
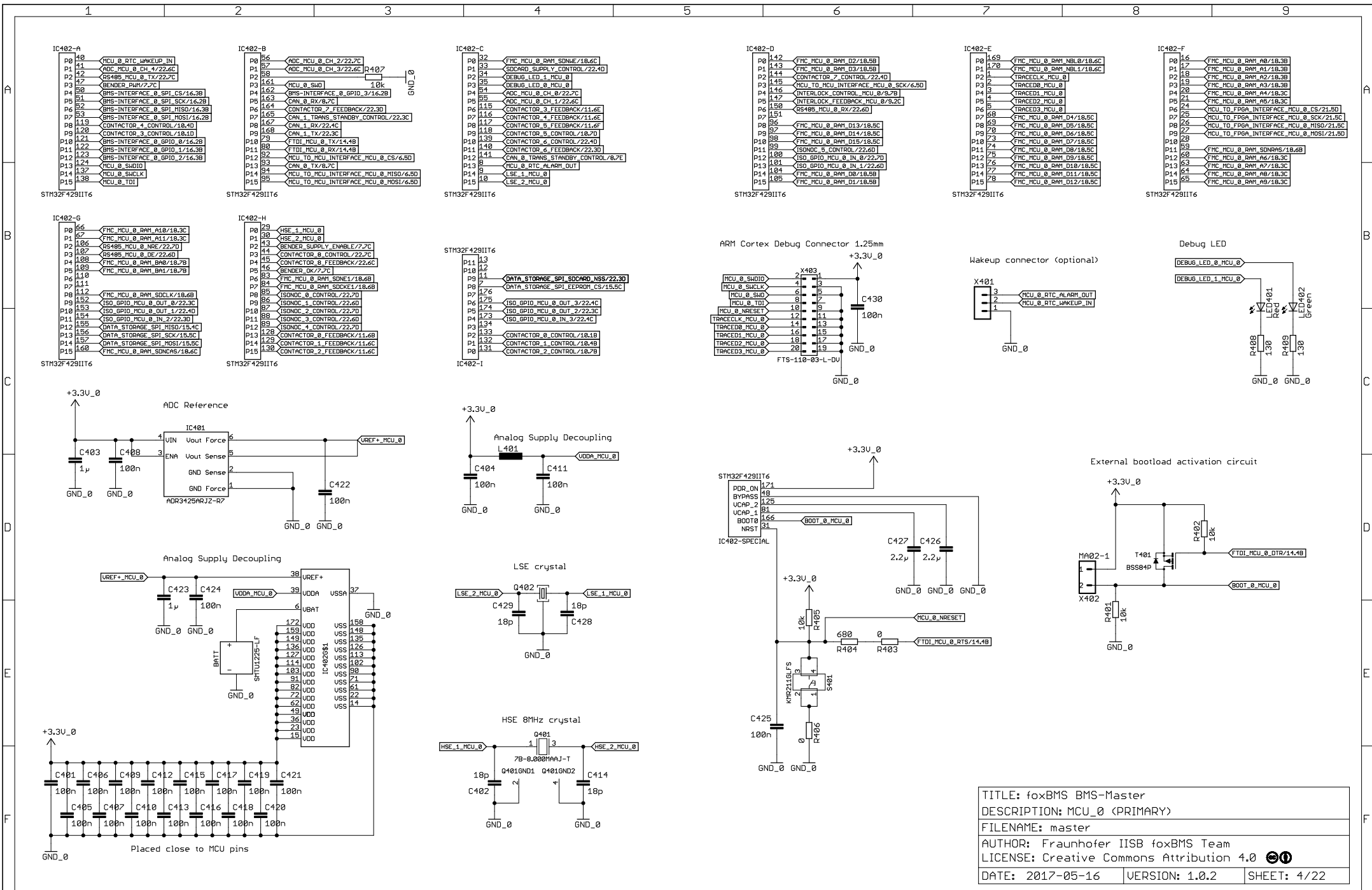
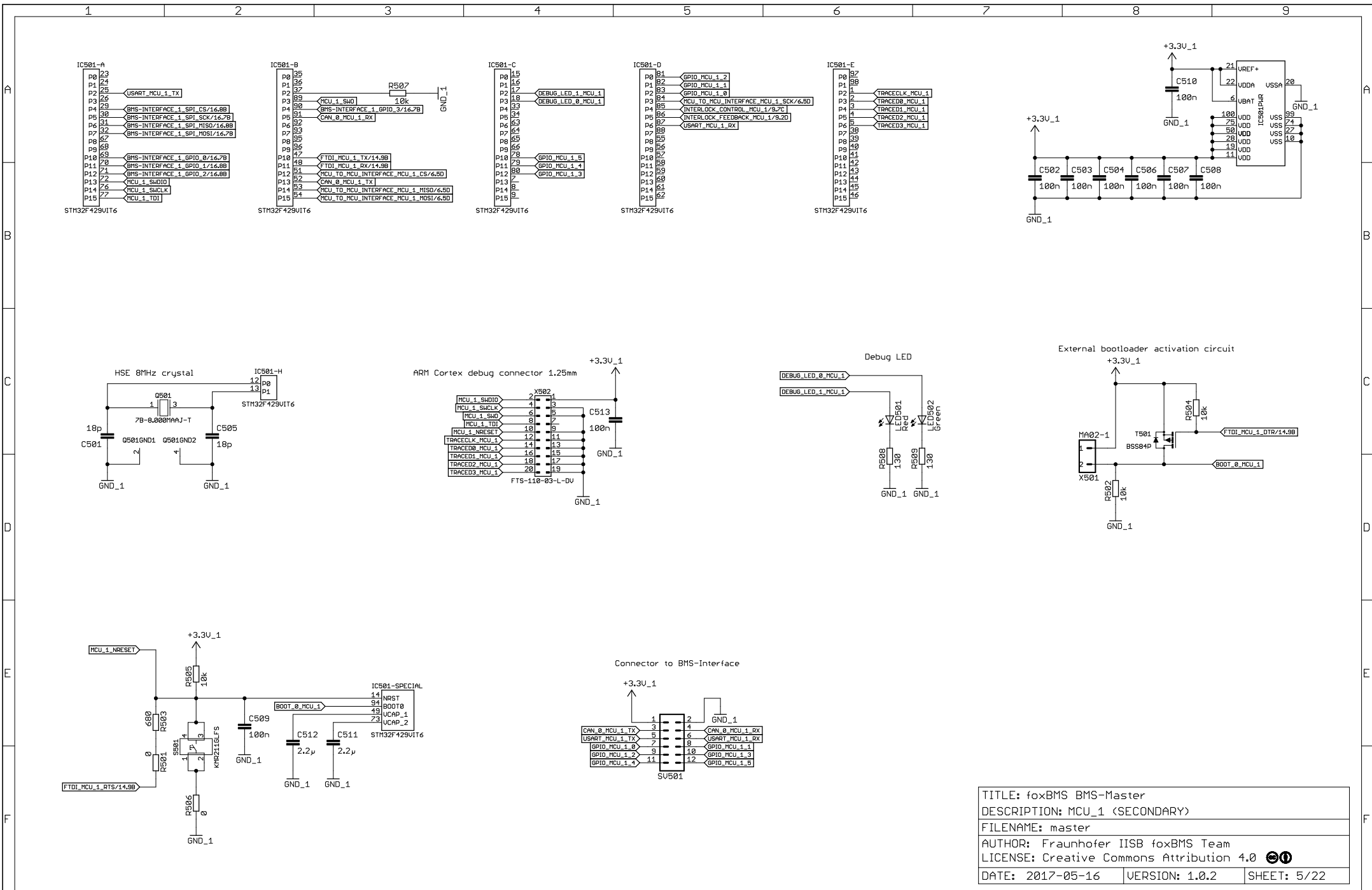
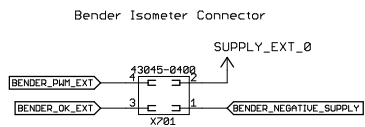


TITLE: foxBMS BMS-Master		
DESCRIPTION: SUPPLY_1		
FILENAME: master		
AUTHOR: Fraunhofer IISB foxBMS Team		
LICENSE: Creative Commons Attribution 4.0 		
DATE: 2017-05-16	VERSION: 1.0.2	SHEET: 3/22



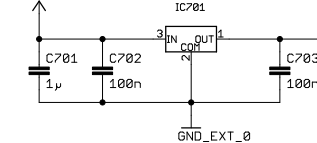






Onboard supply

SUPPLY\_EXT\_0



Status Signal  
from Bender Isometer

BENDER\_OK\_EXT

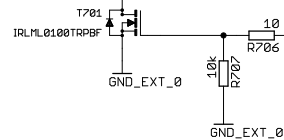
Diagnostic Signal  
from Bender Isometer  
(PWM coded)

BENDER\_PWM\_EXT

Solder jumper:  
open for Bender IR155-3203 (LS)  
closed for Bender IR155-3204/-3210 (HS)

BENDER\_NEGATIVE\_SUPPLY

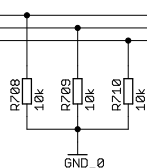
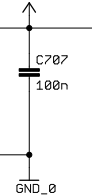
Bender Supply LS Switch



IC702NC1  
IC702NC2

IC702  
ADUM3301ARW

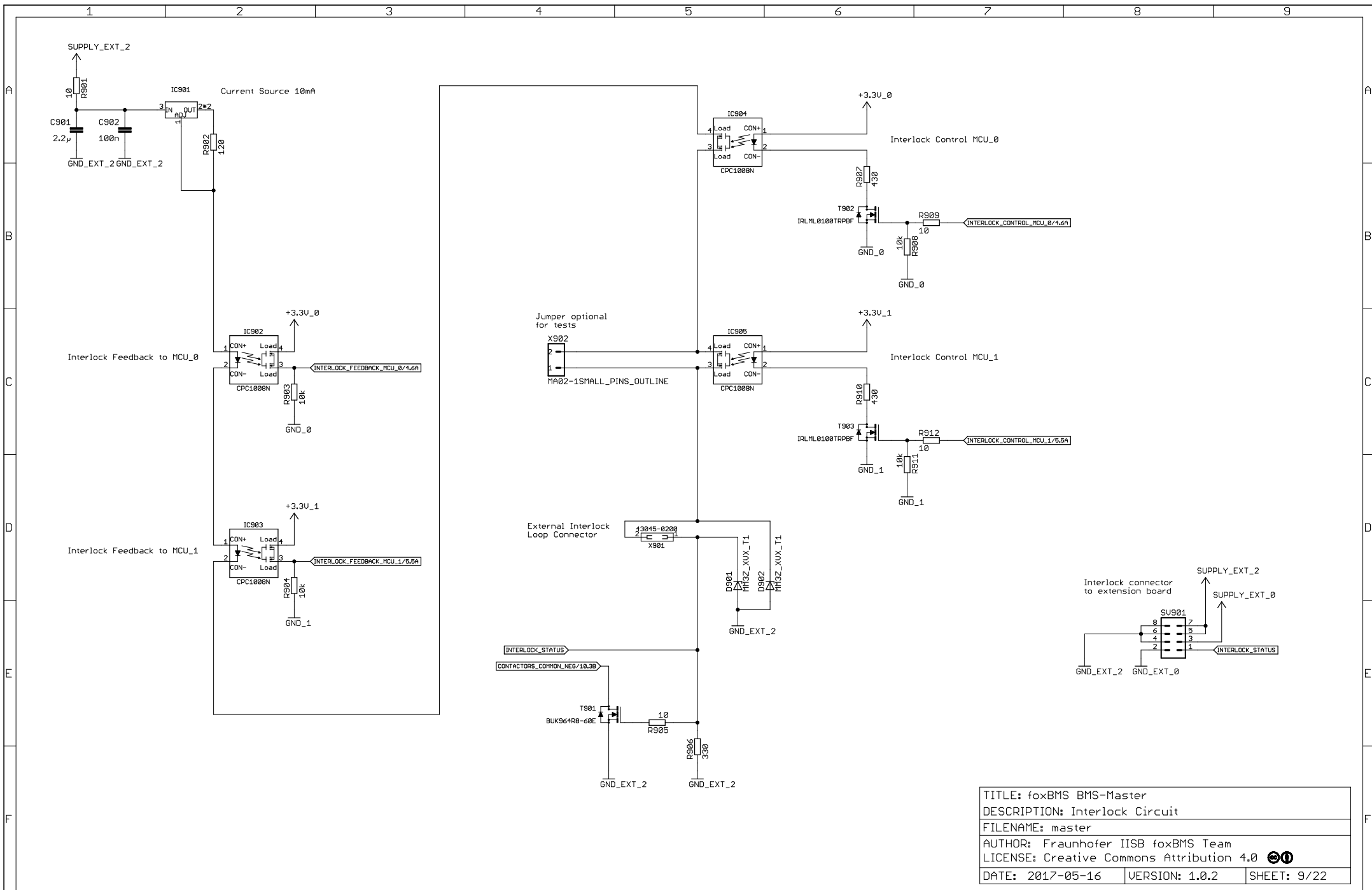
+3.3V\_0



TITLE: foxBMS BMS-Master		
DESCRIPTION: BENDER Isometer Interface		
FILENAME: master		
AUTHOR: Fraunhofer IISB foxBMS Team		
LICENSE: Creative Commons Attribution 4.0		
DATE: 2017-05-16	VERSION: 1.0.2	SHEET: 7/22

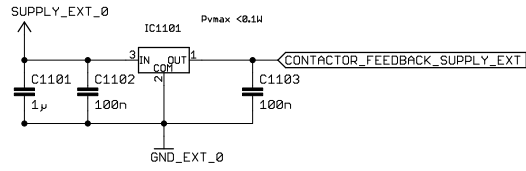




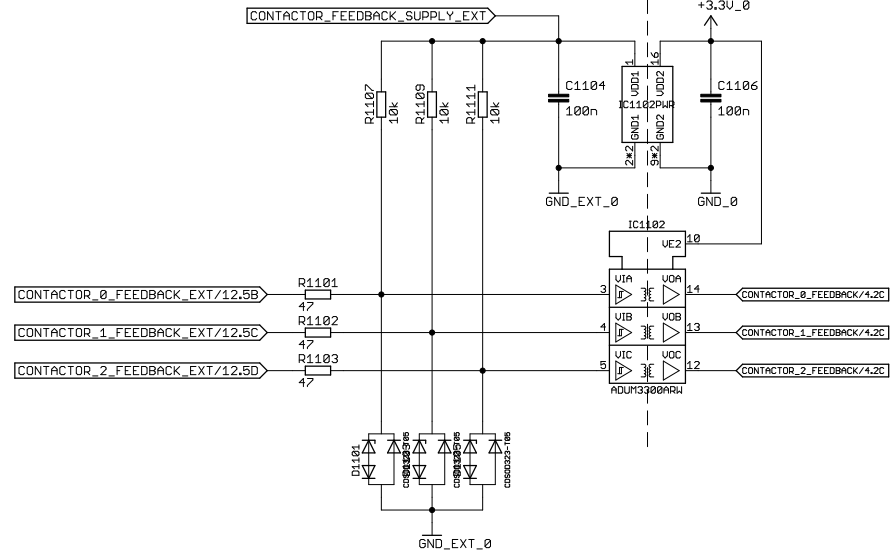




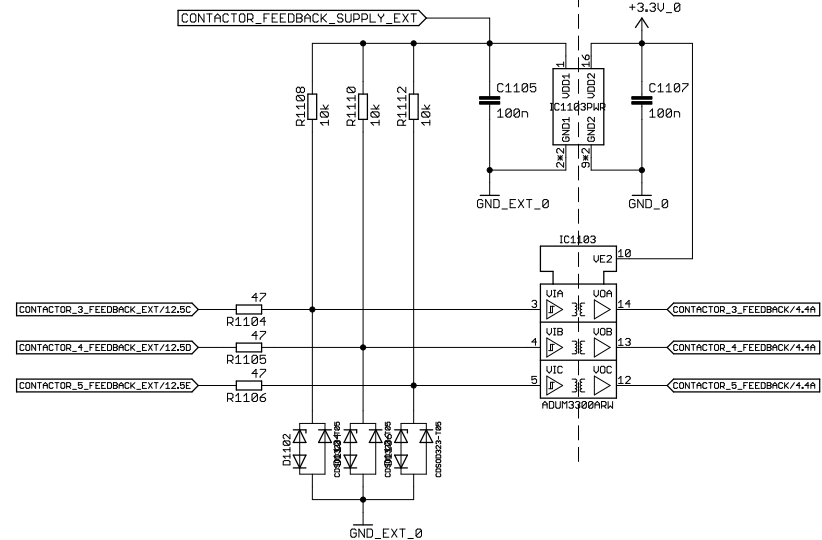
# Contactor Feedback Supply from External Supply




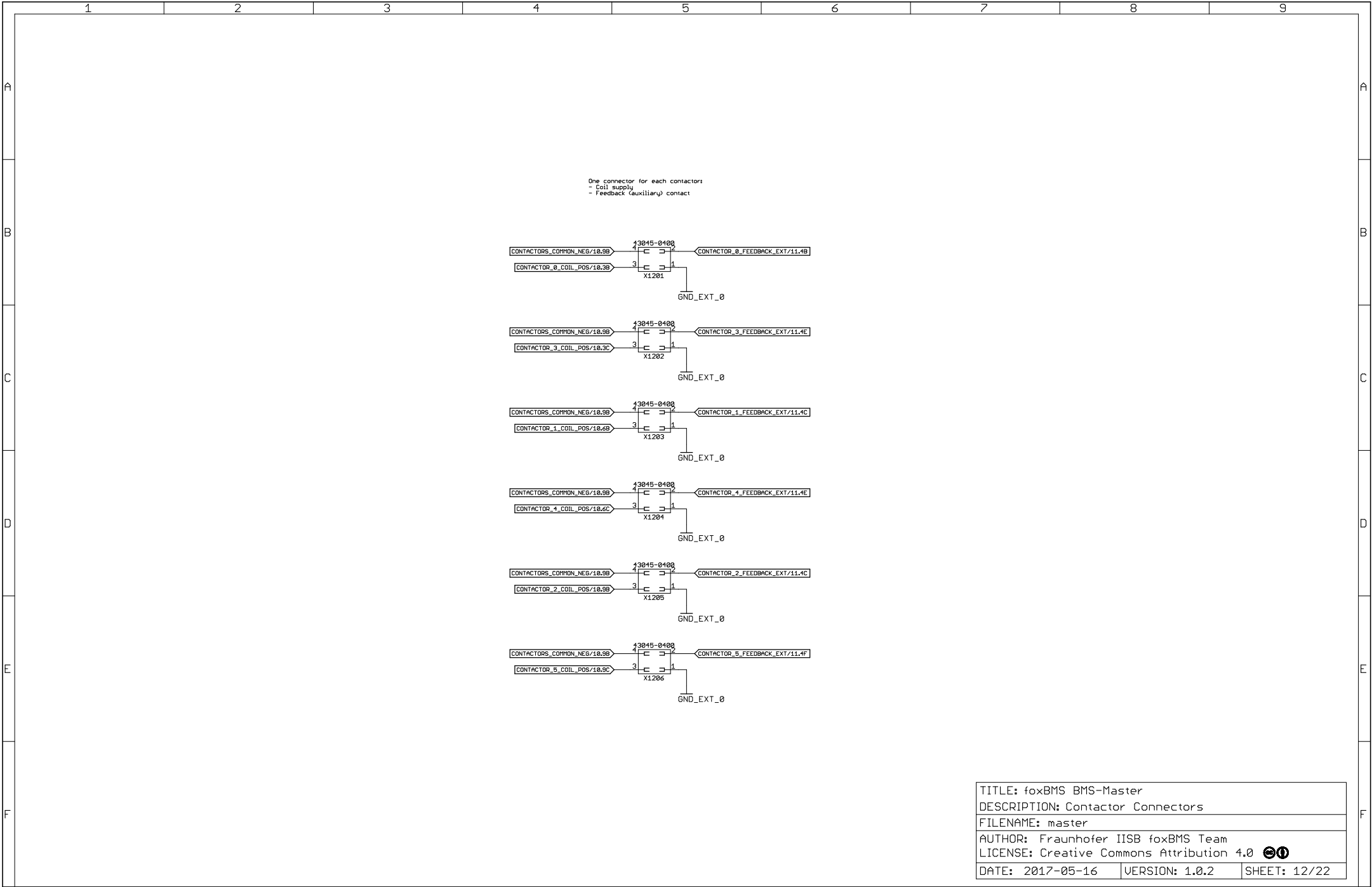
## Contactor Feedback Isolation 0 to 2




## Contactor Feedback Isolation 3 to 5




TITLE: foxBMS BMS-Master		
DESCRIPTION: Contactor Feedback		
FILENAME: master		
AUTHOR: Fraunhofer IISB foxBMS Team		
LICENSE: Creative Commons Attribution 4.0 		
DATE: 2017-05-16	VERSION: 1.0.2	SHEET: 11/22



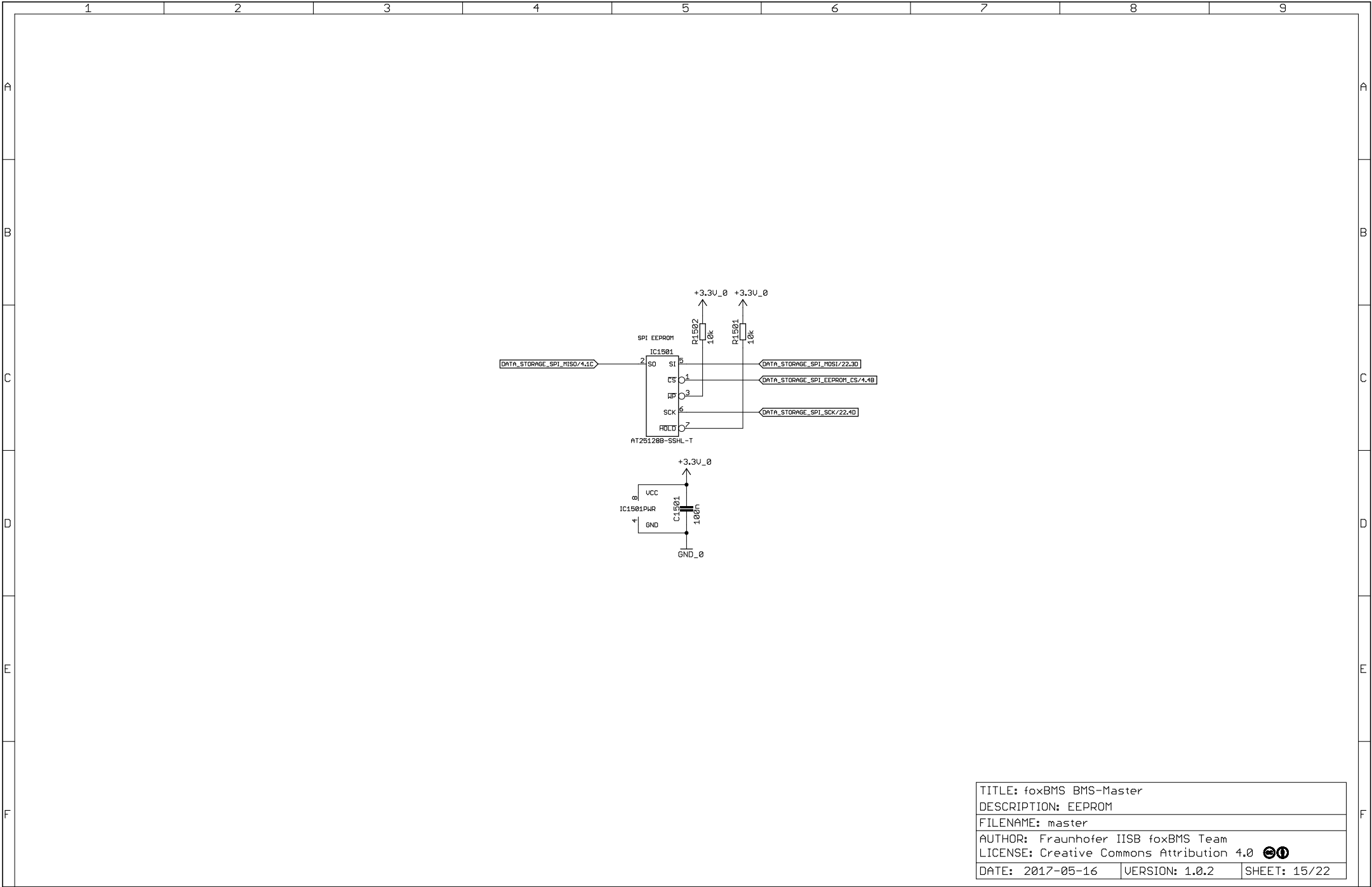
TITLE: foxBMS BMS-Master		
DESCRIPTION: Contactor Connectors		
FILENAME: master		
AUTHOR: Fraunhofer IISB foxBMS Team		
LICENSE: Creative Commons Attribution 4.0 		
DATE: 2017-05-16	VERSION: 1.0.2	SHEET: 12/22

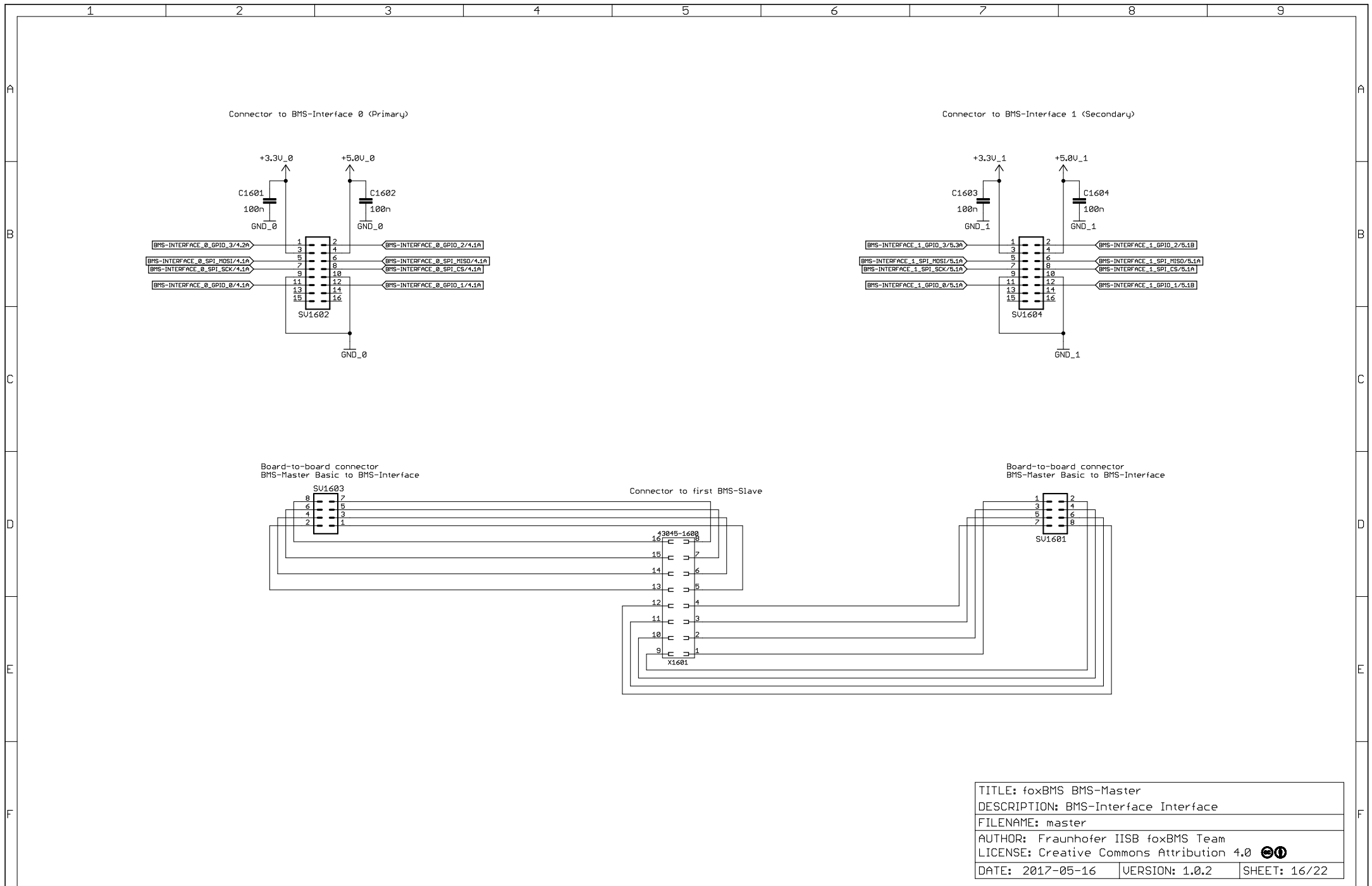
	1	2	3	4	5	6	7	8	9	
A										A
B										B
C										C
D										D
E										E
F										F


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TITLE: foxBMS BMS-Master		
DESCRIPTION: Isolated RS485		
FILENAME: master		
AUTHOR: Fraunhofer IISB foxBMS Team		
LICENSE: Creative Commons Attribution 4.0 		
DATE: 2017-05-16	VERSION: 1.0.2	SHEET: 13/22








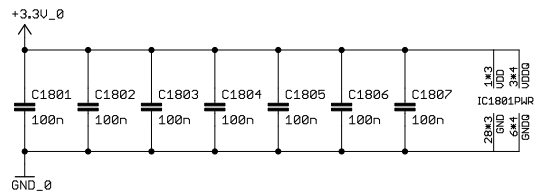
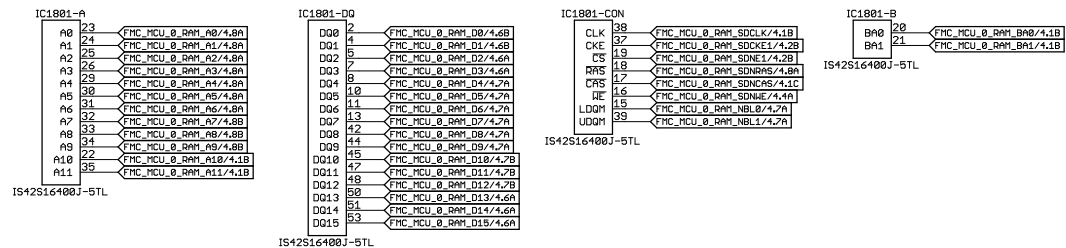
TITLE: foxBMS BMS-Master		
DESCRIPTION: BMS-Interface Interface		
FILENAME: master		
AUTHOR: Fraunhofer IISB foxBMS Team		
LICENSE: Creative Commons Attribution 4.0 		
DATE: 2017-05-16	VERSION: 1.0.2	SHEET: 16/22



	1	2	3	4	5	6	7	8	9	
A										A
B										B
C										C
D										D
E										E
F										F

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TITLE: foxBMS BMS-Master		
DESCRIPTION: Analog Inputs		
FILENAME: master		
AUTHOR: Fraunhofer IISB foxBMS Team		
LICENSE: Creative Commons Attribution 4.0 		
DATE: 2017-05-16	VERSION: 1.0.2	SHEET: 17/22




TITLE: foxBMS BMS-Master		
DESCRIPTION: 8MB SDRAM		
FILENAME: master		
AUTHOR: Fraunhofer IISB foxBMS Team		
LICENSE: Creative Commons Attribution 4.0		
DATE: 2017-05-16	VERSION: 1.0.2	SHEET: 18/22

After STM32F429I-DISCO schematic (ST STM32F429 Discovery Evalboards)  
same 8MB SDRAM, same interface and pins


	1	2	3	4	5	6	7	8	9	
A										A
B										B
C										C
D										D
E										E
F										F

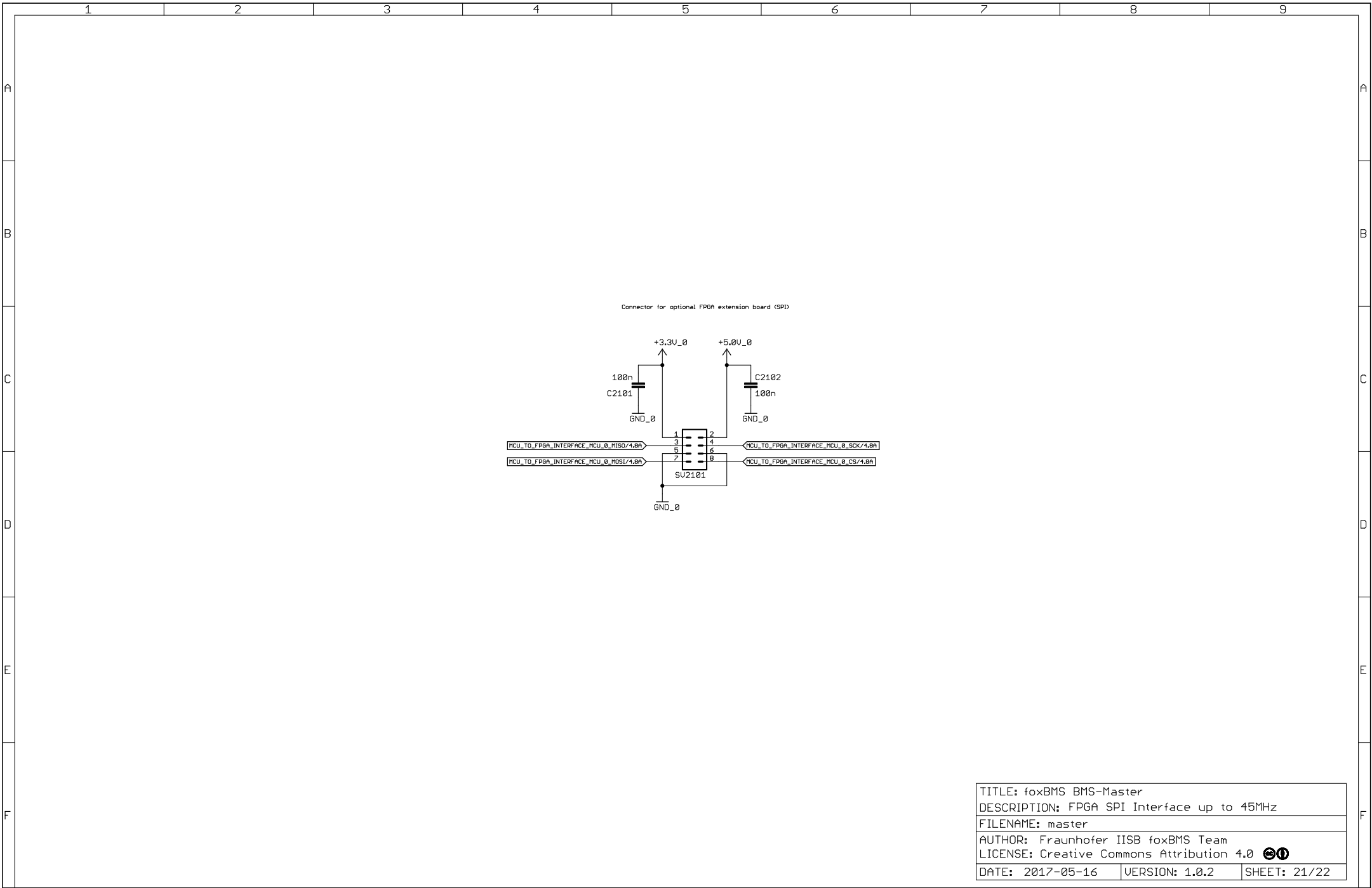
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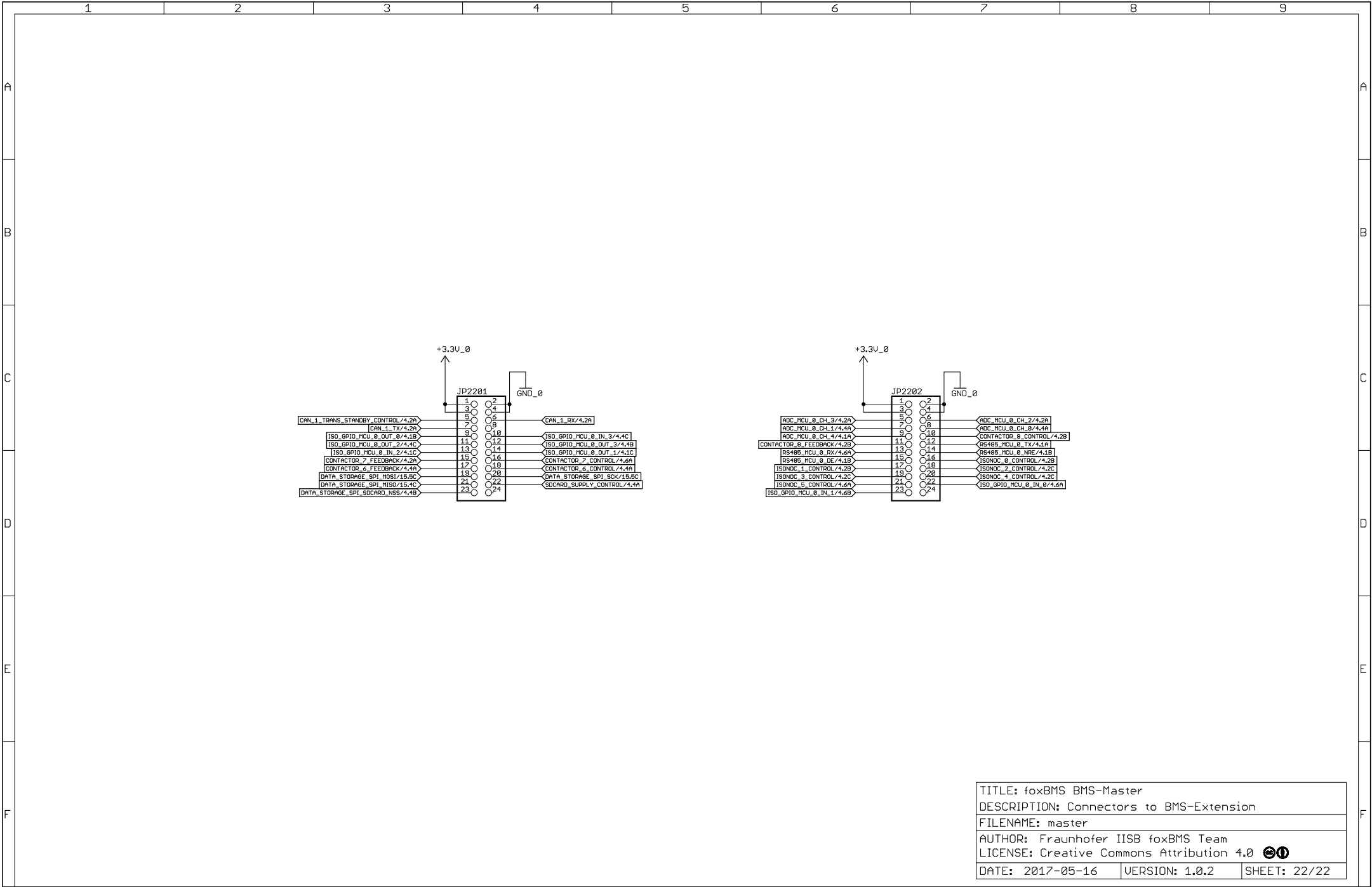
TITLE: foxBMS BMS-Master		
DESCRIPTION: Isolated GPIO 4x In / 4x Out		
FILENAME: master		
AUTHOR: Fraunhofer IISB foxBMS Team		
LICENSE: Creative Commons Attribution 4.0 		
DATE: 2017-05-16	VERSION: 1.0.2	SHEET: 19/22


	1	2	3	4	5	6	7	8	9	
A										A
B										B
C										C
D										D
E										E
F										F

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TITLE: foxBMS BMS-Master		
DESCRIPTION: Isolated Normally Open Contacts		
FILENAME: master		
AUTHOR: Fraunhofer IISB foxBMS Team		
LICENSE: Creative Commons Attribution 4.0 		
DATE: 2017-05-16	VERSION: 1.0.2	SHEET: 20/22





TITLE: foxBMS BMS-Master		
DESCRIPTION: Connectors to BMS-Extension		
FILENAME: master		
AUTHOR: Fraunhofer IISB foxBMS Team		
LICENSE: Creative Commons Attribution 4.0 		
DATE: 2017-05-16	VERSION: 1.0.2	SHEET: 22/22