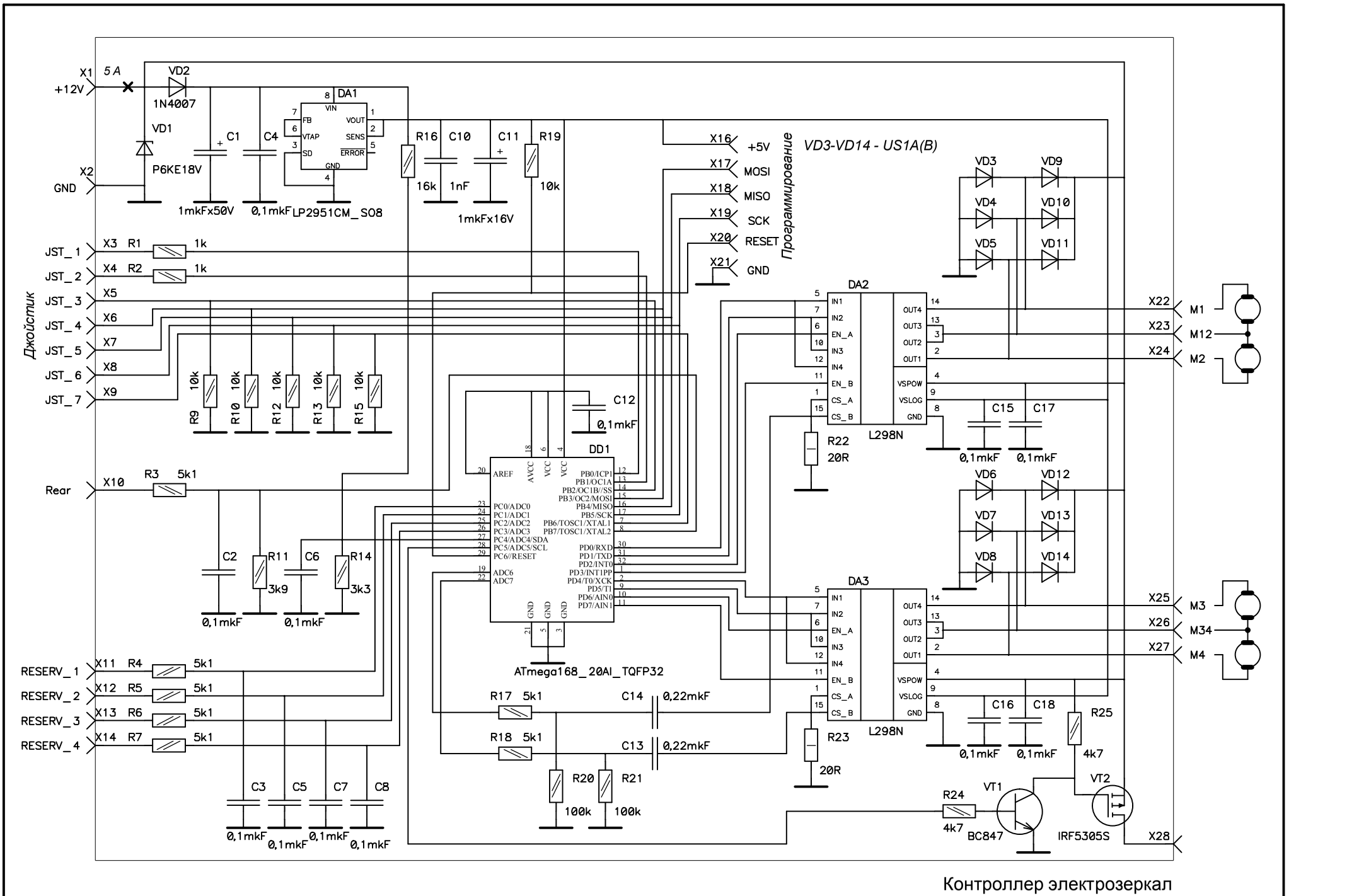
X1
5 A
+12V
VD2
1N4007
VD1
P6KE18V
X2
GND
C1
1mkFx50V
C4
0,1mkF
DA1
VIN
FB
VOUT
VTAP
SENS
SD
ERROR
GND
LP2951CM_SO8
R16
16k
C10
1nF
C11
1mkFx16V
R19
10k
X16
+5V
X17
MOSI
X18
MISO
X19
SCK
X20
RESET
X21
GND
Программирование
VD3-VD14 - US1A(B)
Джойстик
JST_1
JST_2
JST_3
JST_4
JST_5
JST_6
JST_7
X3 R1 1k
X4 R2 1k
X5
X6
X7
X8
X9
R9 10k
R10 10k
R12 10k
R13 10k
R15 10k
C12
0,1mkF
DD1
AREF
AVCC
VCC
GND
PC0/ADC0
PC1/ADC1
PC2/ADC2
PC3/ADC3
PC4/ADC4/SDA
PC5/ADC5/SCL
PC6/RESET
ADC6
ADC7
PB0/ICP1
PB1/OC1A
PB2/OC1B/SS
PB3/OC2/MOSI
PB4/MISO
PB5/SCK
PB6/TOSC1/XTAL1
PB7/TOSC1/XTAL2
PD0/RXD
PD1/TXD
PD2/INT0
PD3/INT1PP
PD4/T0/XCK
PD5/T1
PD6/AIN0
PD7/AIN1
ATmega168_20AI_TQFP32
Rear
X10
R3 5k1
C2
0,1mkF
R11 3k9
C6
0,1mkF
R14 3k3
RESERV_1
RESERV_2
RESERV_3
RESERV_4
X11 R4 5k1
X12 R5 5k1
X13 R6 5k1
X14 R7 5k1
C3
0,1mkF
C5
0,1mkF
C7
0,1mkF
C8
0,1mkF
R17 5k1
R18 5k1
C14 0,22mkF
C13 0,22mkF
R20 100k
R21 100k
DA2
DA3
IN1
IN2
EN_A
IN3
IN4
EN_B
CS_A
CS_B
OUT4
OUT3
OUT2
OUT1
VSPOW
VSLOG
GND
L298N
R22 20R
R23 20R
C15 0,1mkF
C17 0,1mkF
C16 0,1mkF
C18 0,1mkF
R25 4k7
VD3
VD4
VD5
VD9
VD10
VD11
VD6
VD7
VD8
VD12
VD13
VD14
X22
X23
X24
X25
X26
X27
M1
M12
M2
M3
M34
M4
VT1
BC847
VT2
IRF5305S
R24 4k7
X28
Контроллер электрозеркал