


EXPRESS-MRL 전기도면

현 장 명 : EXPRESS-3000 표준도면
발 주 처 :

EXPRESS LIFT Co.,LTD

DRWN BY		J.H.KWACK		APPD BY		S.D.LEE	
FIELD				TITLE			
Size	Document Number				EXPERSS LIFT®		Rev
Custom	EXPRESS-3000						07-3
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COL.A

① CABLE SPEC		
KW	SPEC	제조사
5.5/7.5	6SQ	두원전선
9.5/11	10SQ	두원전선
13/15	10SQ	두원전선
18.5/22	16SQ	두원전선

② NFB1 SPEC		
KW	SPEC	제조사
5.5/7.5	ABE-53B 30A	LS산전
9.5/11	ABE-53B-50A	LS산전
13/15	ABE-103B-60A	LS산전
18.5/22	ABE-103B-75A	LS산전

③ MC.MY SPEC		
KW	SPEC	제조사
5.5	GMD-50	LS산전
7.5/11	GMD-50	LS산전
13/15	GMD-65	LS산전
18.5/22	GMD-75	LS산전

PA 단자대		
NO	NAME	DEFINITION
PA-01	BK1	BRAKE COIL1 +
PA-02	BK2	BRAKE COIL2 +
PA-03	BK3	BRAKE COIL -
PA-04	L23	AC220V
PA-05	GOP	GOV-OP COIL
PA-06	F23	AC220V/0V
PA-07	N24	COM
PA-08	BKX	BRAKE OPEN
PA-09	P24	COM
PA-10	THX	MOTOR TH OPEN
PA-11	P111	SAFETY-GOV
PA-12	P112	SAFETY-M/C ROOM
PA-13	BA+	EM-POWER(구동용)
PA-14	BA-	EM-POWER(구동용)

PM 단자대(별칭측 공급원)		
NO	NAME	DEFINITION
PM-01	R	380V FROM B/D
PM-02	S	380V FROM B/D
PM-03	T	380V FROM B/D
PM-04	E	EARTH
PM-05	PE	EARTH
PM-06	U	MOTOR -U
PM-07	V	MOTOR -V
PM-08	W	MOTOR -W
PM-09	L1	AC220V-B/D
PM-10	L2	AC220V-B/D

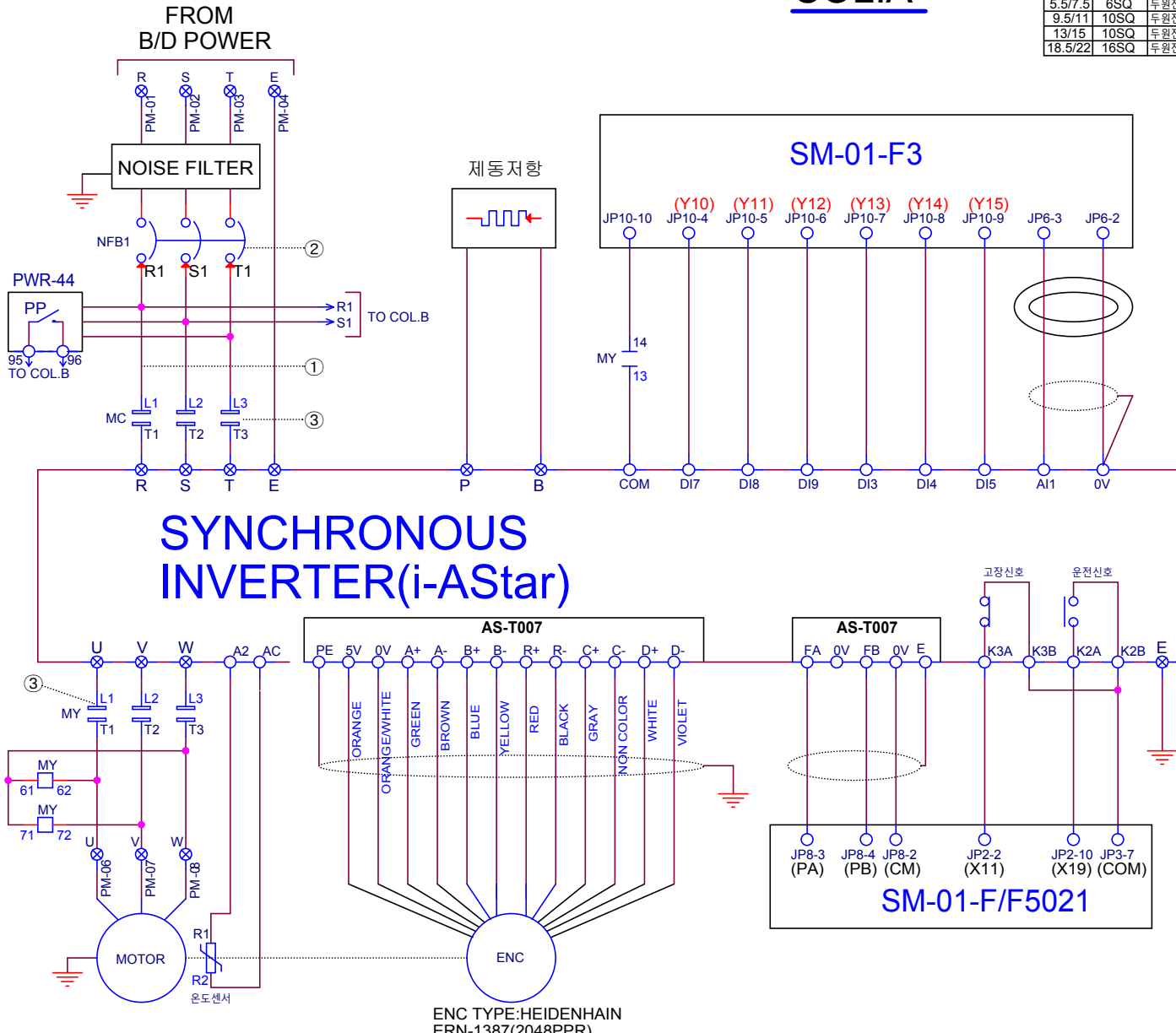
SM01-JP2		
NO	NAME	DEFINITION
01	X10	LD(LEVEL)
02	X11	INV ERROR-K3
03	X12	FRS-LOBBY
04	X13	SAFETY LOOP
05	X14	DOOR LOCK
06	X15	SPEED IN-LINE
07	X16	SPEED OUT-LINE
08	X17	BRAKE MC
09	X18	FRONT D-ZONE
10	X19	INV DET-K2

SM01-JP3		
NO	NAME	DEFINITION
01	X20	RELEVELLING
02	X21	RBK DET
03	X22	BRAKE SW
04	X23	MOTOR TH
05	X24	SLUH
06	X25	SLDH
07	COM	COMMON
08	COM	COMMON
09	N24	POWER 0V
10	P24	POWER +24V

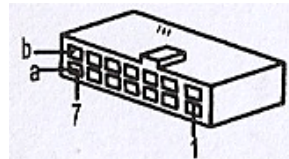
SM01-JP6		
NO	NAME	DEFINITION
01		
02	0V	Analog speed
03	0-10V	Analog speed
04		

SM01-JP8		
NO	NAME	DEFINITION
01		
02	CM	PULSE COM
03	PA	ENC PULSE A
04	PB	ENC PULSE B

SM01-JP10		
NO	NAME	DEFINITION
01	Y8	PRE-OPEN
02	Y9	Fire RY Signal
03	COM	Y8-Y9@COM
04	Y10	INV-UP
05	Y11	INV-DOWN
06	Y12	INV-ENABLE
07	Y13	INV-SPEED1
08	Y14	INV-SPEED2
09	Y15	INV-SPEED3
10	COM	Y10-Y15@COM

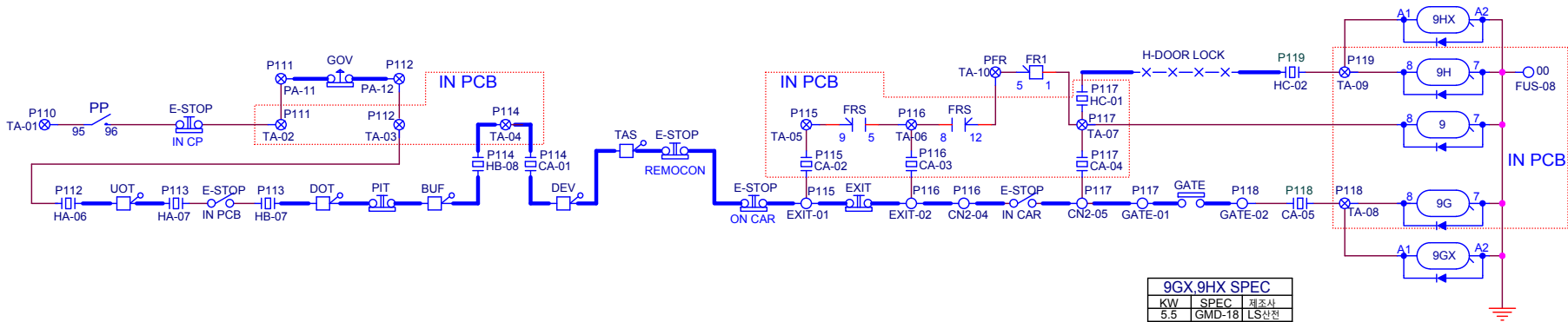
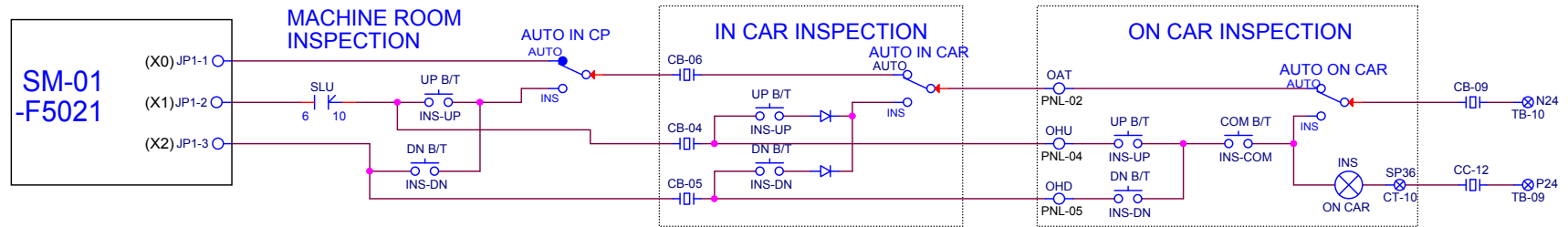
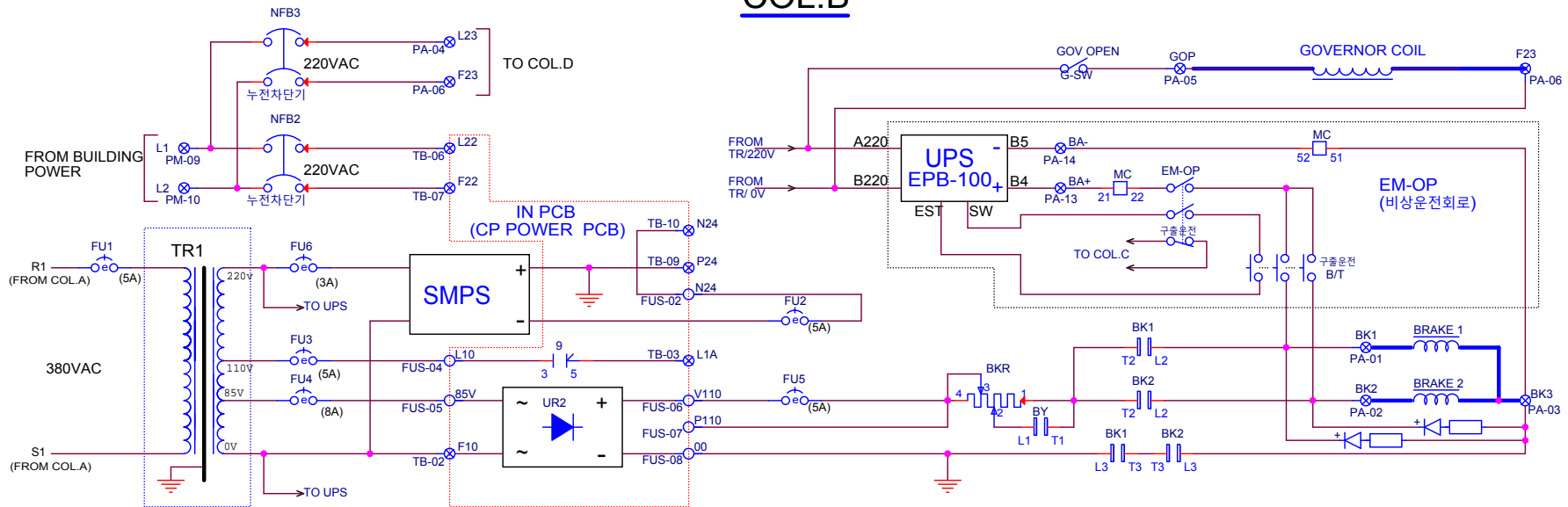


ERN-1387 엔코더 결선번호													
6b	2a	3b	5a	4b	4a	7b	1a	2b	6a	1b	5b	7a	3a
A+	A-	B+	B-	R+	R-	C+	C-	D+	D-	5V	0V	S/5V	S/0V
녹색	갈색	청색	황색	적색	흑색	회색	투명	백색	보라	등색	등색	--	--



DRWN BY	J.H.KWACK	APPD BY	S.D.LEE
FIELD		TITLE	TRACTION CIRCUIT
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COL.B

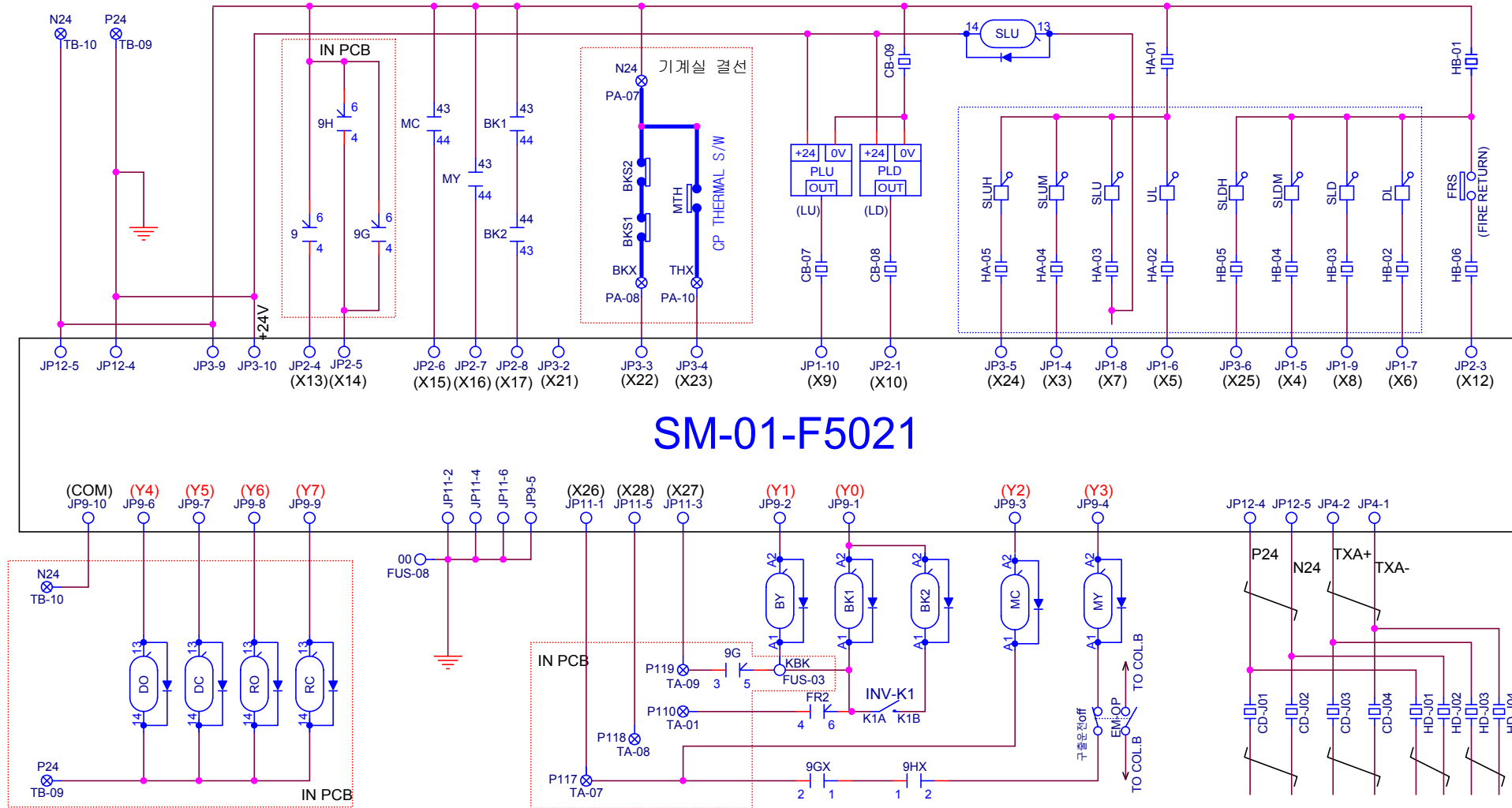


KW	SPEC	제조사
5.5	GMD-18	LS산전
7.5/11	GMD-18	LS산전
13/15	GMD-18	LS산전
18.5/22	GMD-18	LS산전

DRWN BY		J.H.KWACK		APPD BY		S.D.LEE	
FIELD				TITLE		POWER SUPPLY & SAFETY CIRCUIT	
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COL.C

SM-01-F5021



NO	NAME	DEFINITION
01	X0	AUTO/INS
02	X1	INS-UP
03	X2	INS-DOWN
04	X3	SLUM
05	X4	SLDM
06	X5	UP LIMIT
07	X6	DN LIMIT
08	X7	SLU
09	X8	SLD
10	X9	LU(LEVEL)

NO	NAME	DEFINITION
01	X10	LD(LEVEL)
02	X11	INV ERROR-K3
03	X12	FRS-LOBBY
04	X13	SAFETY LOOP
05	X14	DOOR LOCK
06	X15	SPEED IN-LINE
07	X16	SPEED OUT-LINE
08	X17	BRAKE MC
09	X18	FRONT D-ZONE
10	X19	INV DET-K2

NO	NAME	DEFINITION
01	X20	RELEVELLING
02	X21	RBK DET
03	X22	BRAKE SW
04	X23	MOTOR TH
05	X24	SLUH
06	X25	SLDH
07	COM	COMMON
08	COM	COMMON
09	N24	POWER 0V
10	P24	POWER +24V

NO	NAME	DEFINITION
01	Y0	BRAKE MC
02	Y1	BRAKE EXCIT
03	Y2	SPEED IN-LINE
04	Y3	SPEED O-LINE
05	COM	Y0-Y3의COM
06	Y4	F-DOOR OPEN
07	Y5	F-DOOR CL
08	Y6	R-DOOR OPEN
09	Y7	R-DOOR CL
10	COM	Y4-Y7의COM

NO	NAME	DEFINITION
01	X26	안전회로DC110
02	0V	X26의 COM
03	X27	외부도어스위치
04	0V	X27의 COM
05	X28	카드도어스위치
06	0V	X28의 COM

NO	NAME	DEFINITION
04	+24	POWER IN
05	0V	POWER IN
06	0V	POWER IN

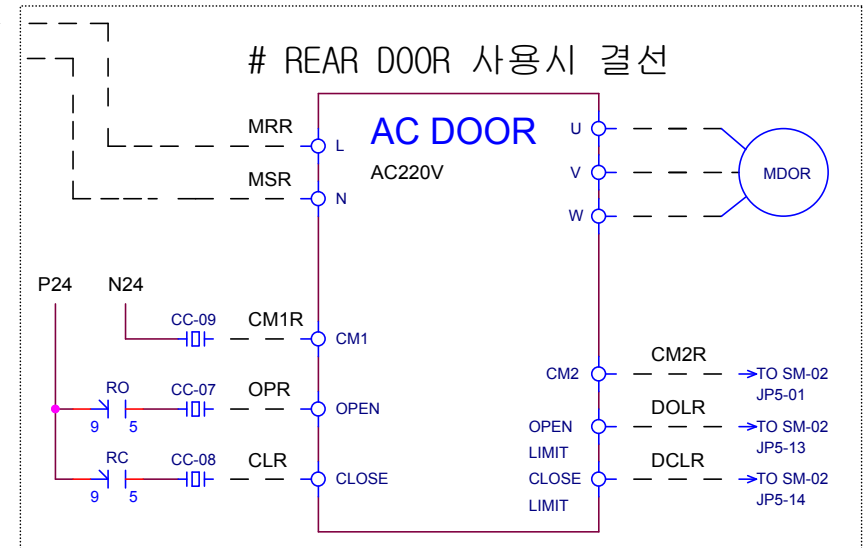
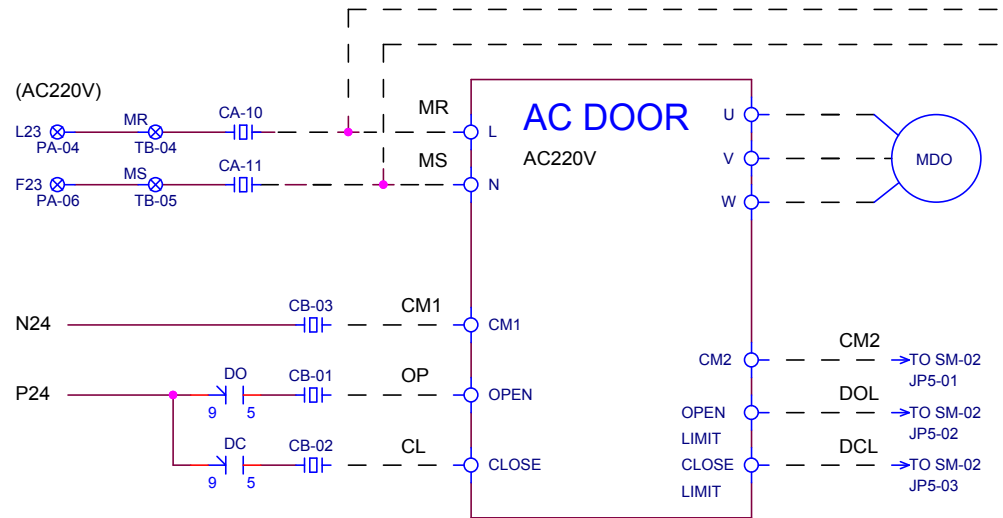
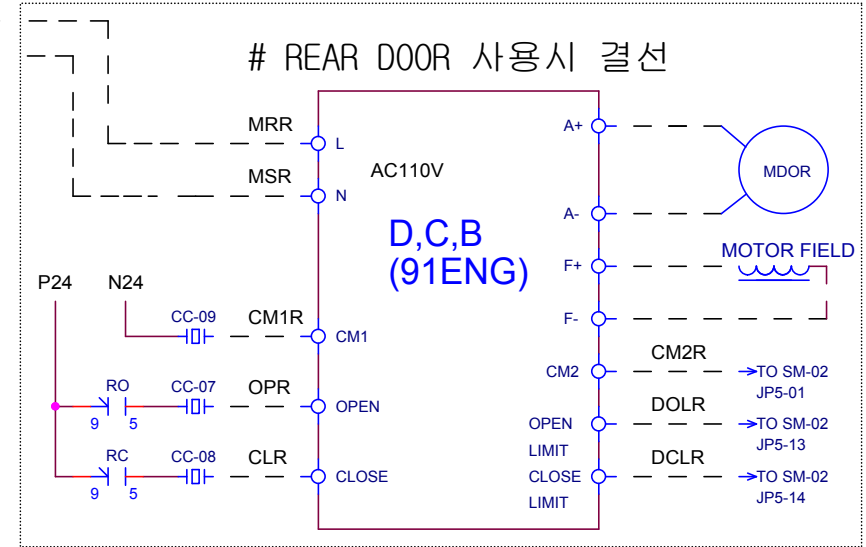
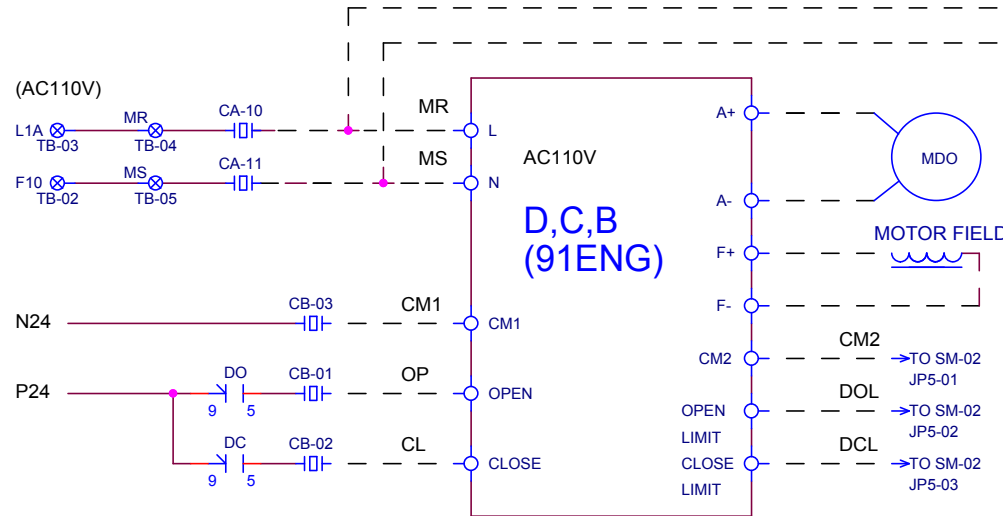
BY, BK1, BK2 SPEC	KW	SPEC	제조사
5.5	GMD-22	LS산전	
7.5/11	GMD-22	LS산전	
13/15	GMD-22	LS산전	
18.5/22	GMD-32	LS산전	


MC, MY SPEC	KW	SPEC	제조사
5.5	GMD-50	LS산전	
7.5/11	GMD-50	LS산전	
13/15	GMD-65	LS산전	
18.5/22	GMD-75	LS산전	

NO	NAME	DEFINITION
01	TXA1-	SERIAL COMM
02	TXA1+	SERIAL COMM
03	N24	SERIAL COMM
04	P24	SERIAL COMM

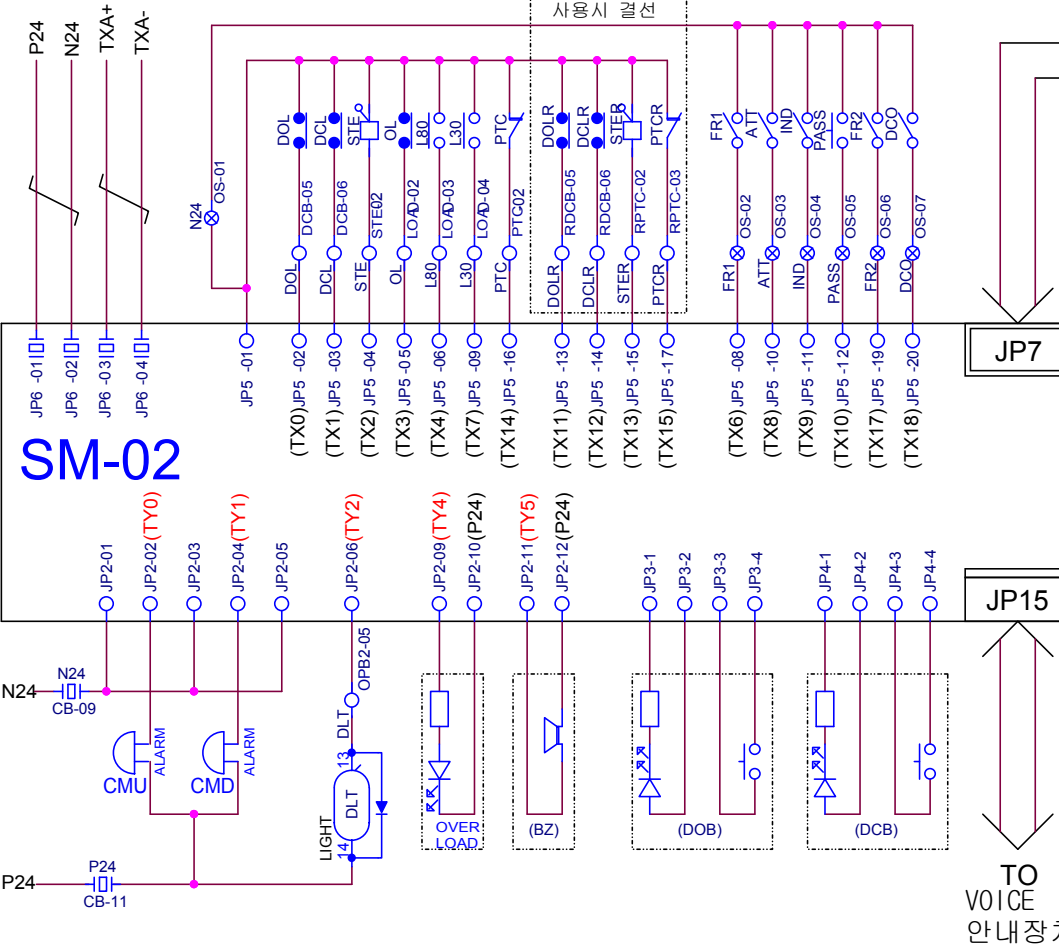
DRWN BY	J.H.KWACK	APPD BY	S.D.LEE
FIELD		TITLE	CONTROL CIRCUIT SM-01
Size	Document Number		Rev
Custom	EXPRESS-3000	(주)익스프레스리프트	07-3
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COL.D

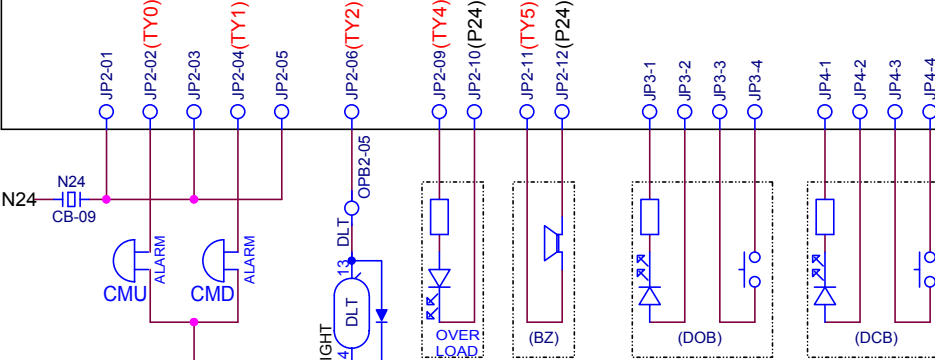


DRWN BY	J.H.KWACK	APPD BY	S.D.LEE
FIELD		TITLE	DOOR MOTOR CIRCUIT
Size	Document Number	 (주)익스프레스리프트	
Custom	EXPRESS-3000		
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COL.E



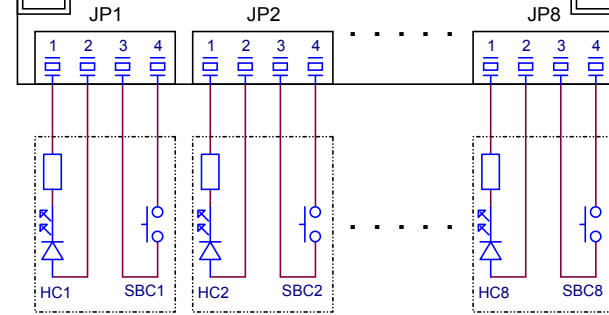
SM-02



TO
VOICE
안내장치

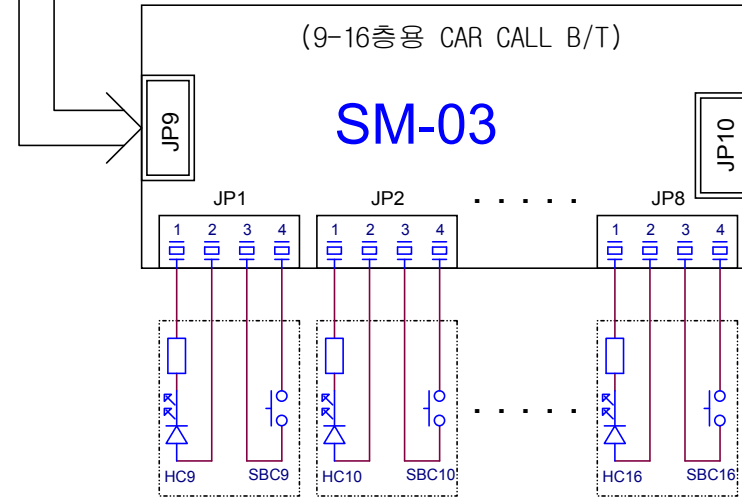
(1-8층용 CAR CALL B/T)

SM-03



(9-16층용 CAR CALL B/T)

SM-03



NO	NAME	DEFINITION
01	COM	TY0-COM
02	TY0	UP도착공
03	COM	TY1-COM
04	TY1	DOWN도착공
05	COM	TY2-COM
06	TY2	카 라이트(DLT)
07	TY3	SPARE
08	TY3	SPARE
09	TY4	OVERLOAD-
10	TY4	OVERLOAD+
11	TY5	BUZZER -
12	TY5	BUZZER+
13		
14		
15	RS485+	통신 케이블
16	RS485-	통신 케이블
17	SPARE	
18	SPARE	
19	PWR+	POWER+
20	PWR-	POWER-

NO	NAME	DEFINITION
01	COM	COMMON OV
02	TX0	OPEN LIMIT-F
03	TX1	CLOSE LIMIT-F
04	TX2	CLOSE LIMIT-F
05	TX3	OVERLOAD
06	TX4	FULL LOAD
07	TX5	SPARE
08	TX6	1ST FIRE
09	TX7	LIGHT LOAD
10	TX8	ATTENDANT
11	TX9	IND-VIP
12	TX10	ATT BY-PASS
13	TX11	OPEN LIMIT-R
14	TX12	CLOSE LIMIT-R
15	TX13	SAFETY EDGE-R
16	TX14	PHOTO CELL-F
17	TX15	PHOTO CELL-R
18	TX16	SPARE
19	TX17	2ND FIRE
20	TX18	DOOR HOLD

NO	NAME	DEFINITION
01	LAMP -	D-OPEN LAMP
02	LAMP+	D-OPEN LAMP
03	DOB	OPEN BUTTON
04	DOB	OPEN BUTTON

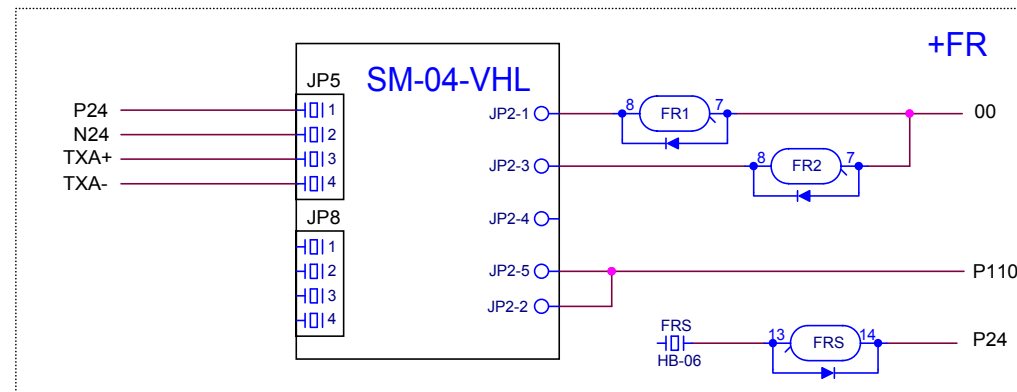
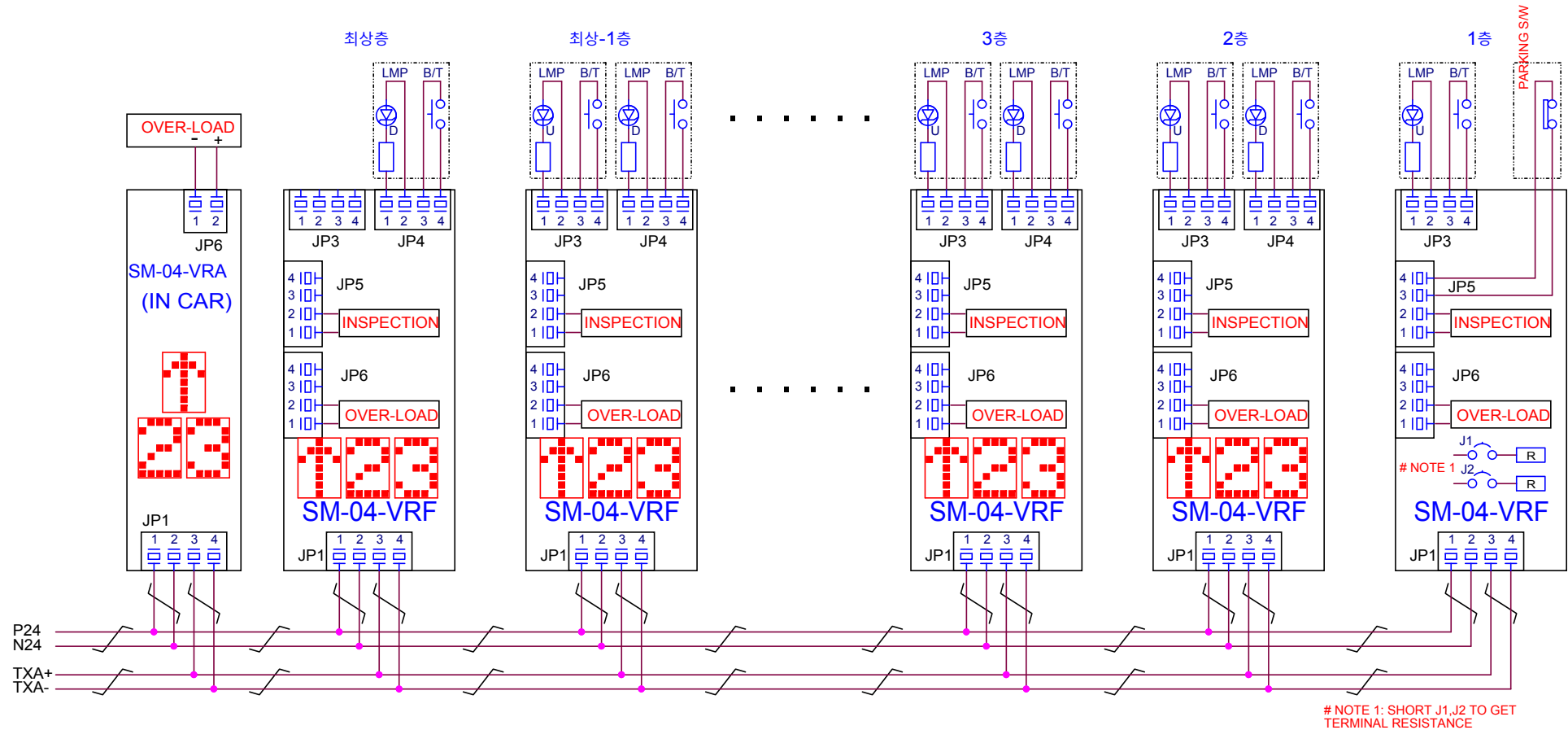
NO	NAME	DEFINITION
01	LAMP -	CLOSE LAMP
02	LAMP+	CLOSE LAMP
03	DCB	CL BUTTON
04	DCB	CL BUTTON

NO	NAME	DEFINITION
01	P24	통신 케이블
02	N24	통신 케이블
03	TXA+	통신 케이블
04	TXA-	통신 케이블

NO	NAME	DEFINITION
01	BIT 0	
02	BIT 1	
03	BIT 2	
04	BIT 3	
05	BIT 4	
06	BIT 5	
07	BIT 6	
08	BIT 7	
09	0V	
10	+24V	

DRWN BY	J.H.KWACK	APPD BY	S.D.LEE
FIELD		TITLE	CONTROL CIRCUIT SM-02
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COL.F



SM-04 PCB FLOOR ADDRESS 입력방법

S1 JUMPER PIN이 켜진 상태에서 외부버튼 UP/DOWN을 누르면 디지털에 숫자가 올라가고 내려갑니다. 최하층을 1로 기준하여 두번째층은 2 다음은 3, 4... 순서로 각층을 차례대로 층의 값을 넣고 S1 JUMPER PIN을 빼면 층 값이 입력됩니다. (후면(REAR)콜보드의 설정은 49부터 시작 한다)

DRWN BY	J.H.KWACK	APPD BY	S.D.LEE
FIELD		TITLE	HALL CALL CIRCUIT SM-04
Size	Document Number		Rev
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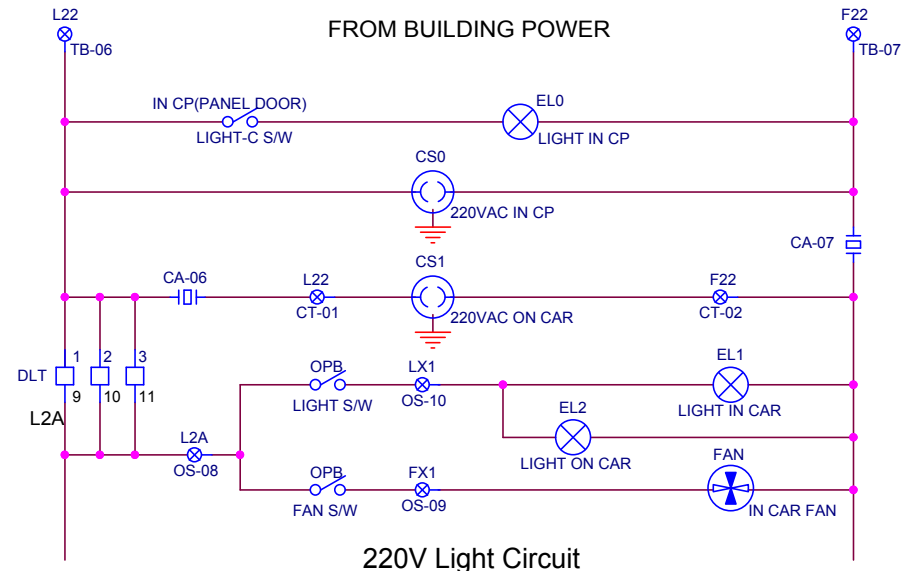
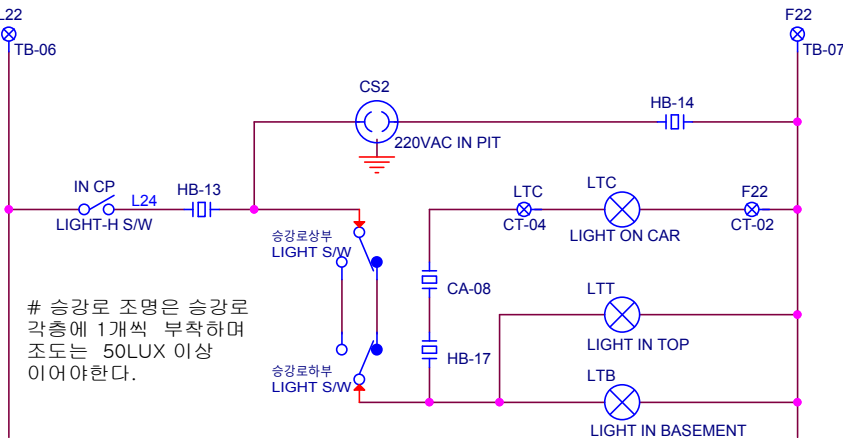
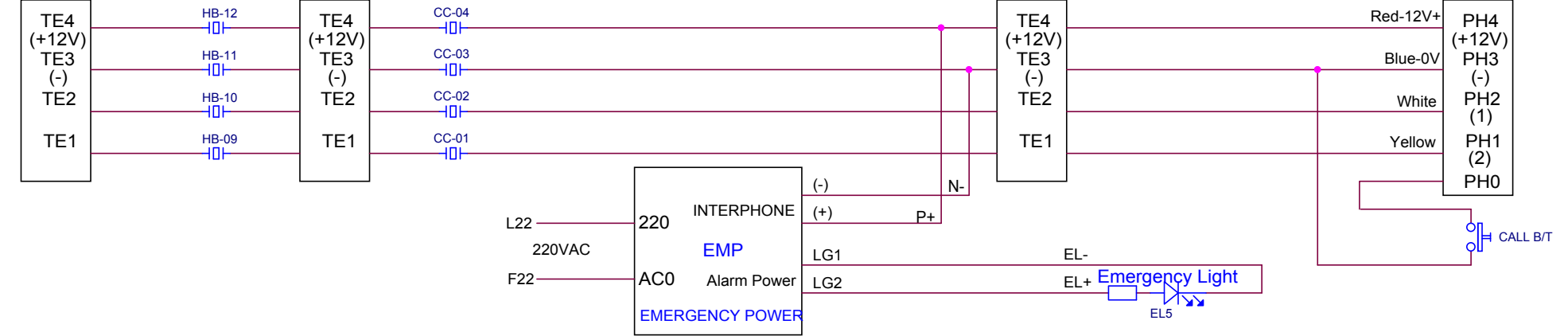
COL.G

경비실 인터폰

Machine Room

Car Top

In car



220V Light Circuit


NO	NAME	DEFINITION
01	COM	Common
02	DL	DOWN-Limit
03	SLD	Slow-down(dn)
04	SLDM	Slow-down(dn1)
05	SLDH	Slow-down(dn2)
06	FRS	FIRE RETURN
07	P113	Safety DOT
08	P114	Safety PIT
09	TE1	INTERPHONE
10	TE2	INTERPHONE
11	TE3	INTERPHONE
12	TE4	INTERPHONE
13	L24	AC220V
14	F22	AC220V
15	PE	EARTH
16	LTA	PIT LIGHT
17	LTC	ON CAR LIGHT

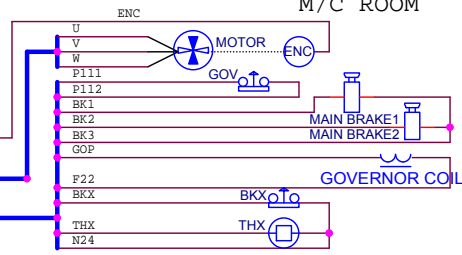
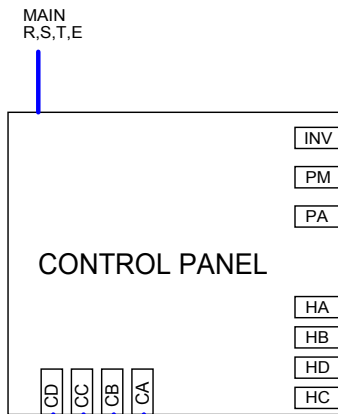
NO	SIGNAL	DEFINITION
CA-01	P114	SAFETY-ON CAR1
CA-02	P115	SAFETY-EXIT1
CA-03	P116	SAFETY-EXIT2
CA-04	P117	Safety-End
CA-05	P118	Gate s/w
CA-06	L22	AC220V
CA-07	F22	AC220V
CA-08	LTC	ON CAR LIGHT
CA-09	--	SPARE
CA-10	MR	Door Power
CA-11	MS	Door Power
CA-12	--	SPARE

NO	SIGNAL	DEFINITION
CB-01	OP	Door-Open
CB-02	CL	Door-Close
CB-03	CM1	Door-CM1
CB-04	IHU	INS-UP B/T
CB-05	IHD	INS-DOWN B/T
CB-06	IAT	AUTO-In car
CB-07	LU	LCS-Level Up
CB-08	LD	LCS-Level Down
CB-09	N24	0V(N24)
CB-10	N24	N24
CB-11	P24	P24
CB-12	--	SPARE

NO	SIGNAL	DEFINITION
CC-01	TE1	INTERPHONE
CC-02	TE2	INTERPHONE
CC-03	TE3	INTERPHONE
CC-04	TE4	INTERPHONE
CC-05	PE	EARTH
CC-06	PE	EARTH
CC-07	OPR	R-DOOR OPEN
CC-08	CLR	R-DOOR CLOSE
CC-09	CM1R	R-DOOR CM1
CC-10	--	SPARE
CC-11	--	SPARE
CC-12	P24	+24VDC

NO	NAME	DEFINITION
01	N24	Common
02	UL	Up-Limit
03	SLU	Slow-down(up)
04	SLUM	Slow-down(up1)
05	SLUH	Slow-down(up2)
06	P112	Safety UOT
07	P113	Safety UOT
08	PE	EARTH

DRWN BY	J.H.KWACK	APPD BY	S.D.LEE
FIELD		TITLE	LIGHT CIRCUIT
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NO	SIGNAL	SIZE
1	U	10SQ
2	V	10SQ
3	W	10SQ
4	EARTH	5.5SQ

NO	SIGNAL	SIZE
1	BK1	0.75SQ
2	BK2	0.75SQ
3	BK3	0.75SQ
4		

NO	NAME	DEFINITION
PA-01	BK1	BRAKE COIL1 +
PA-02	BK2	BRAKE COIL2 +
PA-03	BK3	BRAKE COIL -
PA-04	--	SPARE
PA-05	GOP	GOV-OP COIL
PA-06	F22	AC220/0V
PA-07	N24	COM
PA-08	BKX	BRAKE OPEN
PA-10	THX	MOTOR TH OPEN
PA-11	P111	SAFETY-GOV
PA-12	P112	SAFETY-M/C ROOM
PA-13	BA+	EM-POWER(구동용)
PA-14	BA-	EM-POWER(구동용)

NO	NAME	DEFINITION
PM-01	R	380V FROM B/D
PM-02	S	380V FROM B/D
PM-03	T	380V FROM B/D
PM-04	E	EARTH FROM B/D
PM-05	PE	EARTH
PM-06	U	MOTOR-U
PM-07	V	MOTOR-V
PM-08	W	MOTOR-W
PM-09	L1	AC220V-B/D
PM-10	L2	AC220V-B/D

케이블 사양

HA (상부리미트용 8Cx0.75SQ-10M)

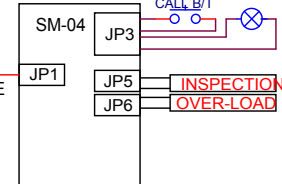
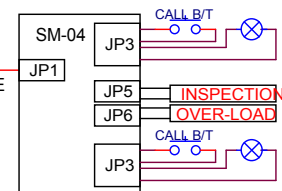
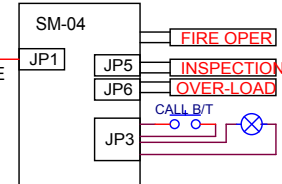
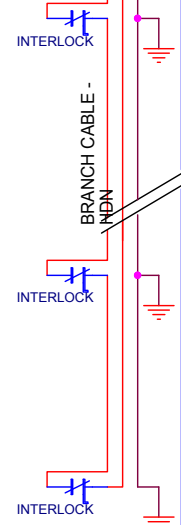
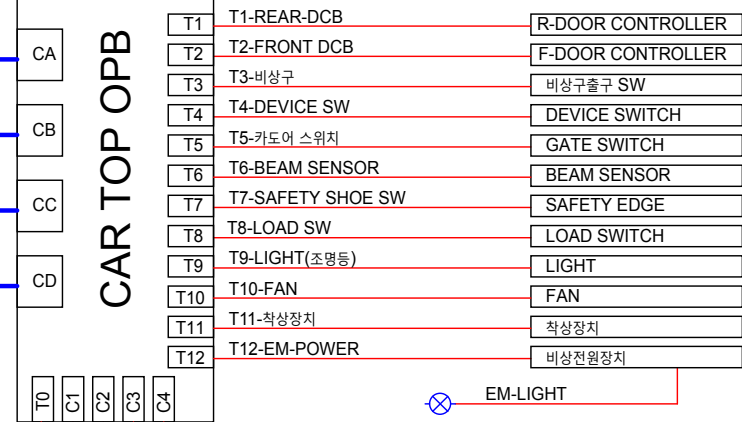
HB (하부리미트용 20Cx0.75SQ)

HC (도어인터록 케이블 3Cx0.75SQ)

HD (승장통신용 4Cx0.75SQ SHIELDED)

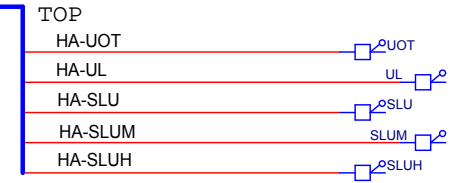
NO	NAME	DEFINITION
01	N24	Common
02	UL	Up-Limit
03	SLU	Slow-down(up)
04	SLUM	Slow-down(up1)
05	SLUH	Slow-down(up2)
06	P112	Safety UOT
07	P113	Safety UOT
08	PE	EARTH

Traveling cable

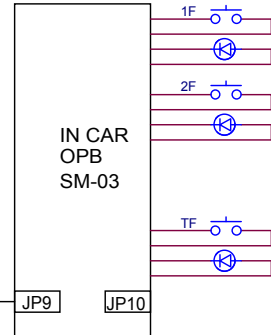
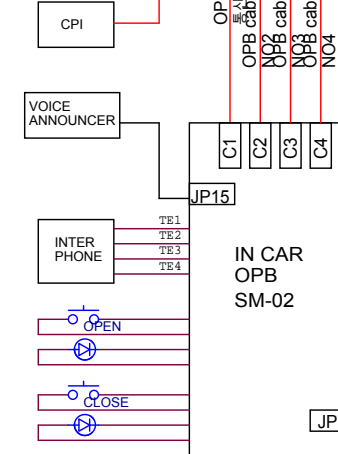
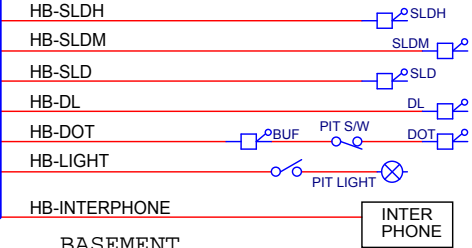


NO	NAME	DEFINITION
01	P117	H DOOR-LOCK
02	P119	H DOOR-LOCK
03	PE	EARTH

NO	NAME	DEFINITION
01	P24	+24VDC
02	N24	0VDC
03	TXA+	COMM
04	TXA-	COMM
05	--	COMM



NO	NAME	DEFINITION
01	COM	Common
02	DL	DOWN-Limit
03	SLD	Slow-down(dn)
04	SLDM	Slow-down(dn1)
05	SLDH	Slow-down(dn2)
06	FRS	FIRE RETURN
07	P113	Safety DOT
08	P114	Safety PIT
09	TE1	INTERPHONE
10	TE2	INTERPHONE
11	TE3	INTERPHONE
12	TE4	INTERPHONE
13	L24	AC220V
14	F22	AC220V
15	PE	INTERPHONE
16	LTA	INTERPHONE
17	LTC	INTERPHONE
18	--	SPARE
19	--	SPARE
20	--	SPARE



CAR TOP 결선도

NO	NAME	DEFINITION
01	CM1R	R-Door CM1
02	OPR	R-Door open signal
03	CLR	R-Door close signal
04	CM2R	R-Door CM2
05	DOLR	R-Door open limit
06	DCLR	R-Door close limit
07	MRR	R-Door Power
08	MSR	R-Door Power
09	PE	EARTH

NO	NAME	DEFINITION
01	N24	N24
02	STER	R-Safety Edge
03	PTCR	R-Beam Sensor
04	L22	AC220V
05	F22	AC220V
06	PE	EARTH

NO	NAME	DEFINITION
01	CM1	CM1
02	OP	Door open signal
03	CL	Door close signal
04	CM2	CM2
05	DOL	Door open limit
06	DCL	Door close limit
07	MR	Door Motor Power
08	MS	Door Motor Power
09	PE	EARTH

NO	NAME	DEFINITION
01	P115	비상구
02	P116	비상구
03	PE	EARTH

NO	NAME	DEFINITION
01	P114-1	TAS SWITCH
02	PE	EARTH

NO	NAME	DEFINITION
01	P117	카드어 스위치
02	P118	카드어 스위치
03	PE	EARTH

NO	NAME	DEFINITION
01	N24	0V(N24V)
02	PTC	Safety beam signal
03	L22	AC220
04	F22	AC220
05	PE	EARTH

NO	NAME	DEFINITION
01	N24	0V(N24V)
02	STE	SAFETY EDGE
03	PE	EARTH

NO	NAME	DEFINITION
01	N24	0V(N24V)
02	OL	Overload switch
03	L80	Full load switch
04	L30	Light load switch
04	PE	EARTH

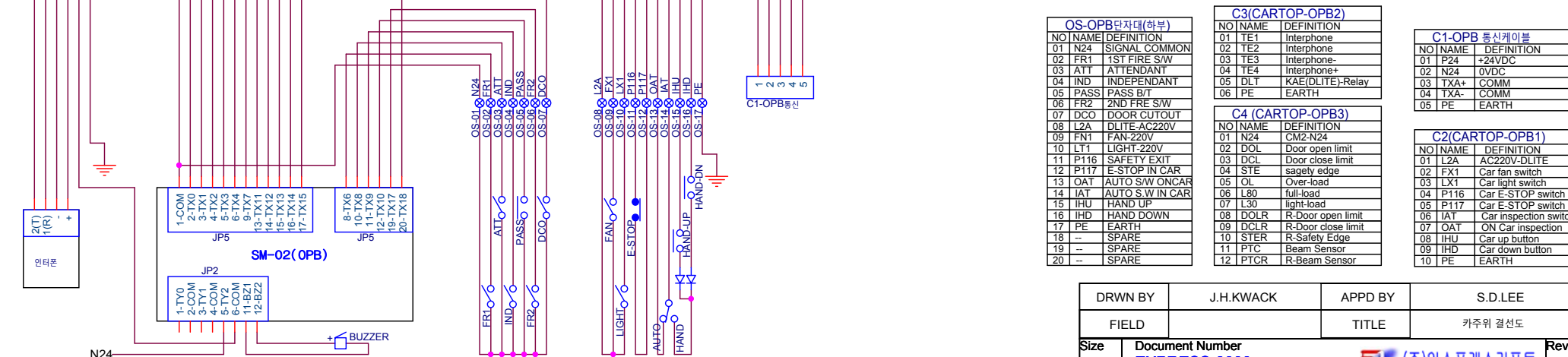
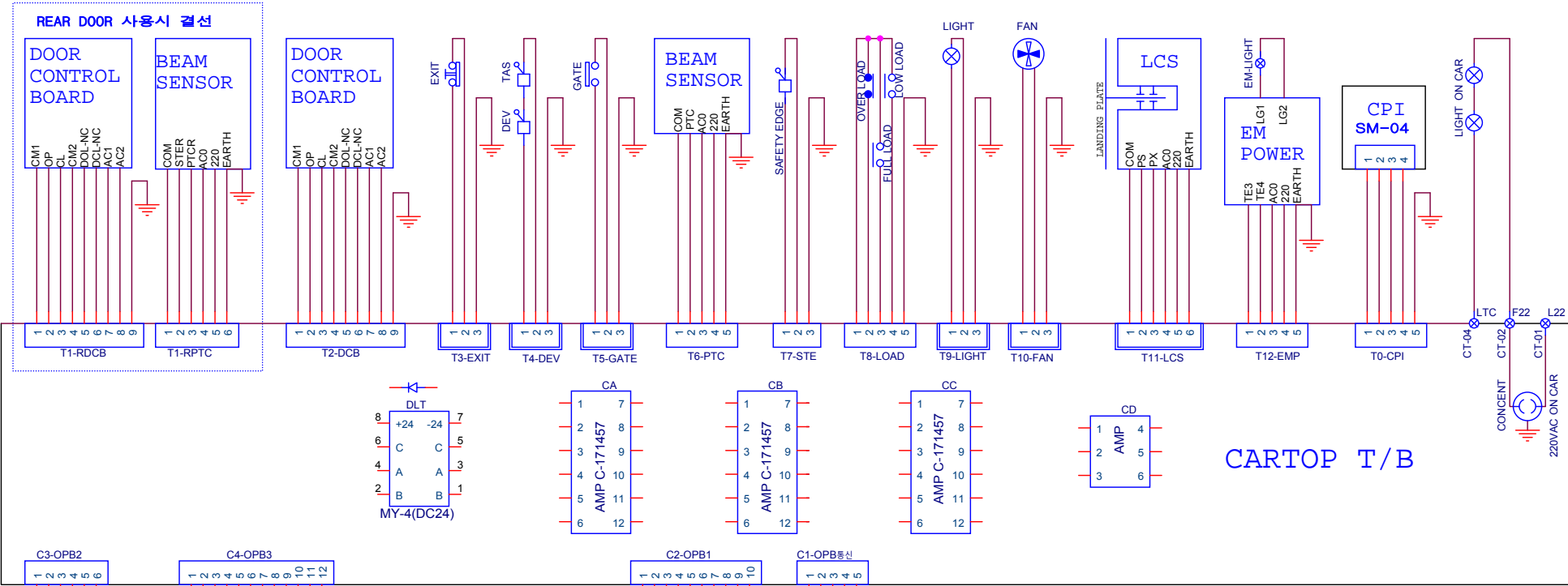
NO	NAME	DEFINITION
01	F22	AC220V
02	LX1	Car light
03	PE	EARTH

NO	NAME	DEFINITION
01	F22	AC220V
02	FX1	Car fan
03	PE	EARTH

NO	NAME	DEFINITION
01	N24	0V(N24V)
02	LU	Up find leveling
03	LD	Down find leveling
04	L22	AC220
05	F22	AC220
06	PE	EARTH

NO	NAME	DEFINITION
01	TE3	EM-POWER 12V
02	TE4	EM-POWER 12V
03	L22	AC220
04	F22	AC220
05	PE	EARTH

NO	NAME	DEFINITION
01	P24	+24VDC
02	N24	0VDC
03	TXA+	COMM
04	TXA-	COMM
05	PE	EARTH



NO	NAME	DEFINITION
01	N24	SIGNAL COMMON
02	FR1	1ST FIRE S/W
03	ATT	ATTENDANT
04	IND	INDEPENDANT
05	PASS	PASS B/T
06	FR2	2ND FRE S/W
07	DCO	DOOR CUTOFF
08	L2A	DLITE-AC220V
09	FN1	FAN-220V
10	LT1	LIGHT-220V
11	P116	SAFETY EXIT
12	P117	E-STOP IN CAR
13	OAT	AUTO S/W ON CAR
14	IAT	AUTO S/W IN CAR
15	IHU	HAND UP
16	IHD	HAND DOWN
17	PE	EARTH
18	--	SPARE
19	--	SPARE
20	--	SPARE

NO	NAME	DEFINITION
01	TE1	Interphone
02	TE2	Interphone
03	TE3	Interphone-
04	TE4	Interphone+
05	DLT	KAE(DLITE)-Relay
06	PE	EARTH

NO	NAME	DEFINITION
01	P24	+24VDC
02	N24	0VDC
03	TXA+	COMM
04	TXA-	COMM
05	PE	EARTH

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FIELD		TITLE	카주위 결선도
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SIGNAL NAME DESCRIPTION

Safety,PCB NAME	DESCRIPTION	SIGNAL NAME	DESCRIPTION	RELAY CONTACTOR			DESCRIPTION RY=RELAY C/T=CONTACTOR
				NAME	TYPE	Volt	
PP	Phase Protector	BKX	Breke open signal	9	RY	110	Safety relay in CP POWER PCB
GOV	Governor switch	THX	Thermal sensor signal	9H	RY	110	Hatch-door check relay in PCB
UOT	Up over-traveling switch	SLUH	3rd UP-slowdown signal	9HX	C/T	110	Hatch-door contactor
DOT	Down over-traveling switch	SLUM	2nd UP-slowdown signal	9G	RY	110	Car-door check relay in PCB
PIT	Safety switch in PIT	SLU	1st UP-slowdown signal	9GX	C/T	110	Car-door contactor
DEV	Device switch	UL	UP-limit switch signal	DO	RY	24	Door open relay
TAS	Top of car safety plate switch	SLDH	3rd DOWN-slowdown signal	DC	RY	24	Door close relay
EXIT	Exit switch	SLDM	2nd DOWN-slowdown signal	RO	RY	24	Rear-Door open relay
E-STOP IN CP	Emergency-stop switch in control panel	SLD	1st DOWN-slowdown signal	RC	RY	24	Rear-Door close relay
E-STOP IN PCB	Emergency-stop switch in CP POWER PCB	DL	DOWN-limit switch signal	SLU	RY	24	Up-slowdown Relay
E-STOP IN REMOCON	Emergency-stop switch in REMOCON	FRS	Fire return signal	FR1	RY	110	1st Fireman service Relay
E-STOP ON CAR	Emergency-stop switch on car	DOL(R)	Front Door open limit signal(R=rear)	FR2	RY	110	2nd Fireman service Relay
E-STOP IN CAR	Emergency-stop switch in car	DCL(R)	Front Door close limit signal(R=rear)	FRS	RY	24	Fire return Relay
GATE	Gate switch	STE(R)	Front Door safety edge signal(R=rear)	BY	C/T	110	Brake r-common contactor
H-DOOR LOCK	Hatch door switch	OL	Over-load signal	BK1	C/T	110	Brake contactor1
SM-01-F	Main control PCB in control panel	L80	Load 80% signal	BK2	C/T	110	Brake contactor2
SM-02	Car control PCB in COP	L30	Load 30% signal	MC	C/T	110	Inverter in-line contactor
SM-03	Car-call control PCB in COP	PTC(R)	Front door Photo-cell signal(R=rear)	MY	C/T	110	Inverter out-line contactor
SM-04	H-call & Indicator PCB	ATT	Attendant operation signal				
UPS	Emergency power for brake	IND	Independent operation signal				
SMPS	Power supply for controller	PASS	By-pass signal				
CP POWER	Control panel terminal PCB	DCO	Door cutout signal				

SYMBOL SPECIFIC

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WIRE IN CONTROL PANEL		JOINT POINT WIRE IN COTROL PANEL		WIRE IN HOISTEAY
	"A" CONTACT IN PCB		CONDENSER		JOINT POINT WIRE IN HOISTWAY
	"A" CONTACT MAGNETIC CONTACTOR		DIODE		TRANSFORMER
	"B" CONTACT MAGNETIC CONTACTOR		RESISTER		RESISTER IN PCB
	"A" CONTACT MY-4 TYPE RELAY		FUSE		MOTOR FIELD(DOOR MOTOR)
	"B" CONTACT MY-4 TYPE RELAY		TERMINAL IN PCB		HARNESS(P112=SIGNAL NAME, HA-06=NUMBER OF HARNESS PIN)
	"A" CONTACT LIMIT SWITCH		"A" CONTACTTOGGLE SWITCH		"A" CONTACT MAGNETIC CONTACTOR
	"B" CONTACT LIMIT SWITCH		"B" CONTACTTOGGLE SWITCH		SCREW TERMINAL IN CP/CARTOP
	"A" CONTACT CAM SWITCH		OCR		2P NFB(NO FUSE BREAKER)
	"A" CONTACT CAM SWITCH		MOTOR THERMAL SWITCH		1P NFB(NO FUSE BREAKER)
	HATCH DOOR INTERLOCK		LAMP		GONGELECTRIC BUZZER
	BLOWER MOTOR FAN MOTOR IN CAGE		UP,DOWN DIRECTION LAMP		BUZZER
	"A" CONTACT PUSH BUTTON		"B" CONTACT PUSH BUTTON		"B" CONTACTTHERMAL SWITCH
	EMERGENCY LIGHT		2WAY TOGGLE SWITCH		SOLENOIDE
	BRAKE COIL		EARTH		COIL OFMAGNETIC CONTACTOR
	MOTOR ARMATURE		COIL OF MY-4 TYPE RELAY		LEVELING INDUCTOR