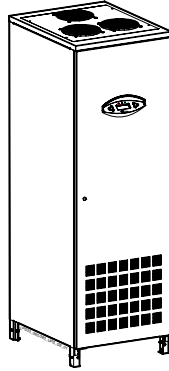


# GE Consumer & Industrial Power Protection



Schematics  
Uninterruptible Power supply

## Digital Energy™ *LP 33 Series*

60 & 80 kVA  
400 Vac CE / Series 1

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GE imagination at work



Certified  
Quality System  
**ISO 9001**  
Reg.No.CSQ 9130.GELE

Model: **LP 33 Series / 60 & 80 kVA / S1**

Date of issue: 01.10.2006

File name: EDW\_LPS\_33E\_60K\_80K\_1GB\_V010

Revision: 1.0

Identification No.:

Up-dating		
Revision	Concern	Date

## TECHNICAL DIAGRAMS

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# UPS CABINET

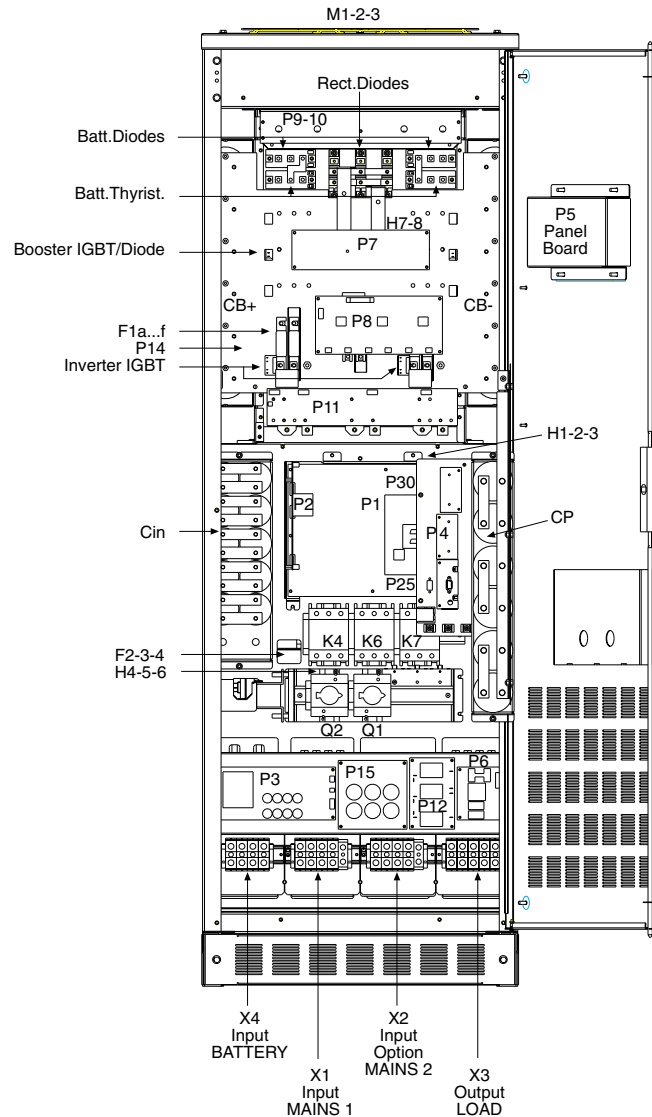
## COMPONENTS CHART

60kVA 80kVA

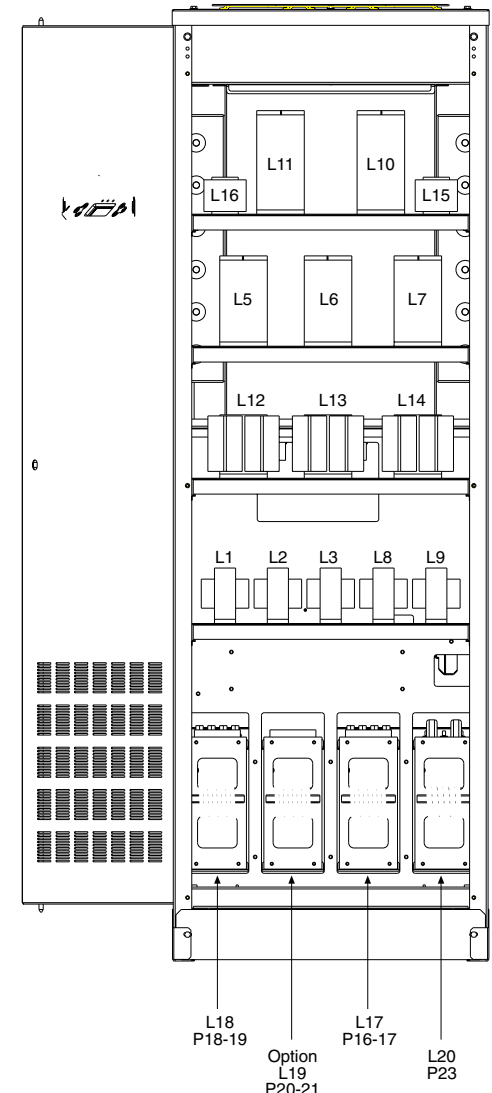
CB+ / --	2x(4x4700uF/450V)	2x(4x4700uF/450V)
C in-ph	3x (100uF+50uF)	3x (100uF+50uF)
C in_battery	2x (100uF+50uF)	2x (2x100uF)
CP	3x (2x150uF)	3x (2x200uF)
F1a...f	200 A	315 A
F2-3-4	100 A	125 A
H1-2-3-4-5-6	200A/4V	200A/4V
H7-8	200A/4V	400A/4V
H9-10-11 (only with Opt. 6 Pulses)	200A/4V	400A/4V
K4-6	90 A (220/230VAC)	140 A (220/230VAC)
K7	90 A (24VDC)	140 A (24VDC)
Q1-2	125 A	125 A
L1-2-3	BP-B-1221	BP-B-1222
L5-6-7	BP-B-1231	BP-B-1232
L8-9	BP-B-1226	BP-B-1227
L10-11	BP-B-1177	BP-B-1169
L12-13-14	BP-F-1235	BP-F-1239
L15-16	BP-B-1172	BP-B-1172
L17-18-19(Opt.)	BP-B-1248	BP-B-1248
L20	BP-B-1204	BP-B-1204
M1-2-3	925 mc/h	1x925+2x815 mc/h
P1 Control board	IM0094	IM0094
P2 Power supply	IM0109	IM0109
P3 Redundant power supply	IM0098	IM0098
P4 Customer interface (Opt.)	IM0005	IM0005
P5 Panel board	IM0053(0068 opt.)	IM0053(0068 opt.)
P6 Fan control board	IM0113	IM0113
P7 Booster driver	IM0091(0096 opt.)	IM0091(0096 opt.)
P8 Inverter driver	IM0102	IM0102
P9 Battery charger	IM0093	IM0093
P10 Electr. for battery charger	IM0099	IM0099
P11 SSM driver	IM0095	IM0095
P12 Minimal load for bypass	IM0046	IM0046
P13 RPA board (opt.)	IM0026	IM0026
P14 Power interface board	IM0101	IM0101
P15 K7 Power interface	IM0100	IM0100
P16(P20 Opt.) Interf.suppress.board	IM0135	IM0135
P17-18-19(P21 Opt.)Interf.suppr.b.	IM0134	IM0134
P23 Interface suppressor board	IM0104	IM0104
P25 Relay card	0996	0996
P30 SNMP card (Opt.)	IM0025	IM0025
P34 RPA adapter (Opt.)	IM0031	IM0031

		60kVA	80kVA
Diode BATTERY	D4,5	60A / 1000V(snubber)	220A / 1200V
Diode RECTIFIER	D1,2,3	105A / 1200V	105A / 1200V
IGBT INVERTER	T7,8,9	200A / 1200V	300A / 1200V
IGBT/Diode BOOSTER	T1...6	300A / 600V	300A / 600V
Resistor Bleeder		see P14	see P14
Snubber IGBT		3x2uF / 1000VDC	3x2uF / 1000VDC
Thyristors BATTERY	GT1,2	90A/1200V(Diode+Thyr.)	130A/1200V
Thyristors BYPASS	GT4,5,6	130A / 1200V	160A / 1200V

## FRONT VIEW



## REAR VIEW



1		5		Drawn by	Luchetta	11.04.2006
2		6		Checked by	C.M.	11.10.2006
3		7		Status	Released	11.10.2006
4		8				
Revision	Date	Revision	Date			

## COMPONENTS & VIEWS

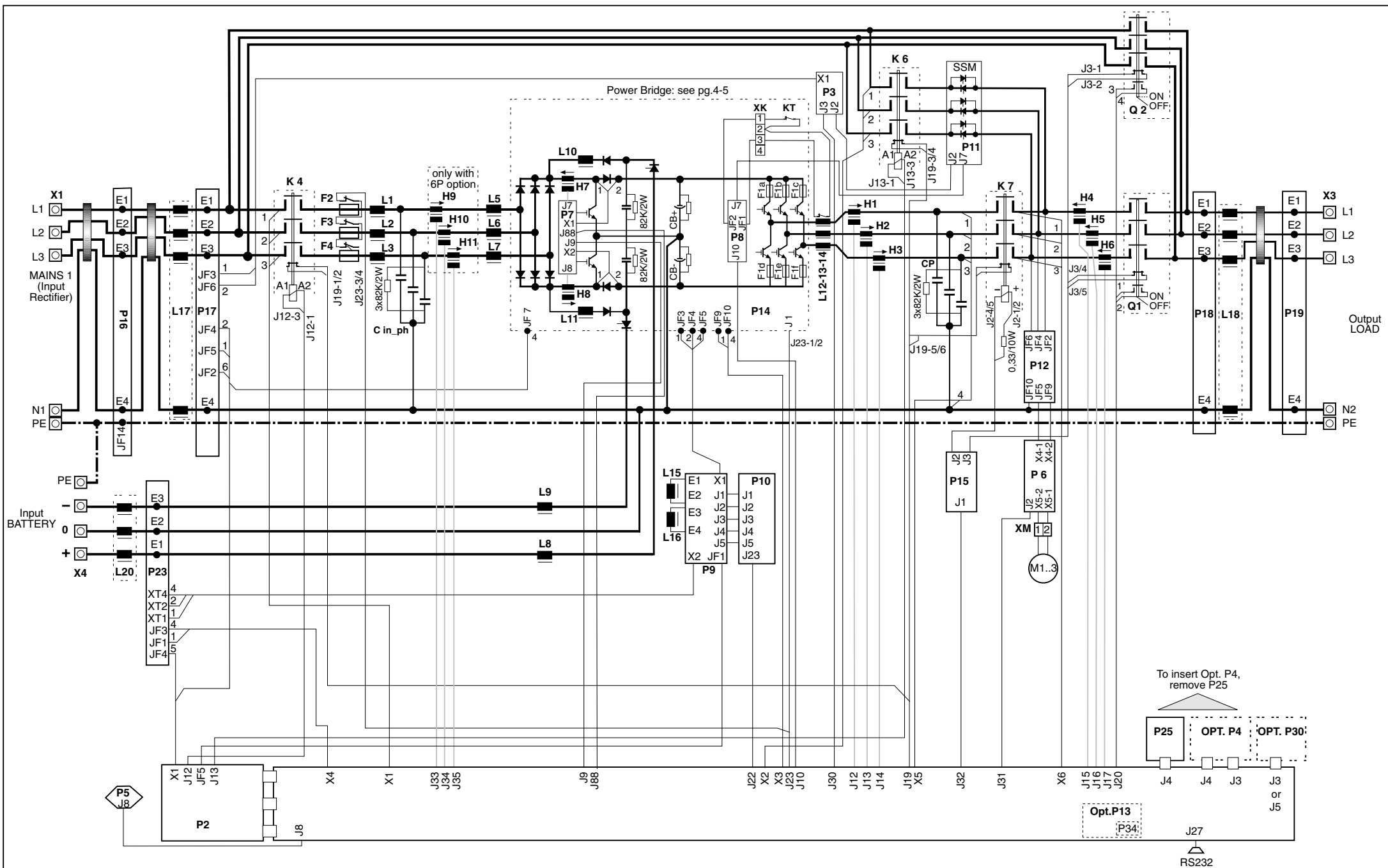
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**LP\_CE**  
60\_80 kVA

REPLACE: Serie 0

SERIES **1** Code **393583** Page 1 of Pages 5



1		5		Drawn by	Luchetta	17.03.2006
2		6		Checked by	C.M.	11.10.2006
3		7		Status	Released	11.10.2006
4		8				
Revision	Date	Revision	Date			

# FUNCTIONAL DRAWING COMMON INPUT MAINS 1-2

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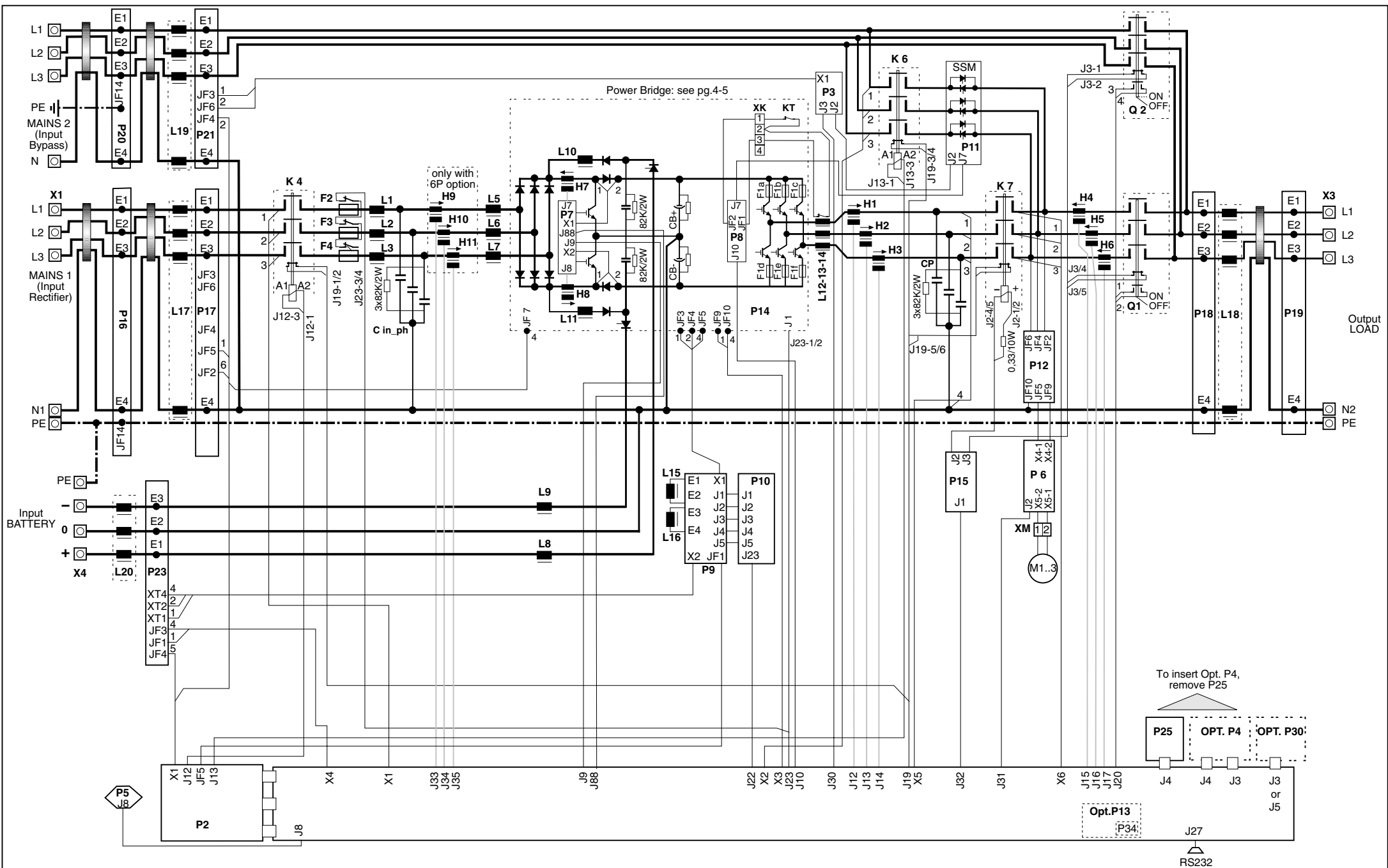


**LP\_CE**  
60-80 kVA

REPLACE: Serie 0

SERIES **1** Code **393583**

Page **2**  
of Pages 5



1		5		Drawn by	Luchetta	17.03.2006
2		6		Checked by	C.M.	11.10.2006
3		7		Status	Released	11.10.2006
4		8				
Revision	Date	Revision	Date			

## FUNCTIONAL DRAWING

### TWO INPUT MAINS (1-2)

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**LP\_CE**  
60-80 kVA

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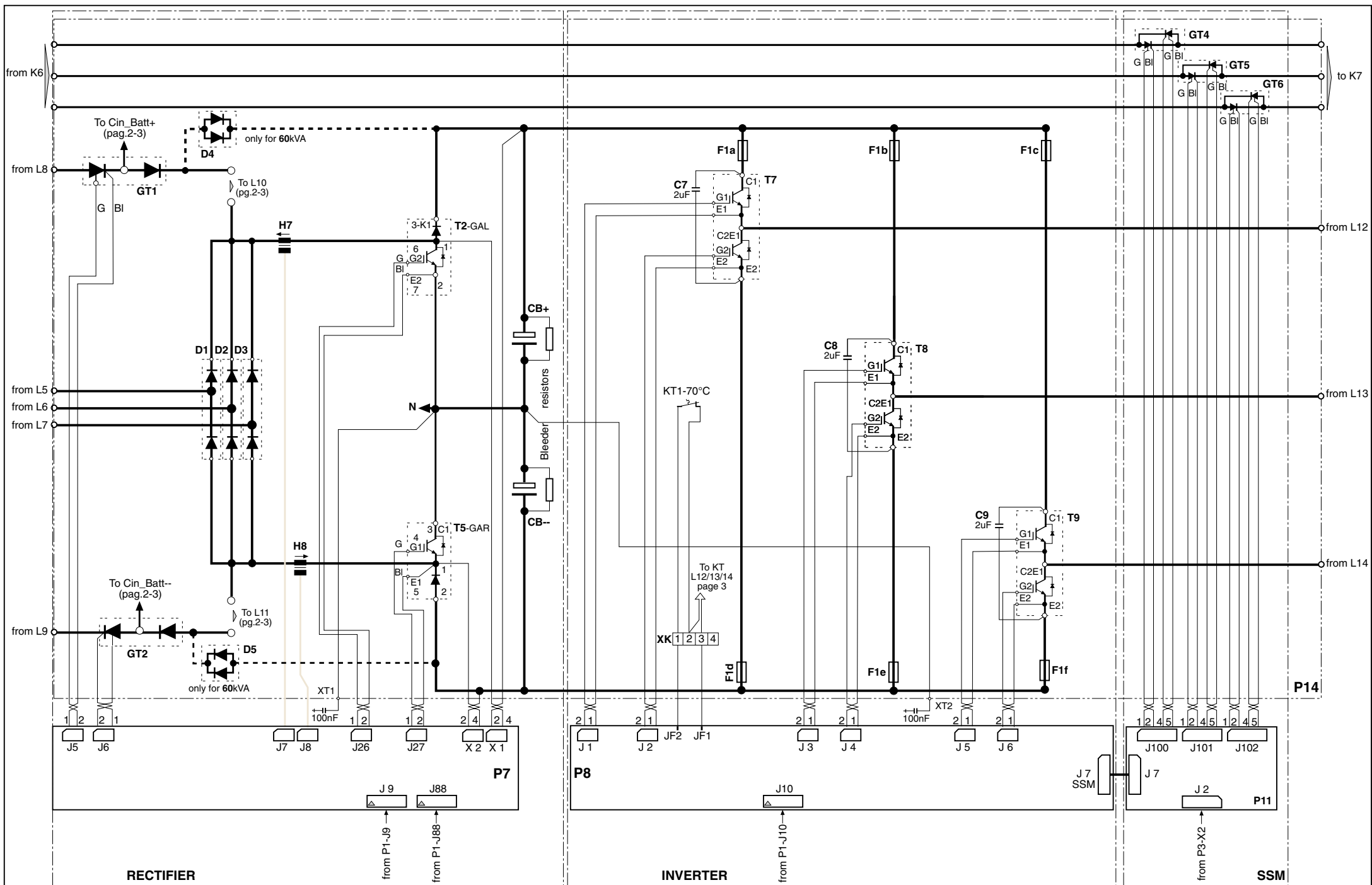
SERIES

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Code

**393583**

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of Pages 5



1		5		Drawn by	Luchetta	21.03.2006
2		6		Checked by	C.M.	11.10.2006
3		7		Status	Released	11.10.2006
4		8				
Revision	Date	Revision	Date			

# Power BRIDGE Rectif./Inverter 2 pulse/SSM

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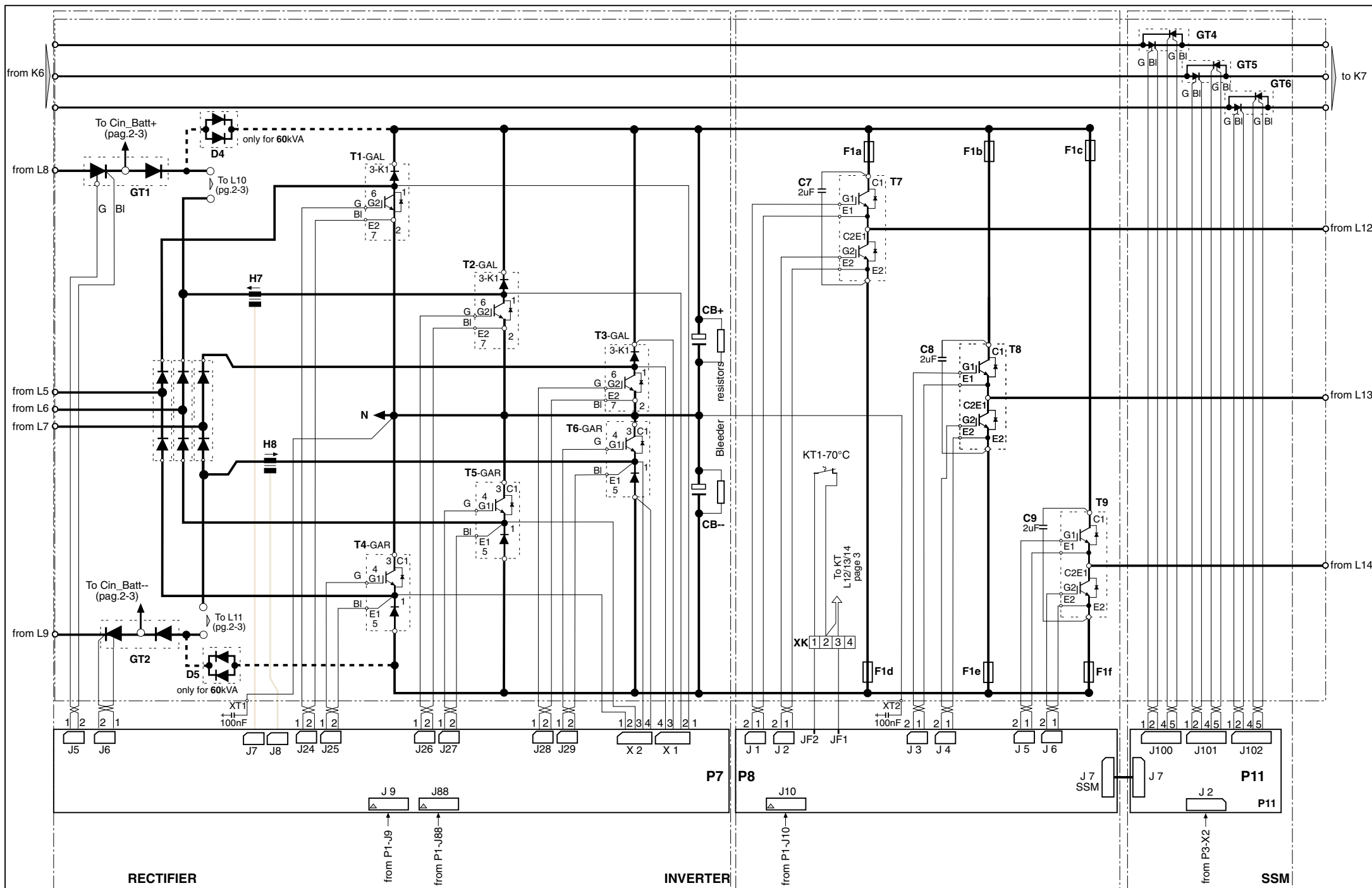
GE Digital Energy

**LP\_CE**  
60-80 kVA

REPLACE: Serie 0

SERIES **1** Code **393583**

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of Pages 5



1		5		Drawn by	Luchetta	21.03.2006
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3		7		Status	Released	11.10.2006
4		8				
Revision	Date	Revision	Date			

# Power BRIDGE Rectif./Inverter 6 pulse/SSM

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**LP\_CE**  
60-80 kVA

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