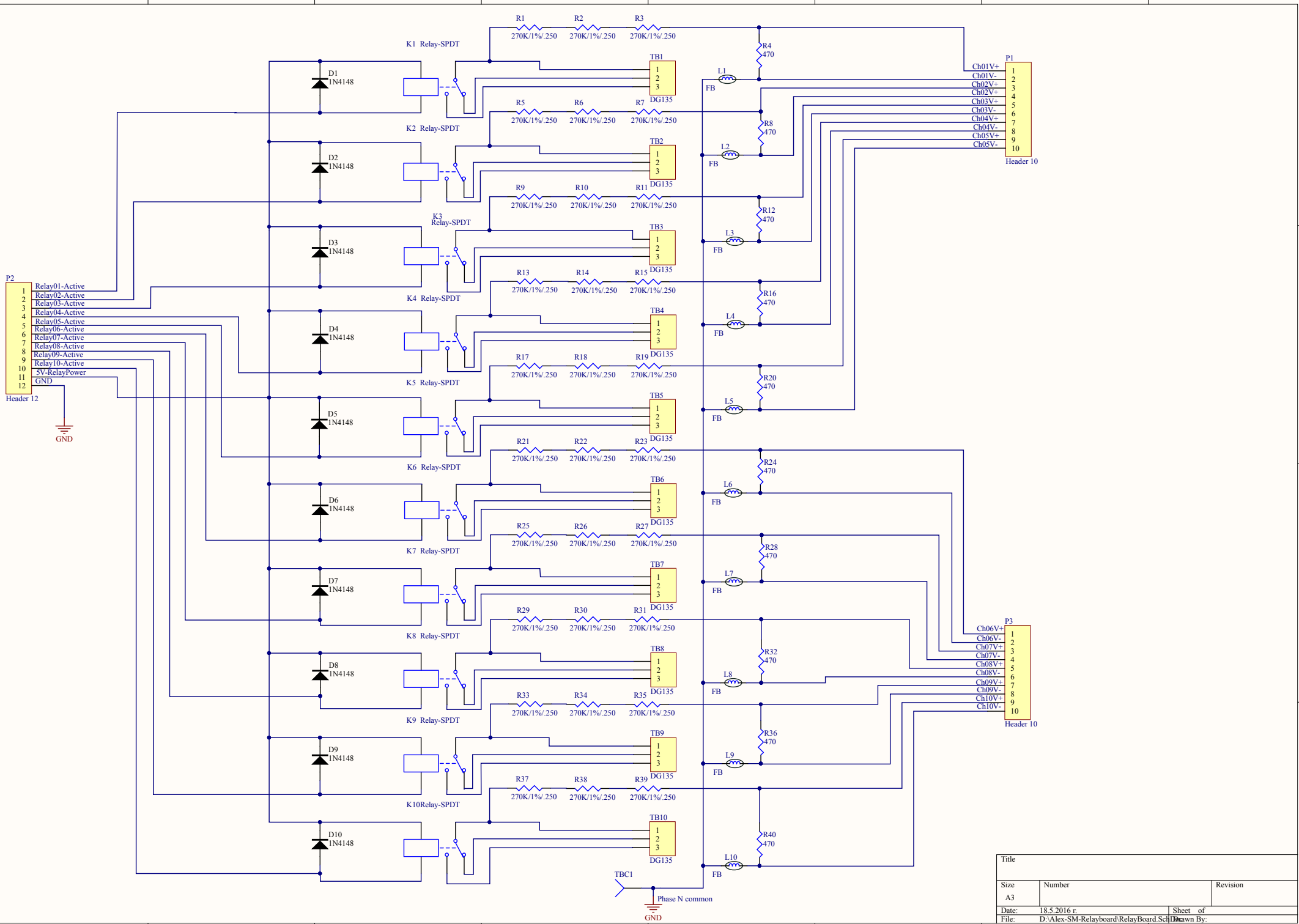
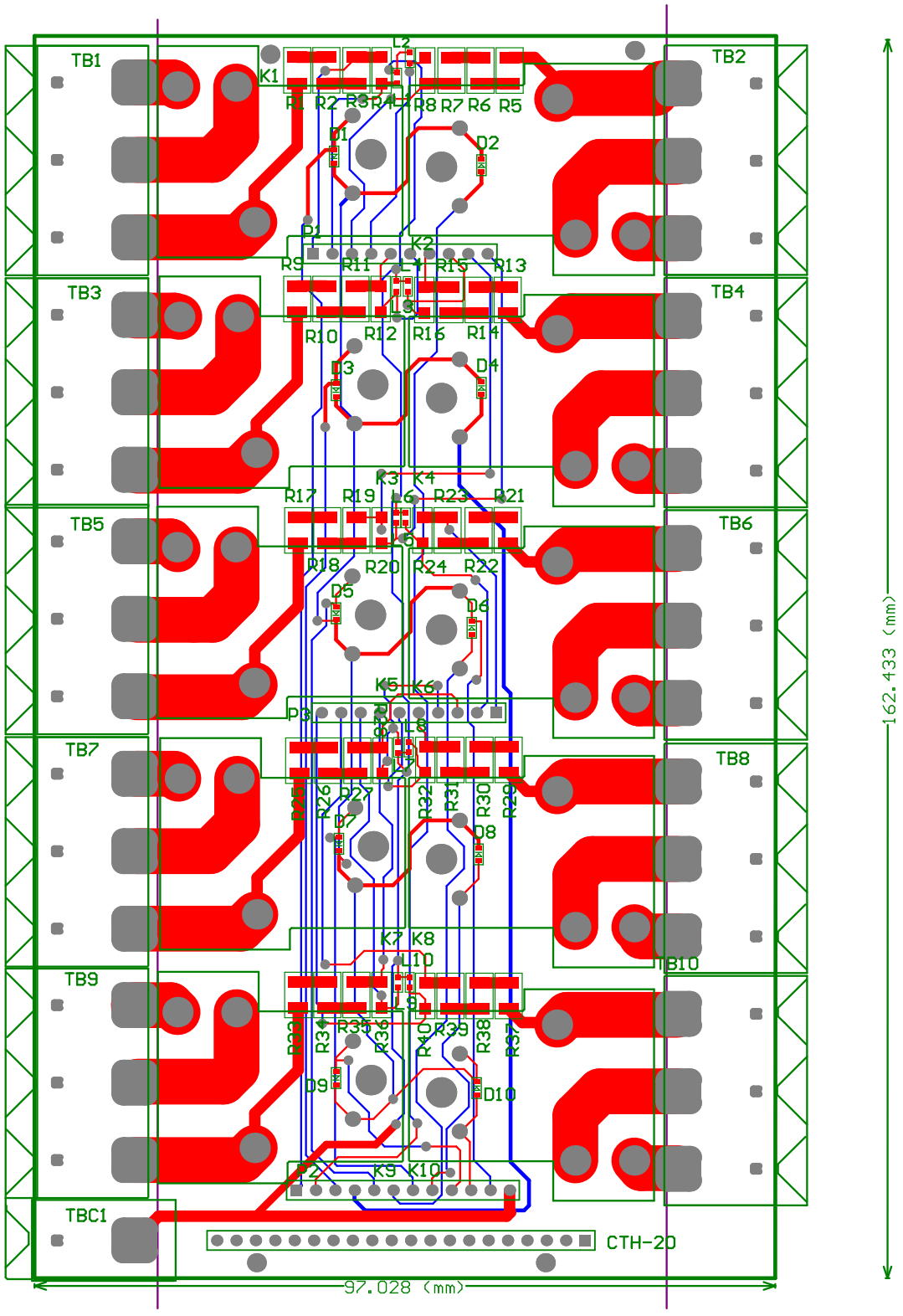

P2
Relay01-Active
Relay02-Active
Relay03-Active
Relay04-Active
Relay05-Active
Relay06-Active
Relay07-Active
Relay08-Active
Relay09-Active
Relay10-Active
5V-RelayPower
GND
Header 12
GND
K1 Relay-SPDT
K2 Relay-SPDT
K3 Relay-SPDT
K4 Relay-SPDT
K5 Relay-SPDT
K6 Relay-SPDT
K7 Relay-SPDT
K8 Relay-SPDT
K9 Relay-SPDT
K10Relay-SPDT
D1 1N4148
D2 1N4148
D3 1N4148
D4 1N4148
D5 1N4148
D6 1N4148
D7 1N4148
D8 1N4148
D9 1N4148
D10 1N4148
R1 R2 R3 270K/1%/.250
R5 R6 R7 270K/1%/.250
R9 R10 R11 270K/1%/.250
R13 R14 R15 270K/1%/.250
R17 R18 R19 270K/1%/.250
R21 R22 R23 270K/1%/.250
R25 R26 R27 270K/1%/.250
R29 R30 R31 270K/1%/.250
R33 R34 R35 270K/1%/.250
R37 R38 R39 270K/1%/.250
TB1 TB2 TB3 TB4 TB5 TB6 TB7 TB8 TB9 TB10
DG135
L1 L2 L3 L4 L5 L6 L7 L8 L9 L10
FB
R4 R8 R12 R16 R20 R24 R28 R32 R36 R40
470
P1
Ch01V+
Ch01V-
Ch02V+
Ch02V-
Ch03V+
Ch03V-
Ch04V+
Ch04V-
Ch05V+
Ch05V-
Header 10
P3
Ch06V+
Ch06V-
Ch07V+
Ch07V-
Ch08V+
Ch08V-
Ch09V+
Ch09V-
Ch10V+
Ch10V-
Header 10
TBC1
Phase N common
GND
Title
Size A3
Number
Revision
Date: 18.5.2016 r.
Sheet of
File: D:\Alex-SM-Relayboard\RelayBoard.SchDoc
Drawn By:


TB1
TB2
TB3
TB4
TB5
TB6
TB7
TB8
TB9
TB10
TBC1
K1
K2
K3
K4
K5
K6
K7
K8
K9
K10
L1
L2
L3
L4
L5
L6
L7
L8
L9
L10
P1
P2
P3
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R16
R17
R18
R19
R20
R21
R22
R23
R24
R25
R26
R27
R28
R29
R30
R31
R32
R33
R34
R35
R36
R37
R38
R39
R40
CTH-20
97.028 (mm)
162.433 (mm)

Comment	Description	Designator	Footprint	LibRef	Quantity
1N4148	1N4001	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10	SOD523	1N4001	10
Relay-SPDT	Single-Pole Dual-Throw Relay	K1, K2, K3, K4, K5, K6, K7, K8, K9, K10	MODULE5B	Relay-SPDT	10
FB		L1, L2, L3, L4, L5, L6, L7, L8, L9, L10	0603C-TBD	FerrBeads/ILBB	10
Header 10	Header, 10-Pin	P1, P3	HDR1X10	Header 10	2
Header 12	Header, 12-Pin	P2	HDR1X12	Header 12	1
270K/1%/.250	Resistor	R1, R2, R3, R5, R6, R7, R9, R10, R11, R13, R14, R15, R17, R18, R19, R21, R22, R23, R25, R26, R27, R29, R30, R31, R33, R34, R35, R37, R38, R39	1210C-GENERIC	Res3	30
470	Resistor	R4, R8, R12, R16, R20, R24, R28, R32, R36, R40	1206C-GENERIC	Res3	10
DG135	Header, 3-Pin	TB1, TB2, TB3, TB4, TB5, TB6, TB7, TB8, TB9, TB10	DG135-1	Header 3	10
TBcommon	Socket	TBC1	PIN1	Socket	1