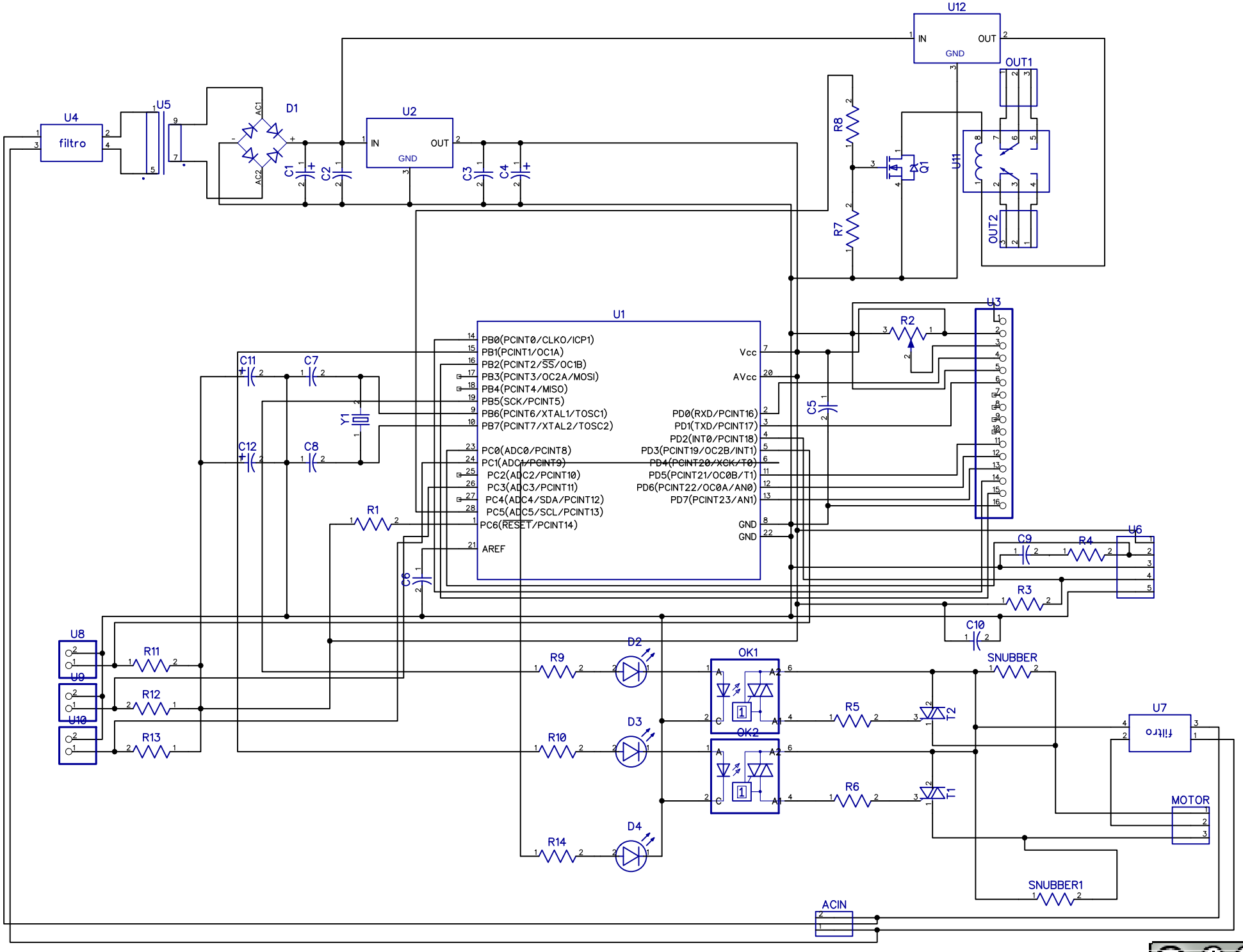
U12
IN
OUT
GND
OUT1
U4
filtro
U5
D1
AC1
AC2
U2
IN
OUT
GND
C1
C2
C3
C4
R8
R7
Q1
U11
OUT2
U1
PB0(PCINT0/CLKO/ICP1)
PB1(PCINT1/OC1A)
PB2(PCINT2/SS/OC1B)
PB3(PCINT3/OC2A/MOSI)
PB4(PCINT4/MISO)
PB5(SCK/PCINT5)
PB6(PCINT6/XTAL1/TOSC1)
PB7(PCINT7/XTAL2/TOSC2)
PC0(ADC0/PCINT8)
PC1(ADC1/PCINT9)
PC2(ADC2/PCINT10)
PC3(ADC3/PCINT11)
PC4(ADC4/SDA/PCINT12)
PC5(ADC5/SCL/PCINT13)
PC6(RESET/PCINT14)
AREF
Vcc
AVcc
PD0(RXD/PCINT16)
PD1(TXD/PCINT17)
PD2(INT0/PCINT18)
PD3(PCINT19/OC2B/INT1)
PD4(PCINT20/XCK/T0)
PD5(PCINT21/OC0B/T1)
PD6(PCINT22/OC0A/AN0)
PD7(PCINT23/AN1)
GND
GND
U3
R2
C5
C11
C7
C12
C8
Y1
R1
C6
U6
C9
R4
R3
C10
U8
U9
U10
R11
R12
R13
R9
R10
R14
D2
D3
D4
OK1
OK2
R5
R6
T2
T1
SNUBBER
U7
filtro
MOTOR
SNUBBER1
ACIN

Name	Value/Reference
ACIN	(1=neutral, 2=hot)
C1	1200uF
C2	330nF
C3	100nF
C4	470uF
C5	100nF
C6	100nF
C7	22pF
C8	22pF
C9	1uF
C10	1uF
C11	10uF
C12	220uF
D1	bridge rectifier
D2	led
D3	led
D4	led
MOTOR	(1=phase motor up, 2=neutral, 3=phase motor down)
OK1	MOC3021M
OK2	MOC3021M
OUT1	automatic valve (optional)
OUT2	automatic valve (optional)
Q1	IRLD014 (or similar) (optional)
R1	1kΩ
R2	10kΩ
R3	10kΩ
R4	68Ω
R5	1.5kΩ
R6	1.5kΩ
R7	10kΩ (optional)
R8	1kΩ (optional)
R9	100Ω

Name	Value/Reference
R10	100Ω
R11	10kΩ
R12	10kΩ
R13	10kΩ
R14	220Ω
SNUBBER	100Ω+100nF
SNUBBER1	100Ω+100nF
T1	TIC225S
T2	TIC225S
U1	ATMEGA328P
U2	7805
U3	display pin header
U4	1FP45 (ac filter9)
U5	transformer (220V to 9V 12VA)
U6	sensor terminal (1=Vcc, 2=LM35 output, 3= Gnd, 4=Reed relay out, 5=Gnd for reed relay)
U7	1FP45 (ac filter9)
U8	Up button (1=button output, 2=Gnd)
U9	Mode button (1=button output, 2=Gnd)
U10	Down button (1=button output, 2=Gnd)
U11	Relay (optional)
U12	7805 (optional)
Y1	16MHz (HC49)