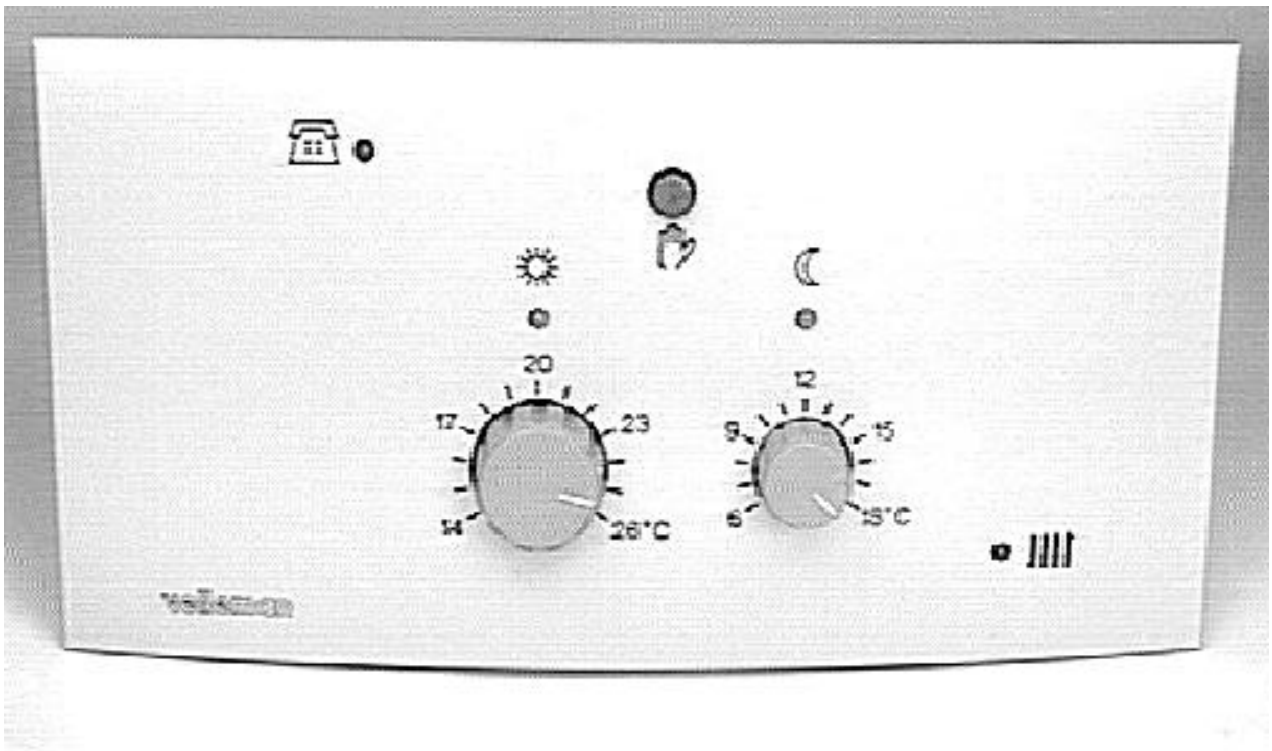
HIGH-Q velleman-kit

K6502

THELEPHONE CONTROLLED THERMOSTAT

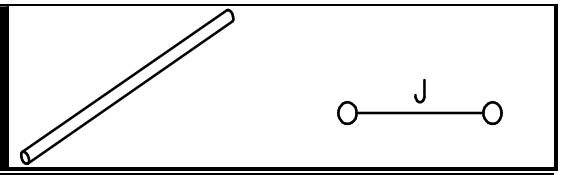
- Relay output with LED indication: 5A/240VAC (1200W)
- Telephone pick-up after ±8 rings
- Report when the temperature has fallen below 3oC
- Automatic hang-up if no code is received within 40 seconds.
- Number of possible security codes: from 000 to 999
- Day temperature setting: from 14oC to 26oC
- Night temperature setting: from 6oC to 18oC
- Hysteresis (allowed temperature swing): 0.2oC
- Local manual control
- Supply voltage: 220VAC



PARTSLIST H6502P-ED1

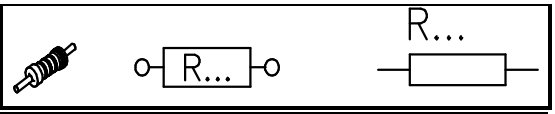
OPTIONAL HOUSING: BTT2000W

1



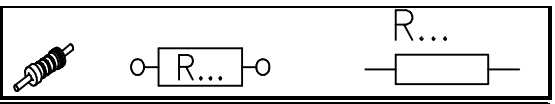
J

2
¼



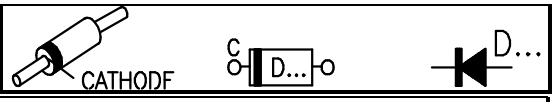
R1: 10 (1-0-0-B)
R4: 390 (3-9-1-B)
R5: 100 (1-0-1-B)
R6, R7: 1K5 (1-5-2-B)
R8: 1K (1-0-2-B)
R12: 2K2 (2-2-2-B)
R14, R15: 4K7 (4-7-2-B)
R17: 4K7 (4-7-2-B)
R18: 5K6 (5-6-2-B)
R21: 10K (1-0-3-B)
R22: 18K (1-8-2-B)
R23, R25: 100K (1-0-4-B)
R26: 100K (1-0-4-B)

3
1%



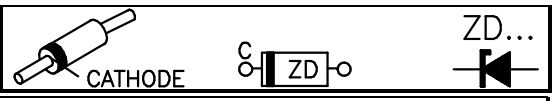
R32: 5K1 (5-1-2-1)
R33: 20K (2-0-3-1)
R34: 27K (2-7-2-1)
R35: 68K (6-8-3-1)

4



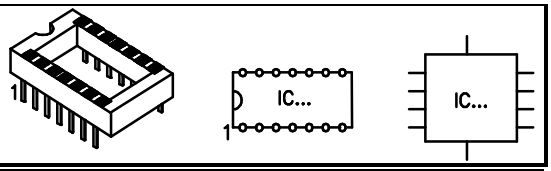
D1... D5: 1N4148 !

5



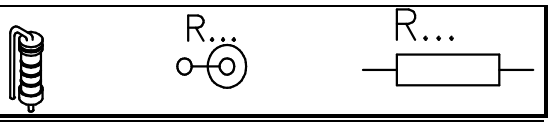
ZD1... ZD3: 4V7 !
ZD4, ZD5: 91V !

6



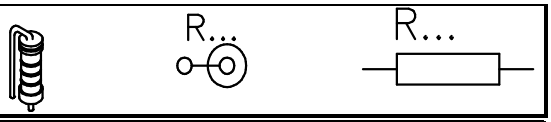
IC1: 6P
IC2, IC3: 18P
IC4: 14P

7
¼



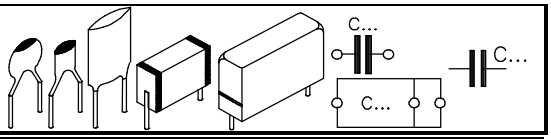
R2: 82 (8-2-0-B)
R3: 390 (3-9-1-B)
R11: 1K (1-0-2-B)
R9, R10: 560 (5-6-1-B)
R13: 2K2 (2-2-2-B)
R16: 4K7 (4-7-2-B)
R19: 6K8 (6-8-2-B)
R20: 10K (1-0-3-B)
R24: 220K (2-2-4-B)
R27... R29: 150K (1-5-4-B)
R30: 330K (3-3-4-B)
R40: 680 (6-8-1-B)

8
1%



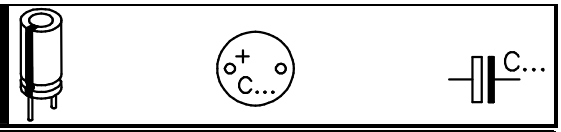
R31: 12K (1-2-0-2-1)
R36,R37: 47K (4-7-0-2-1)
R38, R39: 470K (4-7-0-3-1)

9



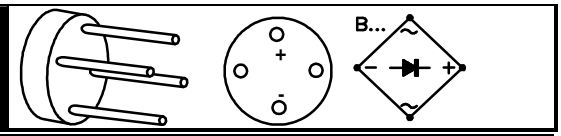
C1, C21: 4n7 (472)
C2: 27n (273)
C3: 33n (333)
C4... C13: 100n (104, µ1)
C14: 680n (684, µ68)

10



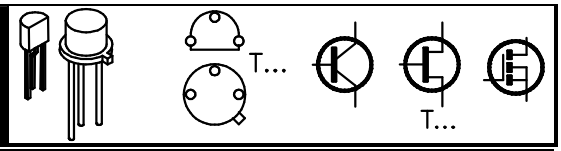
C15... C18: 10µ !
C19: 470µ !
C20A, C20B: 2µ2 !

11



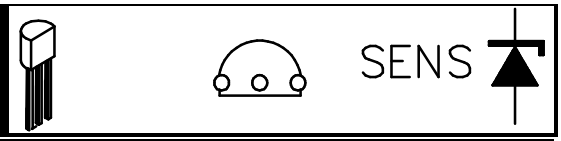
B1, B2: W02M... !

12



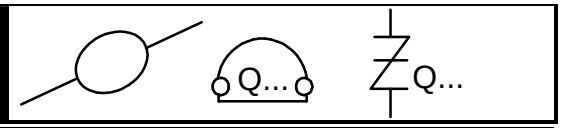
T1... T4: BC547
T5: BD681... !

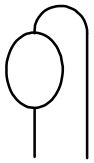
13



SENS: LM335 !

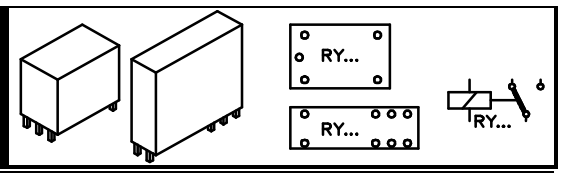
14





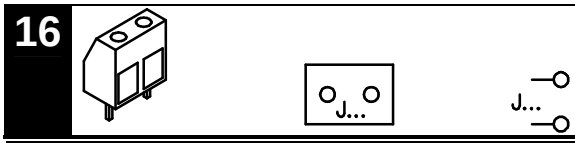
Q1: V120MA2B

15



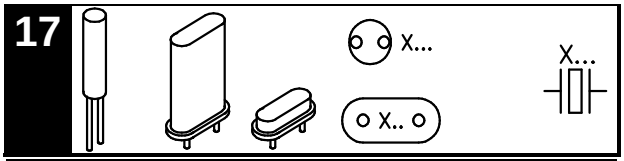
RY1: REED 5V 1C
RY2: 12V / 10A / 1C

16



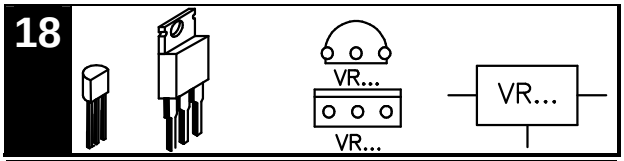
J1: 2P
J2: 2P
J3: 2P (7.5mm)
J4: 3P (7.5mm)

17



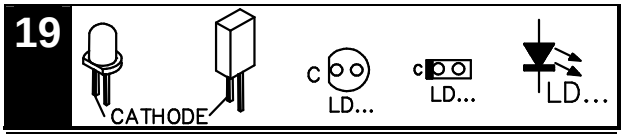
X1: 3.5795

18

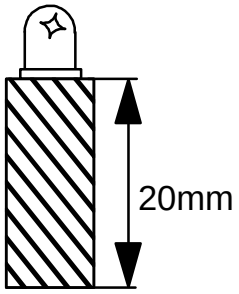


VR1: 7805 !

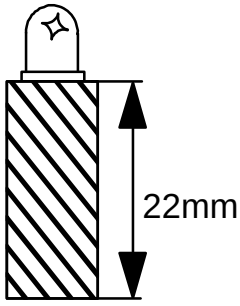
19



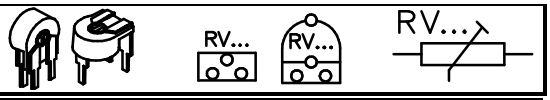
LD1, LD4: 3mm RED



LD2: 3mm Yellow
LD3: 3mm Green

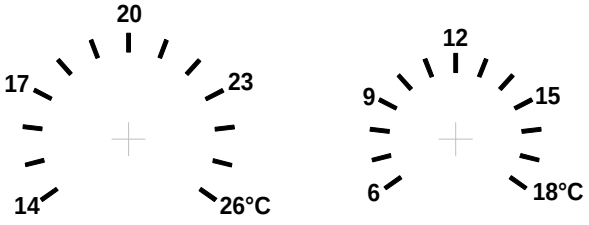


20

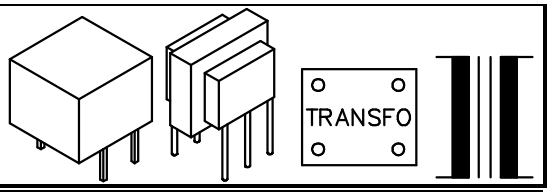


RV1: 1K

RV2, RV3: 10K

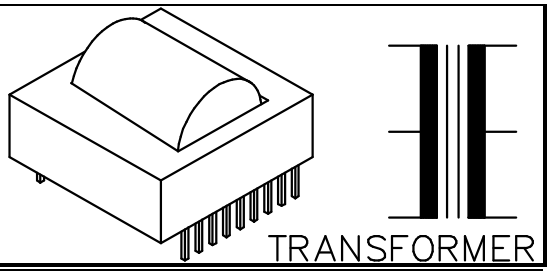


21



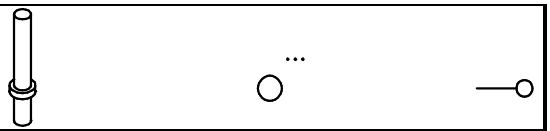
TRAFO1: 600/600

22



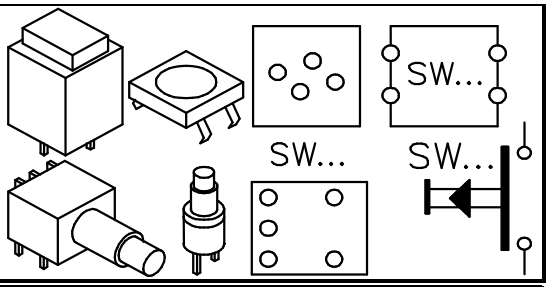
TRAFO2: 12VAC

23

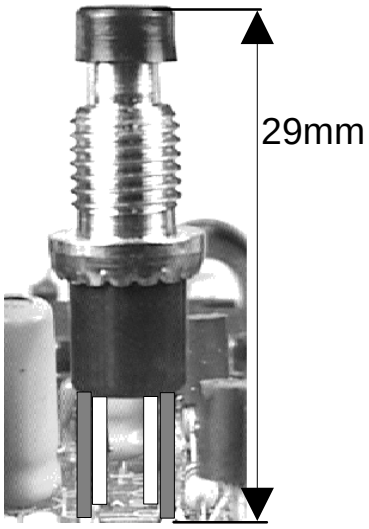


SW1: 2X

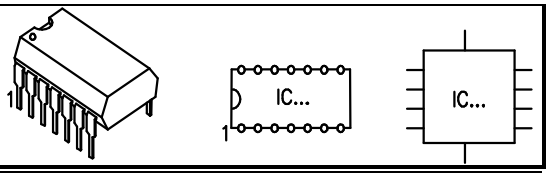
24



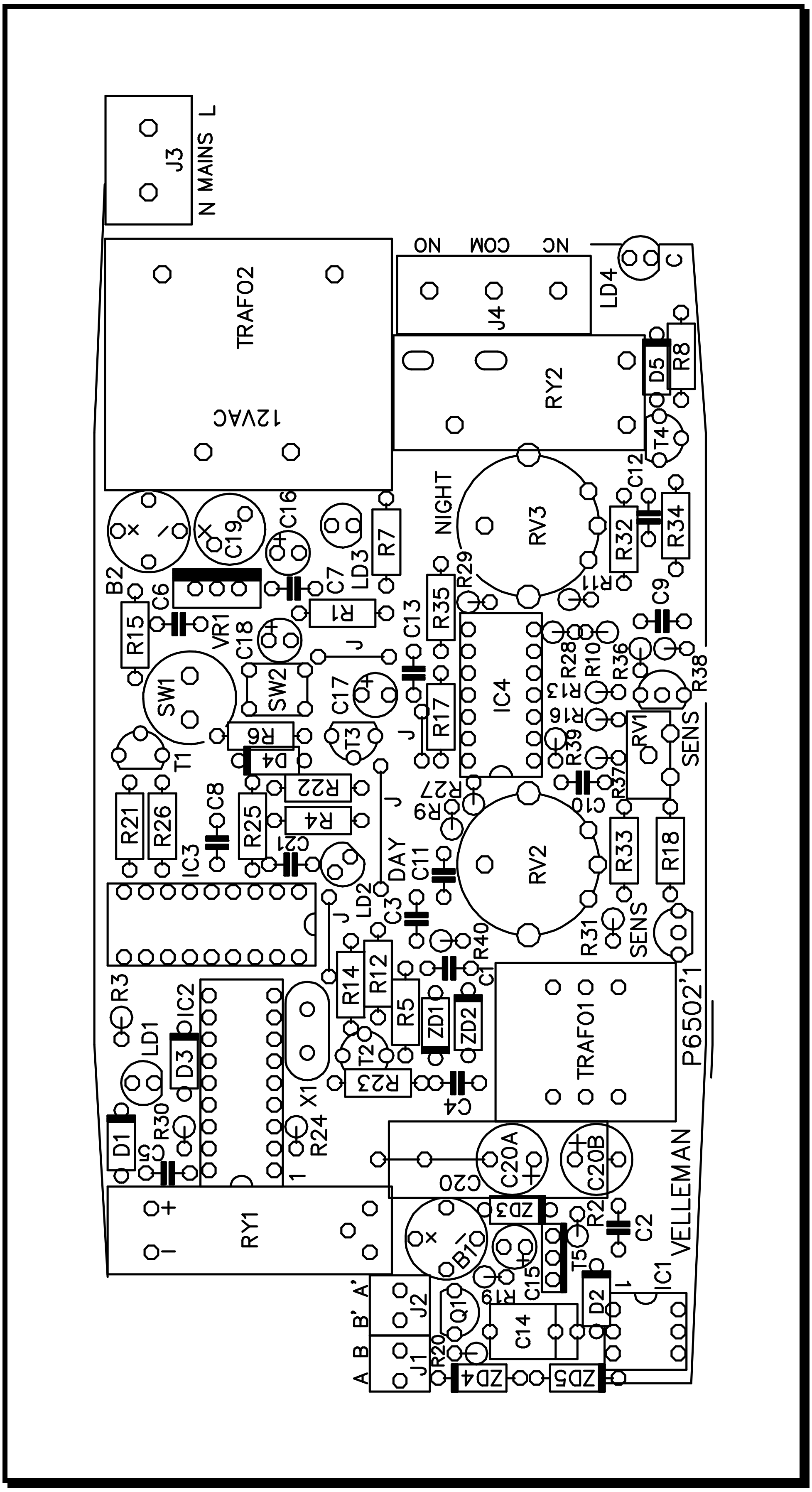
SW1

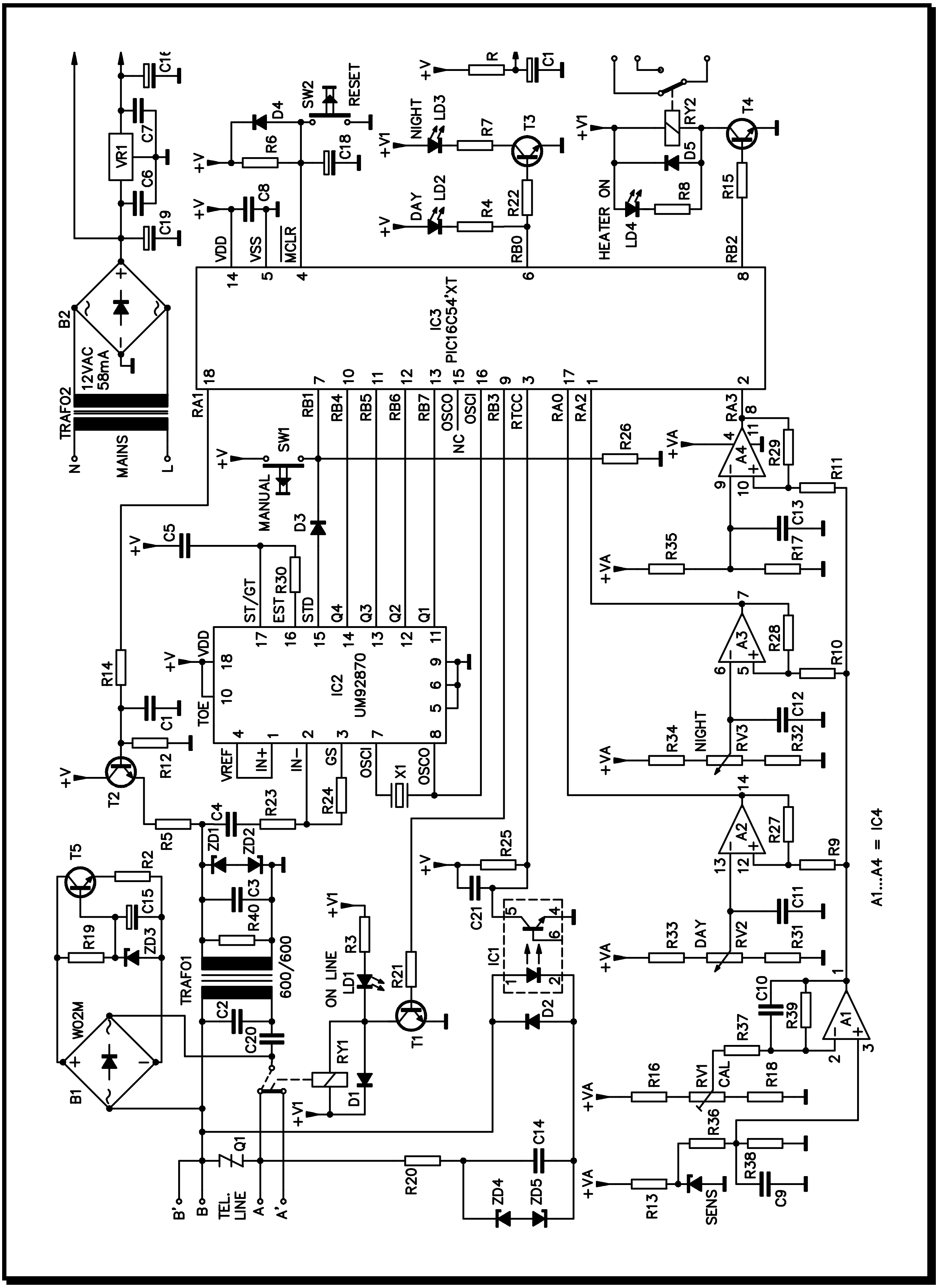


25



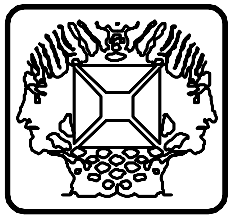
IC1: 4N35 !
IC2: UM82970, HM9270D !
IC3: VK6502 (¨PIC16C54XT) !
IC4: LM324 !


J3
N MAINS L
TRAFO2
12VAC
NO COM NC
J4
LD4
RY2
NIGHT
RV3
IC4
DAY
RV2
SENS
IC3
IC2
TRAFO1
P6502'1
VELLEMAN
RY1
C20
A B B' A'
J1
J2



IC3
PIC16C54'XT
IC2
UM92870
TRAFO1
600/600
TRAFO2
12VAC
58mA
MAINS
TEL.
LINE
ON LINE
NIGHT
DAY
HEATER ON
RESET
MANUAL
CAL
SENS
A1...A4 = IC4

HIGH-Q velleman-kit



PARTSLIST H6502P-ED1