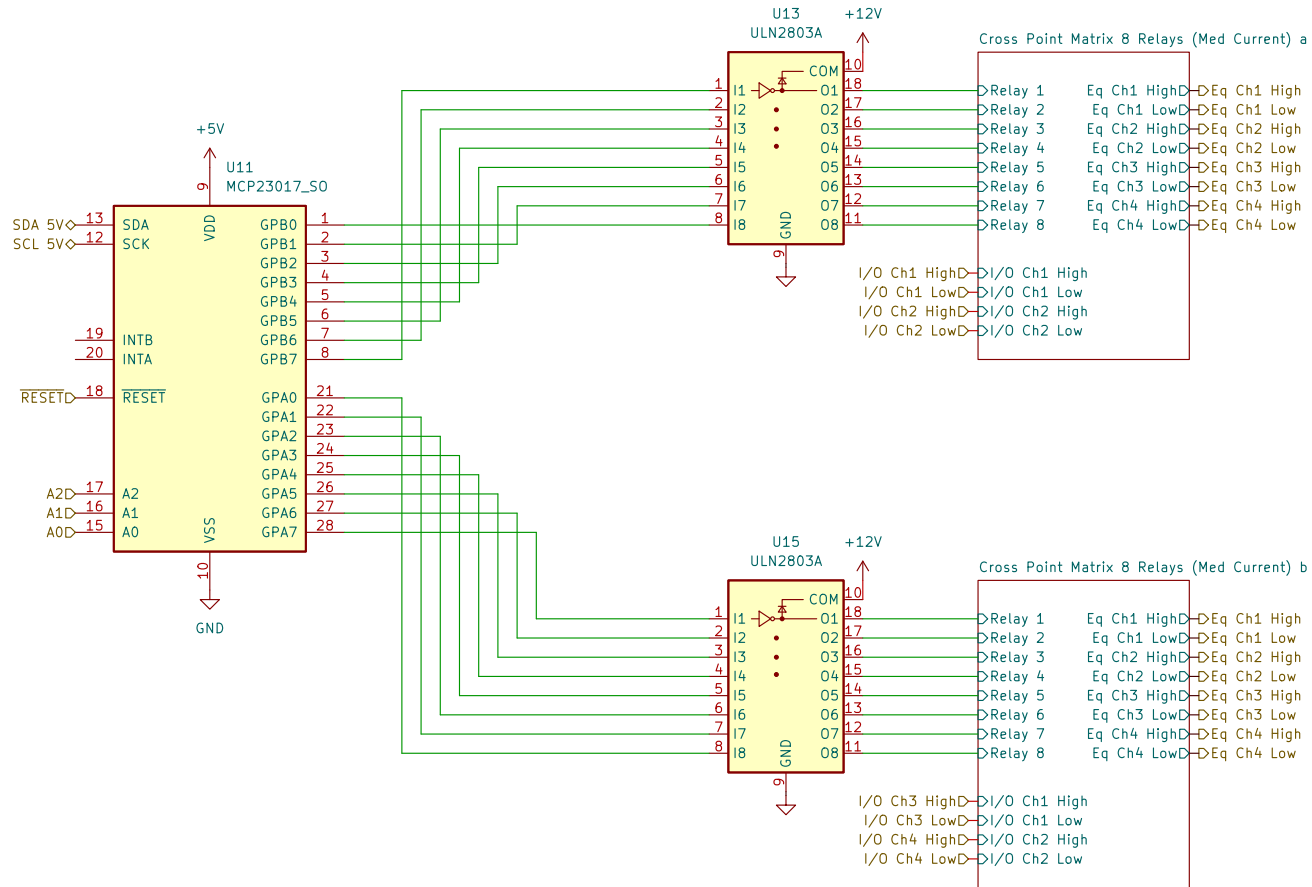
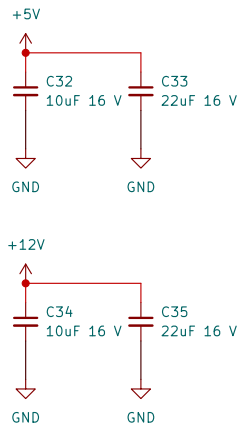
Title: CIB PCB

Size: A4 Date: 2022-05-27

KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: 16/28



These relays are capable of switching upto 8 A
 Omron PN# G2RL24CFDC12
 Digi-Key PN# Z3088-ND
 Relay 8 A DPDT (2 Form C) 12 VDC Coil



ChargePoint, Inc

Sheet: /Cross Point Matrix/Cro:
 File: Cross Point Matix Ch5-16.kicad_scn

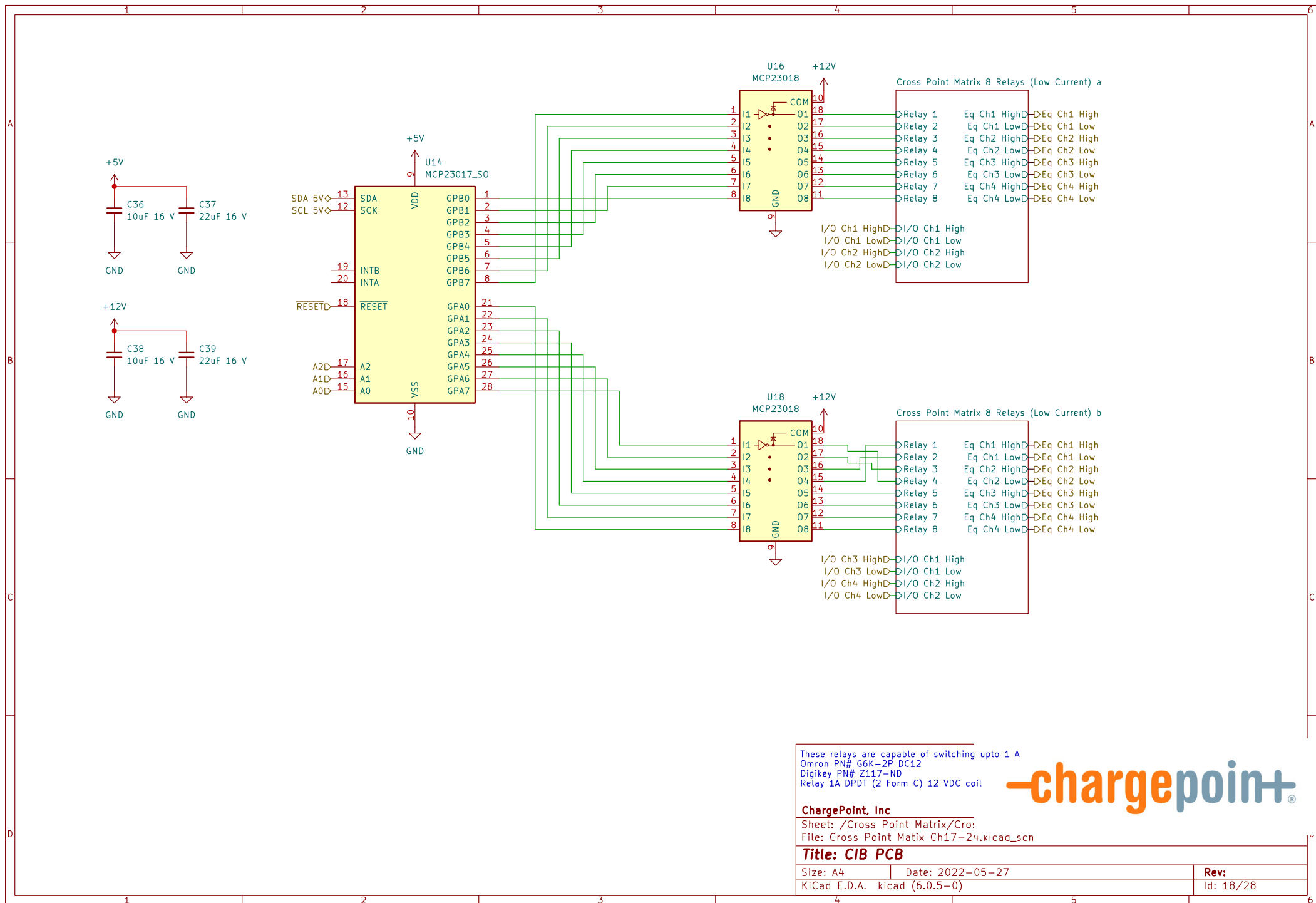
Title: CIB PCB

Size: A4 Date: 2022-05-27

KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: 17/28

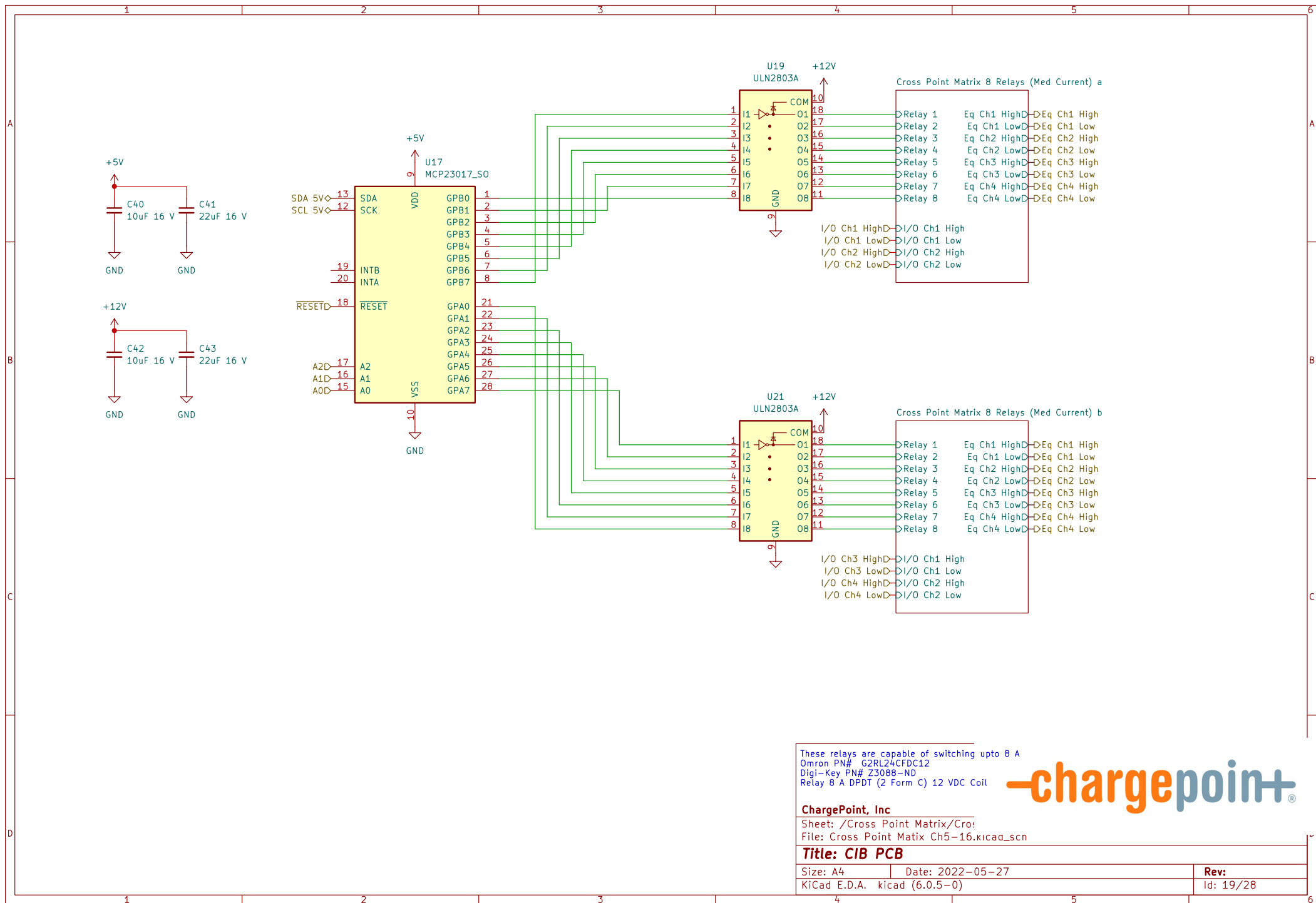


ChargePoint, Inc.
Sheet: /Cross Point Matrix/Cro:
File: Cross Point Matix Ch17-24.kicad_scn

Title: CIB PCB

Size: A4 Date: 2022-05-27
KiCad E.D.A. kicad (6.0.5-0)

Rev:
Id: 18/28



These relays are capable of switching upto 8 A
 Omron PN# G2RL24CFDC12
 Digi-Key PN# Z3088-ND
 Relay 8 A DPDT (2 Form C) 12 VDC Coil



ChargePoint, Inc

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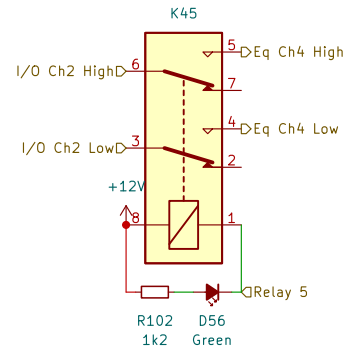
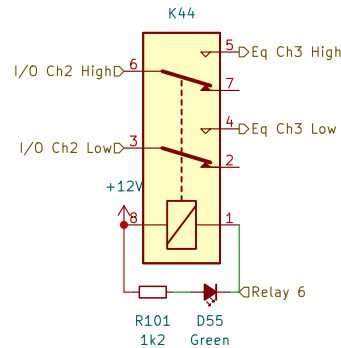
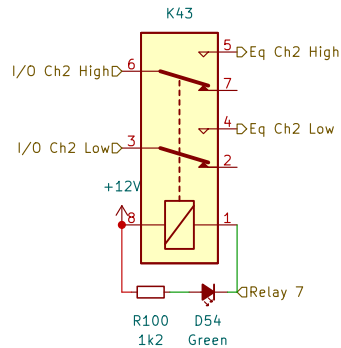
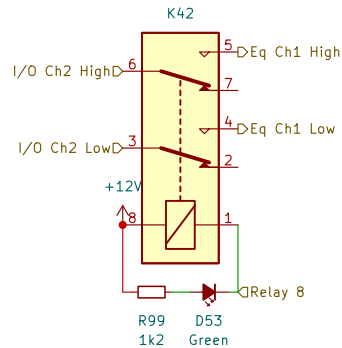
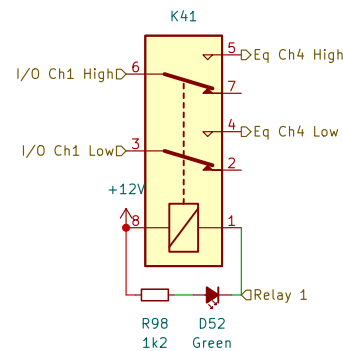
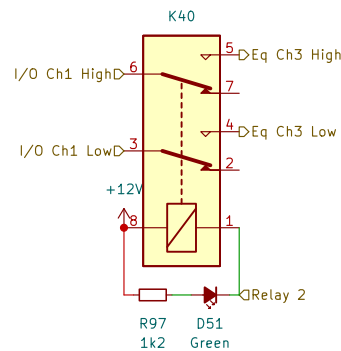
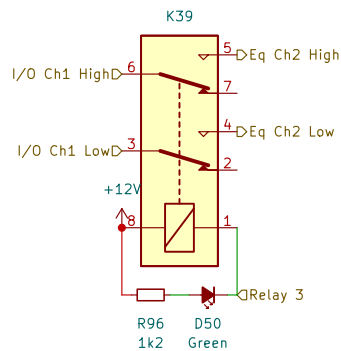
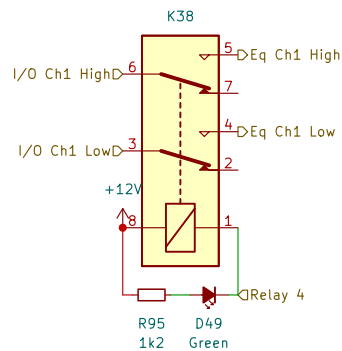
Title: CIB PCB

Size: A4 Date: 2022-05-27

KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: 19/28



These relays are capable of switching upto 1 A
 Omron PN# G6K-2P DC12
 Digikey PN# Z117-ND
 Relay 1A DPDT (2 Form C) 12 VDC coil

ChargePoint, Inc

Sheet: /Cross Point Matrix/Cro:

File: Cross Point Matrix 8 Relays (Low Current).kicad_scn

Title: CIB PCB

Size: A4 Date: 2022-05-27

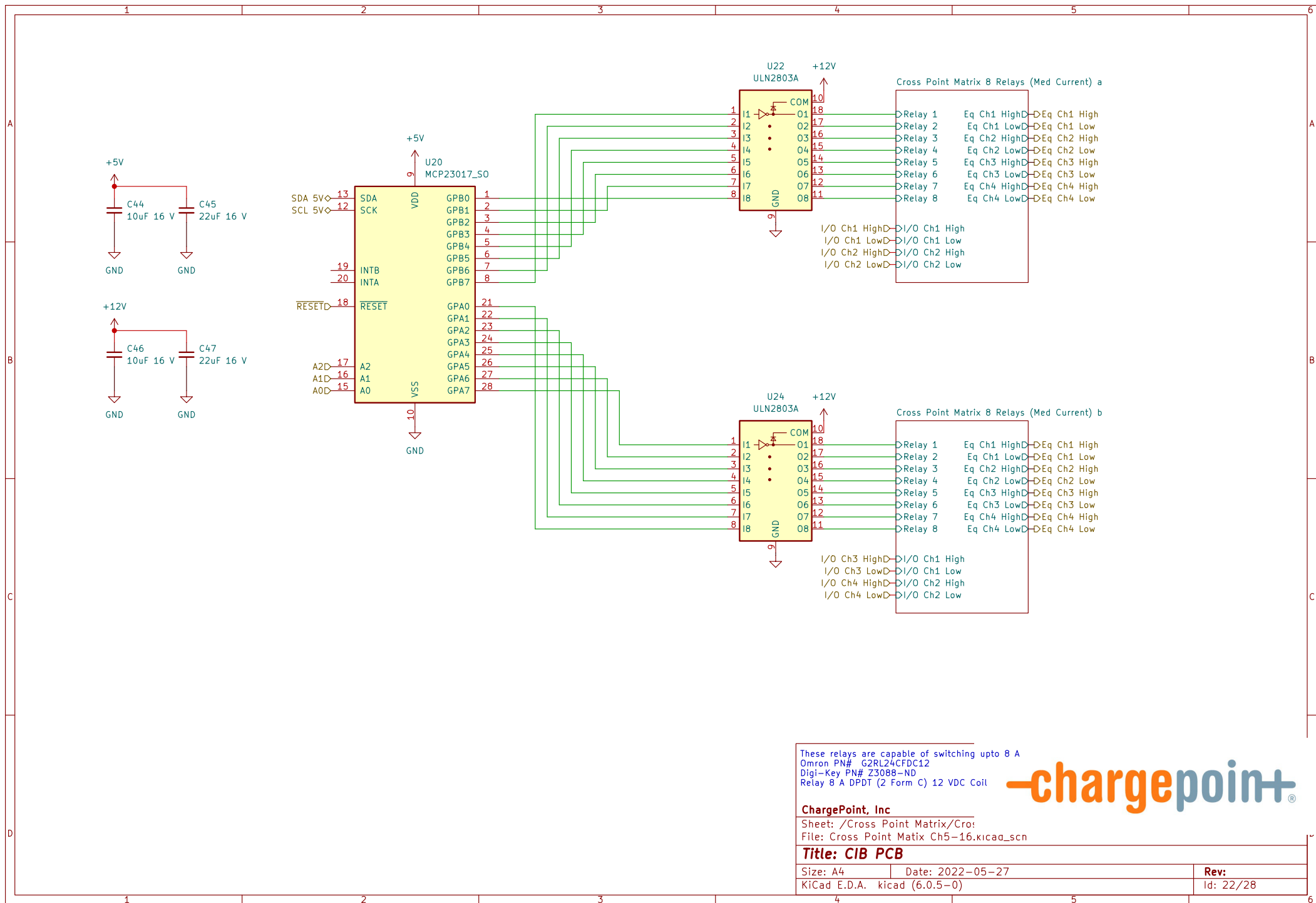
KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: 20/28

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These relays are capable of switching upto 8 A
 Omron PN# G2RL24CFDC12
 Digi-Key PN# Z3088-ND
 Relay 8 A DPDT (2 Form C) 12 VDC Coil



ChargePoint, Inc

Sheet: /Cross Point Matrix/Cro:
 File: Cross Point Matix Ch5-16.kicad_scn

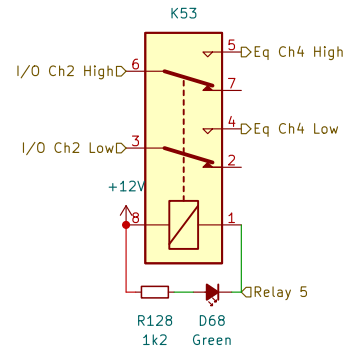
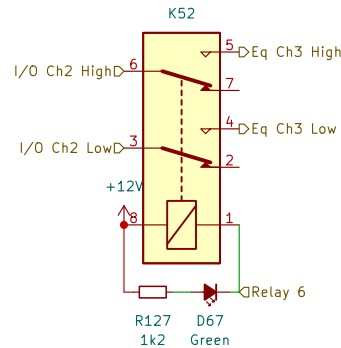
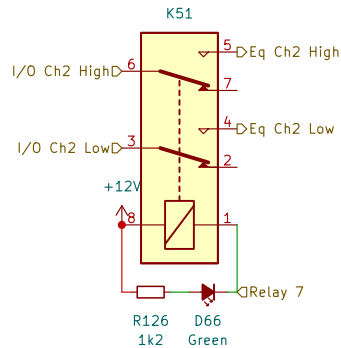
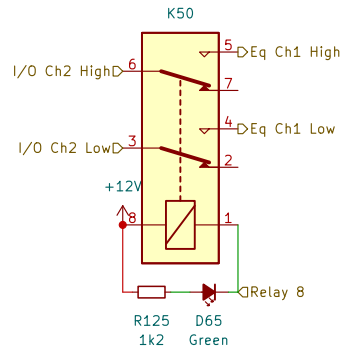
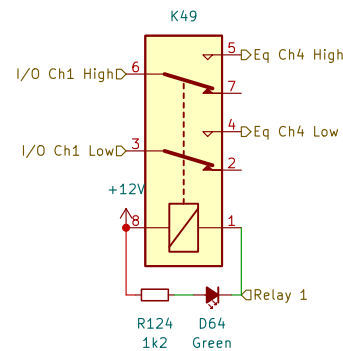
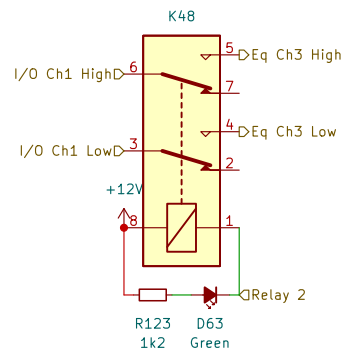
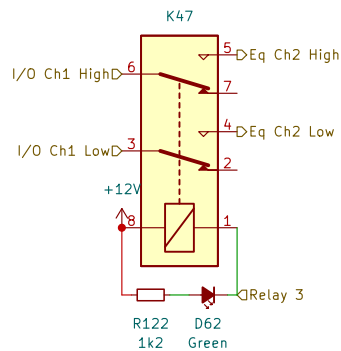
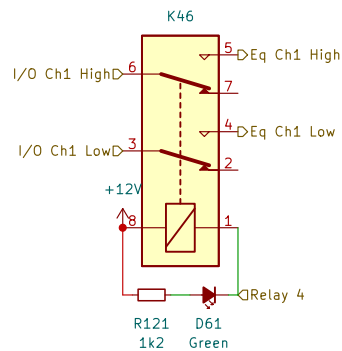
Title: CIB PCB

Size: A4 Date: 2022-05-27

KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: 22/28



These relays are capable of switching upto 1 A
Omron PN# G6K-2P DC12
Digikey PN# Z117-ND
Relay 1A DPDT (2 Form C) 12 VDC coil

ChargePoint, Inc

Sheet: /Cross Point Matrix/Cro:

File: Cross Point Matrix 8 Relays (Low Current).kicad_scn

Title: CIB PCB

Size: A4 Date: 2022-05-27

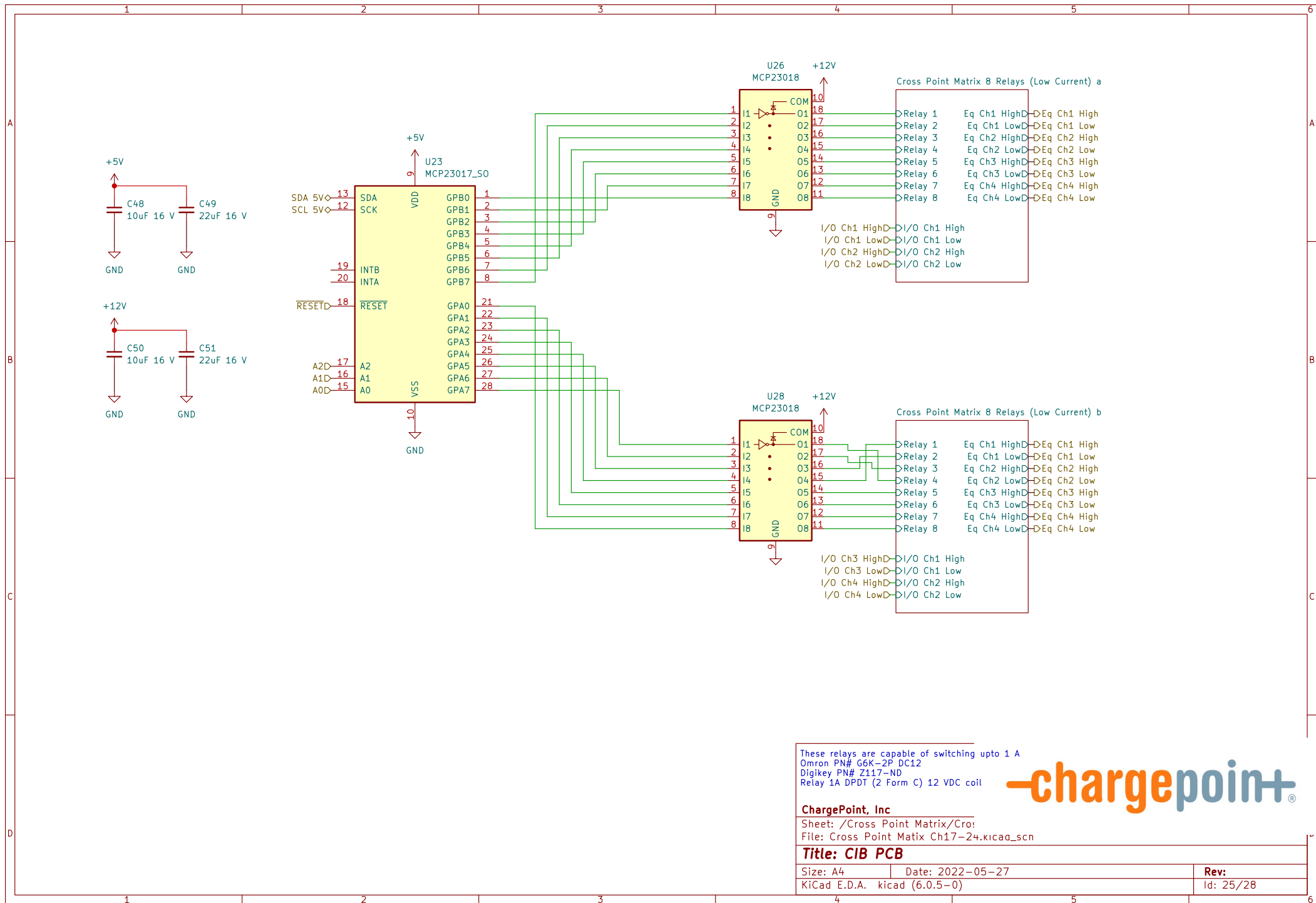
KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: 24/28

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These relays are capable of switching upto 1 A
Omron PN# G6K-2P DC12
Digikey PN# Z117-ND
Relay 1A DPDT (2 Form C) 12 VDC coil

ChargePoint, Inc

Sheet: /Cross Point Matrix/Cro:
File: Cross Point Matix Ch17-24.kicad_scn

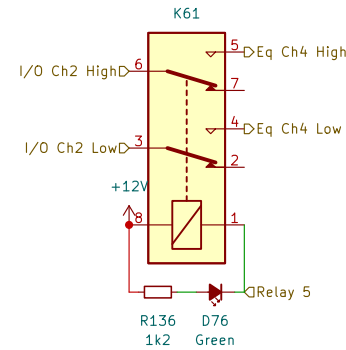
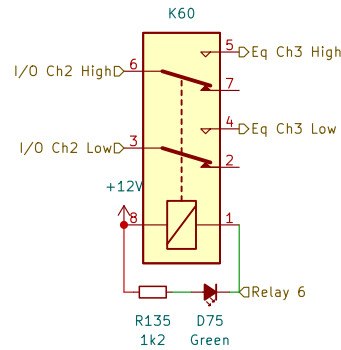
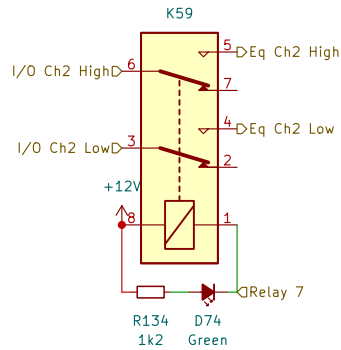
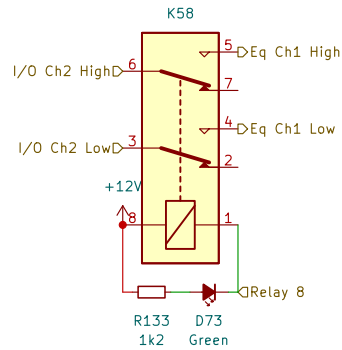
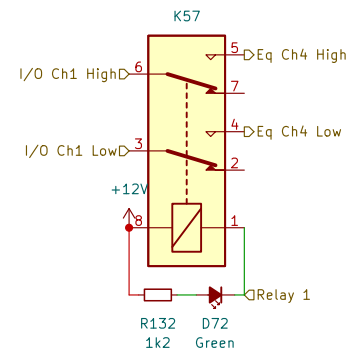
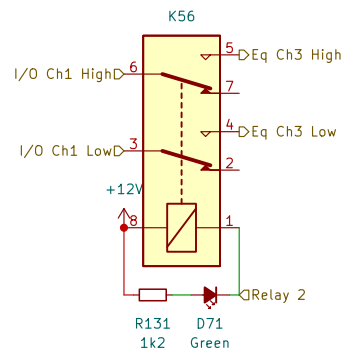
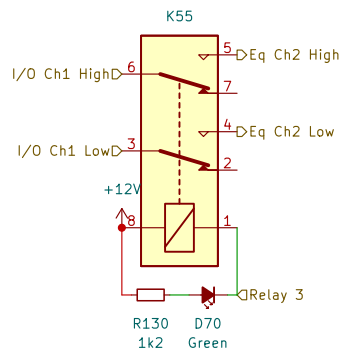
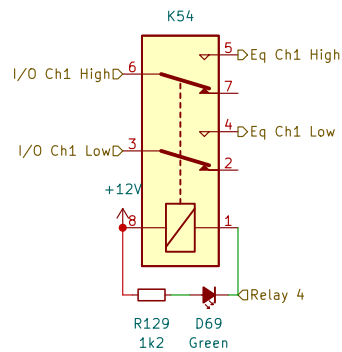
Title: CIB PCB

Size: A4 Date: 2022-05-27

KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: 25/28



These relays are capable of switching upto 1 A
Omron PN# G6K-2P DC12
Digikey PN# Z117-ND
Relay 1A DPDT (2 Form C) 12 VDC coil



ChargePoint, Inc

Sheet: /Cross Point Matrix/Cro:

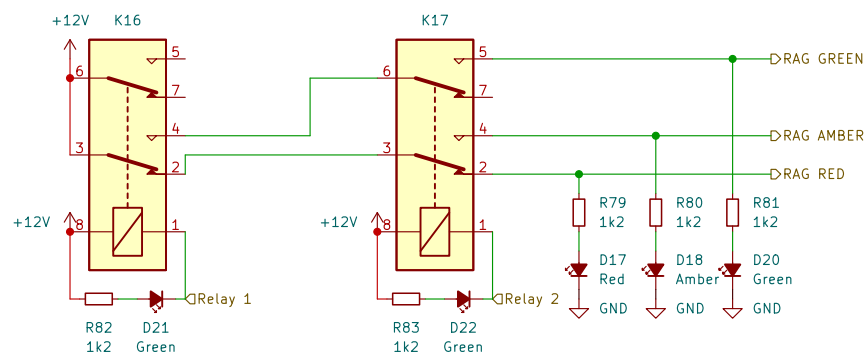
File: Cross Point Matrix 8 Relays (Low Current).kicad_scn

Title: CIB PCB

Size: A4 Date: 2022-05-27

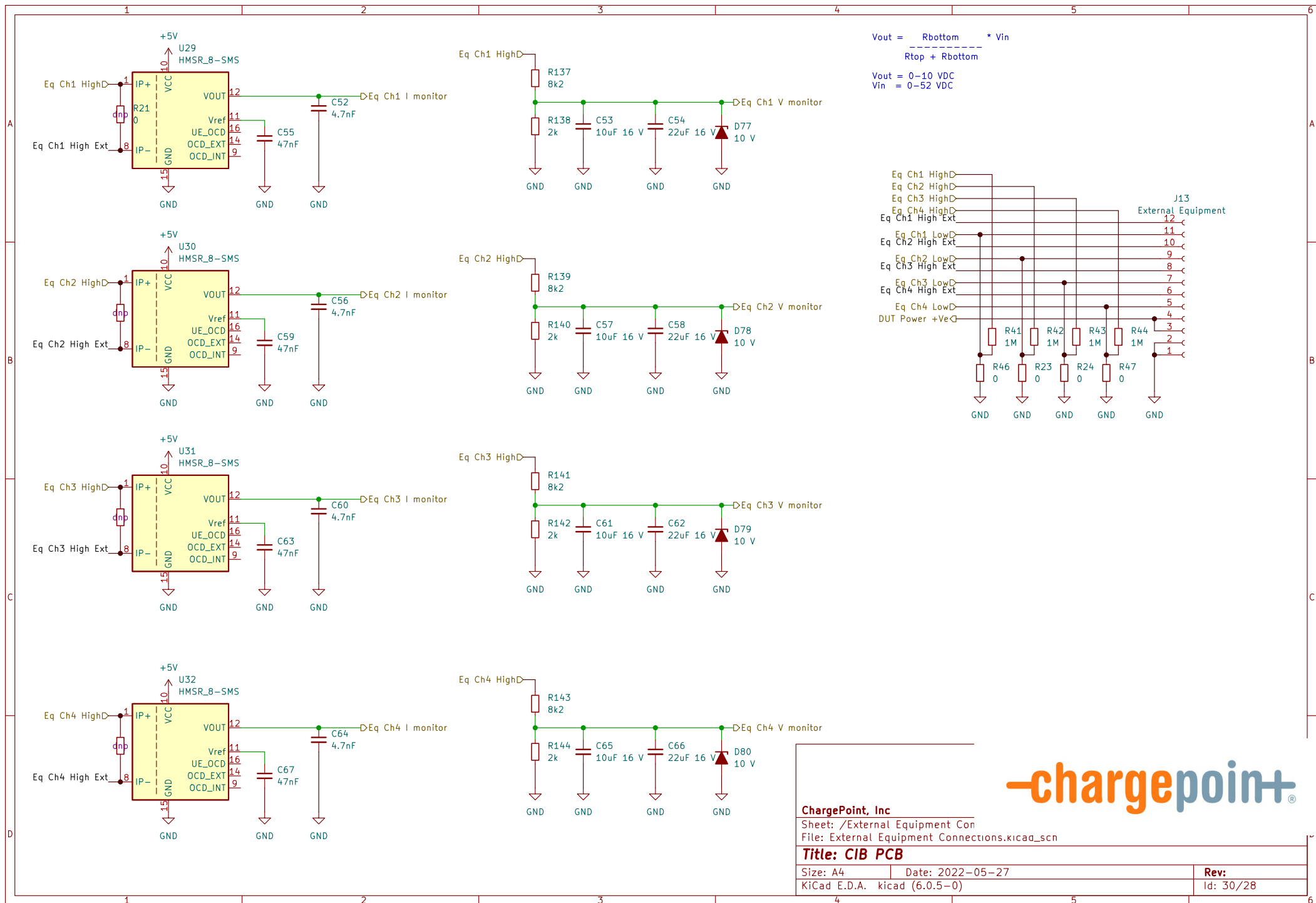
KiCad E.D.A. kicad (6.0.5-0)

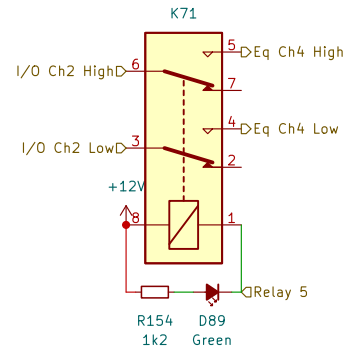
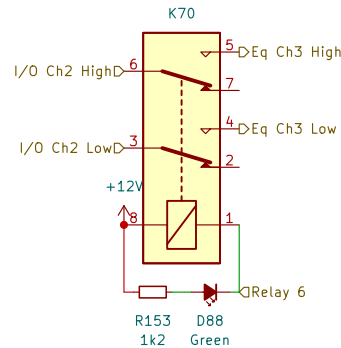
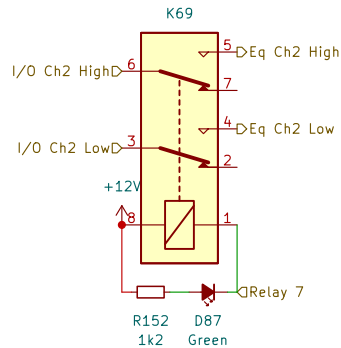
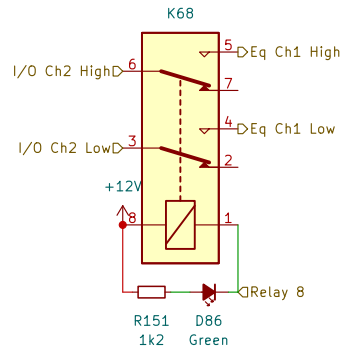
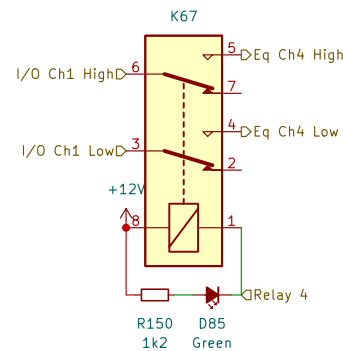
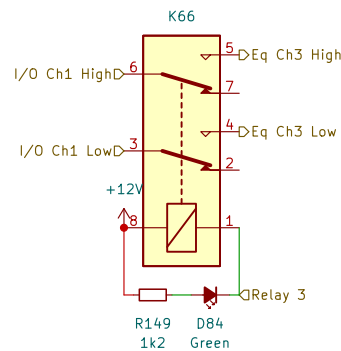
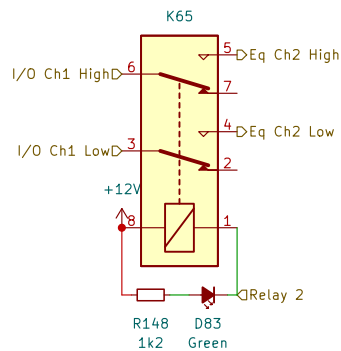
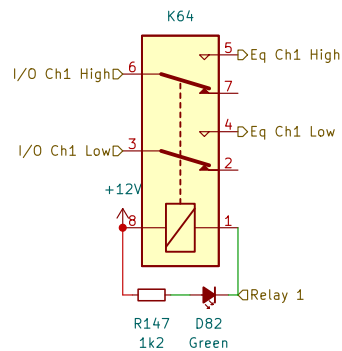
Rev:
Id: 26/28



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Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.5-0)		Id: 28/28





These relays are capable of switching upto 16 A
Parker Components PN# PC375-2C-12S4-X
Digikey PN# 2634-PC375-2C-12S4-X-ND
Relay 16 A DPDT (2 Form C) 12 VDC Coil



ChargePoint, Inc

Sheet: /Cross Point Matrix/Cro

File: Cross Point Matrix 8 Relays (High Current).kicad_scn

Title: CIB PCB

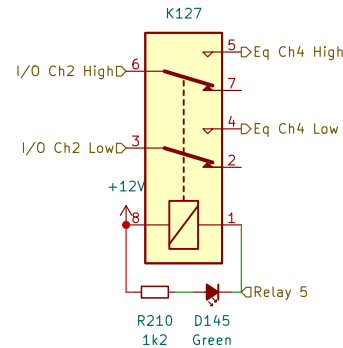
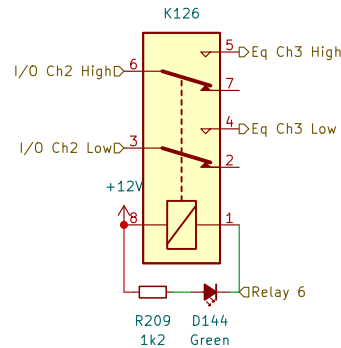
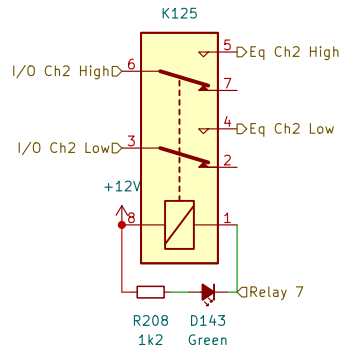
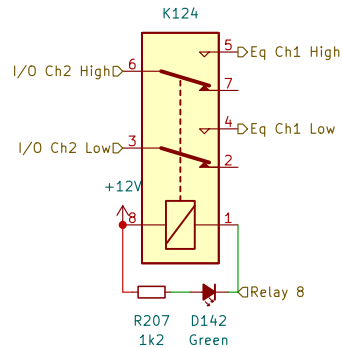
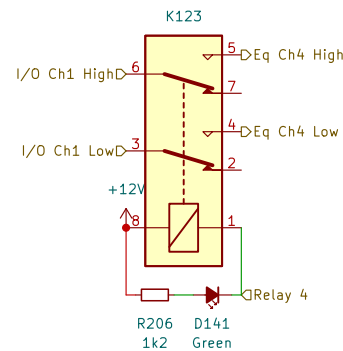
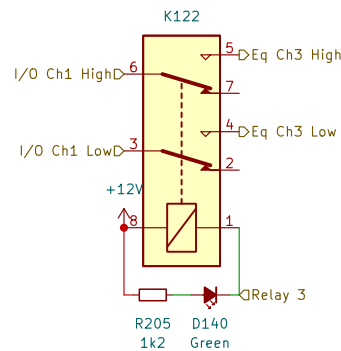
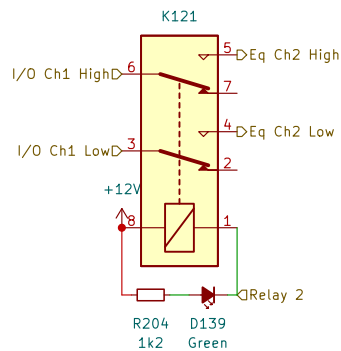
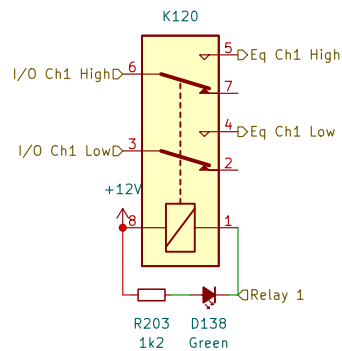
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KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: #/28

ix 8 Re



These relays are capable of switching upto 16 A
 Picker Components PN# PC375-2C-12S4-X
 Digikey PN# 2634-PC375-2C-12S4-X-ND
 Relay 16 A DPDT (2 Form C) 12 VDC Coil



ChargePoint, Inc

Sheet: /Cross Point Matrix/Cro

File: Cross Point Matrix 8 Relays (High Current).kicad_scn

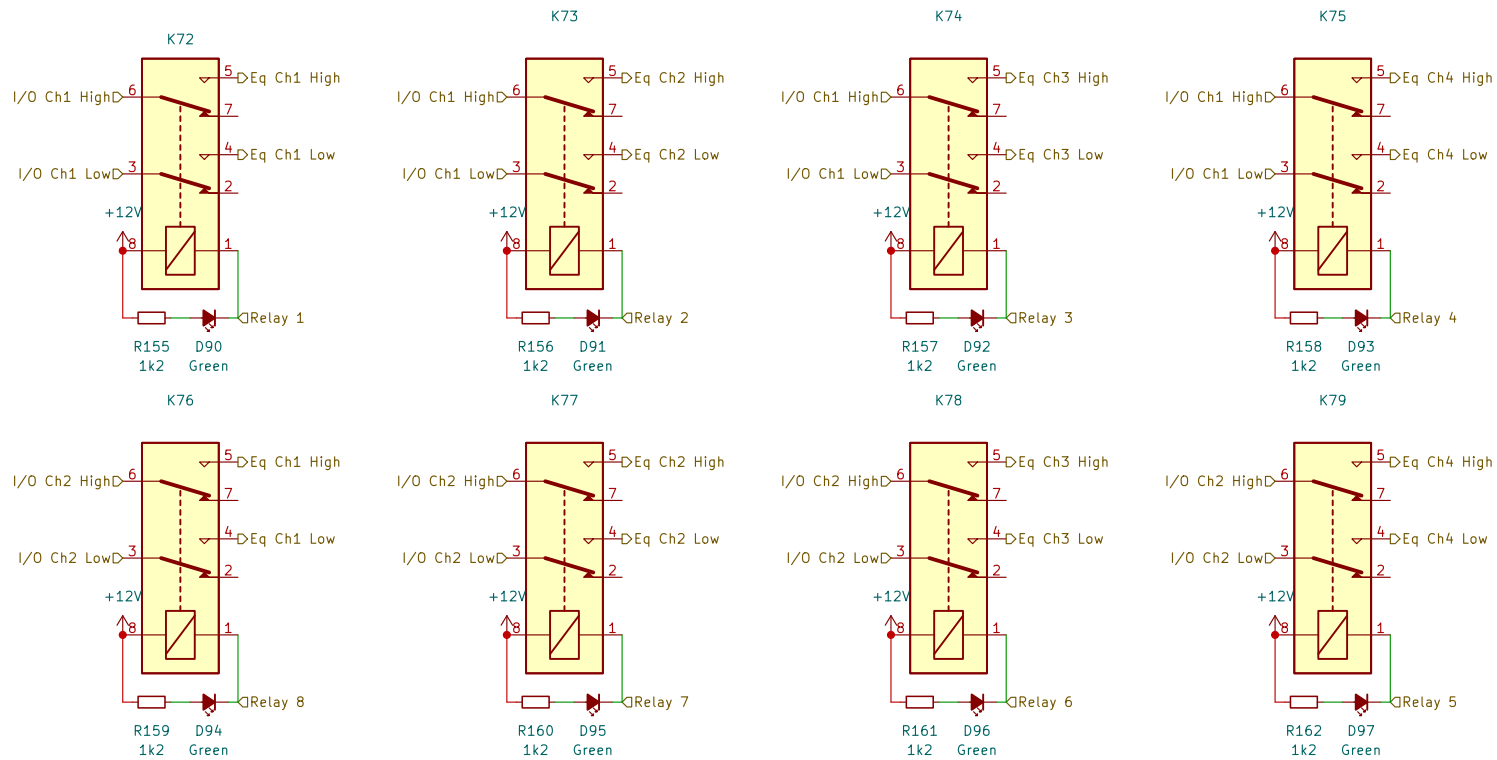
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KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: #/28



These relays are capable of switching upto 8 A
 Omron PN# G2RL24CFDC12
 Digi-Key PN# Z3088-ND
 Relay 8 A DPDT (2 Form C) 12 VDC Coil



ChargePoint, Inc

Sheet: /Cross Point Matrix/Cro:

File: Cross Point Matrix 8 Relays (med Current).kicad_scn

Title: CIB PCB

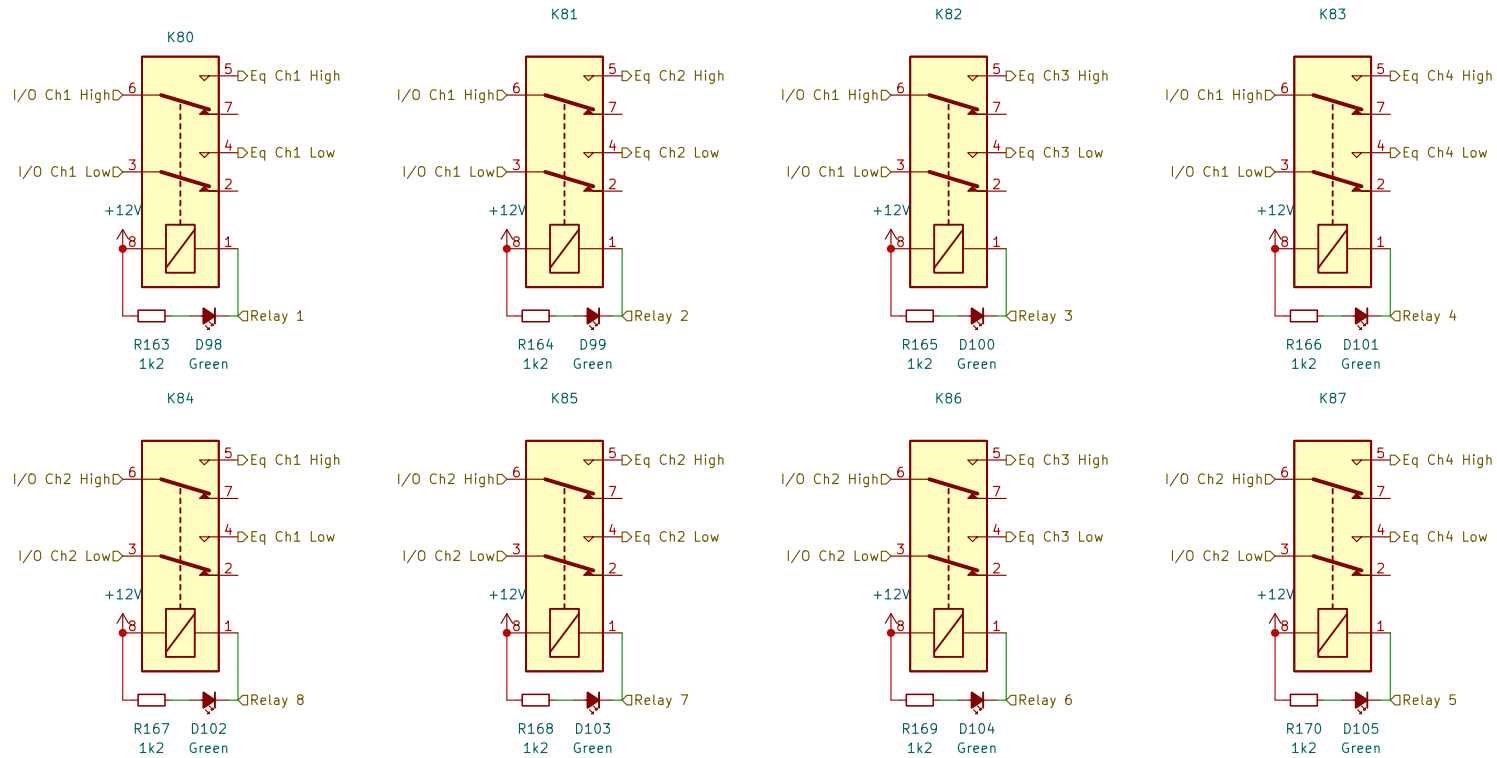
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KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: #/28

x 8 Re



These relays are capable of switching upto 8 A
 Omron PN# G2RL24CFDC12
 Digi-Key PN# Z3088-ND
 Relay 8 A DPDT (2 Form C) 12 VDC Coil



ChargePoint, Inc

Sheet: /Cross Point Matrix/Cro

File: Cross Point Matrix 8 Relays (med Current).kicad_scn

Title: CIB PCB

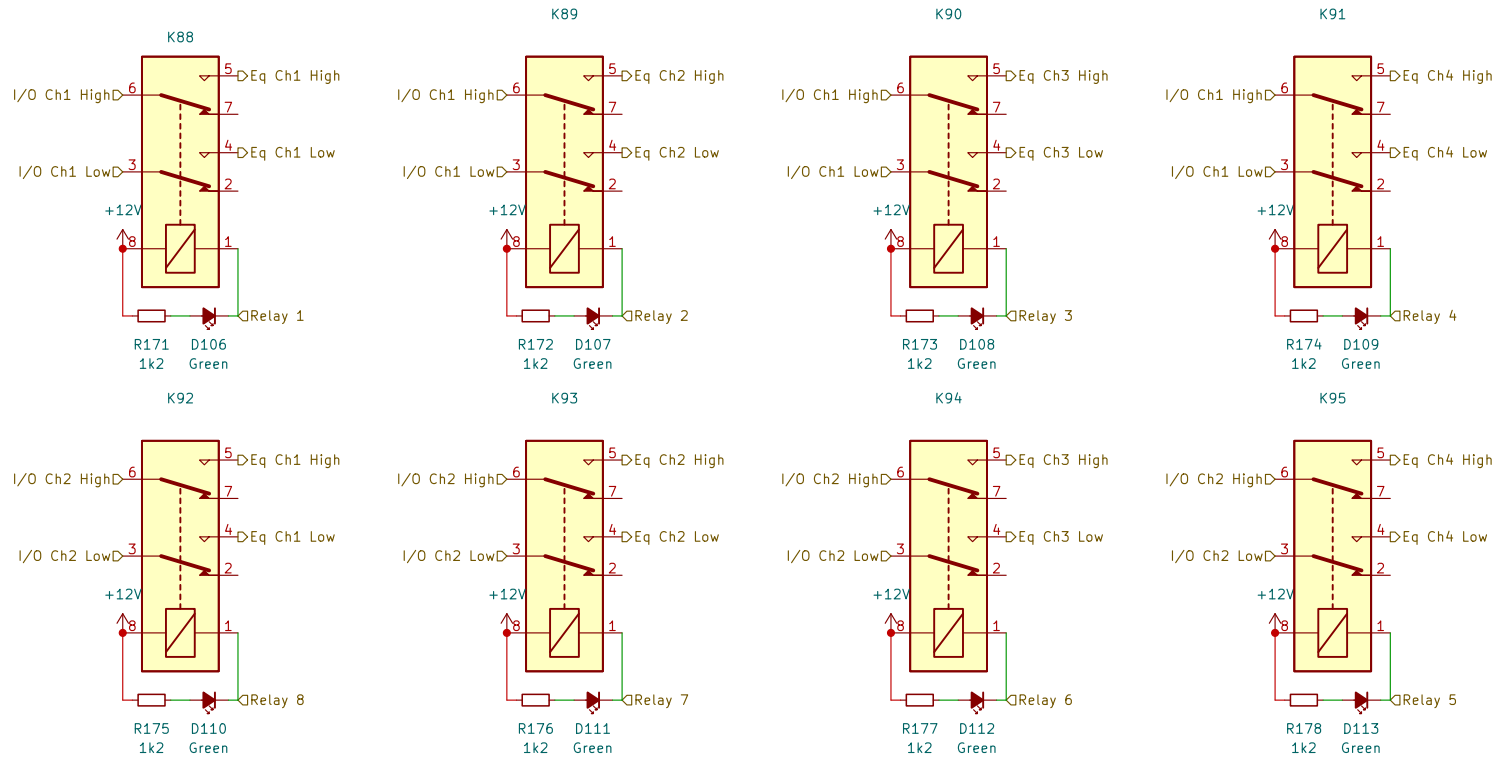
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KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: #/28

x 8 Re



These relays are capable of switching upto 8 A
 Omron PN# G2RL24CFDC12
 Digi-Key PN# Z3088-ND
 Relay 8 A DPDT (2 Form C) 12 VDC Coil



ChargePoint, Inc

Sheet: /Cross Point Matrix/Cro:

File: Cross Point Matrix 8 Relays (med Current).kicad_scn

Title: CIB PCB

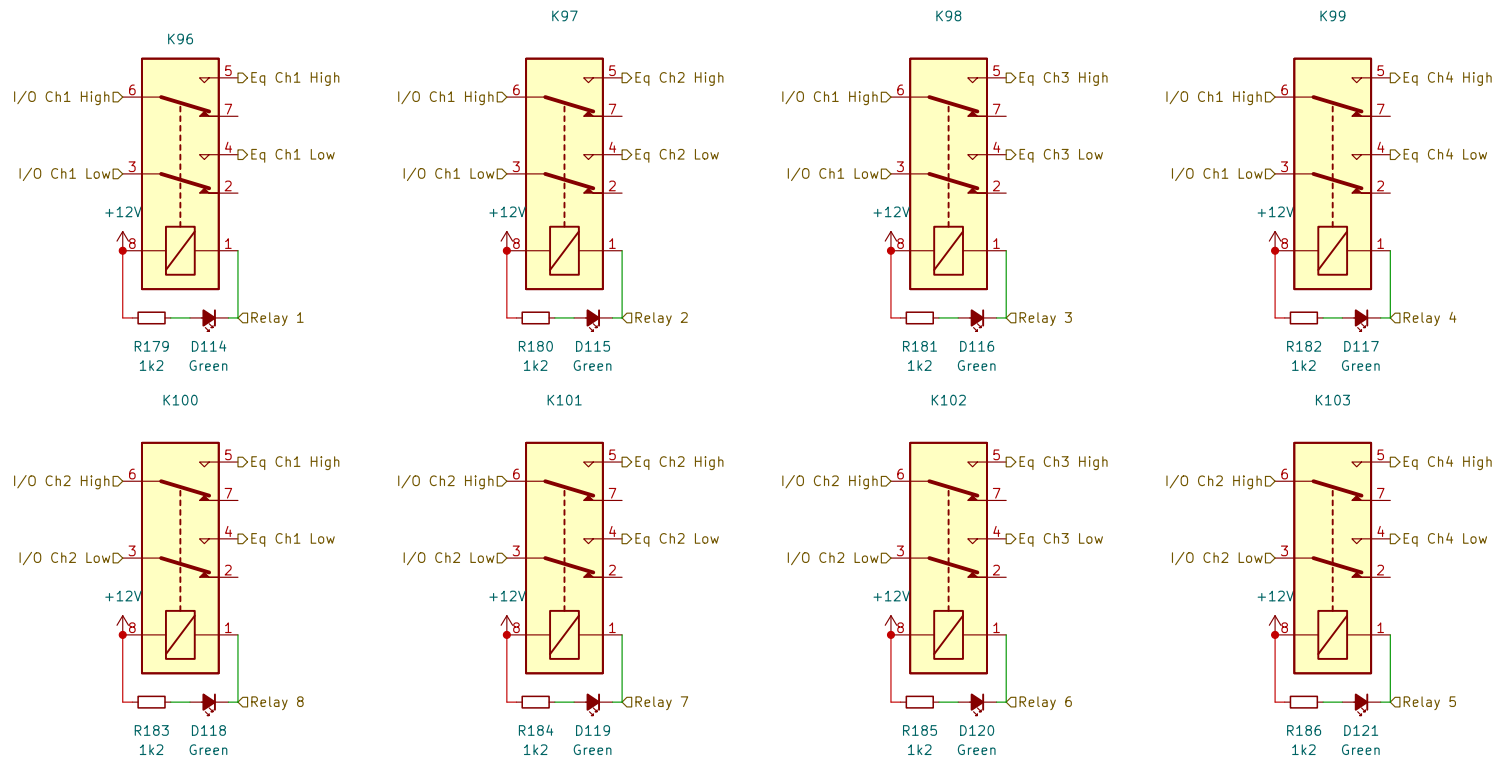
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KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: #/28

rix 8 R



These relays are capable of switching upto 8 A
 Omron PN# G2RL24CFDC12
 Digi-Key PN# Z3088-ND
 Relay 8 A DPDT (2 Form C) 12 VDC Coil



ChargePoint, Inc

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File: Cross Point Matrix 8 Relays (med Current).kicad_scn

Title: CIB PCB

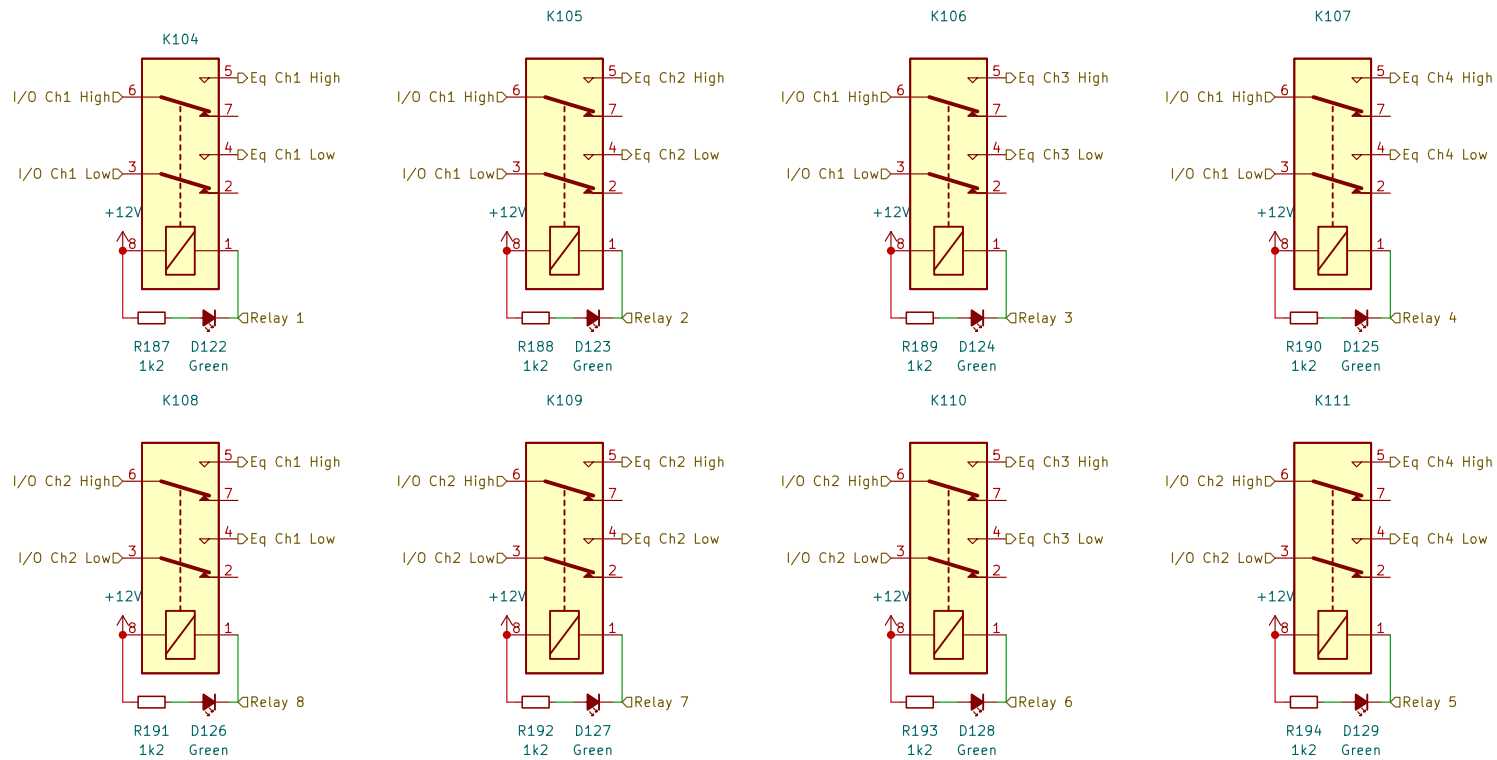
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KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: #/28

rix 8 R



These relays are capable of switching upto 8 A
 Omron PN# G2RL24CFDC12
 Digi-Key PN# Z3088-ND
 Relay 8 A DPDT (2 Form C) 12 VDC Coil



ChargePoint, Inc

Sheet: /Cross Point Matrix/Cro:

File: Cross Point Matrix 8 Relays (med Current).kicad_scn

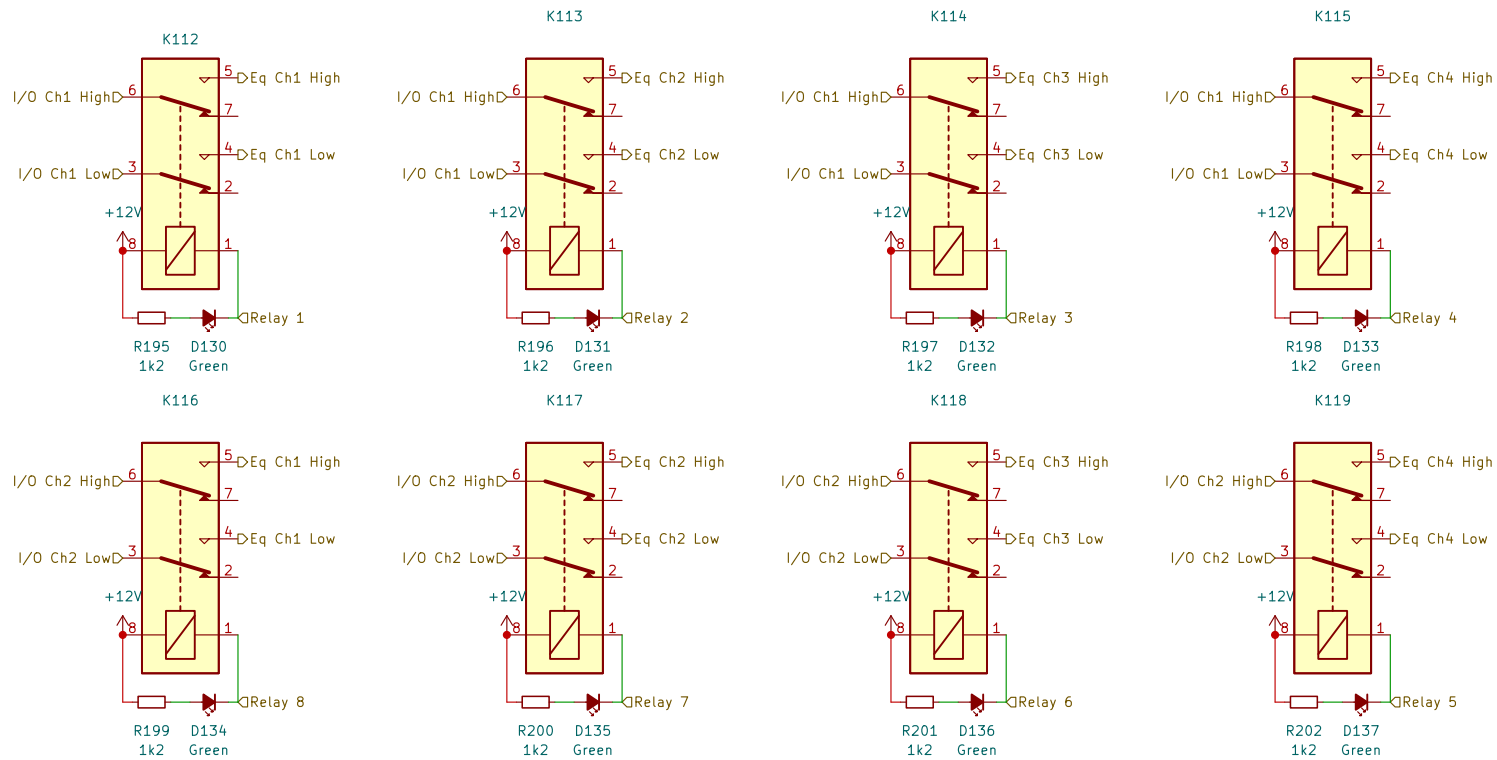
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KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: #/28



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 Digi-Key PN# Z3088-ND
 Relay 8 A DPDT (2 Form C) 12 VDC Coil



ChargePoint, Inc

Sheet: /Cross Point Matrix/Cro:

File: Cross Point Matrix 8 Relays (med Current).kicad_scn

Title: CIB PCB

Size: A4 Date: 2022-05-27

KiCad E.D.A. kicad (6.0.5-0)

Rev:

Id: #/28