

1 2 3 4

PVDD

2

3

4

PVDD

PVDD

PVDD

A

A

Q1

Q2

Q3

A

Q4

Q5

Q6

B

NT1
Net-TieNT2
Net-TieNT3
Net-Tie

C

C33
1000pFC35
1000pFC34
1000pF

C

R12
0.005R13
0.005R14
0.005

D

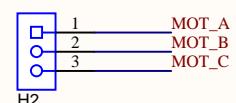
NT4
Net-TieNT5
Net-TieNT6
Net-Tie

D

SP1

SP2

SP3



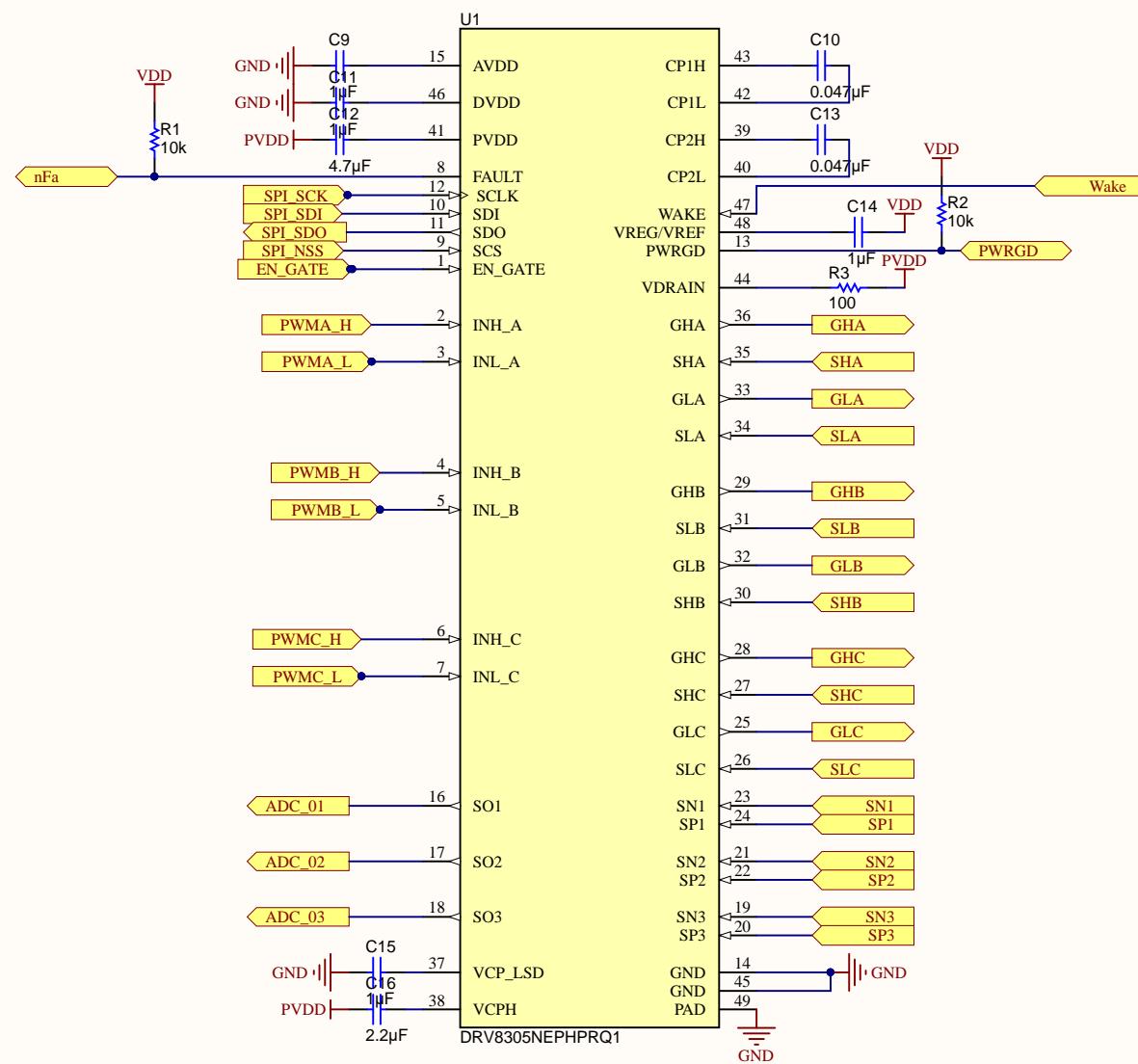
Title		
Size	Number	Revision
A4		
Date: 28.07.2017	Sheet of	
File: C:\Users...\Driver Stage.SchDoc	Drawn By:	

1

2

3

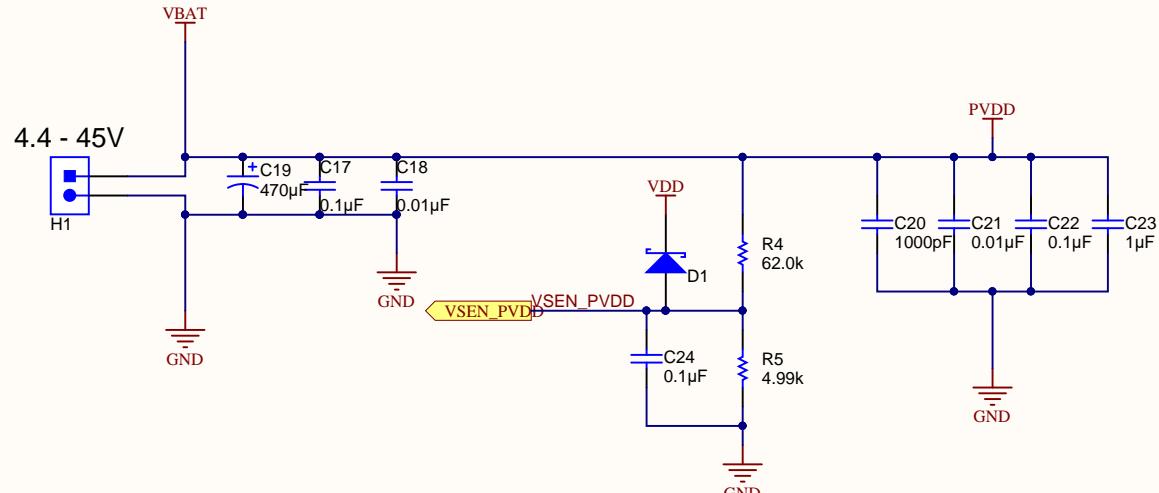
4



Title		
Size A4	Number	Revision
Date:	28.07.2017	Sheet of
File:	C:\Users\...\DRV8305-Q1.SchDoc	Drawn By:

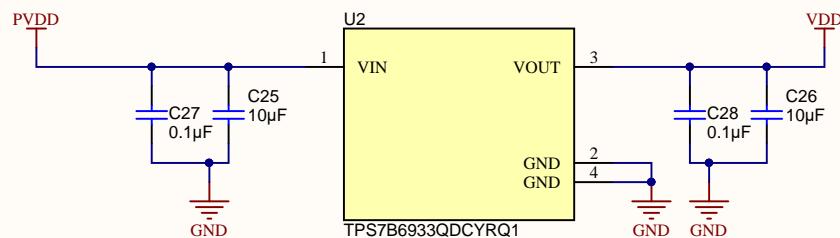
A

A



B

B



C

C

Title

Size

A4

Number

Revision

Date:

28.07.2017

Sheet of

File:

C:\Users\...\Power.SchDoc

Drawn By:

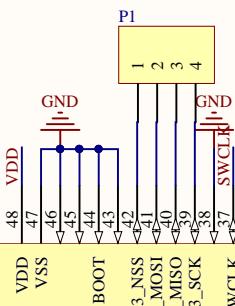
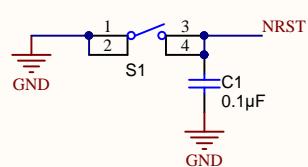
1

2

3

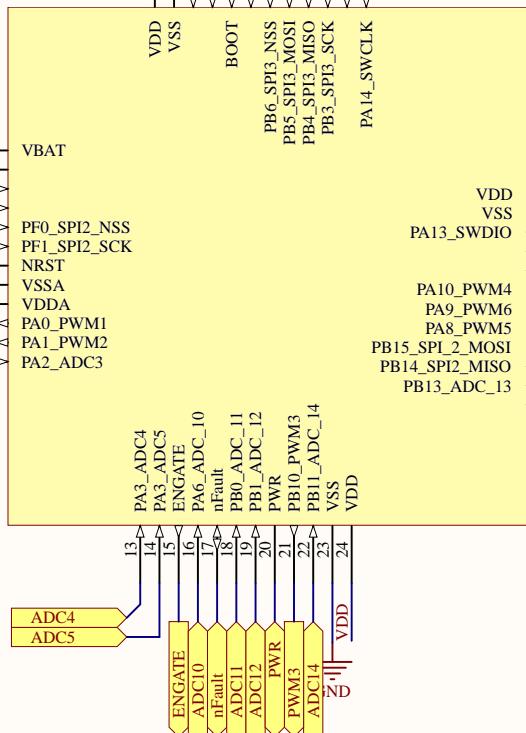
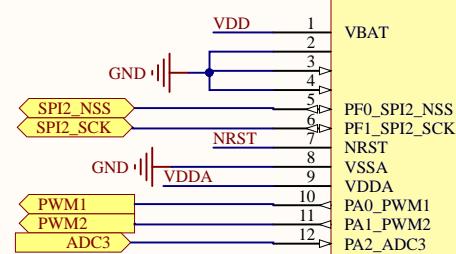
4

A

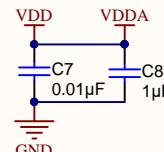
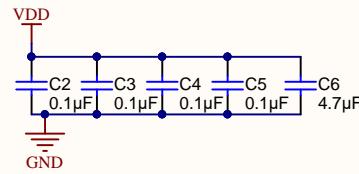


IC1
STM32F301C6

B



C



Title

Size

A4

Number

Revision

Date: 28.07.2017

Sheet of

File: C:\Users...\STM32F301C8.SchDoc

Drawn By:

1

2

3

4

A

B

C

D

A

A

B

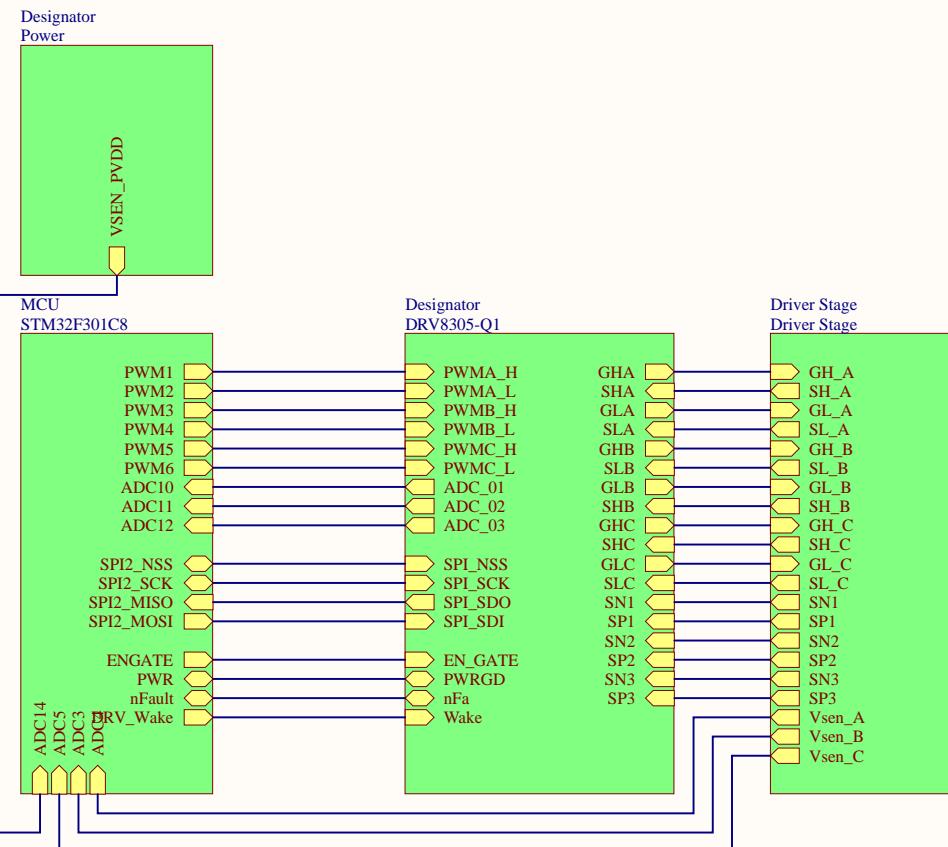
B

C

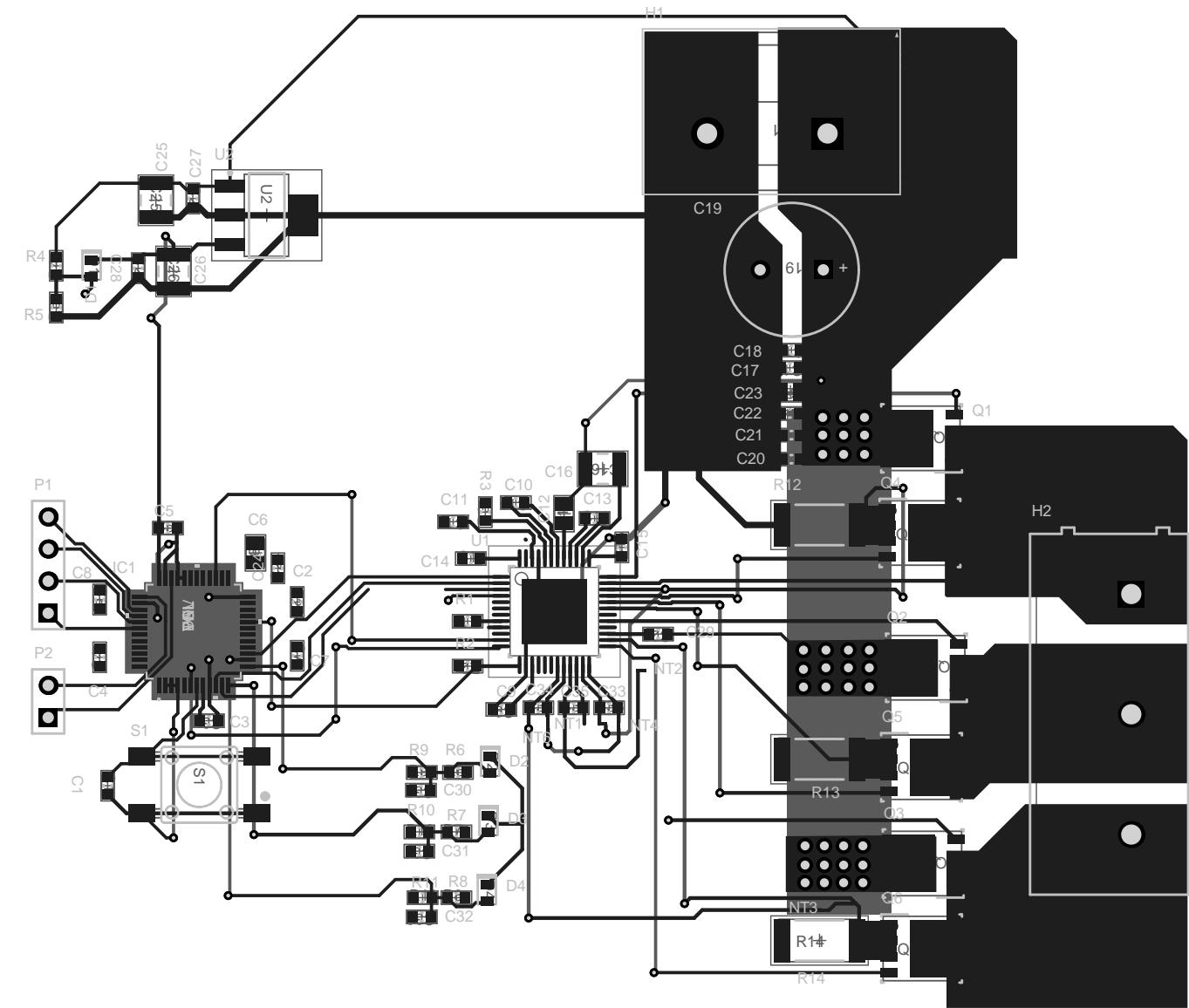
C

D

D



Title		
Size	Number	Revision
A4		
Date: 28.07.2017	Sheet of	
File: C:\Users...\Top.SchDoc		Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
C1608X7R1H104K	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0603	C1, C2, C3, C4, C5, C17, C22, C27, C28	0603L	C1608X7R1H104K	9
GRM21BR71A475KA73L	CAP, CERM, 4.7 μ F, 10 V, +/- 10%, X7R, 0805	C6, C12	0805L	GRM21BR71A475KA73L	2
C1608X8R1H103K	CAP, CERM, 0.01 μ F, 50 V, +/- 10%, X8R, 0603	C7	0603L	C1608X8R1H103K	1
C1608X7R1C105K	CAP, CERM, 1 μ F, 16 V, +/- 10%, X7R, 0603	C8, C9, C11, C14, C15	0603L	C1608X7R1C105K	5
C1608X7R1H473K	CAP, CERM, 0.047 μ F, 50 V, +/- 10%, X7R, 0603	C10, C13	0603L	C1608X7R1H473K	2
GRM32ER72A225KA35L	CAP, CERM, 2.2 μ F, 100 V, +/- 10%, X7R, 1210	C16	1210L	GRM32ER72A225KA35L	1
C1608X7R1H103K	CAP, CERM, 0.01 μ F, 50 V, +/- 10%, X7R, 0603	C18, C21	0603L	C1608X7R1H103K	2
ECA-1HM471	CAP, AL, 470 μ F, 50 V, +/- 20%, TH	C19	M_1000x2000	ECA-1HM471	1
C1608X7R1H102K	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	C20	0603L	C1608X7R1H102K	1
GRM21BR71H105KA12L	CAP, CERM, 1 μ F, 50 V, +/- 10%, X7R, 0805	C23	0805L	GRM21BR71H105KA12L	1
C0603C104J4RACTU	CAP, CERM, 0.1 μ F, 16 V, +/- 5%, X7R, 0603	C24, C30, C31, C32	0603L	C0603C104J4RACTU	4
GRM32ER71H106KA12L	CAP, CERM, 10 μ F, 50 V, +/- 10%, X7R, 1210	C25, C26	1210L	GRM32ER71H106KA12L	2
GRM188R72A182KA01D	CAP, CERM, 1800 pF, 100 V, +/- 10%, X7R, 0603	C29	0603L	GRM188R72A182KA01D	1
GRM188R71C102KA01D	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0603	C33, C34, C35	0603L	GRM188R71C102KA01D	3
CD0603-B0130L	Diode, Schottky, 35 V, 0.1 A, 0603 Diode	D1, D2, D3, D4	Diode_0603	CD0603-B0130L	4
OSTT7022150	Terminal Block, 30A, 9.52mm (.375) Pitch, 2-Pos, TH	H1	TERM_BLK_OSTT7022150	OSTT7022150	1
OSTT7032150	Terminal Block, 3x1, 9.52mm, TH	H2	On-Shore_OSTT7032150	OSTT7032150	1
STM32F301C6	STM32F301C6	IC1	LOFP48-7x7mm	STM32F301C6	1
	Header, 4-Pin	P1	HDR1X4	Header 4	1
	Header, 2-Pin	P2	HDR1X2	Header 2	1
CSD18540Q5B	MOSFET, N-CH, 60 V, 28 A, SON 5x6mm	Q1, Q2, Q3, Q4, Q5, Q6	TRANS_NexFET_Q5B	CSD18540Q5B	6
CRCW060310KOJNEA	RES, 10 k, 5%, 0.1 W, 0603	R1, R2	0603L	CRCW060310KOJNEA	2
CRCW0603100RJNEA	RES, 100, 5%, 0.1 W, 0603	R3	0603L	CRCW0603100RJNEA	1
RC0603FR-0762KL	RES, 62.0 k, 1%, 0.1 W, 0603	R4, R6, R7, R8	0603L	RC0603FR-0762KL	4
CRCW06034K99FKEA	RES, 4.99 k, 1%, 0.1 W, 0603	R5, R9, R10, R11	0603L	CRCW06034K99FKEA	4
LRMAP2512-R005FT4	RES SMD 0.005 OHM 1% 3W 2512	R12, R13, R14	2512	PMR100HZPFU5L00	3
4-1437565-1	Switch, Tactile, SPST-NO, 0.05A, 12V, SMT	S1	SW_FSM4JSMA	4-1437565-1	1
DRV8305NEPHPRQ1	Three Phase Automotive Gate Driver with Three Integrated Current Shunt Amplifiers and Voltage Regulator, PHP0048G	U1	PHP0048G_N	DRV83053EPHPRQ1	1
TPS7B6933QDCYRQ1	High Voltage Ultra Low	U2	DCY0004A_N	TPS7B6933QDCYRQ1	1