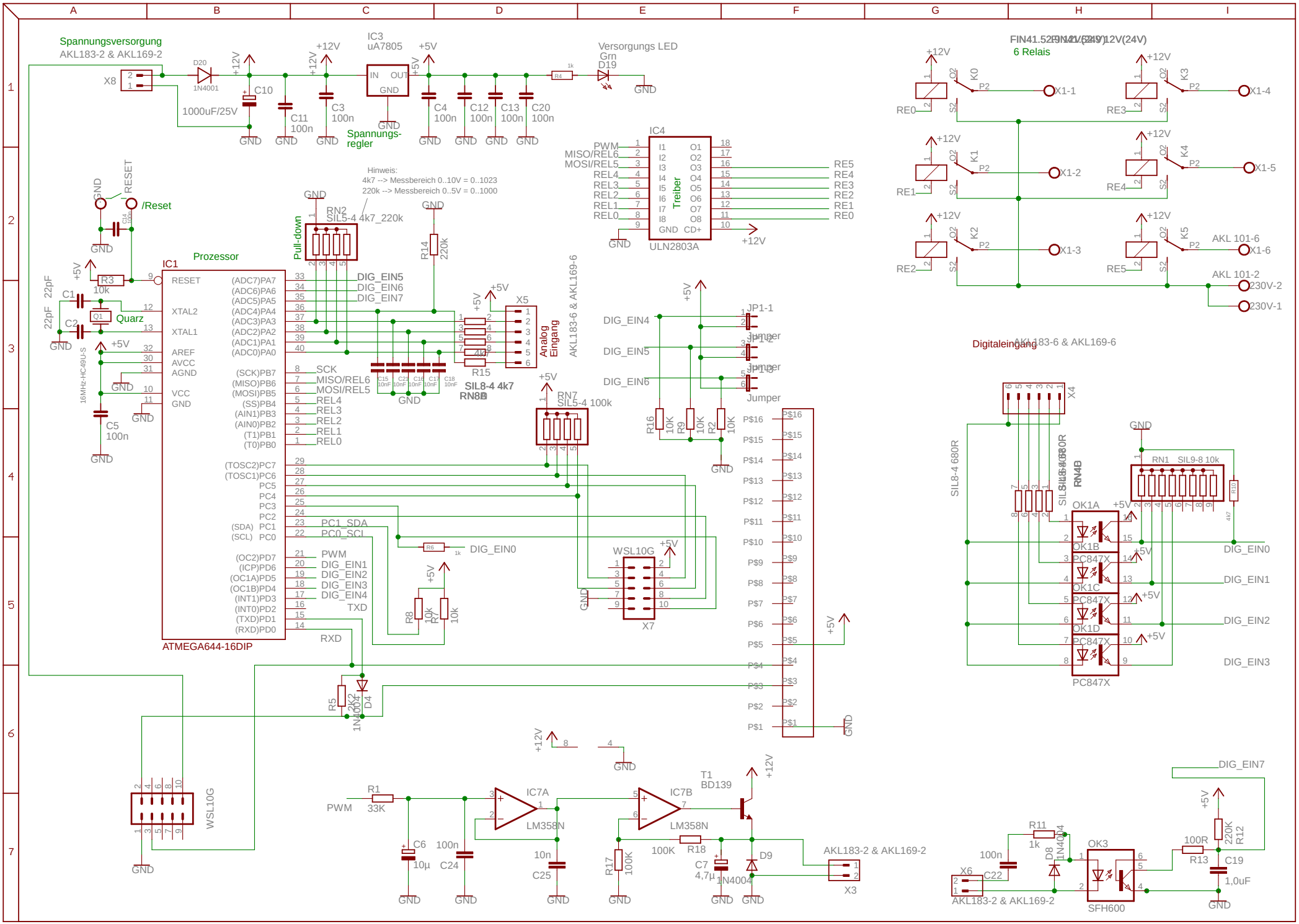
Spannungsversorgung
AKL183-2 & AKL169-2
X8
D20
1N4001
1000uF/25V
C10
C11 100n
C3 100n
IC3
uA7805
IN OUT GND
Spannungs-regler
C4 100n
C12 100n
C13 100n
C20 100n
Versorgungs LED
Grn
D19
R4 1k
GND
+12V
+5V
Hinweis:
4k7 --> Messbereich 0..10V = 0..1023
220k --> Messbereich 0..5V = 0..1000
RN2
SIL5-4 4k7_220k
Pull-down
R14 220k
/Reset
C14 100n
R3 10k
C1 22pF
C2 22pF
Q1 Quarz
16MHz-HC49U-S
C5 100n
IC1
Prozessor
ATMEGA644-16DIP
RESET
XTAL2
XTAL1
AREF
AVCC
AGND
VCC
(ADC7)PA7
(ADC6)PA6
(ADC5)PA5
(ADC4)PA4
(ADC3)PA3
(ADC2)PA2
(ADC1)PA1
(ADC0)PA0
(SCK)PB7
(MISO)PB6
(MOSI)PB5
(SS)PB4
(AIN1)PB3
(AIN0)PB2
(T1)PB1
(T0)PB0
(TOSC2)PC7
(TOSC1)PC6
PC5
PC4
PC3
PC2
(SDA) PC1
(SCL) PC0
(OC2)PD7
(ICP)PD6
(OC1A)PD5
(OC1B)PD4
(INT1)PD3
(INT0)PD2
(TXD)PD1
(RXD)PD0
DIG_EIN5
DIG_EIN6
DIG_EIN7
SCK
MISO/REL6
MOSI/REL5
REL4
REL3
REL2
REL1
REL0
PC1_SDA
PC0_SCL
PWM
DIG_EIN1
DIG_EIN2
DIG_EIN3
DIG_EIN4
TXD
RXD
R15 4k7
SIL8-4 4k7
RN8
X5
Analog Eingang
AKL183-6 & AKL169-6
IC4
Treiber
ULN2803A
PWM
MISO/REL6
MOSI/REL5
REL4
REL3
REL2
REL1
REL0
RE5
RE4
RE3
RE2
RE1
RE0
FIN41.52 FIN42.52 (24V)
6 Relais
K0
K1
K2
K3
K4
K5
RE0
RE1
RE2
RE3
RE4
RE5
X1-1
X1-2
X1-3
X1-4
X1-5
X1-6
AKL 101-6
AKL 101-2
230V-2
230V-1
Digitaleingang
AKL183-6 & AKL169-6
X4
SIL8-4 680R
RN4
RN1 SIL9-8 10k
OK1A
OK1B
OK1C
OK1D
PC847X
R16 10K
R9 10K
R2 10K
JP1-1
JP1-2
JP1-3
Jumper
RN7
SIL5-4 100k
R6 1k
R8 10k
R7 10k
WSL10G
X7
R5 2K2
D4
1N4004
R1 33K
PWM
IC7A
IC7B
LM358N
C6 100n
10µ
C24
10n
C25
R17 100K
R18 100K
T1
BD139
C7 4,7µ
D9
1N4004
X3
AKL183-2 & AKL169-2
X6
C22 100n
R11 1k
D8 1N4004
OK3
SFH600
R13 100R
R12 220K
C19 1,0uF
DIG_EIN7