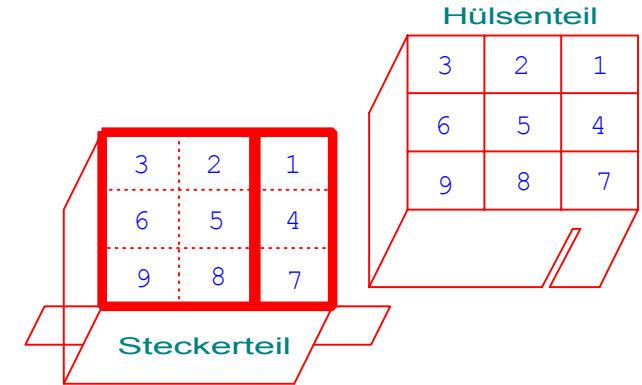
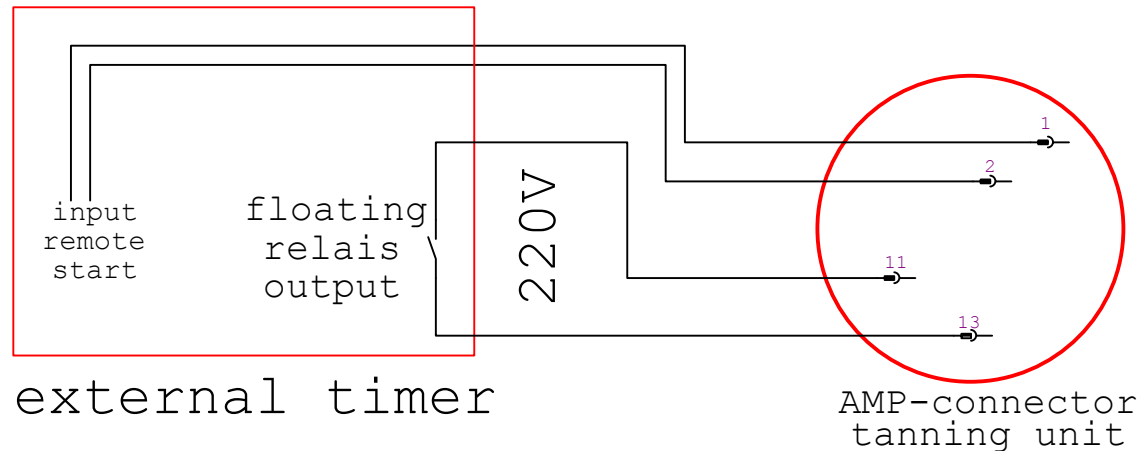


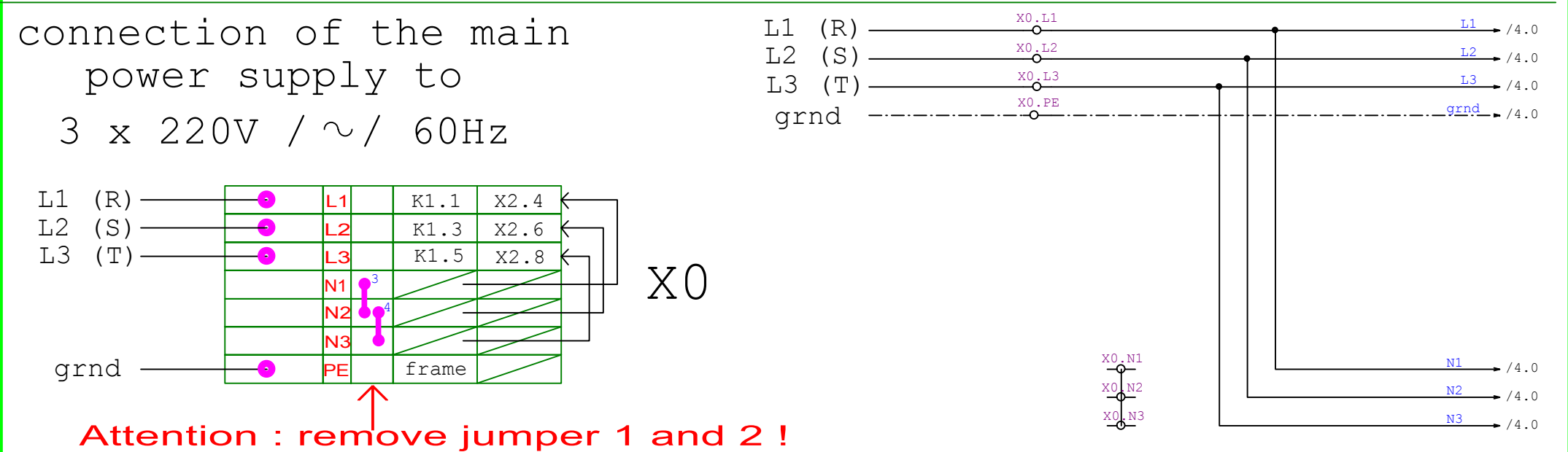
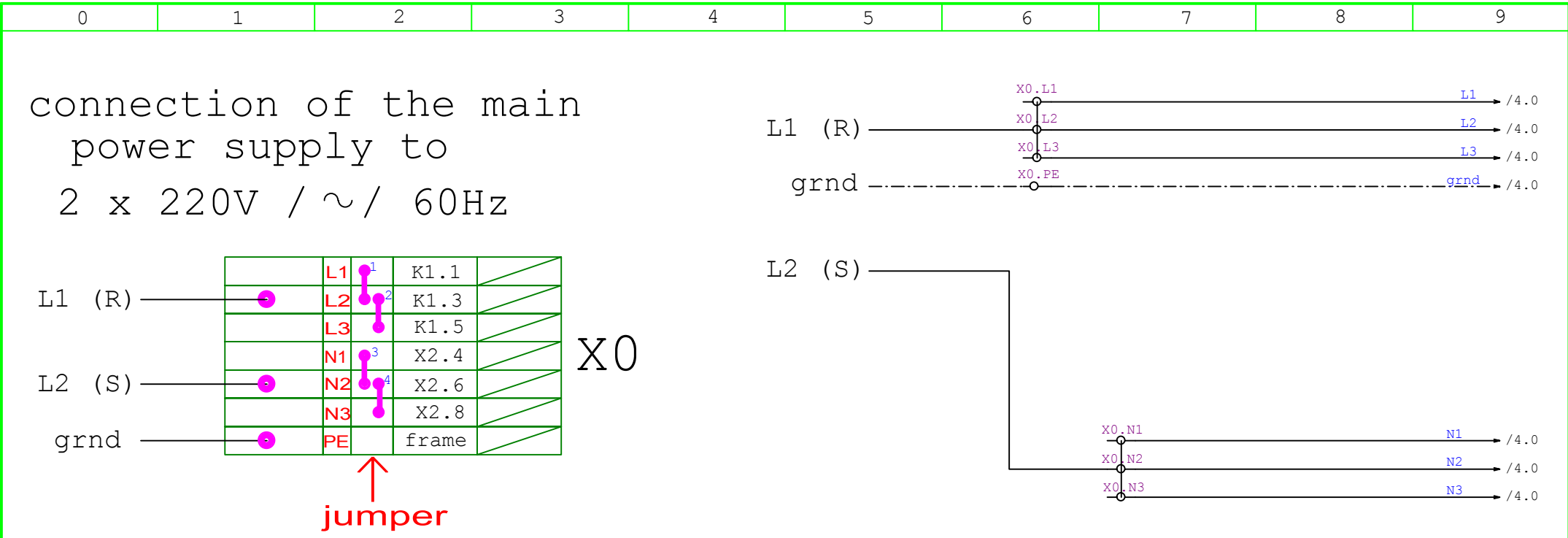
connectors and terminals

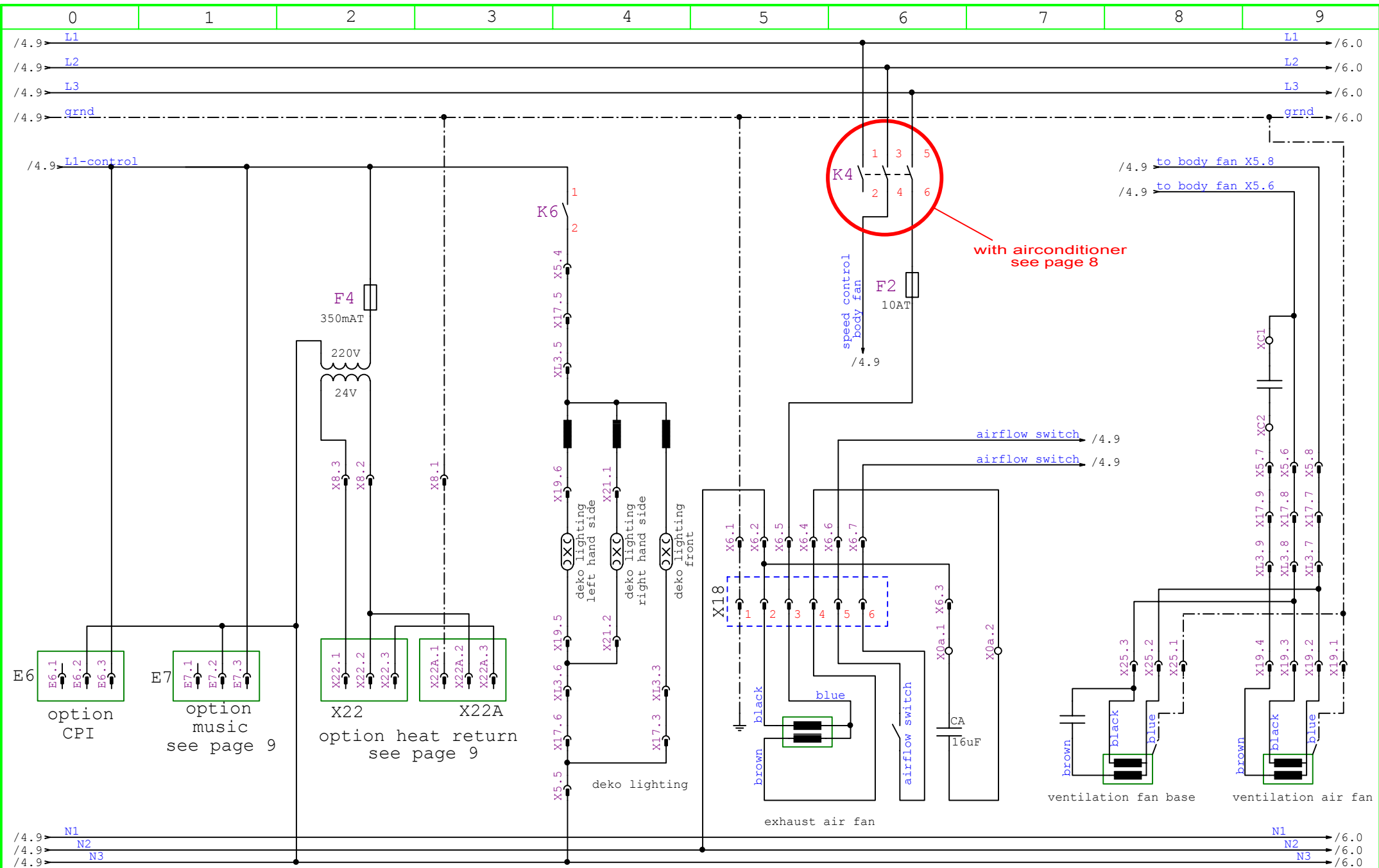
- X1-X9 control
- X10-13 output electrical carriage tubes to the top
- X14 output electrical carriage facial to the top
- X15-17 output electrical carriage tubes to the base
- XD1-3 connectors top
- XL1-XL3 connectors base
- X18 exhaust air fan
- X19 ventilation air fan dekolighting left hand side
- X21 deko lighting right hand side
- X22 heat return
- X23 air conditioner
- X25 ventilation fan base



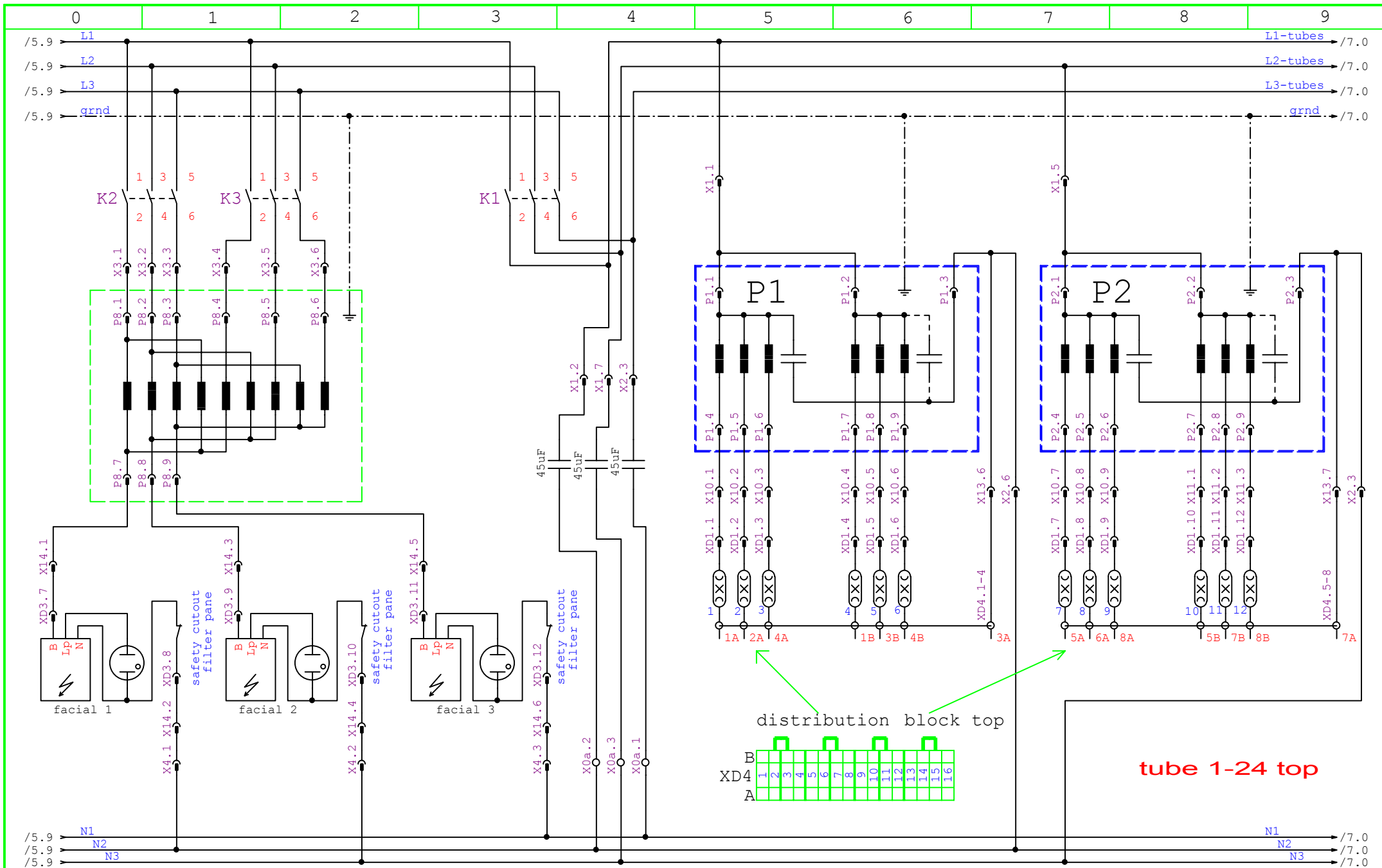
connection to external timer with an floating relais output



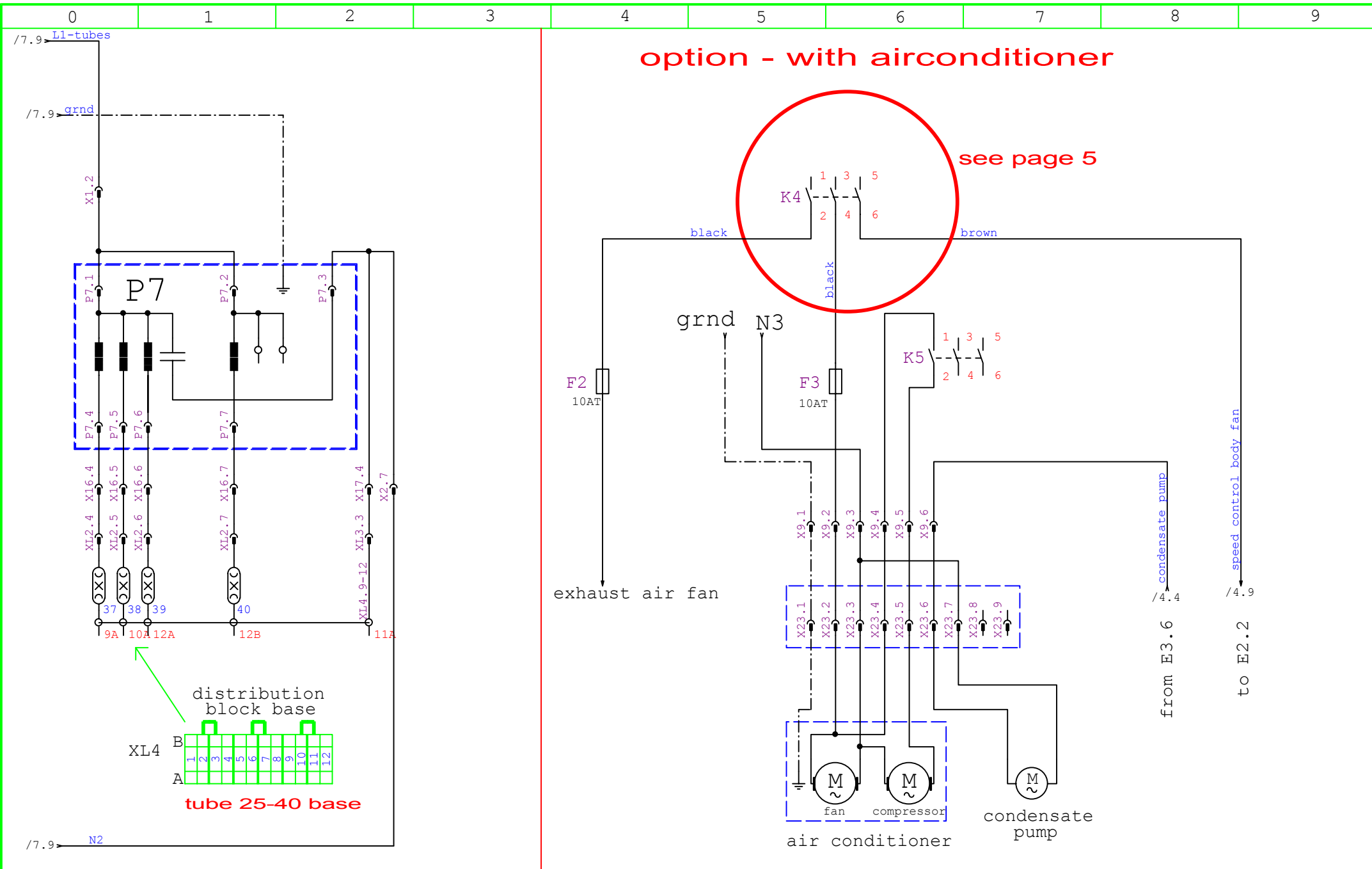




01				Datum	01.07.02	KBL-Solarien AG	megaSun 4000 induktiv Usa	Dat. : MS 4000IND_400V_USA	technical changes reserved			
			Bearb.	U.Obel								
			Gepr.									
Zust.	Änderung	Datum	Name	Norm		Urspr.	Ers.f	Ers.d	Vers. : ms4t/us_060201	Blatt 5 von 10 Bl.		

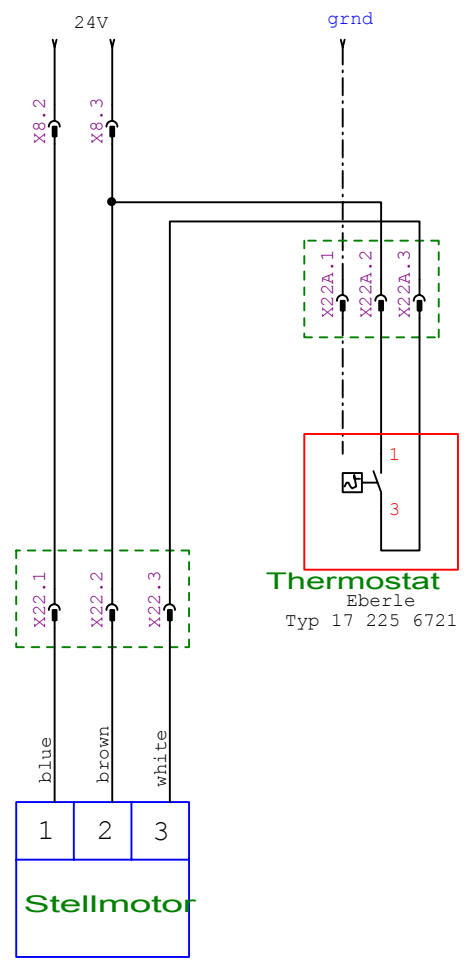


01				Datum	01.07.02	KBL-Solarien AG	megaSun 4000 induktiv Usa	Dat. : MS 4000IND_400V_USA	technical changes reserved			
			Bearb.	U.Obel								
			Gepr.									
Zust.	Änderung	Datum	Name	Norm		Urspr.	Ers.f	Ers.d				
									Vers. : ms4t/us_060201	Blatt 6 von 10 Bl.		

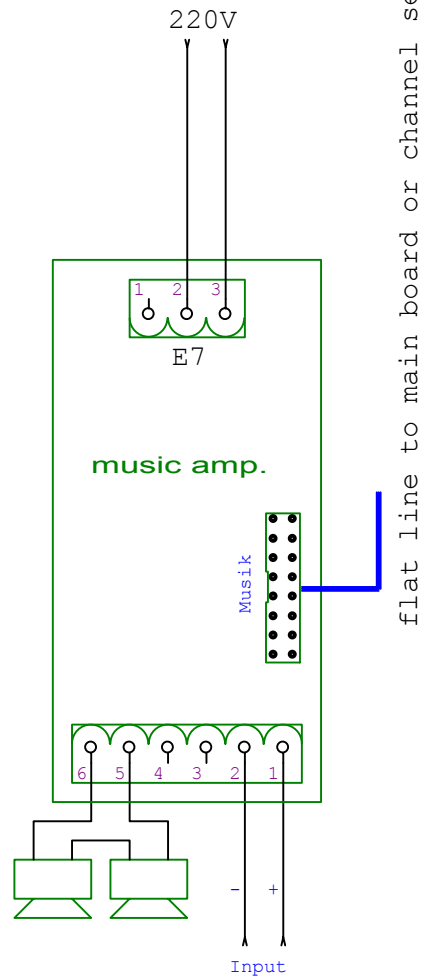


01				Datum	01.07.02	KBL-Solarien AG	megaSun 4000 induktiv Usa	Dat. : MS 4000IND_400V_USA		technical changes reserved
				Bearb.	U.Obel			Vers. : ms4t/us_060201		Blatt 8
				Gepr.						von 10 Bl.
Zust.	Änderung	Datum	Name	Norm	Urspr.	Ers.f	Ers.d			

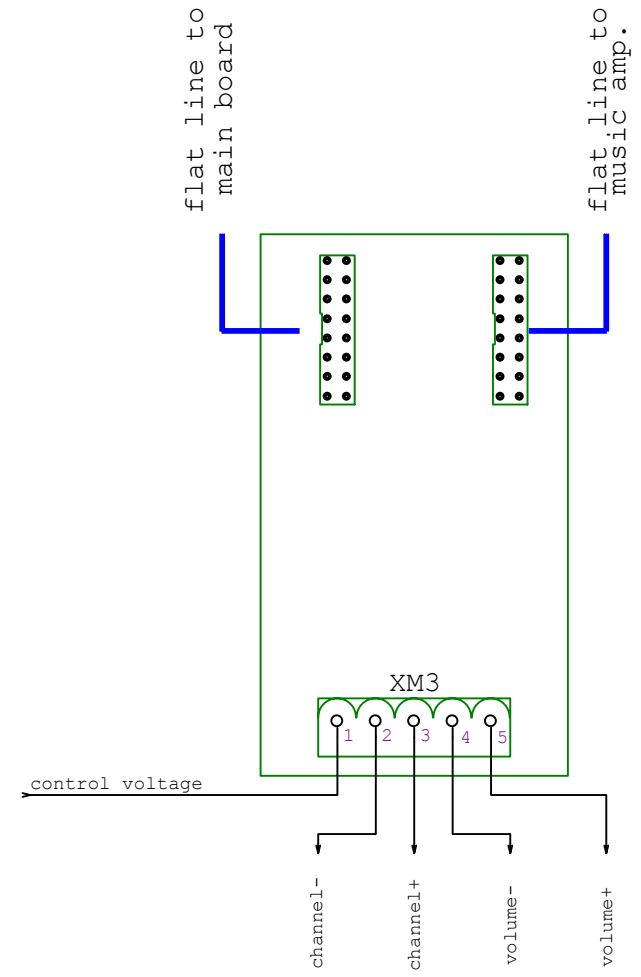
option heat return
see page 5



option music amplifier
see page 5



adaptor for musicsystem with channelselector



01				Datum	01.07.02
				Bearb.	U.Obel
				Gepr.	
Zust.	Änderung	Datum	Name	Norm	Urspr.

KBL-Solarien AG

megaSun 4000
induktiv Usa

Dat. : MS 4000IND_400V_USA

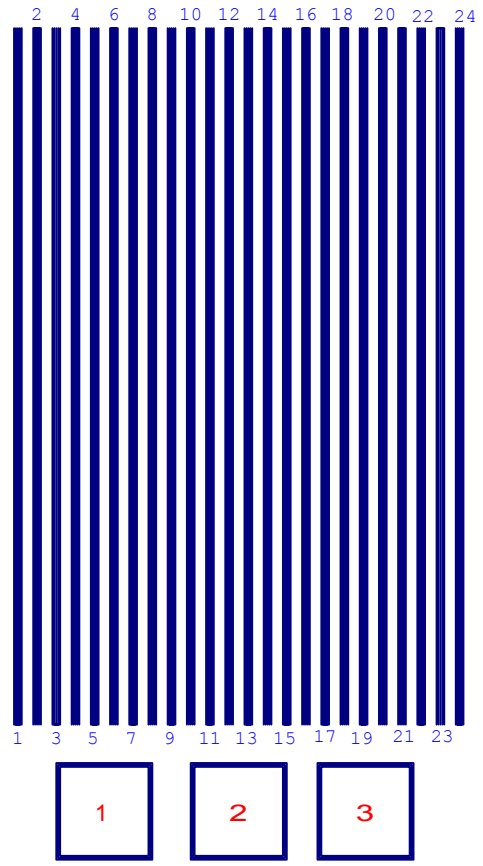
Vers. : ms4t/us_060201

technical changes reserved
Blatt 9
von 10 Bl.

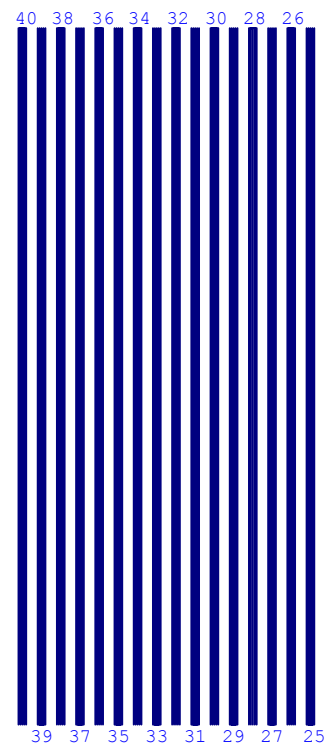
canopy view from above

base view from above

front ←



front ←



01				Datum	01.07.02	KBL-Solarien AG	megaSun 4000 induktiv Usa	Dat. : MS 4000IND_400V_USA		technical changes reserved
				Bearb.	U.Obel					
				Gepr.						
Zust.	Änderung	Datum	Name	Norm		Urspr.	Ers.f	Ers.d	Vers. : ms4t/us_060201	Blatt 10 von 10 Bl.

connector/ contactor	pin	source	target
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X1	1	P1.1	K1.2 / X1.2
	2	P7.1 / X1.3	X1.1 / X1.4
	3	X1.2	capacitor 45uF L1
	4	n.c.	X1.2
	5	P2.1	K1.4 / X1.6
	6	P6.1 / X1.7	X1.5 / X1.8
	7	X1.6	capacitor 45uF L2
	8	n.c.	X1.6
	9	grnd ballast trays / X13.3	X0a.PE/B / X4.6

X2	1	P3.1 / P4.2	K1.6 / X2.2
	2	P5.1 / X2.3	X2.1
	3	X2.2	capacitor 45uF L3
	4	P3.3 / P4.3	X0.N1 / X2.5
	5	P5.3	X2.4 / X4.3
	6	P1.3	X0.N2 / X2.7
	7	P7.3	X2.6 / X4.1
	8	P2.3	X0.N3 / X2.9
	9	P6.3	X2.8 / X4.2

X3	1	P8.1	K2.2
	2	P8.2	K2.4
	3	P8.3	K2.6
	4	P8.4	K3.2
	5	P8.5	K3.4
	6	P8.6	K3.6

X4	1	X14.2	X2.7 / X0.2/A
	2	X14.4	X2.9 / X0.3/A
	3	X14.6 / X4.4	X2.5 / X0.1/A
	4	X4.3 / X4.5	n.c.
	5	X4.4	n.c.
	6	grnd - ballast tray facial	X1.9 / X6.1

connector/ contactor	pin	source	target
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X5	1	n.c.	n.c.
	2	n.c.	n.c.
	3	n.c.	n.c.
	4	X17.5	K6.2
	5	X17.6	X9.7 / E6.2
	6	X17.8	E2.5 / XC1
	7	X17.9	XC2
	8	X17.7	E2.4
	9	n.c.	n.c.

X6	1	X18.1	X4.6 / E2.1
	2	X18.2 / X6.3	X0.2/B
	3	X6.2	X0a.4
	4	X18.4	X0a.5
	5	X18.3	F2-output
	6	X18.5	E5.1
	7	X18.6	E5.2
	8	n.c.	n.c.
	9	n.c.	n.c.

X7	1	AMP Pin 11	K6.1 / E6.3
	2	n.c.	K6.A2 / Transformer
	3	AMP Pin 13	E1.1
	4	AMP Pin 1	E4.1
	5	AMP Pin 2	E4.2
	6	n.c.	X8.1

X8	1	X22A.1	X9.1 / X7.6
	2	X22.2	transformer 24V
	3	X22.1	transformer 24V
	4	n.c.	n.c.
	5	n.c.	n.c.
	6	n.c.	n.c.

connector/ contactor	pin	source	target
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X9	1	X23.1	X0a.PE / X8.1
	2	X23.2	F3 - output
	3	X23.3	X0.3/B / X9.7
	4	X23.4	K5.5
	5	X23.5	K5.6
	6	X23.6	E3.6
	7	X23.7	X9.3 / X5.5
	8	n.c.	n.c.
	9	n.c.	n.c.

XC	1	X5.6	motor capacitor body fan
	2	X5.7	motor capacitor body fan

K1	K1.1	X0.L1/B / K2.1
	K1.2	X1.1
	K1.3	X0.L2/B / K2.1
	K1.4	X1.5
	K1.5	X0.L3/B / K2.1
	K1.6	X2.1
	K1.21	n.c.
	K1.22	n.c.
	K1.A1	E3.4
	K1.A2	E7.2 / K2.A2

K2	K2.1	K1.1 / K3.1
	K2.2	X3.1
	K2.3	K1.3 / K3.3
	K2.4	X3.2
	K2.5	K1.5 / K3.5
	K2.6	X3.3
	K2.21	n.c.
	K2.22	n.c.
	K2.A1	E3.2
	K2.A2	K1.A2 / K3.A2

connector/ contactor	pin	source	target
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K3	K3.1	K2.1 / K4.1
	K3.2	X3.4
	K3.3	K2.3 / K4.3
	K3.4	X3.5
	K3.5	K2.5 / K4.5
	K3.6	X3.6
	K3.21	n.c.
	K3.22	n.c.
	K3.A1	E3.1
	K3.A2	K2.A2 / K4.A2

K4	K4.1	K3.1 / F1
	K4.2	F2
	K4.3	K3.3
	K4.4	F3
	K4.5	K3.5
	K4.6	E2.2
	K4.21	n.c.
	K4.22	n.c.
	K4.A1	E3.5
	K4.A2	K3.A2 / K5.A2

K5	K5.1	n.c.
	K5.2	n.c.
	K5.3	X9.4
	K5.4	X9.5
	K5.5	n.c.
	K5.6	n.c.
	K5.21	n.c.
	K5.22	n.c.
	K5.A1	E3.3
	K5.A2	K4.A2 / K6.A2

connector/ contactor	pin	source	target
K6	K6.1	F1-output / X7.1	
	K6.2	X5.4	
	K6.3	n.c.	
	K6.4	n.c.	
	K6.5	n.c.	
	K6.6	n.c.	
	K6.A1	E3.7	
	K6.A2	K5.A2 / X7.2	
F1	input	K4.1	
	output	K6.1	
F2	input	K4.2	
	output	X6.5	
F3	input	K4.4	
	output	X9.2	
F4	input	E7.3	
	output	Transformer	
transformer	220V	F4-output	
	220V	X7.2	
	24V	X8.2	
	24V	X8.3	

connector/ contactor	pin	source	target
E1	1	X7.3	
	2	E6.2 / E7.2	
	3	E6.3 / E7.3	
E2	1	X6.1	
	2	K4.6	
	3	X0.1/B	
	4	X5.8	
	5	X5.6	
	1	K3.A1	
	2	K2.A1	
	3	K5.A1	
	4	K1.A1	
	5	K4.A1	
	6	X9.6	
	7	K6.A1	
E4	1	X7.4	
	2	X7.5	
E5	1	X6.6 / E5.3	
	2	X6.7	
	3	E5.1	
	4	n.c.	
	5	n.c.	
	6	n.c.	
	7	n.c.	
E6	1	n.c.	
	2	X5.5 / E1.2	
	3	X1.7 / E1.3	
E7	1	n.c.	
	2	E1.2 / K1.A2	
	3	E1.3 / F4	

connector/ contactor	pin	source	target
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X10	1	P1.4	XD1.1
	2	P1.5	XD1.2
	3	P1.6	XD1.3
	4	P1.7	XD1.4
	5	P1.8	XD1.5
	6	P1.9	XD1.6
	7	P2.4	XD1.7
	8	P2.5	XD1.8
	9	P2.6	XD1.9

X11	1	P2.7	XD1.10
	2	P2.8	XD1.11
	3	P2.9	XD1.12
	4	P3.4	XD2.1
	5	P3.5	XD2.2
	6	P3.6	XD2.3
	7	P3.7	XD2.4
	8	P3.8	XD2.5
	9	P3.9	XD2.6

X12	1	P4.4	XD2.7
	2	P4.5	XD2.8
	3	P4.6	XD2.9
	4	P4.7	XD2.10
	5	P4.8	XD2.11
	6	P4.9	XD2.12
	7	n.c.	n.c.
	8	n.c.	n.c.
	9	n.c.	n.c.

X13	1	n.c.	n.c.
	2	n.c.	n.c.
	3	X1.9	PE Decke
	4	n.c.	n.c.
	5	n.c.	n.c.
	6	P1.3	XD4.3/A
	7	P2.3	XD4.7/A
	8	P3.3	XD4.11/A
	9	P4.3	XD4.15/A

connector/ contactor	pin	source	target
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X14	1	P8.7	XD3.7
	2	X4.1	XD3.8
	3	P8.8	XD3.9
	4	X4.2	XD3.10
	5	P8.9	XD3.11
	6	X4.3	XD3.12

X15	1	P5.4	XL1.1
	2	P5.5	XL1.2
	3	P5.6	XL1.3
	4	P5.7	XL1.4
	5	P5.8	XL1.5
	6	P5.9	XL1.6
	7	P6.4	XL1.7
	8	P6.5	XL1.8
	9	P6.6	XL1.9

X16	1	P6.7	XL2.1
	2	P6.8	XL2.2
	3	P6.9	XL2.3
	4	P7.4	XL2.4
	5	P7.5	XL2.5
	6	P7.6	XL2.6
	7	P7.7	XL2.7
	8	P5.3	XL2.8
	9	P6.3	XL2.9

X17	1	n.c.	n.c.
	2	n.c.	n.c.
	3	X17.6	XL3.3
	4	P7.3	XL3.4
	5	X5.4	XL3.5
	6	X5.5 / X17.3	XL3.6
	7	X5.8	XL3.7
	8	X5.6	XL3.8
	9	X5.7	XL3.9

connector/ contactor	pin	source	target
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X18 exhaust air fan	1	X6.1	ground
	2	X6.2	black
	3	X6.5	blue
	4	X6.4	brown
	5	X6.6	airflow switch
	6	X6.7	airflow switch

X19 body air fan	1	frame / X25.1	ground
	2	XL3.7	black
	3	XL3.8	blue
	4	XL3.9	brown
	5	XL3.6	deko lighting left hand side
	6	ballast 13W	deko lighting left hand side

X21 deko lighting right hand side	1	ballast 13W	deko lighting right hand side
	2	XL3.6	deko lighting right hand side
	3	n.c.	n.c.

connector/ contactor	pin	source	target
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X22 heat return	1	X8.3	blue
	2	X8.2 / X22A.2	brown
	3	X22A.3	white

X22A heat return	1	X8.1	thermostat PE
	2	X22.2	thermostat PIN 1
	3	X22.3	thermostat PIN 3

X23 airconditioner condensate pump	1	X9.1	ground
	2	X9.2	L1-aircon
	3	X9.3	L2-aircon
	4	X9.4	compressor
	5	X9.5	compressor
	6	X9.6	L1 - pump
	7	X9.7	L2 - pump
	8	n.c.	n.c.
	9	n.c.	n.c.

X25 fan base	1	X19.1	ground
	2	XL3.7	blue
	3	XL3.8	black

connector/ contactor	pin	source	target
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XD1 connector canopy	1	X10.1	tube 1
	2	X10.2	tube 2
	3	X10.3	tube 3
	4	X10.4	tube 4
	5	X10.5	tube 5
	6	X10.6	tube 6
	7	X10.7	tube 7
	8	X10.8	tube 8
	9	X10.9	tube 9
	10	X11.1	tube 10
	11	X11.2	tube 11
	12	X11.3	tube 12

XD2 connector canopy	1	X11.4	Röhre 13
	2	X11.5	Röhre 14
	3	X11.6	Röhre 15
	4	X11.7	Röhre 16
	5	X11.8	Röhre 17
	6	X11.9	Röhre 18
	7	X12.1	Röhre 19
	8	X12.2	Röhre 20
	9	X12.3	Röhre 21
	10	X12.4	Röhre 22
	11	X12.5	Röhre 23
	12	X12.6	Röhre 24

XD3 connector canopy	1	n.c.	n.c.
	2	n.c.	n.c.
	3	n.c.	n.c.
	4	n.c.	n.c.
	5	n.c.	n.c.
	6	n.c.	n.c.
	7	X14.1	facial 1
	8	X14.2	cutout filter pane facial 1
	9	X14.3	facial 2
	10	X14.4	cutout filter pane facial 2
	11	X14.5	facial 3
	12	X14.6	cutout filter pane facial 3

connector/ contactor	pin	source	target
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XD4 (tubes distribution block top)		XD4.1	tube 1	tube 4
		XD4.2	tube 2	n.c.
		XD4.3	X13.6	tube 5
		XD4.4	tube 3	tube 6
		XD4.5	tube 7	tube 10
		XD4.6	tube 8	n.c.
	XD4.7	X13.7	tube 11	
	XD4.8	tube 9	tube 12	
	XD4.9	tube 13	tube 16	
	XD4.10	tube 14	n.c.	
	XD4.11	X13.8	tube 17	
	XD4.12	tube 15	tube 18	
	XD4.13	tube 19	tube 22	
	XD4.14	tube 20	n.c.	
	XD4.15	X13.9	tube 23	
	XD4.16	tube 21	tube 24	

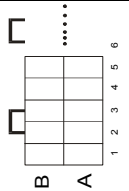
connector/ contactor	pin	source	target
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XL1 connector base	1	X15.1	tube 25
	2	X15.2	tube 26
	3	X15.3	tube 27
	4	X15.4	tube 28
	5	X15.5	tube 29
	6	X15.6	tube 30
	7	X15.7	tube 31
	8	X15.8	tube 32
	9	X15.9	tube 33

XL2 connector base	1	X16.1	tube 34
	2	X16.2	tube 35
	3	X16.3	tube 36
	4	X16.4	tube 37
	5	X16.5	tube 38
	6	X16.6	tube 39
	7	X16.7	tube 40
	8	X16.8	XL4.3/A
	9	X16.9	XL4.7/A

XL3 connector base	1	n.c.	n.c.
	2	n.c.	n.c.
	3	X17.3	deko lighting front
	4	X17.4	XL4.11/A
	5	X17.5	ballasts deko
	6	X17.6	X19.5 / X21.2
	7	X17.7	X19.2 / X25.2
	8	X17.8	X19.3 / X25.3
	9	X17.9	X19.4

connector/ contactor	pin	source	target
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 XL4 (tubes distribution block top)	XL4.1	tube 25	tube 28
	XL4.2	tube 26	n.c.
	XL4.3	XL2.8	tube 29
	XL4.4	tube 27	tube 30
	XL4.5	tube 31	tube 34
	XL4.6	tube 32	n.c.
	XL4.7	XL2.9	tube 35
	XL4.8	tube 33	tube 36
	XL4.9	tube 37	n.c.
	XL4.10	tube 38	n.c.
	XL4.11	XL3.4	
	XL4.12	tube 39	tube 40

connector/ contactor	pin	source	target
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P1 ballast tray 1	1	X1.1 / P1.2	ballast 1 - 3 / capacitor
	2	P1.1	ballast 4 - 6 / capacitor
	3	X2.6 / X13.6	capacitors
	4	X10.1	ballast1
	5	X10.2	ballast2
	6	X10.3	ballast3
	7	X10.4	ballast4
	8	X10.5	ballast5
	9	X10.6	ballast6

P2 ballast tray 2	1	X1.5 / P2.2	ballast 7 - 9 / capacitor
	2	P2.1	ballast 10 - 12 / capacitor
	3	X2.8 / 13.7	capacitors
	4	X10.7	ballast7
	5	X10.8	ballast8
	6	X10.9	ballast9
	7	X11.1	ballast10
	8	X11.2	ballast11
	9	X11.3	ballast12

P3 ballast tray 3	1	X2.1 / P3.2	ballast 13 - 15 / capacitor
	2	P3.1 / P4.1	ballast 16 - 18 / capacitor
	3	X2.4 / X13.8	capacitors
	4	X11.4	ballast13
	5	X11.5	ballast14
	6	X11.6	ballast15
	7	X11.7	ballast16
	8	X11.8	ballast17
	9	X11.9	ballast18

P4 ballast tray 4	1	P3.2	ballast 19 - 21 / capacitor
	2	X2.1	ballast 22 - 24 / capacitor
	3	X2.4 / X13.9	capacitors
	4	X12.1	ballast19
	5	X12.2	ballast20
	6	X12.3	ballast21
	7	X12.4	ballast22
	8	X12.5	ballast23
	9	X12.6	ballast24

connector/ contactor	pin	source	target
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P5 ballast tray 5	1	X2.2 / P5.2	ballast 25 - 27 / capacitor
	2	P5.1	ballast 28 - 30 / capacitor
	3	X2.5 / X16.8	capacitors
	4	X15.1	ballast25
	5	X15.2	ballast26
	6	X15.3	ballast27
	7	X15.4	ballast28
	8	X15.5	ballast29
	9	X15.6	ballast30

P6 ballast tray 6	1	X1.6 / P6.2	ballast 31 - 33 / capacitor
	2	P6.1	ballast 34 - 36 / capacitor
	3	X2.9 / X16.9	capacitors
	4	X15.7	ballast31
	5	X15.8	ballast32
	6	X15.9	ballast33
	7	X16.1	ballast34
	8	X16.2	ballast35
	9	X16.3	ballast36

P7 ballast tray 7	1	X1.2 / P7.2	ballast 37 - 38 / capacitor
	2	P7.1	ballast 40 / capacitor
	3	X2.7 / X17.4	capacitors
	4	X16.4	ballast37
	5	X16.5	ballast38
	6	X16.6	ballast39
	7	X16.7	ballast40
	8	n.c.	n.c.
	9	n.c.	n.c.

P8 ballast tray 8 facial	1	X3.1	input level I facial 1
	2	X3.2	input level I facial 2
	3	X3.3	input level I facial 3
	4	X3.4	input level II facial 1
	5	X3.5	input level II facial 2
	6	X3.6	input level II facial 3
	7	X14.1	output facial 1
	8	X14.3	output facial 2
	9	X14.5	output facial 3