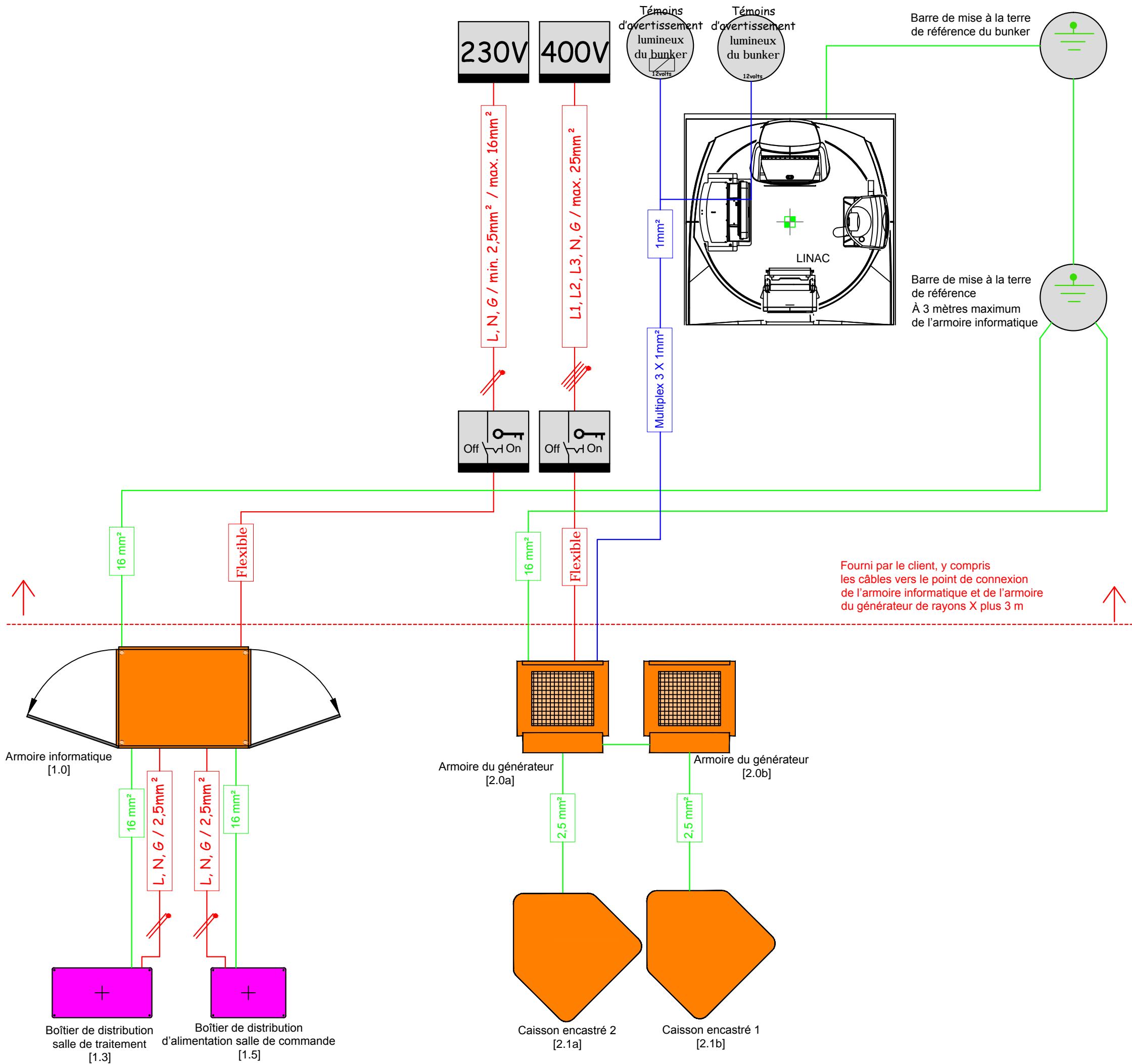


Brainlab 00131.dwg	
<b>RT-Coordination</b>	
Drawn by	
<b>LUC</b>	Brainlab Sales GmbH
Scale	t: +49 89 991568 0
	f: +49 89 991568 33
	Olof Palme Straße 9
Date	81829 Munich
<b>2017-02-06</b>	Germany



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Rev.	Date	Description
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## ExacTrac X-Ray v. 6.5

ExacTrac 6.X with ELEKTA

Hospital / Department / Project Address

Electrical Requirements

Olof Palme Straße 9

81829 Munich

Germany

Drawing Title

Grounding concept  
and customer cabling

Onsite Contact Person / Architect / Project Manager

Alexandra Yvonet

File Name

Distribution\_box\_ELEKTA

Dwg.No.

02 of 09

Version

1

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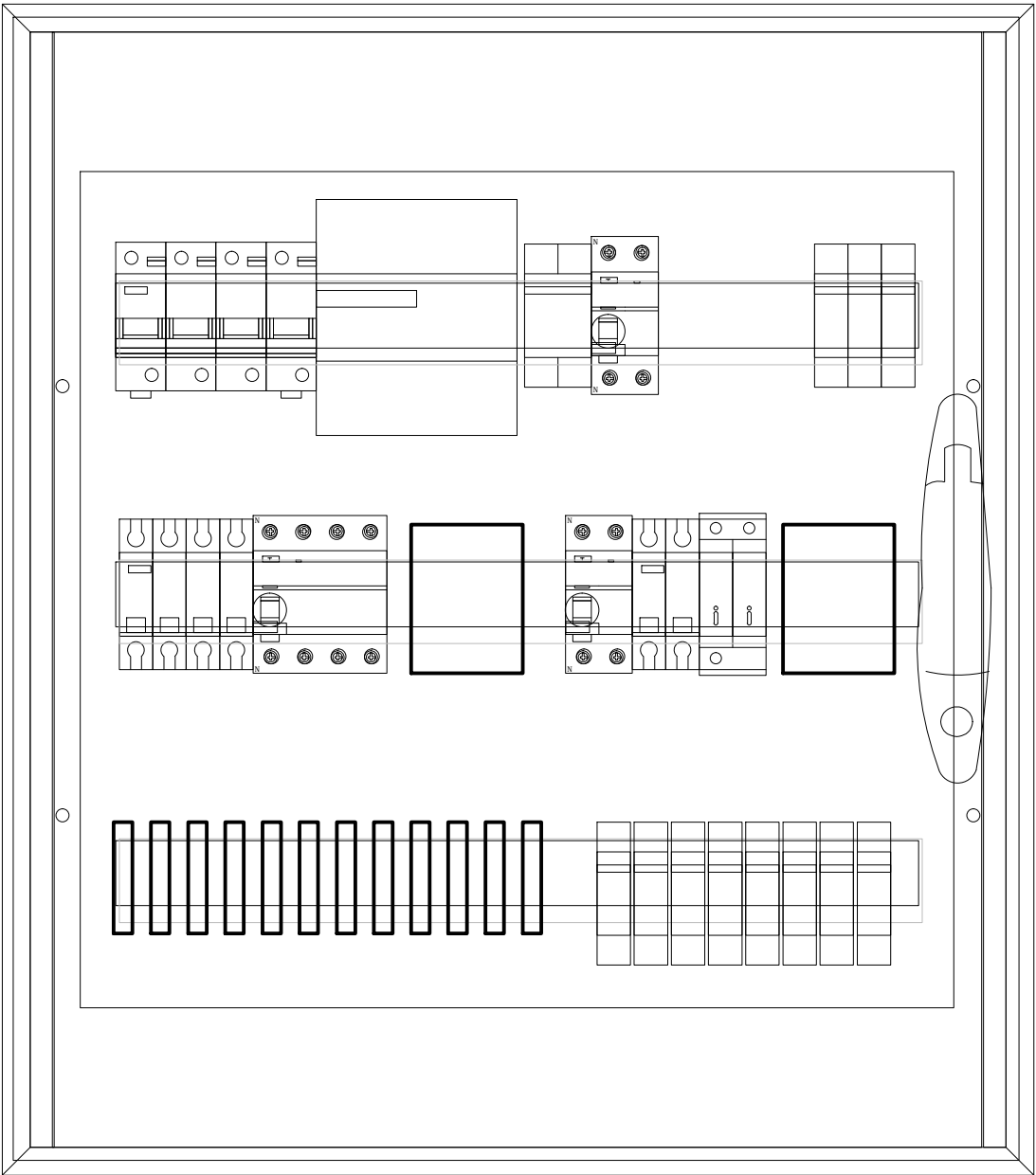
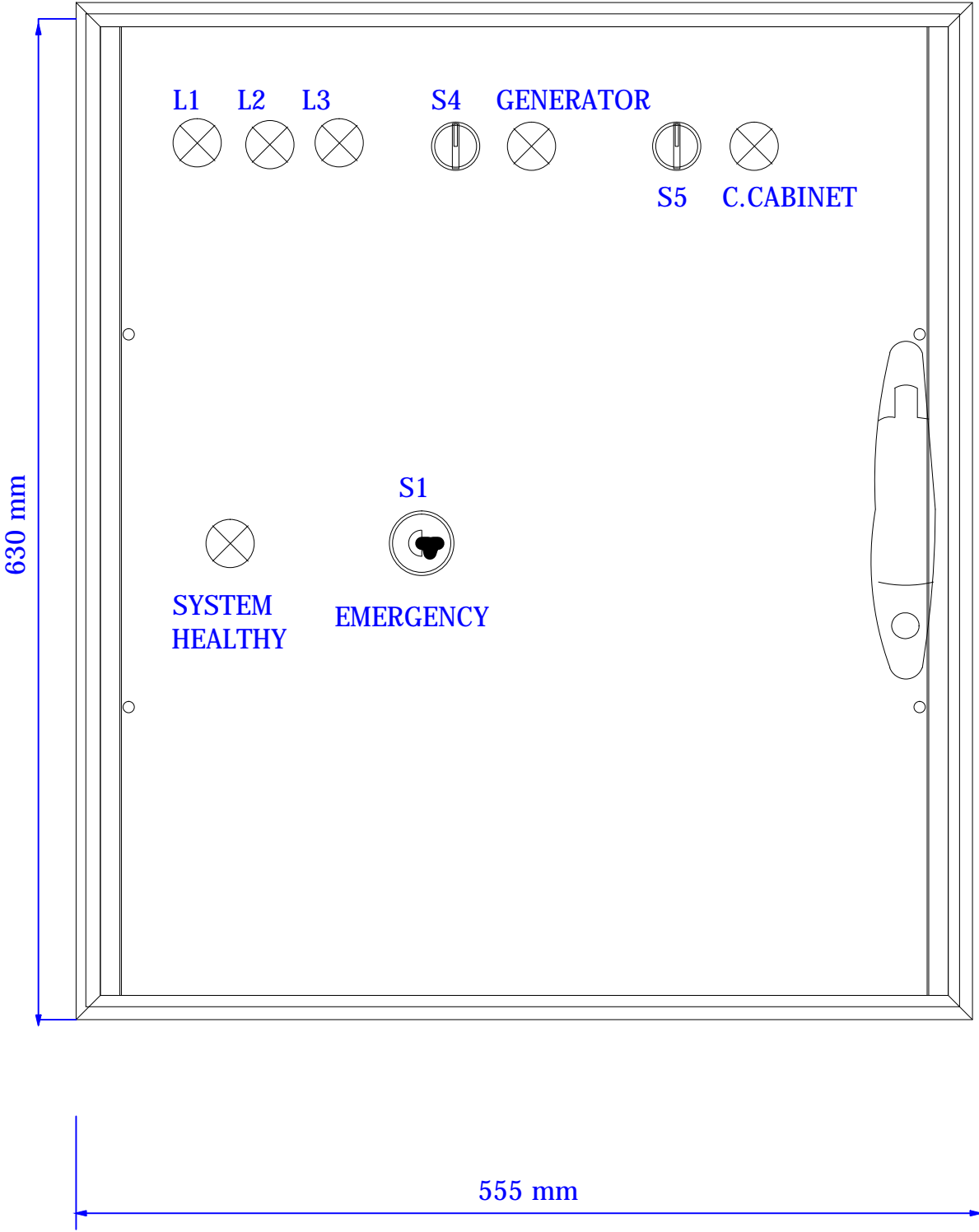
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Germany

DISTRIBUTION BOX (LAYOUT)



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ExacTrac X-Ray v. 6.5

ExacTrac 6.X with ELEKTA

Hospital / Department / Project Address

Electrical Requiereements

Olof Palme Straße 9

81829 Munich

Germany

Drawing Title

Power Distribution Box

Onsite Contact Person / Architect / Project Manager

Alexandra Yvonet

File Name

Distribution\_box\_ELEKTA

20180131.dwg

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Scale

No Scale

Date

2017-02-06

Dwg.No.

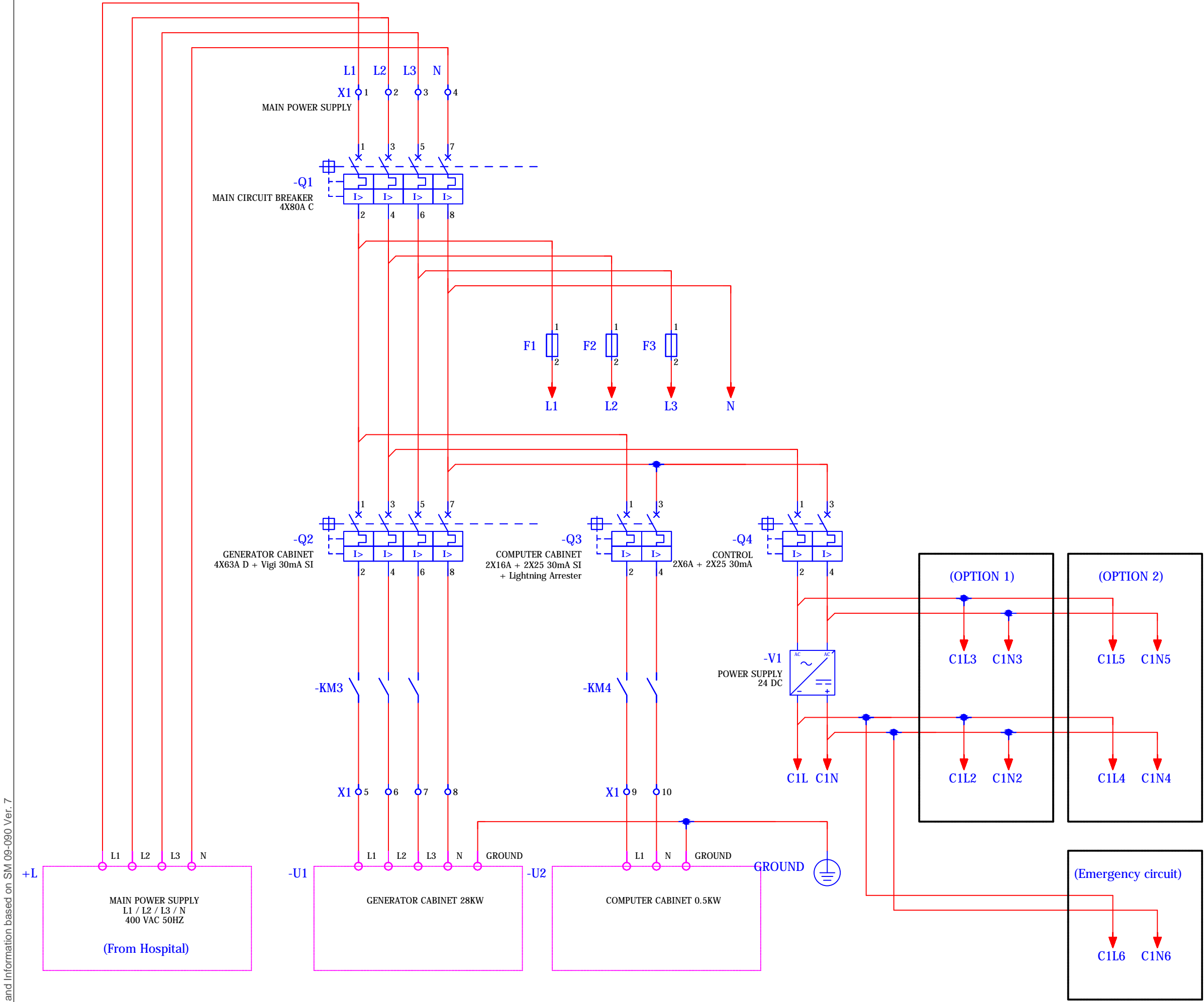
03 of 09

Version

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Drawings and Information based on SM 09-090 Ver. 7



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Rev.	Date	Description

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ExacTrac 6.X with ELEKTA

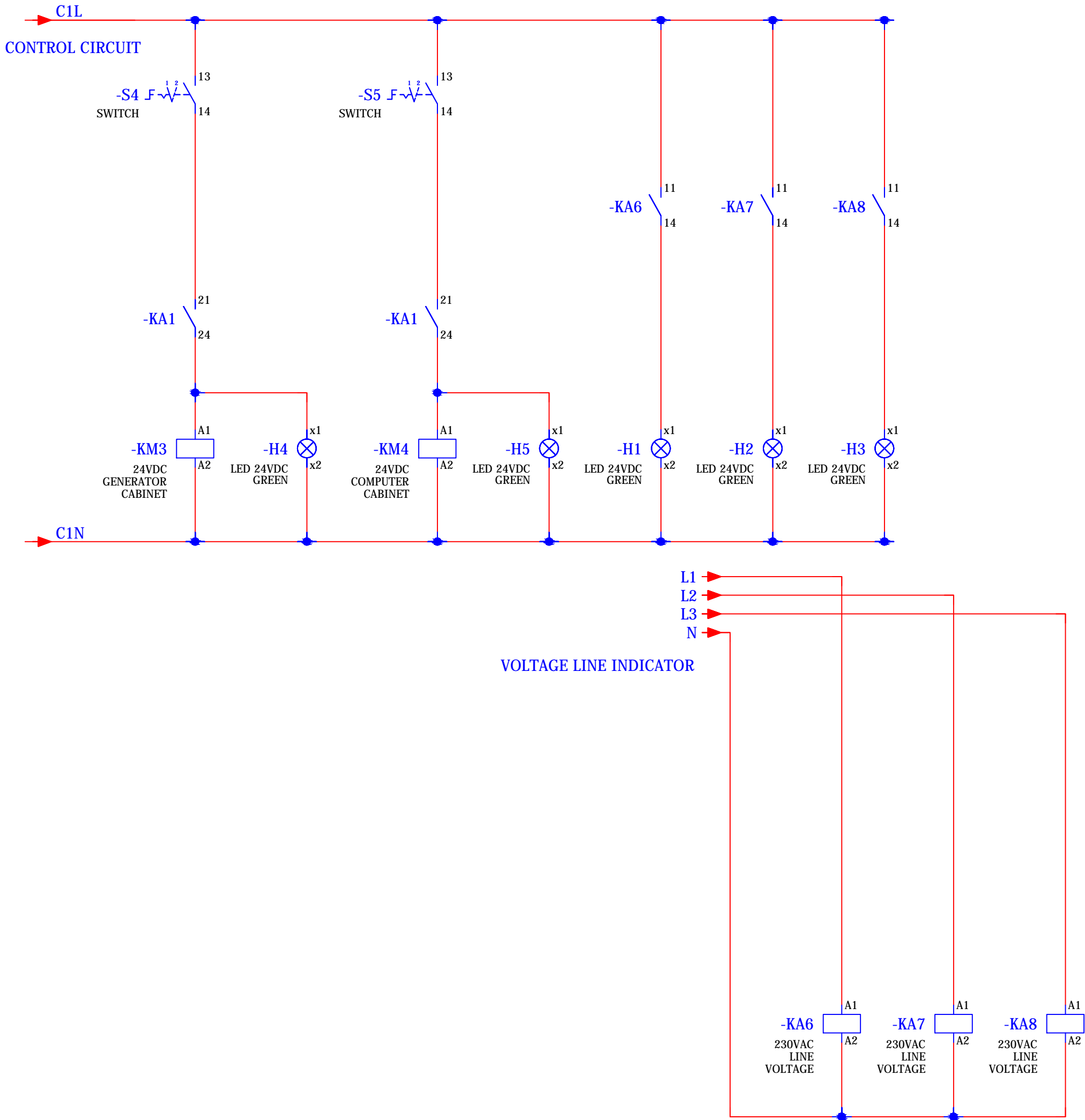
Hospital / Department / Project Address  
Electrical Requirements  
Olof Palme Straße 9  
81829 Munich  
Germany

Drawing Title  
Main Line

Onsite Contact Person / Architect / Project Manager  
Alexandra Yvonet

File Name	Dwg.No.	Version
Distribution_box_ELEKTA	04 of 09	1

RT-Coordination	Brainlab Sales GmbH t: +49 89 991568 0 f: +49 89 991568 33 Olof Palme Straße 9 81829 Munich Germany
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Rev.	Date	Description

ExacTrac X-Ray v. 6.5

ExacTrac 6.X with ELEKTA

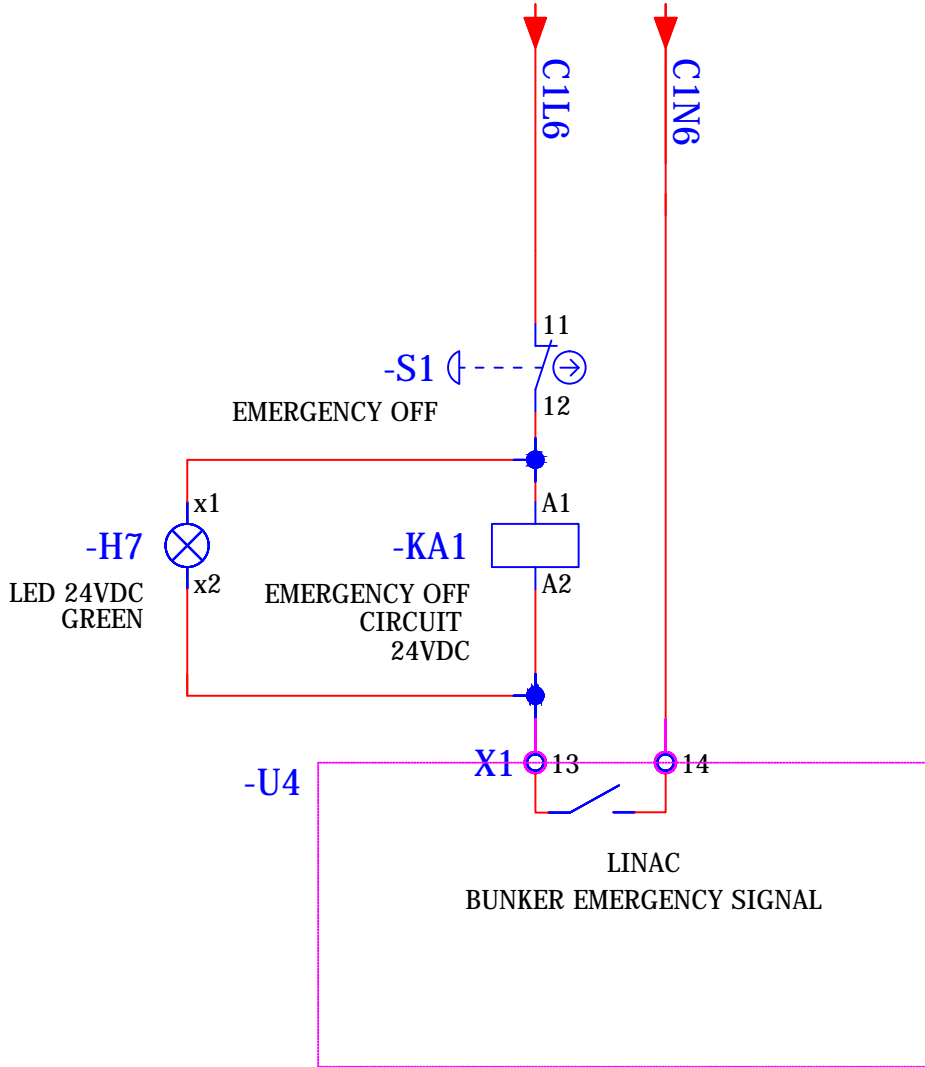
Hospital / Department / Project Address  
Electrical Requierements  
Olof Palme Straße 9  
81829 Munich  
Germany

Drawing Title  
Control Circuit

Onsite Contact Person / Architect / Project Manager  
Alexandra Yvonet

File Name	Dwg.No.	Version
Distribution_box_ELEKTA	05 of 09	1

RT-Coordination	Brainlab Sales GmbH t: +49 89 991568 0 f: +49 89 991568 33 Olof Palme Straße 9 81829 Munich Germany
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Rev.	Date	Description

ExacTrac X-Ray v. 6.5

ExacTrac 6.X with ELEKTA

Hospital / Department / Project Address

Electrical Requierements

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81829 Munich

Germany

Drawing Title

Emergency Off

Onsite Contact Person / Architect / Project Manager

Alexandra Yvonet

File Name	Dwg.No.	Version
Distribution_box_ELEKTA	06 of 09	1

20180131.dwg

RT-Coordination

Drawn by

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Scale

No Scale

Date

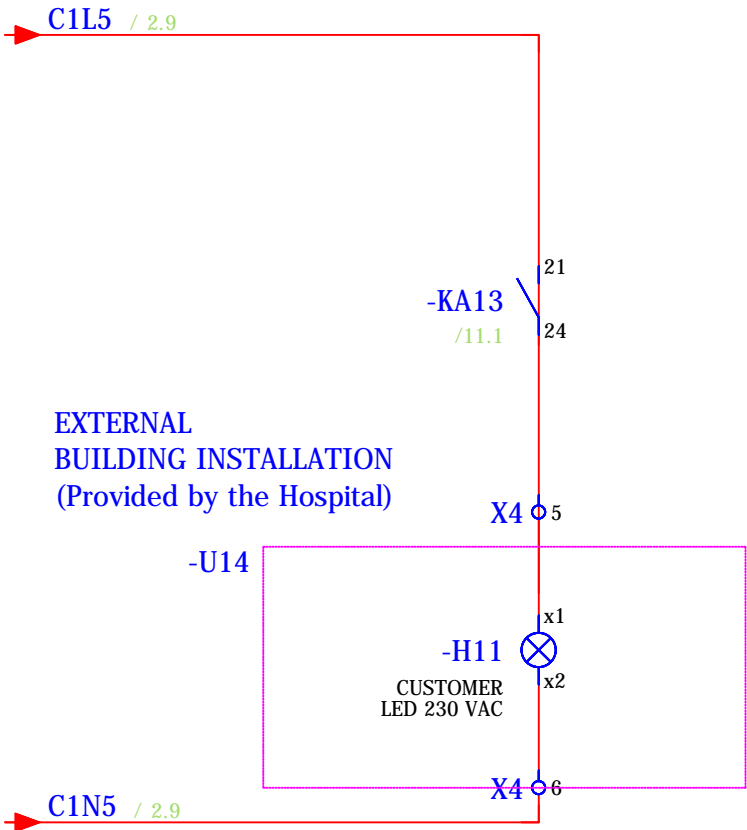
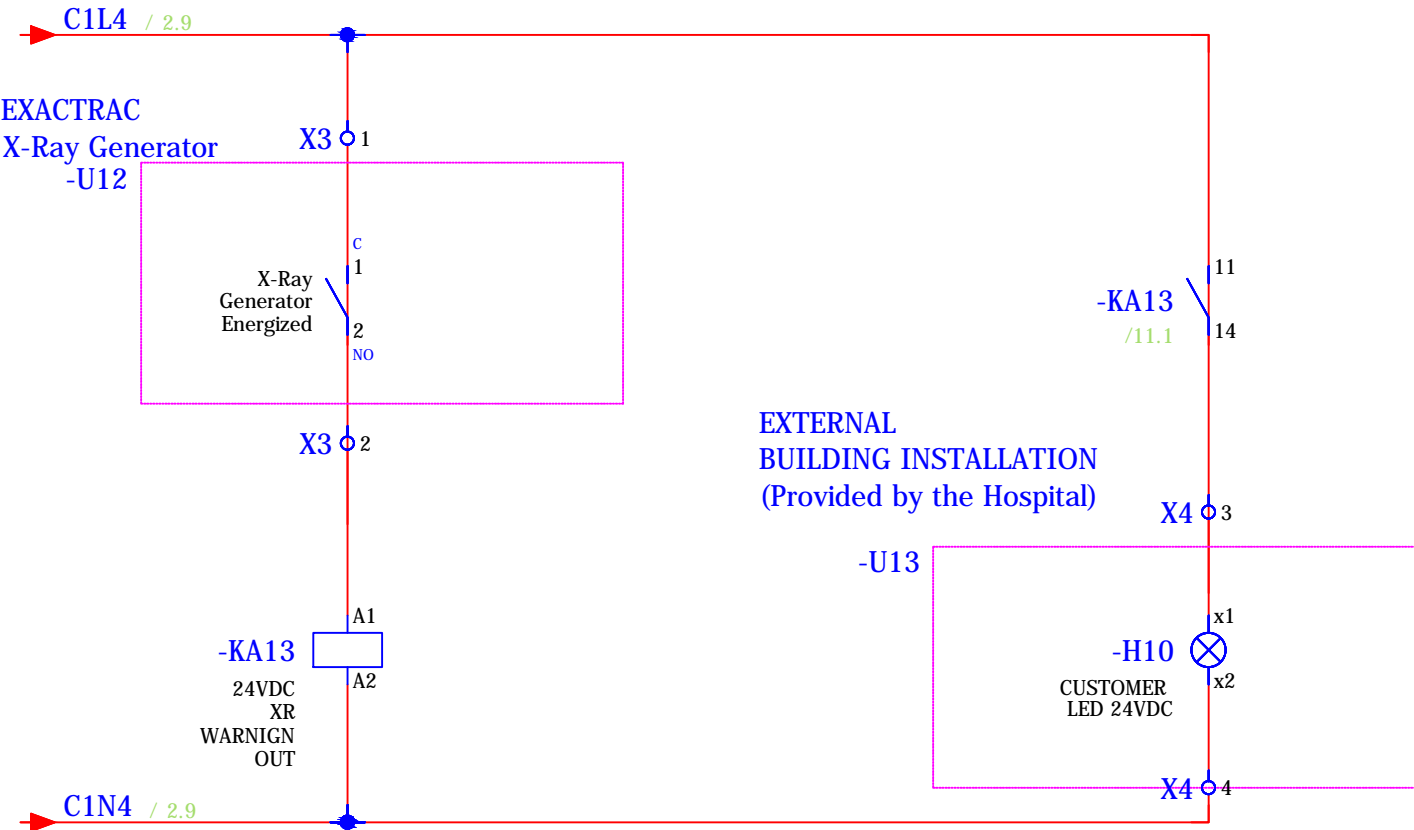
2017-02-06

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81829 Munich  
Germany

CUSTOMER WARNING LIGHTS (X-Ray generator energized)

THE POWER DISTRIBUTION BOX CAN BE DESIGNED TO PROVIDE 24DC VOLTS OR 230AC VOLTS.

CONTROL CIRCUIT



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ExacTrac X-Ray v. 6.5

ExacTrac 6.X with ELEKTA

Hospital / Department / Project Address

Electrical Requierements

Olof Palme Straße 9

81829 Munich

Germany

Drawing Title

Warning lights

Onsite Contact Person / Architect / Project Manager

Alexandra Yvonet

File Name

Distribution\_box\_ELEKTA

Dwg.No.

07 of 09

Version

1

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Germany

# Terminal diagram

function text	Target designation to	Connection point	terminal	Target designation to	Connection point	Page / path
=+-X1						
MAIN POWER SUPPLY	-Q1	1	1	+L	L1	/2.4
	-Q1	3	2	+L	L2	/2.4
	-Q1	5	3	+L	L3	/2.4
	-Q1	7	4	+L	N	/2.4
GENERATOR CABINET	-U1	L1	5	-KM3		/2.4
	-U1	L2	6	-KM3		/2.4
	-U1	L3	7	-KM3		/2.4
	-U1	N	8	-Q2	8	/2.4
COMPUTER CABINET	-U2	L1	9	-KM4		/2.6
	-U2	N	10	-KM4		/2.6
DOOR SWITCH	-U3		11	C1L1		/3.6
	C1L2		12	-U3		/3.6
EMERGENCY OFF CIRCUIT	-U4		13	-KA1	A2	/4.1
	-U4		14	-S1	11	/4.1
EXACTRAC COMPUTER CABINET	-U5	3	15	-KA5	14	/4.3
	-U5	7	16	-KA5	11	/4.3
EXACTRAC COMPUTER CABINET	-U5		17	-KA1	34	/4.5
	-U5		18	-KA1	31	/4.5

(\*): These drawings have been elaborated according to the standard UNE-EN 60439 and Brainlab specifications (Exactrac Pre-Installation Information SM\_09\_090)

# Terminal diagram

## OPTION 1: CUSTOMER WARNING LIGHTS (X-Ray in use)

function text	Target designation to	Connection point	terminal	Target designation to	Connection point	Page / path
=+-X3						
XR WARNING OUT	-U8	1	1	VTL111	2	/10.1
=	-KA12	A1	2	-U8	2	/10.1
CUSTOMER WARNIGN LIGHT 24VDC	-U9-H10	x1	3	-KA12	14	/10.3
=	VTL112	3	4	-U9-H10	x2	/10.3
CUSTOMER WARNIGN LIGHT 230 VAC	-U10-H11	x1	5	-KA12	24	/10.6
=	-V1		6	-U10-H11	x2	/10.6

# Terminal diagram

## OPTION 2: CUSTOMER WARNING LIGHTS (X-Ray Generator Energized)

function text	Target designation to	Connection point	terminal	Target designation to	Connection point	Page / path
=+-X3						
X-Ray Generator Energized	-U12	1	1	VTL111	2	/11.1
=	-KA13	A1	2	-U12	2	/11.1
CUSTOMER WARNIGN LIGHT 24VDC	-U13-H10	x1	3	-KA13	14	/11.3
=	VTL112	3	4	-U13-H10	x2	/11.3
CUSTOMER WARNIGN LIGHT 230 VAC	-U14-H11	x1	5	-KA13	24	/11.6
=	-V1		6	-U14-H11	x2	/11.6

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4		
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Rev.	Date	Description

## ExacTrac X-Ray v. 6.5

ExacTrac 6.X with ELEKTA		
Hospital / Department / Project Address		
Electrical Requierelements		
Olof Palme Straße 9		
81829 Munich		
Germany		

Drawing Title		
Terminal Diagrams		

Onsite Contact Person / Architect / Project Manager		
Alexandra Yvonet		

File Name	Dwg.No.	Version
Distribution_box_ELEKTA	08 of 09	1

RT-Coordination	Brainlab Sales GmbH t: +49 89 991568 0 f: +49 89 991568 33 Olof Palme Straße 9 81829 Munich Germany
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Scale	
No Scale	
Date	2017-02-06
2017-02-06	



QUANTITY	REFERENCE	DESCRIPTION	CIRCUIT	SUPPLIER
1	8003	Prisma Plus - G System - Surface-mount Pack enclosure - W = 550 mm - 3 rows	BOX	Shchneider Electric
1	8083	Prisma Plus - G System - Pack enclosure - plain door - W = 550 mm - 3 rows	BOX	Shchneider Electric
1	8940	Prisma Plus - G & P System - barrel lock 405	BOX	Shchneider Electric
1	8963	Prisma Plus - G & P System - adhesive drawing holder	BOX	Shchneider Electric
1	8878	Prisma Plus G System - Gland plate kit - plastic and interface - Pack enclosure	BOX	Shchneider Electric
1	8822	Prisma Plus - G System - flush-mount kit for Pack enclosure	BOX	Shchneider Electric
1	Z35-DP14-125	Power distribution block	BOX	Cembre
3	15635	STI 1P 8,5X31,5 400V + FUSE GG 8,5X31,5 1A	F1/F2/F3	Shchneider Electric
5	XB4BVB3	green complete pilot light Ø22 plain lens with integral LED 24V	-H1 /-H2 /-H3 /-H4 /-H5	Shchneider Electric
1	RXM4AB2BD	miniature plug-in relay - Zelio RXM - 4 C/O - 24 V DC - 12 A - with LED	-KA1	Shchneider Electric
1	RXM2AB2BD	miniature plug-in relay - Zelio RXM - 2 C/O - 24 V DC - 12 A - with LED	-KA2	Shchneider Electric
2	RXZE2M114	socket RXZ - mixed contact -10A - < 250V - screw clamp -for relay RXM2...,RXM4..	-KA1 / -KA2	Shchneider Electric
3	RPM12BD	power plug-in relay - Zelio RPM - 1 C/O - 24 V DC - 15 A - with LED	-KA6 / -KA7 / -KA8	Shchneider Electric
3	RPZF1	socket RXZ - mixed contact - 16 A - < 250 V - screw clamp - for relay RXM1..	-KA6 / -KA7 / -KA8	Shchneider Electric
1	LC1D65ABD	TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 65 A - 24 V DC coil	-KM3	Shchneider Electric
1	LC1D12BL	TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 24 V DC coil	-KM4	Shchneider Electric
1	18372	C120 - circuit breaker - C120N - 4P - 80A - C curve	-Q1	Shchneider Electric
1	A9F75463	Ic60n cicuit breaker 4P 63A D curve	-Q2	Shchneider Electric
1	A9V31463	Quick Vigi iC60 4P 63A 30mA A-SI	-Q2	Shchneider Electric
1	A9L16295	Quick PRD40r 1P+N overvoltage protection	-Q3	Shchneider Electric
1	A9R61225	iID 2P 25A 30mA A-SI	-Q3	Shchneider Electric
1	A9K17216	iK60N 2P 16A C	-Q3	Shchneider Electric
1	A9R60225	iID K 2P 25A 30mA AC-type	-Q4	Shchneider Electric
1	A9K17206	iK60N 2P 6A C	-Q4	Shchneider Electric
1	XB4BS8445	red Ø40 Emergency stop pushbutton Ø22 trigger latching turn release 1NO+1NC	-S1	Shchneider Electric
1	XB4BA31	green flush complete pushbutton Ø22 spring return 1NO unmarked	-S2	Shchneider Electric
1	XB4BA42	red flush complete pushbutton Ø22 spring return 1NC unmarked	-S3	Shchneider Electric
2	XB4BG41	complete selector switch Ø22 2-position stay put 1NO Ronis 455	-S4 / -S5	Shchneider Electric
1	ABL7RM24025	regulated SMPS with auto reset - 1 or 2-phase - 200...240 V AC - 24 V - 2.5 A	-V1	Shchneider Electric
10	AB1VVN3535U	terminal block - passthrough - 35mm2 screw -	X1	Shchneider Electric
8	AB1VV435U	terminal block - passthrough - 4mm2 screw - grey	X1	Shchneider Electric

(1)

(1)

OBSERVATIONS:  
(1):The Residual Current Circuit Breaker SI type provides increased immunity in the following operating conditions:  
  
- Generating high-frequency interference (current peaks)  
- Vicinity equipment generating transient overvoltages (High-powered switching devices)

OPTION 1: CUSTOMER WARNING LIGHTS (X-Ray in use)

QUANTITY	REFERENCE	DESCRIPTION	CIRCUIT	SUPPLIER
1	RXM2AB2JD	miniature plug-in relay - Zelio RXM - 2 C/O - 24 V DC - 12 A - with LED	-KA12	Shchneider Electric
1	RXZE2M114	socket RXZ - mixed contact -10A - < 250V - screw clamp -for relay RXM2...,RXM4..	-KA12	Shchneider Electric
6	AB1VV435U	terminal block - passthrough - 4mm2 screw - grey	X3	Shchneider Electric

OPTION 2: CUSTOMER WARNING LIGHTS (X-Ray Generator Energized)

QUANTITY	REFERENCE	DESCRIPTION	CIRCUIT	SUPPLIER
1	RXM2AB2JD	miniature plug-in relay - Zelio RXM - 2 C/O - 24 V DC - 12 A - with LED	-KA13	Shchneider Electric
1	RXZE2M114	socket RXZ - mixed contact -10A - < 250V - screw clamp -for relay RXM2...,RXM4..	-KA13	Shchneider Electric
6	AB1VV435U	terminal block - passthrough - 4mm2 screw - grey	X4	Shchneider Electric

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ExacTrac X-Ray v. 6.5

ExacTrac 6.X with ELEKTA

Hospital / Department / Project Address

Electrical Requiereements

Olof Palme Straße 9

81829 Munich

Germany

Drawing Title

List of components

Onsite Contact Person / Architect / Project Manager

Alexandra Yvonet

File Name

Dwg.No.

Version

Distribution\_box\_ELEKTA

09 of 09

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20180131.dwg

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