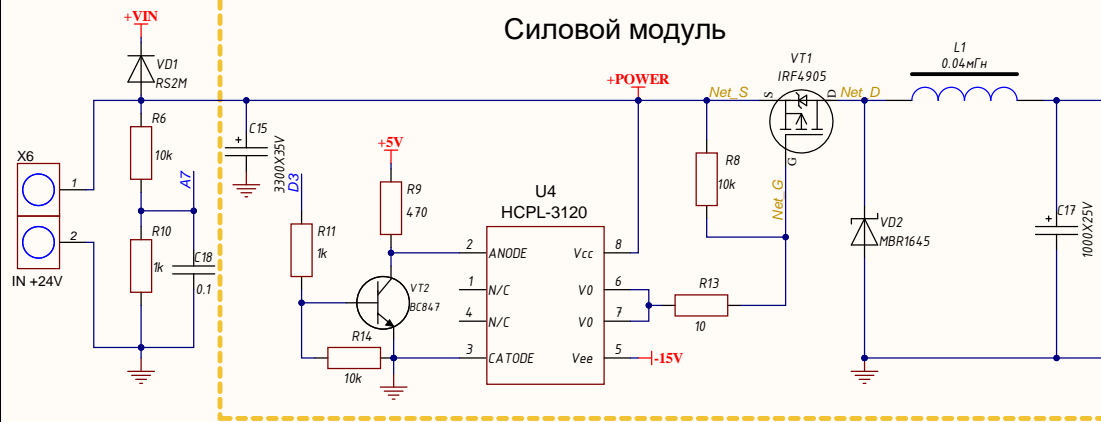Силовой модуль

Модуль разряда

Защита от КЗ и переполюсовки

Датчик температуры

Если вместо DS18B20 Термисторы NTC
TH1, R17 установить на 10k. Подключаем к пинам 2, 1
TH2 подключаем к пинам 4, 1

https://t.me/arduino_viktori
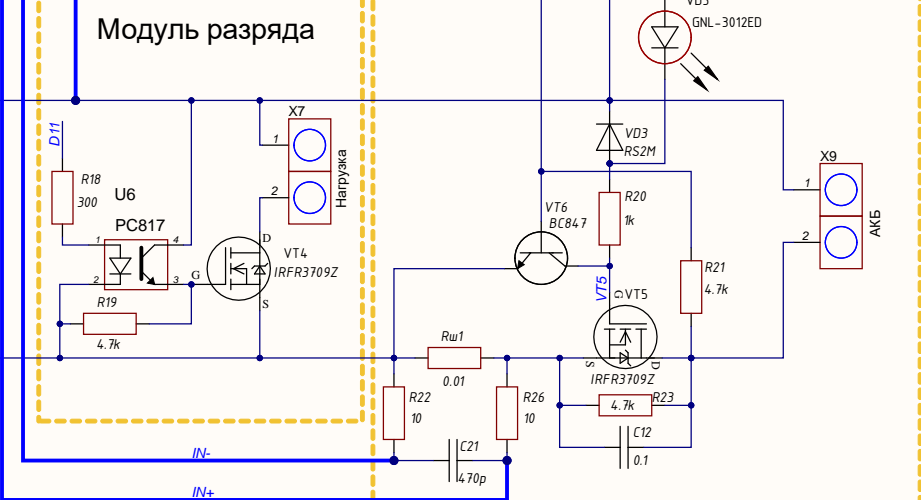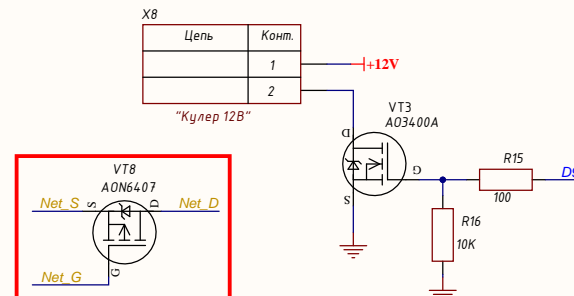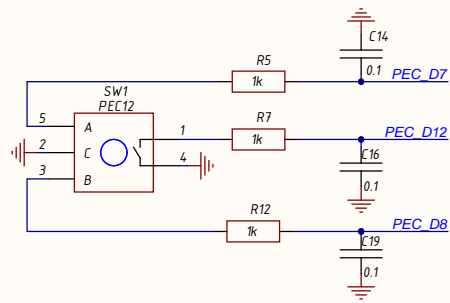
Comment	Description	Designator	Footprint	LibRef	Quantity
SPEAKER		BF1	CON: CWF-2	Buzzer	1
470X6,3V		C1	D8C3.5H12	AlumCap	1
0.1		C2, C3, C4, C5, C7, C8, C9, C10, C11, C12, C14, C16, C18, C19	CH0805C	Capacitor	14
1000X16V		C6	D10C5H20	AlumCap	1
22uF		C13, C20	CH1206C	Capacitor	2
3300X35V		C15	D16C7.5H25	AlumCap	1
1000X25V		C17	D10C5H20	AlumCap	1
470p		C21	CH0805C	Capacitor	1
BLM21		FB1, FB2	CH0805L	FB-1	2
0.04мГн		L1	POWER_L	TRANS	1
Arduino NANO		M1	ARDUINO NANA	Arduino nano	1
1k		R1, R2, R3, R4, R5, R7, R10, R11, R12, R20, R27	CH0805R	Resistor	11
10k		R6, R8, R14, R16, R25, R29, R31	CH0805R	Resistor	7
470		R9	CH0805R	Resistor	1
10		R13, R22, R26	CH0805R	Resistor	3
100		R15, R28	CH0805R	Resistor	2
4,7k		R17	CH0805R	Resistor	1
300		R18	CH0805R	Resistor	1
4.7k		R19, R21, R23	CH0805R	Resistor	3
200		R24	CH0805R	Resistor	1
0.01		Rш1	HUNT 10mm	Resistor	1
PEC12	Encoder	SW1	CON: CWF-5	PEC12	1
AMS1117-5V		U1	SOT223	AMS117	1
INA226 board		U2	CON: PBS-8	INA226	1
LM7812		U3	TO220_123	7809	1
HCPL-3120		U4	DIP-8	HCPL-3120	1
DS18B20		U5	CON: PLS-4	DS18B20_V1	1
PC817		U6, U7, U9	PC817-SMD	PC817	3
LM7915CT		U8	TO-220_90	7809	1
RS2M		VD1, VD3	SMB	Diod	2
MBR1645		VD2	TO-220_2pin	Diod Schottky	1
GNL-3012ED		VD4, VD5	DIOD: LED5MM_R	LED	2
IRF4905		VT1	TO220_123_V	P-KANAL	1
BC847		VT2, VT6, VT7	SOT23_123	N-P-N	3
AO3400A		VT3	SOT23_132	N-KANAL	1
IRFR3709Z		VT4, VT5	D2PAK	N-KANAL	2
AON6407		VT8	DFN5x6	P-KANAL	1
SW1 "Старт"		X1	CON: CWF-2	2-Connector	1
SW2 "+>"		X2	CON: CWF-2	2-Connector	1
SW3 "<-"		X3	CON: CWF-2	2-Connector	1
I2C LCD 1602\2004		X4	CON: CWF-4	4-Connector	1
SW4 "Стоп"		X5	CON: CWF-2	2-Connector	1
IN +24V		X6	CON: 2P_5mm	2-CON	1
Нагрузка		X7	CON: 2P_5mm	2-CON	1
"Кулер 12В"		X8	CON: CWF-2	2-Connector	1
АКБ		X9	CON: 2P_5mm	2-CON	1