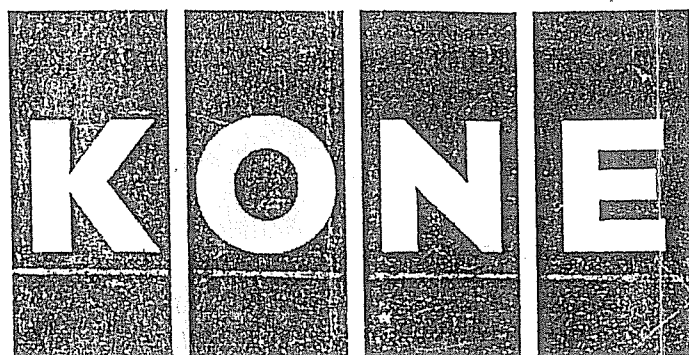


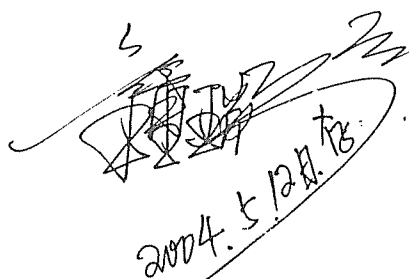
# 通力电梯



KONE 3000 MonoSpace<sup>®</sup> 电梯

只供参考之用  
FOR REFERENCE ONLY

## 电气原理图


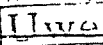
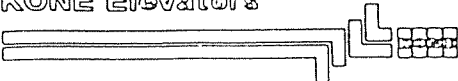
A handwritten signature in black ink is written over the date. The signature is stylized and appears to be 'Zhang' followed by some characters. The date '2004.5.12' is written in a cursive script below the signature.

2004.5.12

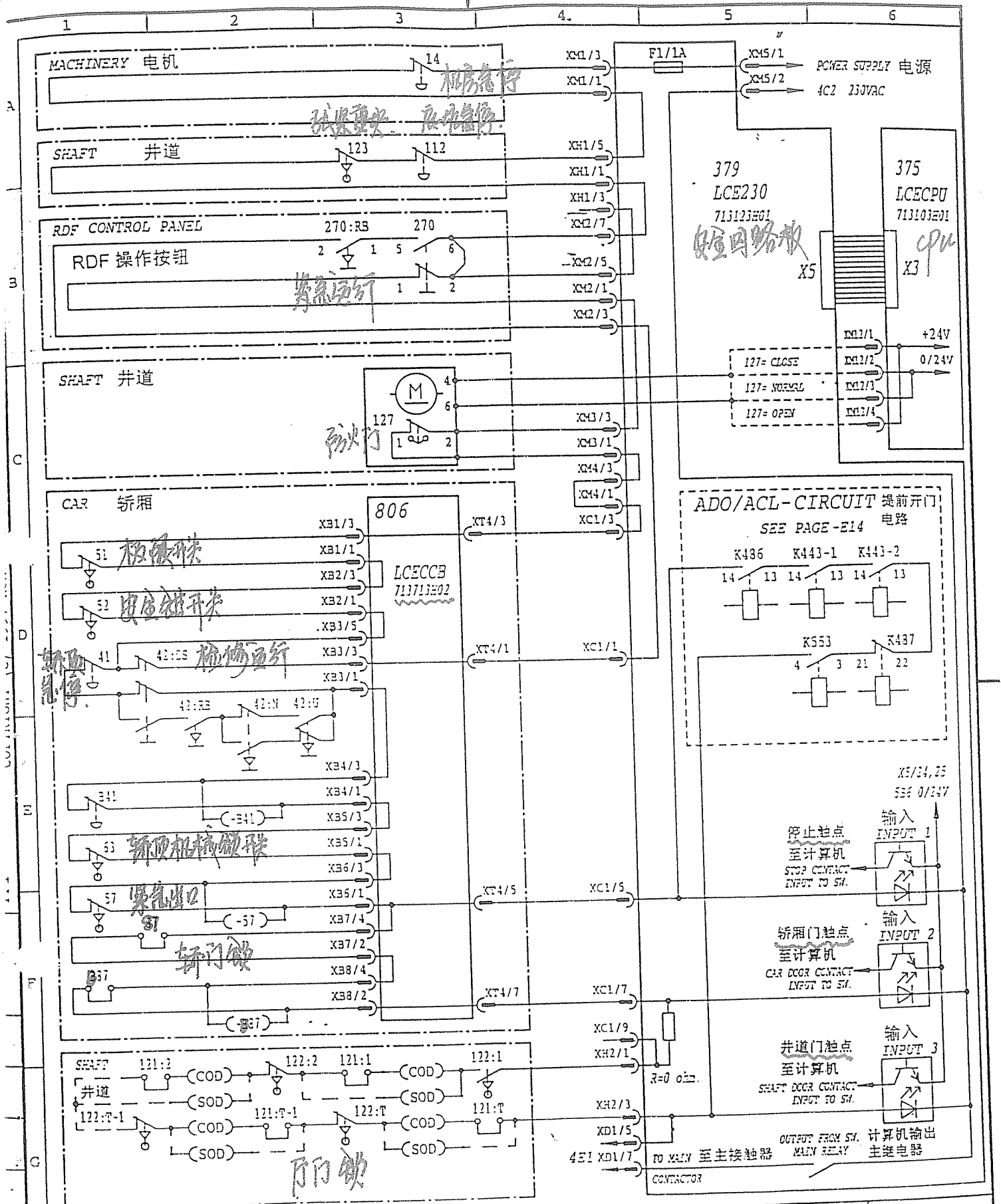
1	曳引马达	66	锁机开关	220	主电源开关
1: T	热敏电阻	71	消防开关	227	应急电池
6	测速计	77:U	"上行"减速开关	228	远程警报板LCERAL
10	马达风扇	77:N	"下行"减速开关	236	漏电保护
10: T	温控开关	77:S	同步开关	239	电流感应器
11	抱闸线圈	82	安全触板	262	照明电源主开关
13	曳引绳松断开关	84	门机	267	急停开关
14	机房急停开关	85	门机马达	268	照明继电器
18	机房火警指示	87	轿门触点	269:L	控制柜照明
20	主开关	88	电眼发射端	269:L1	应急照明
22	限速器开关	89	电眼接受端	269:L2	应急照明
25	地震装置	90	安全触板放大器	269:S	照明开关
26	对重限速器开关	93:U	司机"上行"指示	269:T	照明电源变压器
30	门区开关	93:N	司机"下行"指示	270	紧急电动运行开关
31	内呼按钮	96	轿厢指示器	270:U	紧急电动运行"上"
32	LCECOB输入/输出板	97	警报接受灯	270:N	紧急电动运行"下"
32: 1	LCECEB输入/输出板	100	对讲机	270:RB	紧急电动运行"运行"
33	司机服务开关	103	下行开关	274	控制柜电源插座
33: B	司机"直驶"按钮	104	上行开关	279	门区指示灯
33: U	司机"下行"按钮	105	优先服务开关	290:1	轿厢照明保险
33: N	司机"上行"按钮	106	紧急救助服务	290:2	井道照明保险
34	开门按钮	112	底坑急停开关	298	保险开关
34: S	关门按钮	113	特殊呼叫开关	306	制动电阻
34: E	关门延时按钮	116	锁机开关	372	开关模块
35	优先服务开关	120	开门监视功能	375	LCECPU
36	轿厢照明	121	厅门触点	379	安全回路板
37	轿厢风扇	122	厅门锁触点	385	驱动模块
39	警铃按钮	123	张紧重块触点	387	过滤模块
41	轿顶急停开关	125:1-2	缓冲器开关	390	电源模块
42: DS	检修运行开关	126	对重安全钳开关	722	LCEOPT
42: U	检修"上行"按钮	127	防火门	723	电源板
42: N	检修"下行"按钮	133	消防开关	731	LCEGTW
42: RB	检修"运行"按钮	137	井道照明开关	732	LCECAN
43	轿厢风扇	139	警铃	806	LCECCB
44	轿厢照明	140	称重装置	806:EXT	LCECCB扩展板
44: 1-2	紧急照明	157	井道照明	980	启动计数器
45	轿顶电源插座	158	底坑插座	985	运行时间计数器
51	极限开关	161	运行中指示灯	K443	门区接触器
52	安全钳开关	166	锁机指示灯	K486	速度测量接触器
53	钢丝绳松断开关	176	层站显示器	K487	ADO允许接触器
57	紧急出口开关	190	脱轨触点	K553	精确平层继电器
61:U	"上行"平层开关	193	层站火警指示		
61:N	"下行"平层开关	197	层站LCEFCB板		
63	轿顶机械锁开关	198	层站LCEFOB板		
64	称重装置	201	主接触器		
65	轿顶报警器	209	抱闸接触器		

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正式图样  
KONE ELEVATORS CO., LTD.

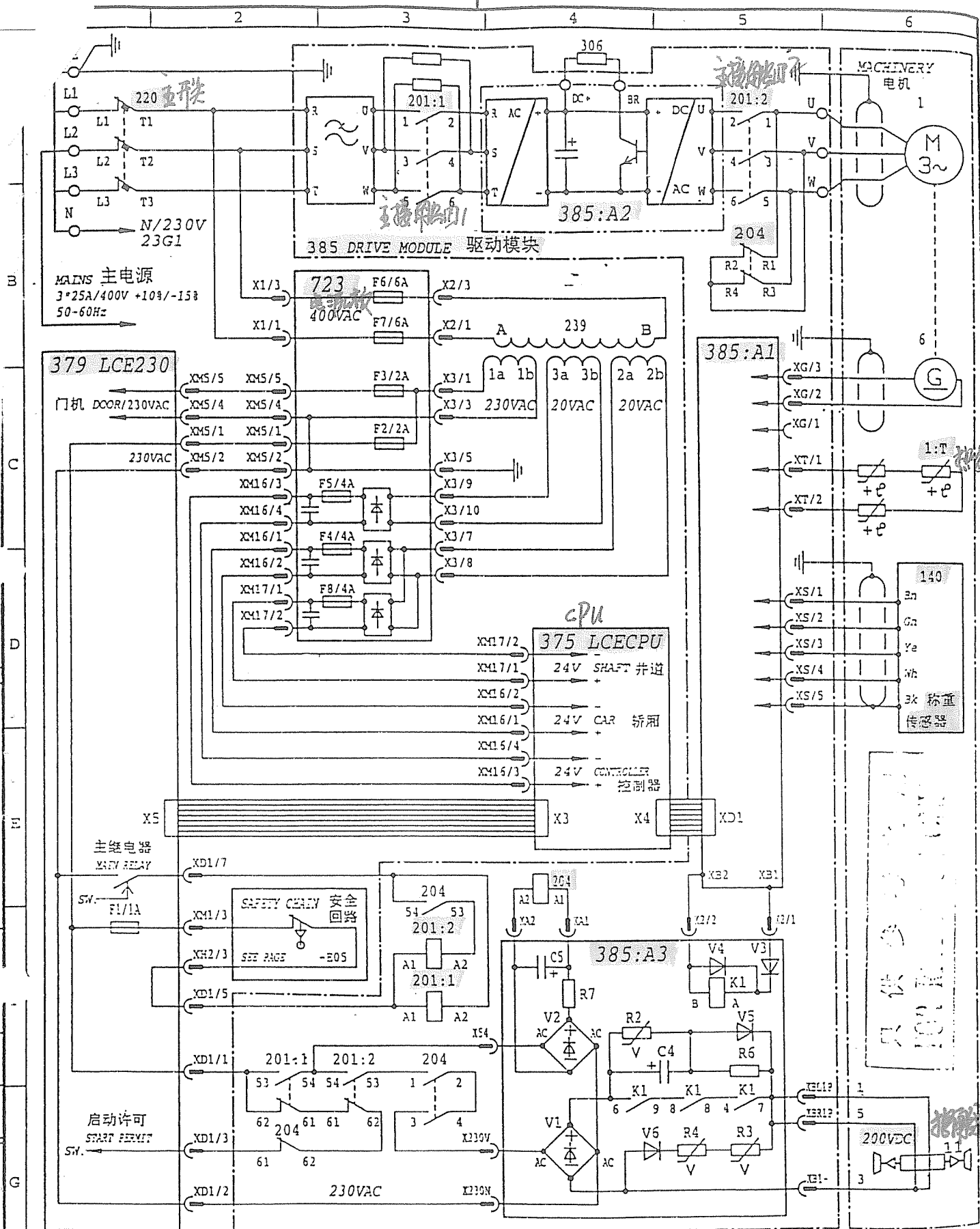
Designed by/Suunnittelija 苗雁斌	Checked by/Tarkastaja Fancy Li	Product code/Tuotekoodi	Language/Kieli	Mass/Hassa kg	Scale/Suhde	
Dept./Osasto	Date/Päivä	Approved by/Hyväksyjä 	Title KONE 3000电气元件代码对照表			
KONE Elevators 			Drawing number/Piirustusnumero 713310E00			
			Issue/H-tila		Page/Sivu	

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A4



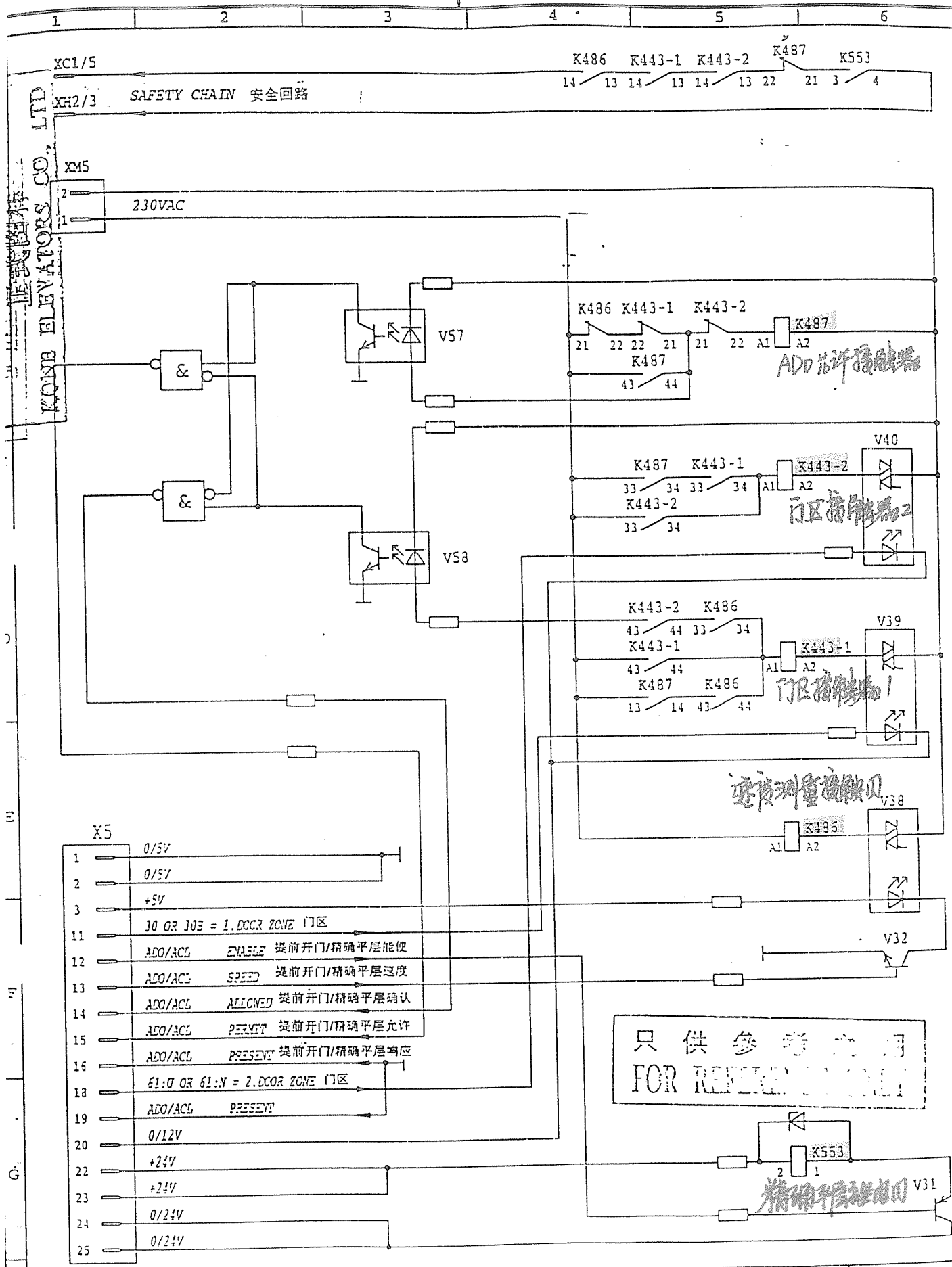
Designer T. SYRMAN	Checker HRCKVA	Language en
Dept. ECC	Date 12.06.1998	Product HECATA
SAFETY CHAIN 安全回路		
Sales ref. no.	Draw. no.	Issue
-	713311E05	A
Page		1

FOR REFERENCE ONLY



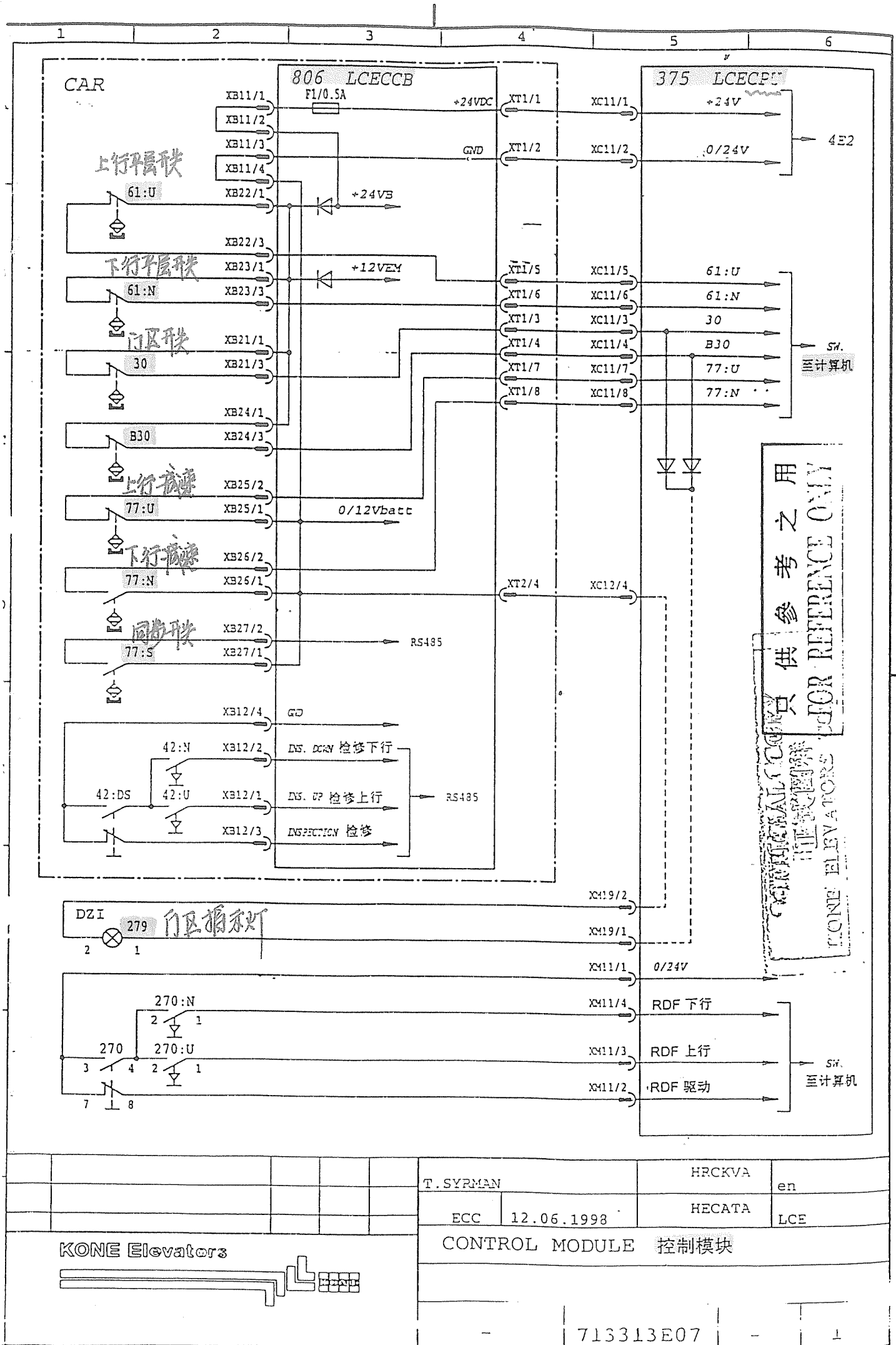
Designer T. SYRMAN		Checker HRCKVA	Language en
Depct. ECC	Date 12.06.1998	Apprater HECATA	Product n. LCE
DRIVE MODULE 驱动模块			
V3F16ES			
Sales ref. no.	Draw no.	Issue	Page
	713312E04		1

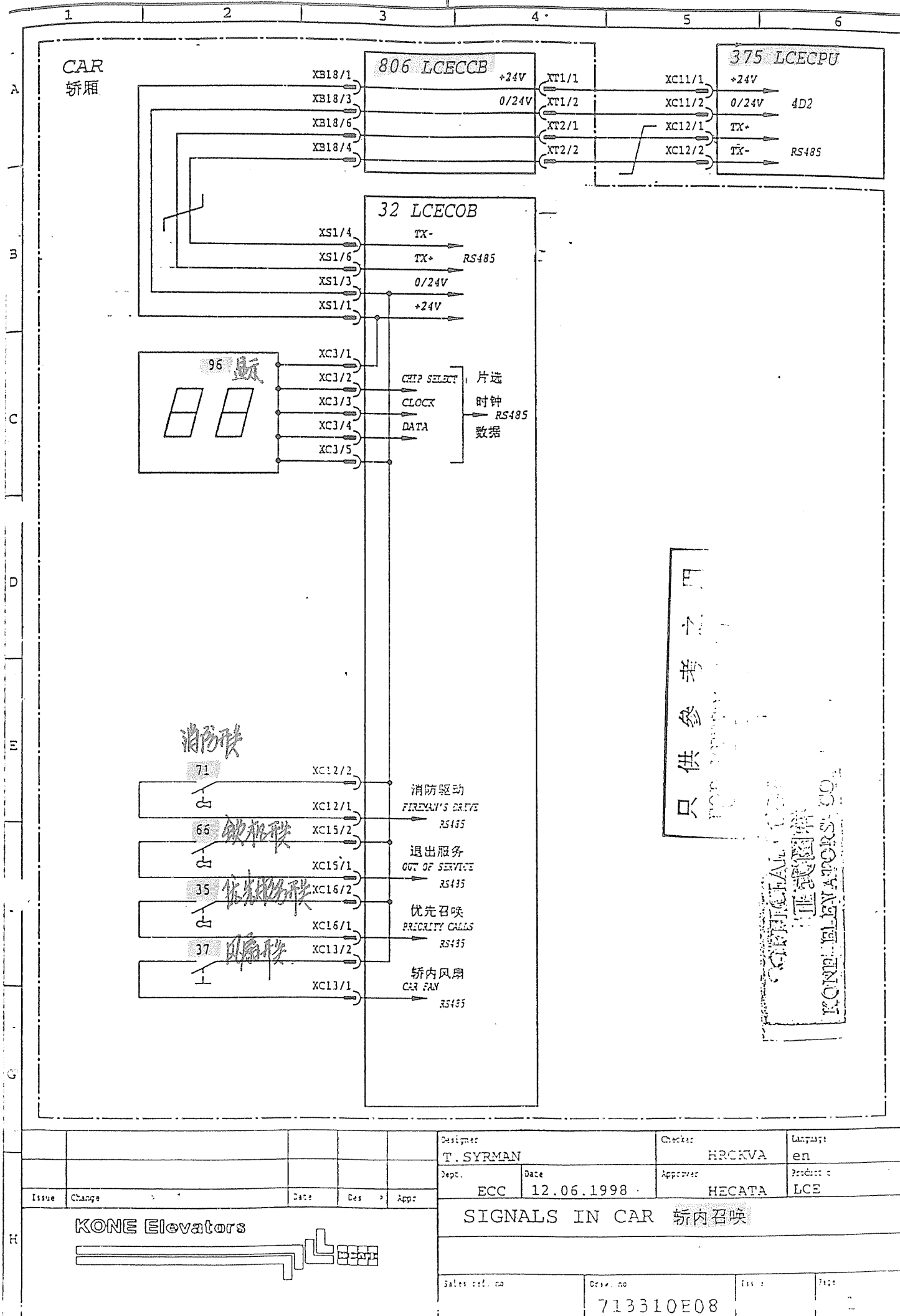
KONE Elevators  
KONE ELEVATORS CO. LTD.



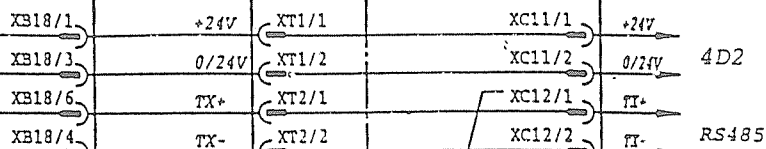
Designed by T. SYRMAN		Checked by HRCKVA		Language en	
Dept. ECC		Date 12.06.1998		Approved by HECATA	
				Product code LCE	
ADO/ACL- CIRCUIT					
提前开门/精确平层-电路					
		713310E14		1	

KONE Elevators





CAR 轿厢

806  
LCECCB375  
LCECPU

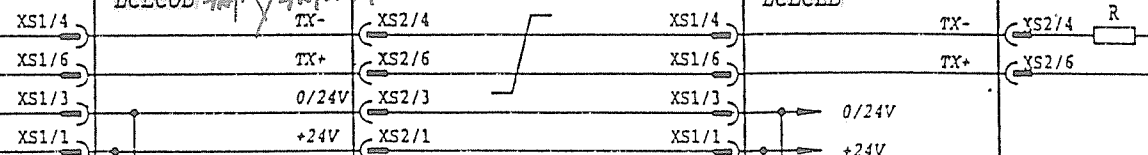
32

LCECOB

32:1

LCECEB

R=120ohm. 0.5W



XC31:8/4

XC31:8/1

XC31:8/2

XC31:8/3

XC31:7/4

XC31:7/1

XC31:7/2

XC31:7/3

XC31:3/4

XC31:3/1

XC31:3/2

XC31:3/3

XC31:2/4

XC31:2/1

XC31:2/2

XC31:2/3

XC31:1/4

XC31:1/1

XC31:1/2

XC31:1/3

轿内召唤8  
CAR CALL 8轿内召唤7  
CAR CALL 7轿内召唤4-6  
CAR CALLS 4 - 6轿内召唤3  
CAR CALL 3轿内召唤2  
CAR CALL 2轿内召唤1  
CAR CALL 1

XC31:16/4

XC31:16/1

XC31:16/2

XC31:16/3

XC31:15/4

XC31:15/1

XC31:15/2

XC31:15/3

XC31:11/4

XC31:11/1

XC31:11/2

XC31:11/3

XC31:10/4

XC31:10/1

XC31:10/2

XC31:10/3

XC31:9/4

XC31:9/1

XC31:9/2

XC31:9/3

轿内召唤16  
CAR CALL 16轿内召唤15  
CAR CALL 15轿内召唤12-14  
CAR CALLS 12 - 14轿内召唤11  
CAR CALL 11轿内召唤10  
CAR CALL 10轿内召唤9  
CAR CALL 9只供参考之用  
FOR REFERENCE ONLY

KONE ELEVATORS CO., LTD.

Designer  
T. SYRMANChecker  
HRCKVALanguage  
en

Dept.

Date  
12.06.1998Approver  
HACATAProduct c  
LCE

轿内召唤

1-16 层

Sales ref. no.

Draw no.

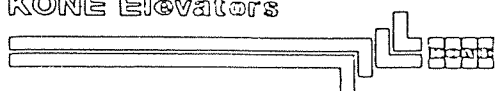
713312E09

Issue

Page

1

KONE Elevators





1

2

3

4

5

6

层站显示

TOPMOST FLOOR

顶层

176:T

XF2

197:T

LCEFCB

713700G01

XS1

375 LCECPU

166:T

XF4

116:T

XF3

103:T

XF1

+24V

XH12

+24V

0/24V

DAISY CHAIN

TX-

RS485

0/24V

INTERMEDIATE FLOORS 中间层

176:2-(T-1)

XF2

197:2-(T-1)

LCEFCB

713700G01

XS1

166:2-(T-1)

XF4

116:2-(T-1)

XF3

104:2-(T-1)

XF1

+24V

0/24V

103:2-(T-1)

LOWERMOST FLOOR

底层

176:1

XF2

197:1

LCEFCB

713700G01

XS1

166:1

XF4

116:1

XF3

104:1

XF1

+24V

0/24V

R

R = 120ohm. 0.5W

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FOR REFERENCE ONLY

KONE ELEVATOR

Designer

T. SYRMAN

Checker

BRCKVA

Language

EN

Dept.

Date

ECC

12.06.1998

Approver

HECATA

Product

LCE

KONE Elevators

层站召唤与信号

(FC)

Sales ref. no.

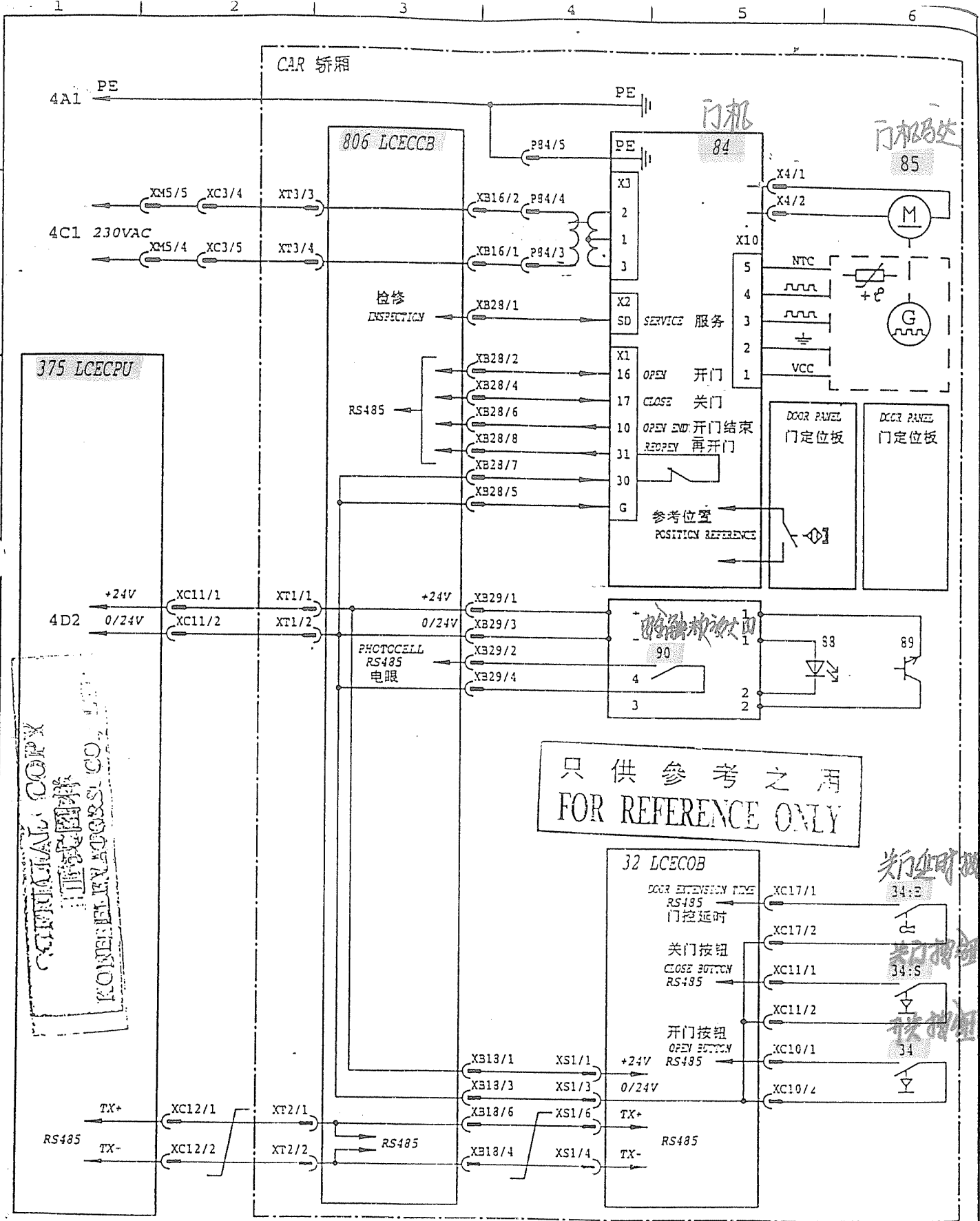
Draw no

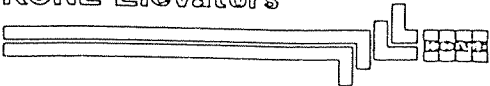
Issue

Page

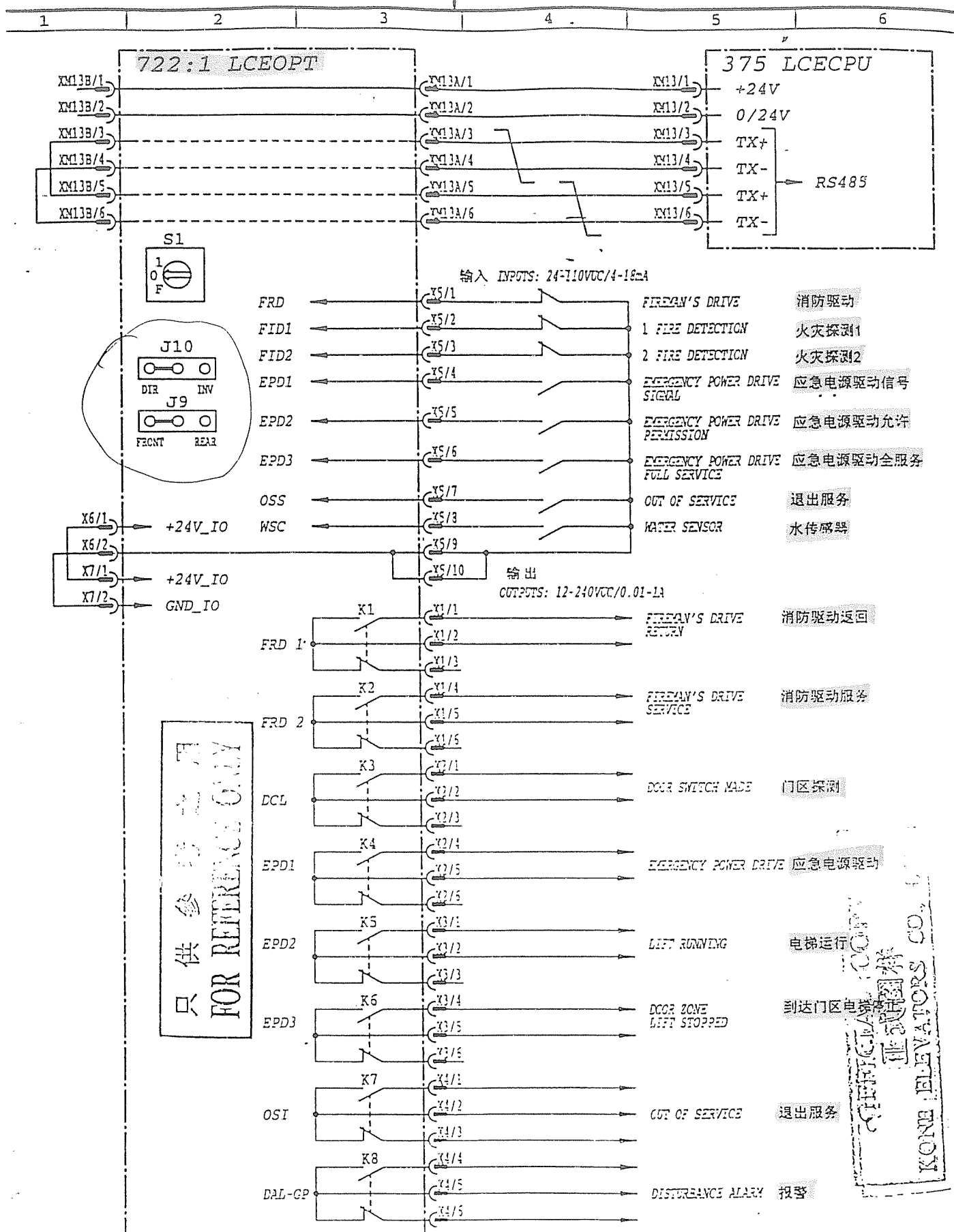
713313E1G

A

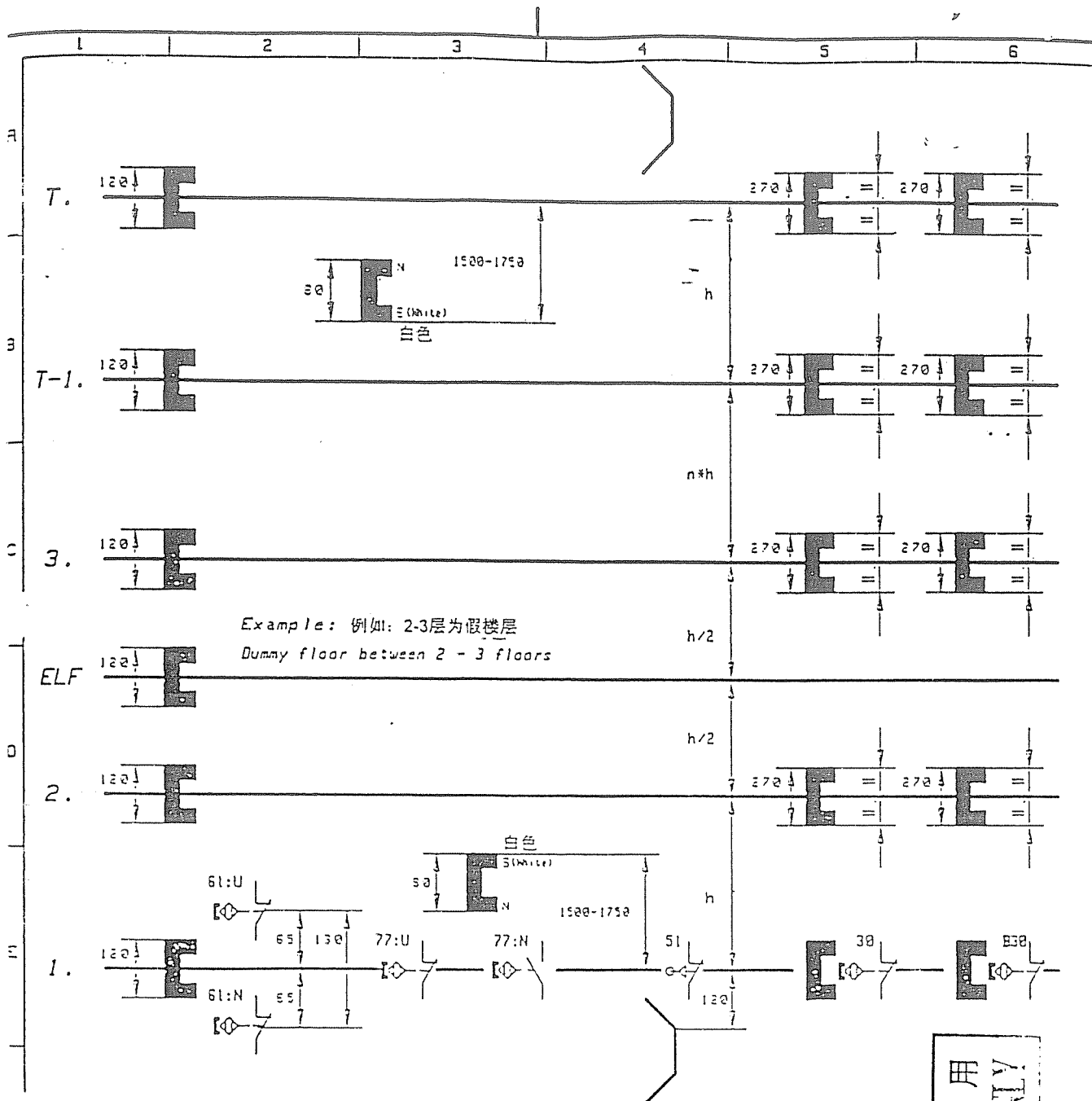


					Designer T. SYRMAN	Checker HRCKVA	Language en	
					Dept. ECC	Date 12.06.1998	Approver HECATA	Product c LCE
Issue	Change		Date	Des	Appr			
<div>KONE Elevators</div> <div></div>						DOOR MODULE 门控模块		
						ADV-A		
Sales ref. no						Draw. no.	Issue	Page
						713310E11		1





A	Changed I/O	30/6/93	TS	Designed by T. SYRMAN	Checked by HRCKVA	Signature en
Issue	Change description	Date	Des. by	Approved by ECC	Approved by HECATA	Product code LCE
				ADDITIONAL DEVICES 附加装置		
KONE Elevators						
				713311E15 A 1		



ELF EXTRA LONG FLOOR TO FLOOR DISTANCE 超长楼层

If floor to floor distance exceeds 5m ( $\neq h$ ) dummy floor is needed.

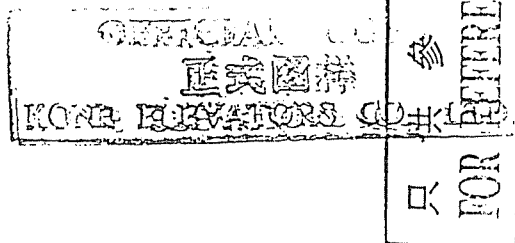
See example. 如果楼层间距超过5m, 须要设置假楼层, 请看例子

38 Door zone switch 门区开关

51 Final limit switch 极限开关

61 Impulse switch

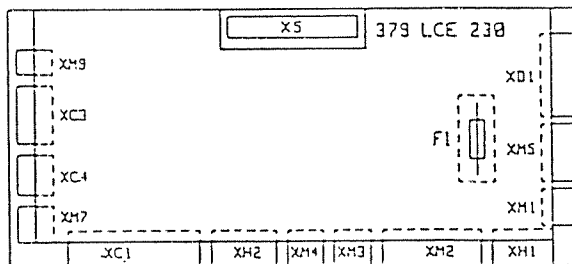
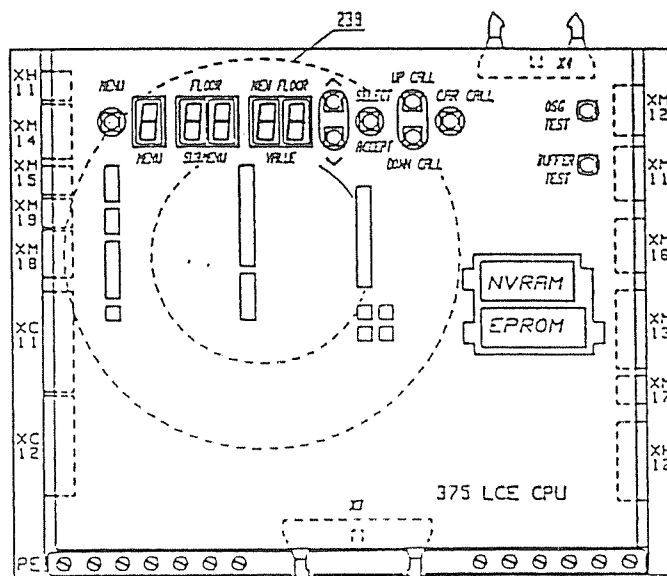
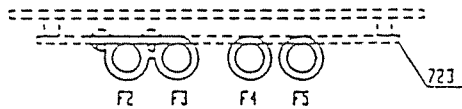
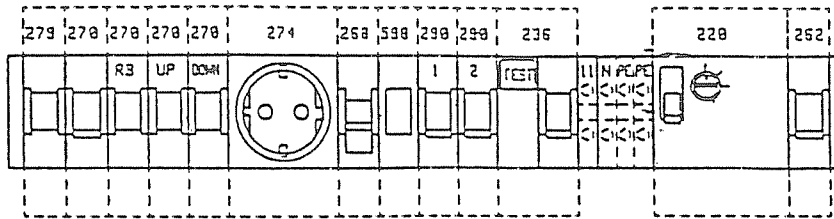
77 Deceleration switch



					Designer T. SYRMAN	Checker HREKVA	Language en
					Drawn ECC	Date 12.05.1998	Product c. LCE
Issue	Change	Date	Des	Appr	井道平层控制板图示		
KONE Elevators					超长楼层		
					Sales ref. no	Draw. no	Issue
					-	713312E60	1

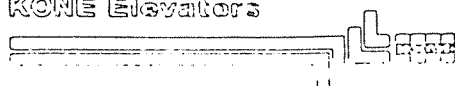
LCE MODULE  
LCE模块

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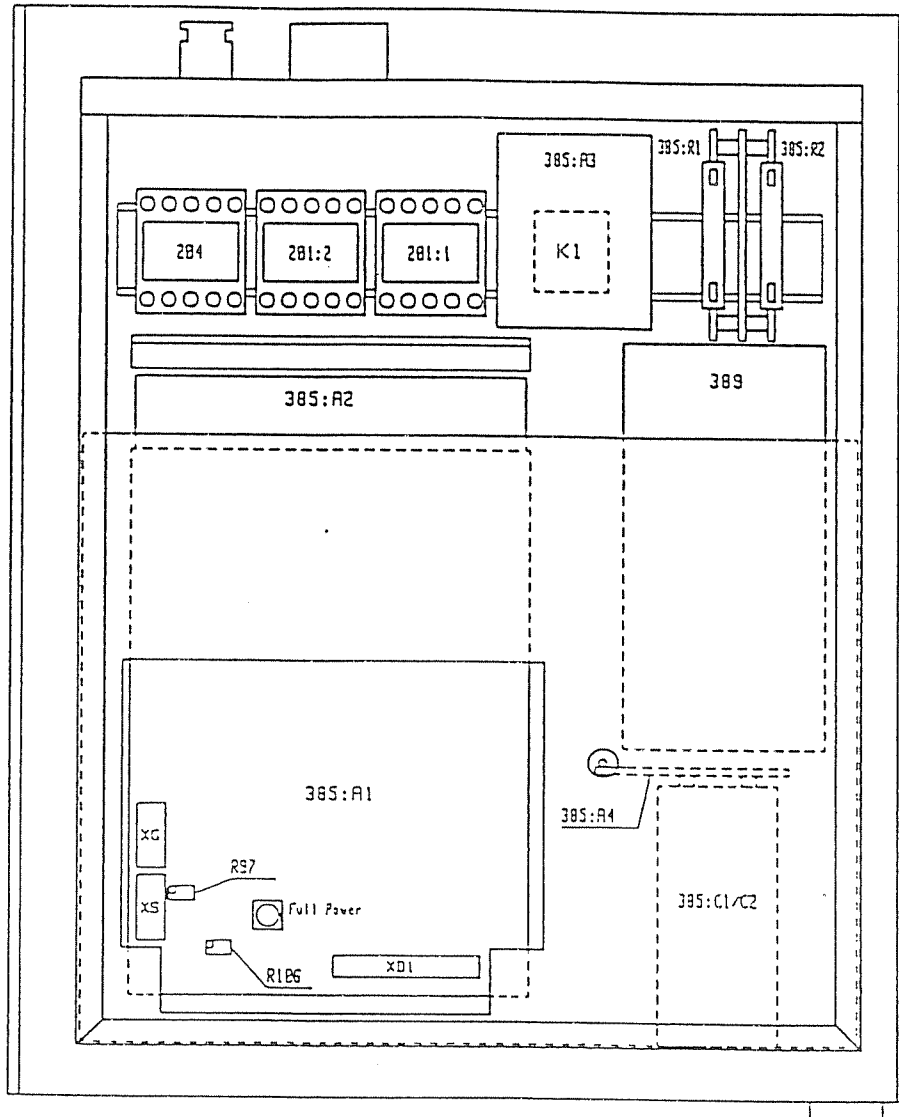


Designed by T. SYRMAN	Checked by HRCKVA	Language en
Dept. ECC	Date 12.06.1998	Approved by HECATA
Product code LCE		
LAYOUT FOR LCE MODULE LCE模块外框图		
Sheet ref. no. -	Drawing no. 713310E93	Issue -
		Page 1

KONE Elevators



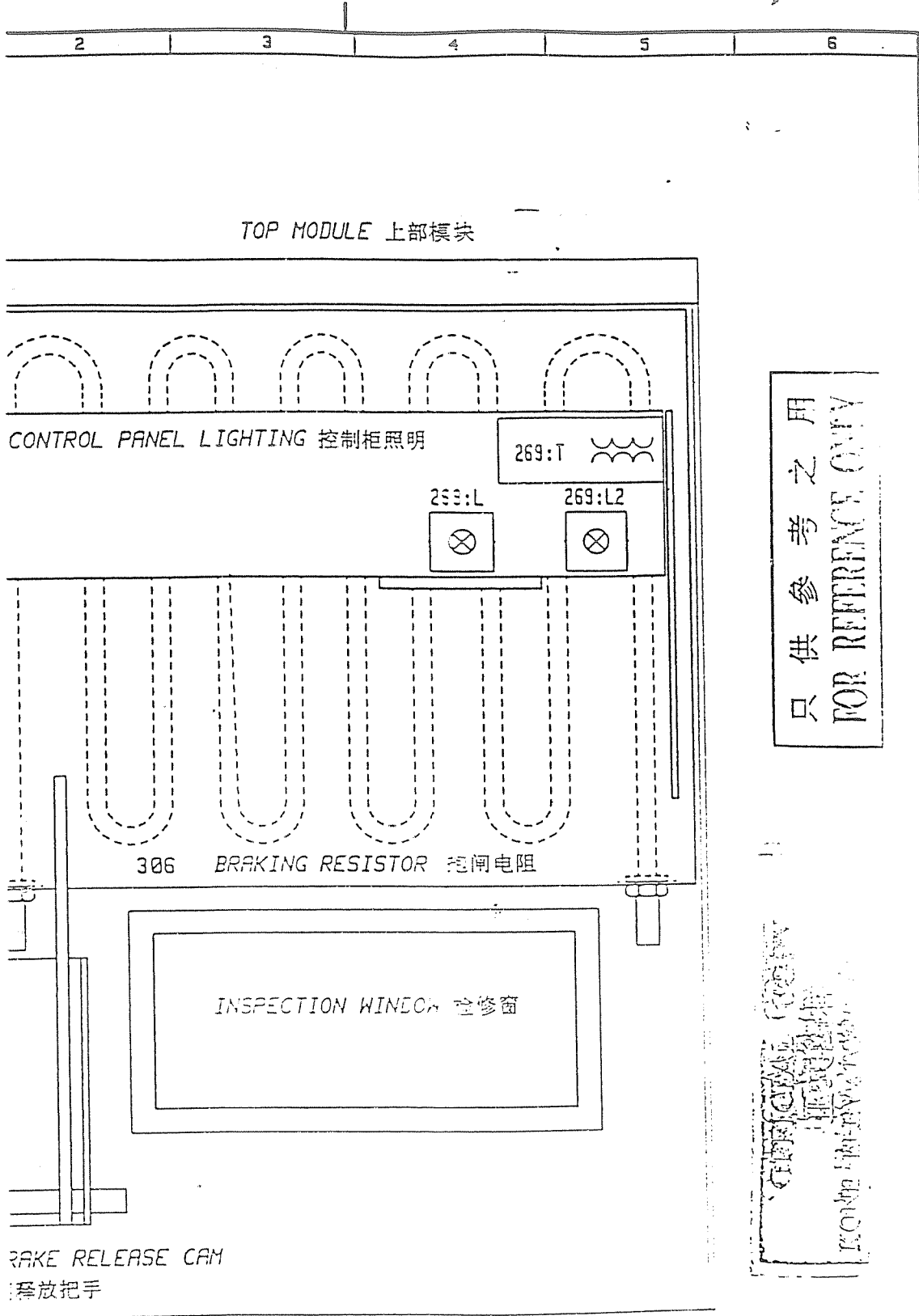
# DRIVE MODULE 驱动模块



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FOR REFERENCE ONLY

CONSTRUCTION COPY  
FOR REFERENCE  
KONE ELEVATORS CO.

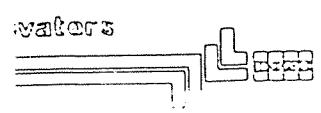
				Designed by T. SYRMAN	Checked by HRCKVA	Language en
				Dept. ECC	Date 12.06.1998	Product code LCE
Issue	Change description	Date	Des. by	Appr. by	Approved by HECATA	
KONE Elevators				LAYOUT FOR DRIVE MODULE		
				驱动模块外框图		
				Sales ref. no.	Drawing no. 713310E92	Issue 1



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CHINA RAILWAY GROUP  
RESEARCH INSTITUTE

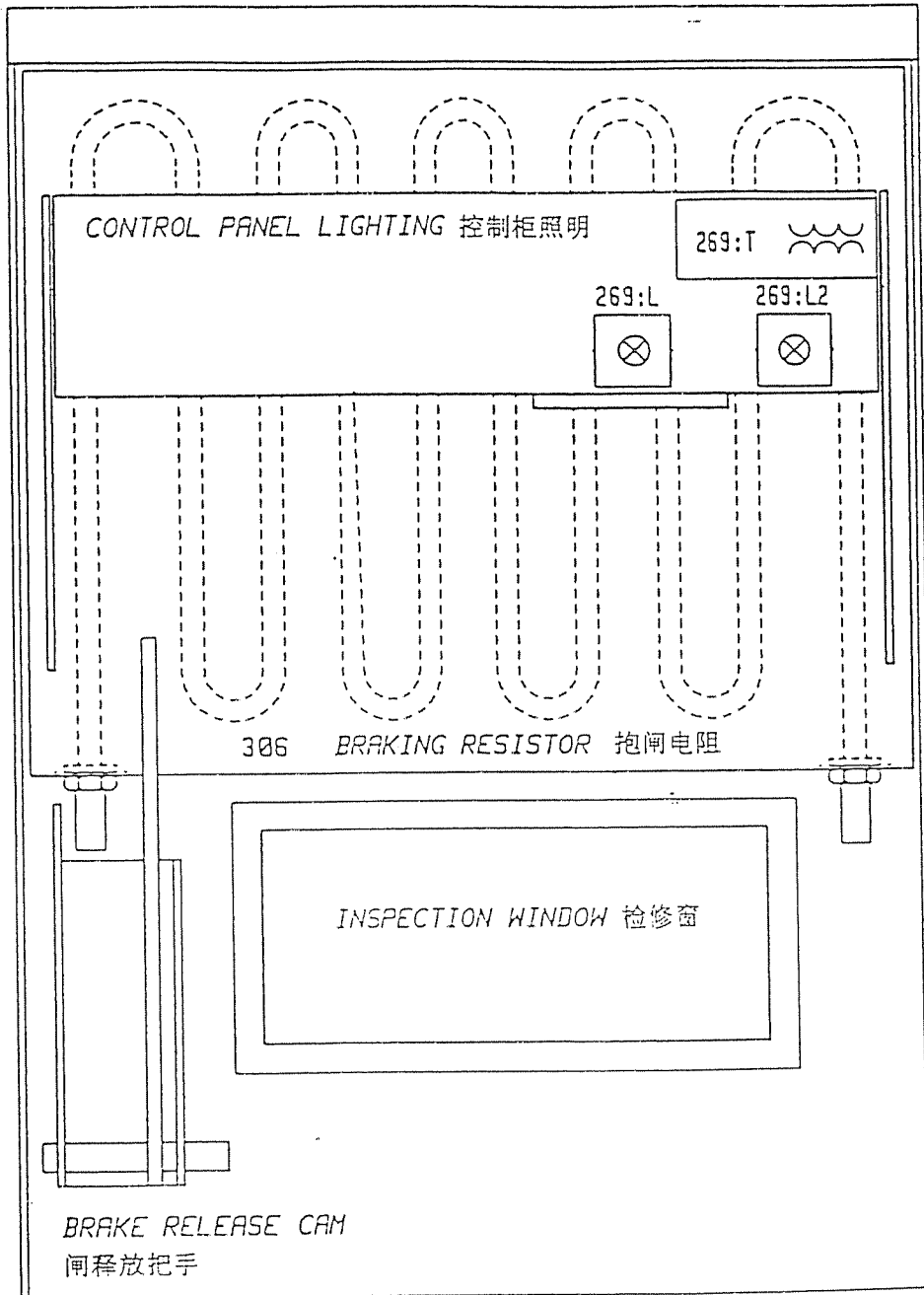
				Designed by T. SYRMAN	Checked by HCKVA	Language en
				Dept. ECC	Date 12.06.1999	Approved by HECAT
						Product code LCE
Date				Des. by		
Appr. by				LAYOUT FOR TOP MODULE		
上部模块外框图						
Sales ref. no.				Drawing no. 713310691		Issue
						Page 1



RAM



TOP MODULE 上部模块

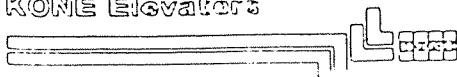


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KONE ELEVATORS

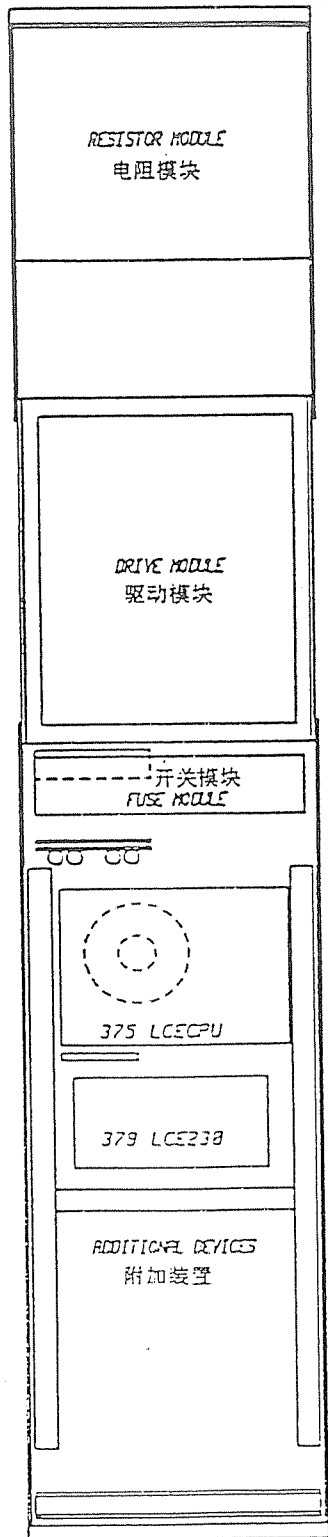
Designed by T. SYRMAN		Checked by HCKVA	Language en
Dept. ECC	Date 12.06.1999	Approved by HECATA	Product code LCE
LAYOUT FOR TOP MODULE			
上部模块外框图			
Sheet ref. no.		Drawing no. 713310E91	Issue 1

KONE Elevators



19092.

1 2 3 4 5 6

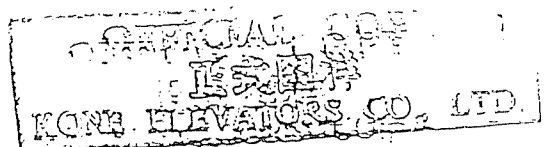


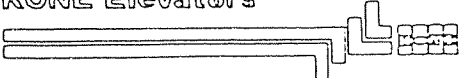
TOP MODULE  
SEE DRAWING -E91  
上部模块看图-E91

DRIVE MODULE  
SEE DRAWING -E92  
驱动模块看图-E92

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LCE MODULE  
SEE DRAWING -E93  
LCE模块看图-E93



					Designer T. SYRMAN	Checker HRCXVA	Language en		
					Dept. ECC	Date 12.05.1998	Approver HECATA	Product c. LCE	
Issue	Change	Date	Des	Appr	LAYOUT FOR CONTROL PANEL				
KONE Elevators					控制柜外框图				
					Sales ref. no. —		Draw. no. 713310E90	Issue —	Page 1

