

# EXPRESS-AS380 전기도면

현 장 명 : EXPRESS-AS380 표준도면  
 발 주 처 :

EXPRESS LIFT Co.,LTD

11	SYMBOL	SYMBOL SPECIFIC	
10	COL.J	카주위 및 운전반 결선도	CARTOP-3
9	COL.I	기계실 및 승강로 결선도	
8	COL.H	회로 결선도 (전체 계통도)	
7	COL.G	LIGHT & INTERPHONE CIRCUIT	
6	COL.F	HALL DISPLAY & CALL CONTROL	SM-04
5	COL.E	CAR CONTROL CIRCUIT	SM-02,SM-03
4	COL.D	DOOR CONTROL CIRCUIT	DCB
3	COL.C	MAIN CONTROL CIRCUIT	AST029
2	COL.B	POWER & SAFETY CIRCUIT	POWER-8002
1	COL.A	TRACTION CIRCUIT	INVERTER
NO	COL.NO	DESCRIPTION	NOTE

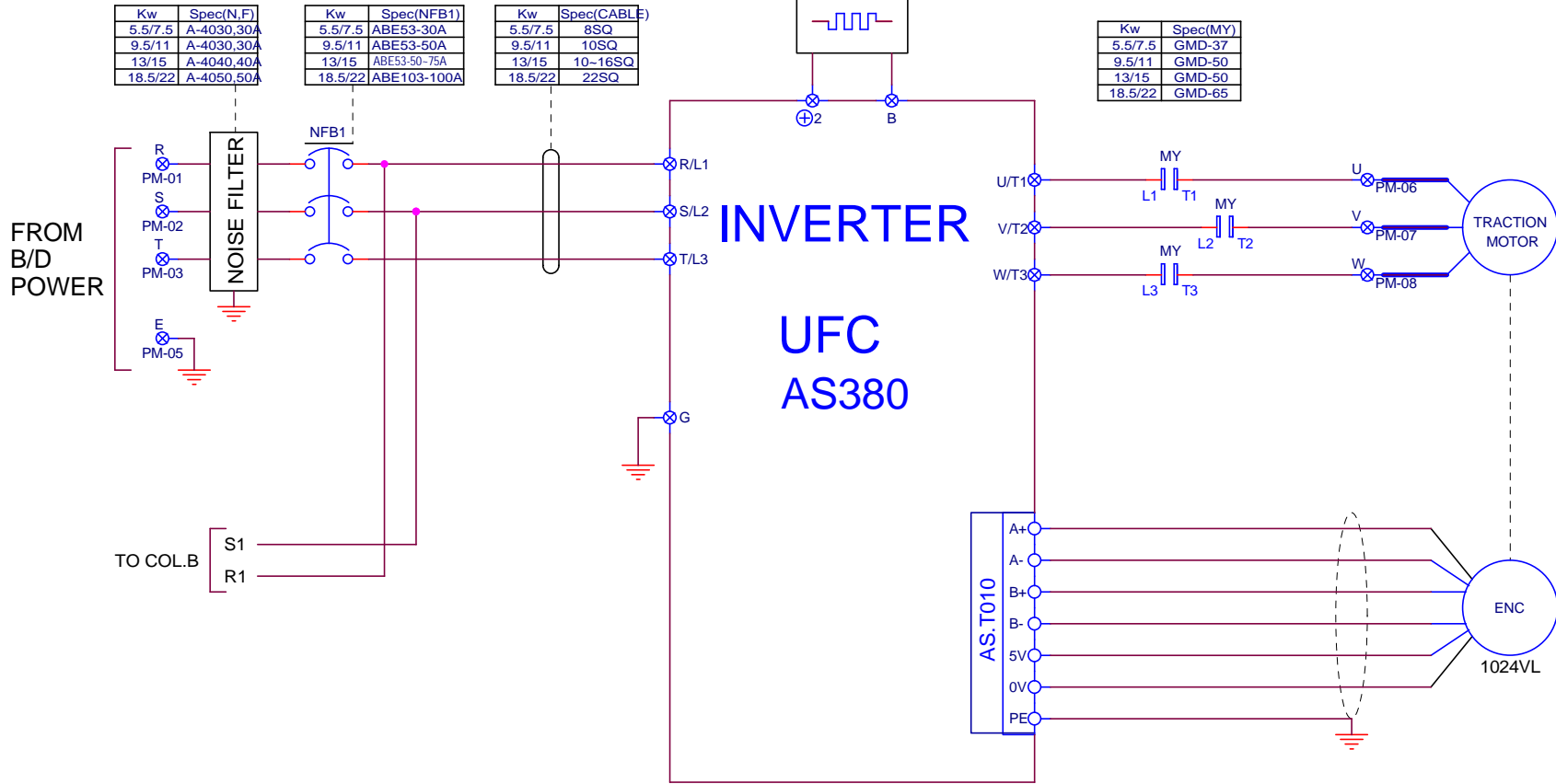
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# COL.A-1(비동기)

MMR(비동기)

RB



Kw	Spec(N,F)
5.5/7.5	A-4030,30A
9.5/11	A-4030,30A
13/15	A-4040,40A
18.5/22	A-4050,50A

Kw	Spec(NFB1)
5.5/7.5	ABE53-30A
9.5/11	ABE53-50A
13/15	ABE53-50-75A
18.5/22	ABE103-100A

Kw	Spec(CABLE)
5.5/7.5	8SQ
9.5/11	10SQ
13/15	10-16SQ
18.5/22	22SQ

Kw	Spec(MY)
5.5/7.5	GMD-37
9.5/11	GMD-50
13/15	GMD-50
18.5/22	GMD-65

PM 단자대(동력단자대)		
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	N	NEUTRAL
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

PA 단자대		
NO	NAME	DEFINITION
PA-01	BK1	BRAKE COIL1+
PA-02	BK2	BRAKE COIL2+
PA-03	BK-	BRAKE COIL -
PA-04	N00	AC220V-RBK
PA-05	KRB	ROPE BRAKE
PA-06	N24	COM
PA-07	BKX	BRAKE1 OPEN
PA-08	BKY	BRAKE2 OPEN
PA-09	RBX	R-BRAKE OPEN
PA-10	THX	MOTOR TH OPEN
PA-11	P111	SAFETY-GOV
PA-12	P112	SAFETY-GOV
PA-13	MCF	MC ROOM FAN1
PA-14	MC0	MC ROOM FAN2
PA-15	N24	COM

TA 단자대		
NO	NAME	DEFINITION
TA-01	P110	SAFETY (AC100)
TA-02	P111	SAFETY-CP
TA-03	P112	SAFETY-M ROOM
TA-04	P114	SAFETY-HOISTWAY
TA-05	P115	SAFETY-E/STOP
TA-06	P116	SAFETY-EXIT
TA-07	P117	SAFETY-END
TA-08	P118	GATE S/W
TA-09	P119	HATCH DOOR S/W
TA-10	PFR	SAFETY-FIRE

TB 단자대		
NO	NAME	DEFINITION
TB-01	PE	EARTH
TB-02	F10	0V-AC110V
TB-03	L1A	SAFETY AC110V
TB-04	MR	DOOR POWER
TB-05	MS	DOOR POWER
TB-06	L22	AC220V
TB-07	F22	AC220V
TB-08	L21	AC220V
TB-09	P24	+24DCV POWER
TB-10	N24	0V DC24

E80H-40-1024-VL								
1	2	3	4	5	6	7	8	S
A+	A-	B+	B-	Z+	Z-	5V	0V	PE
	흑색		백색		등색	갈색	경색	실드

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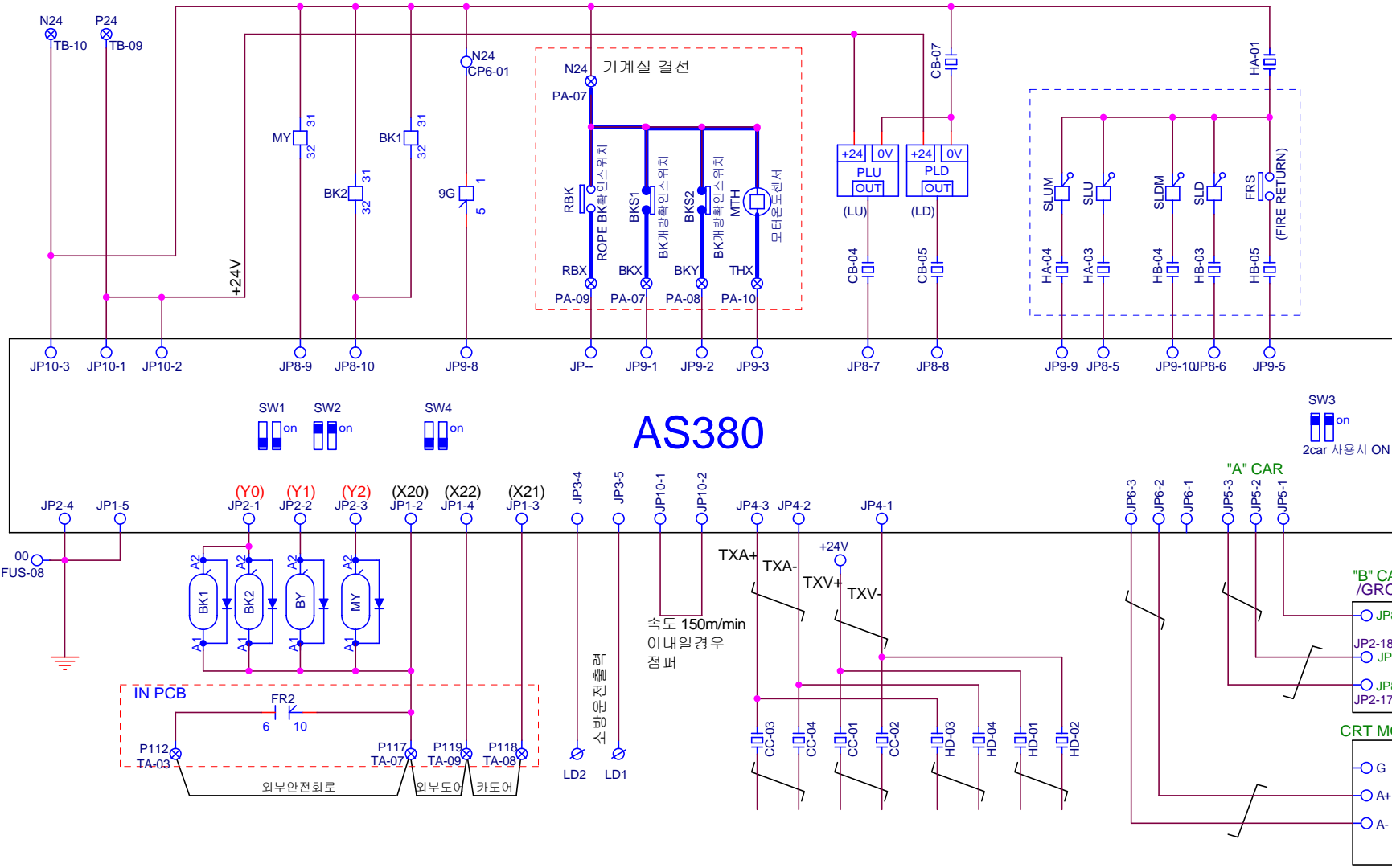


# COL.C

AS380-JP1		
NO	NAME	DEFINITION
01	XCOM	X COMMON
02	X20	SAFETY LOOP
03	X21	CAR DOOR
04	X22	DOOR LOCK
05	XCOM	X COMMON

AS380-JP2		
NO	NAME	DEFINITION
01	Y0	BK OUTPUT
02	Y1	BY OUTPUT
03	Y2	MY OUTPUT
04	COM1	Y COMMON

AS380-JP3		
NO	NAME	DEFINITION
01	Y3	DR-FREE OP
02	Y4	EM-LEVEL
03	COM2	Y COMMON
04	Y5	FIRE OUT
05	COM3	Y5 COMMON
06	Y6	--
07	COM4	--



AS380-JP4		
NO	NAME	DEFINITION
01	N24	0VDC
02	TXA2+	CAN2H
03	TXA-	CAN0L

AS380-JP6		
NO	NAME	DEFINITION
01	N24	0VDC
02	TXA2+	CAN2H
03	TXA2-	CAN2L

AS380-JP7		
NO	NAME	DEFINITION
01	G5VIO	5V의 0V
02	+5VIO	+5V DC
03		
04	G24VIO	24V의 0V
05	+24VIO	+24V DC

AS380-JP8		
NO	NAME	DEFINITION
01	X0	AUTO INPUT
02	X1	AUTO INPUT
03	X2	INS-UP
04	X3	INS-DOWN
05	X4	SLU INPUT
06	X5	SLD INPUT
07	X6	UP LEVEL
08	X7	DOWN LEVEL
09	X8	MY CHECK
10	X9	BK CHECK

AS380-JP9		
NO	NAME	DEFINITION
01	X10	BK스위치확인
02	X11	BKY스위치확인
03	X12	MTH스위치확인
04	X13	DR-FREE OP
05	X14	DOOR ZONE
06	X15	FIRE RETURN
07	X16	EQ INPUT
08	X17	DOOR SW 확인
09	X18	SLUM INPUT
10	X19	SLDM INPUT

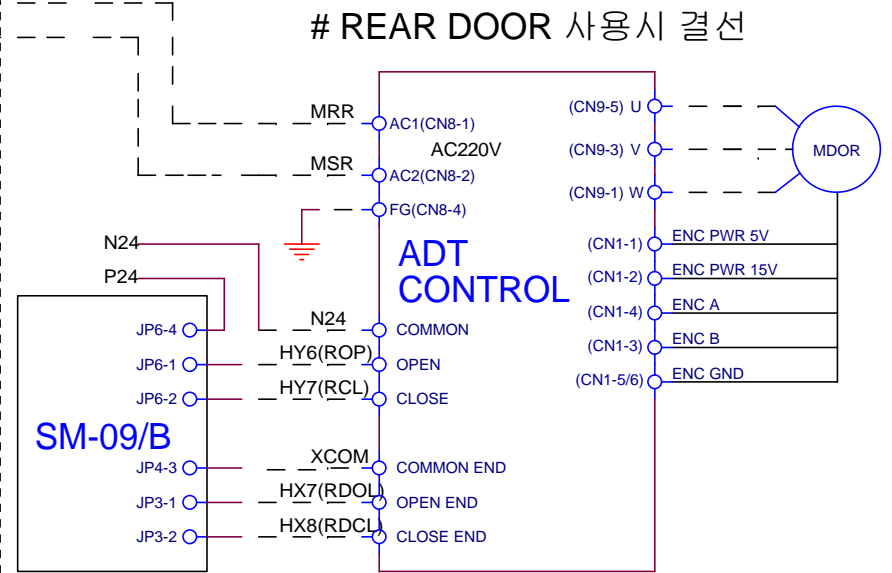
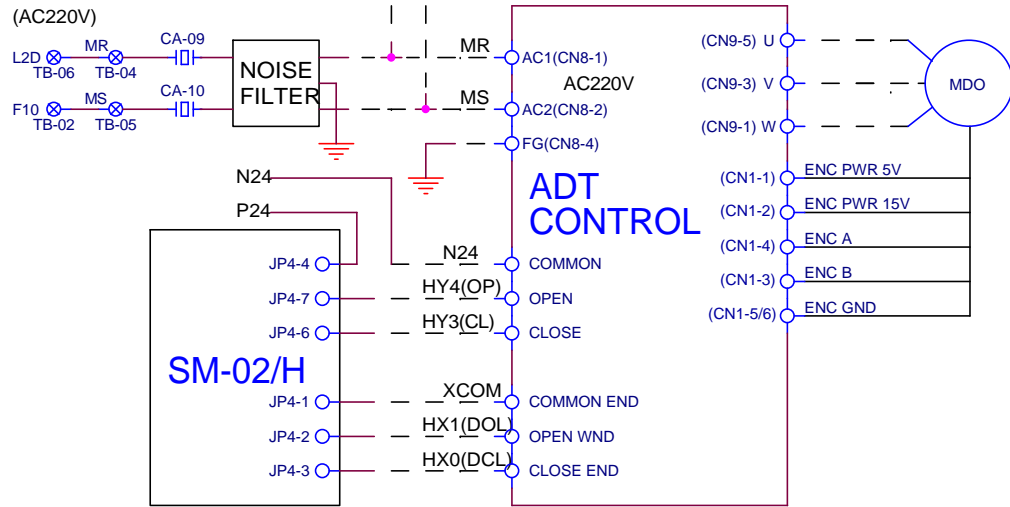
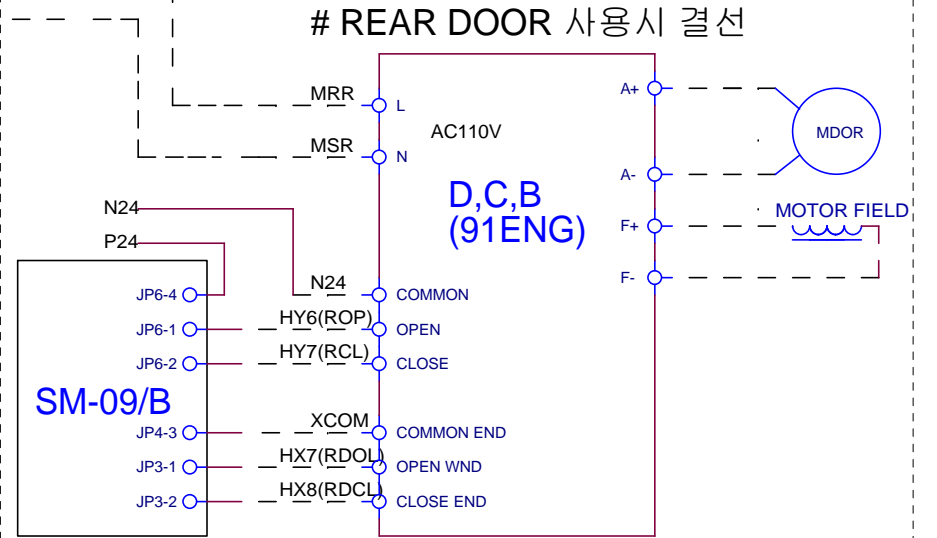
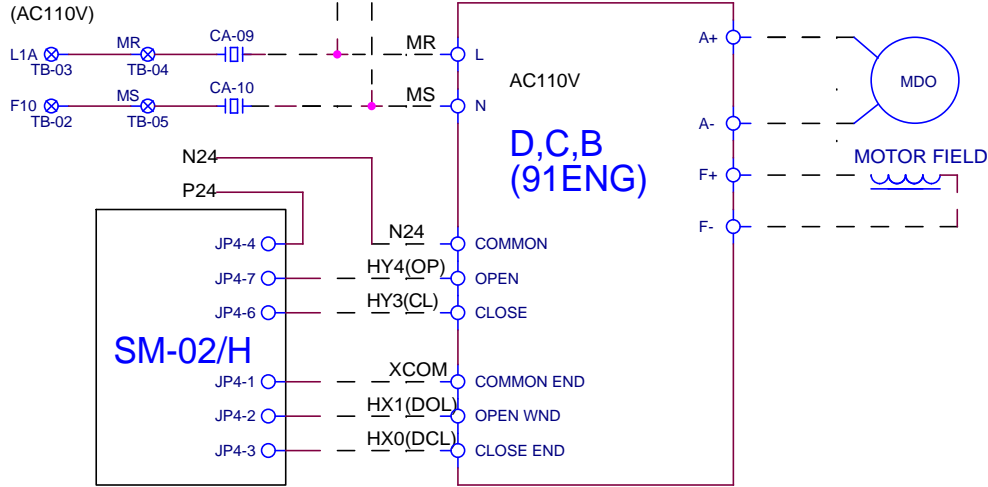
AS380-JP10		
NO	NAME	DEFINITION
01	P24	+24V DC
02	V5IO	
03	N24	0V DC24V

AS380-JP11		
NO	NAME	DEFINITION
01	G	0VDC
02	AN-	ANALOG IN-
03	AN+	ANALOG IN+

DRWN BY	J.H.KWACK	APPD BY	S.D.LEE
FIELD		TITLE	CONTROL CIRCUIT SM-01
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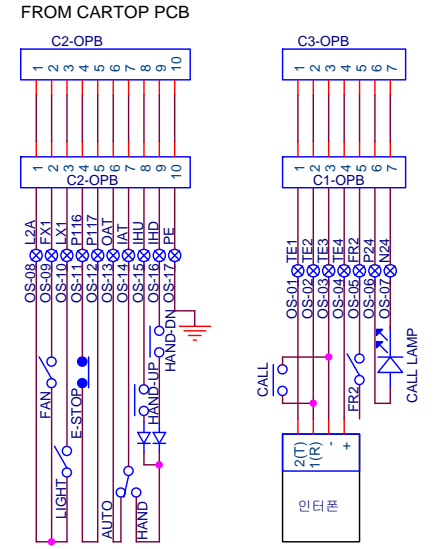
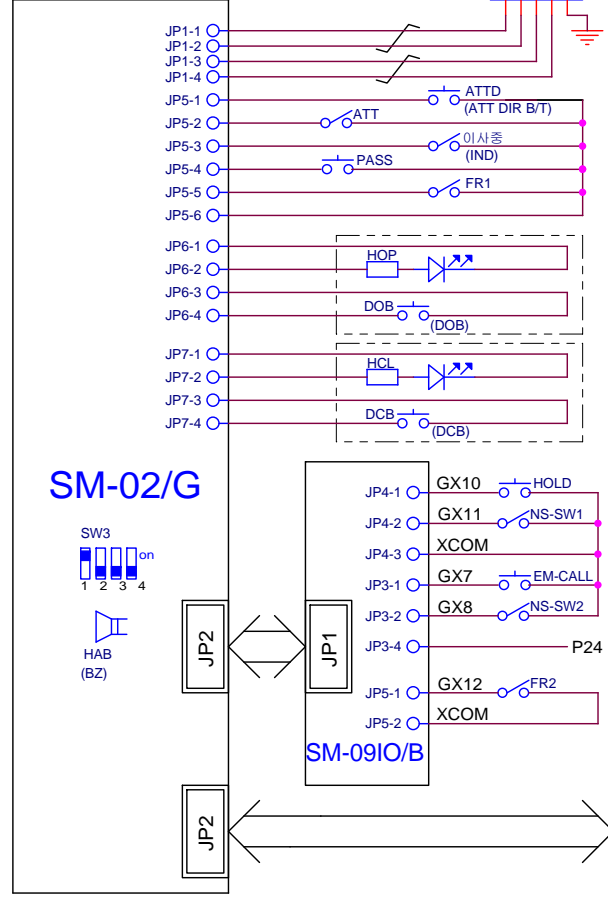
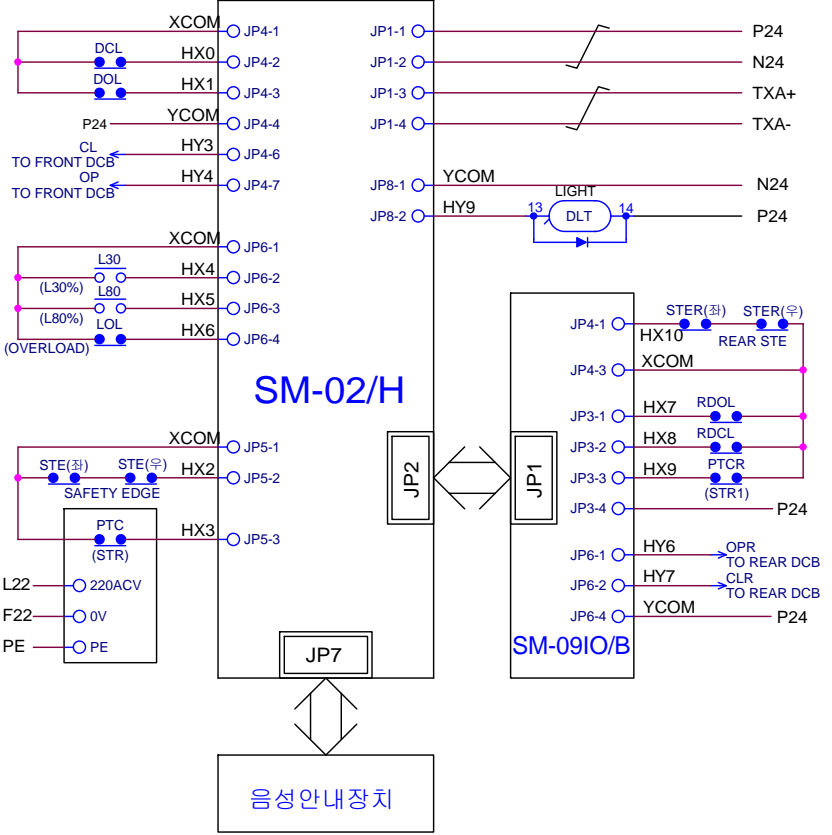
(주)익스프레스리프트

# COL.D



DRWN BY	J.H.KWACK	APPD BY	S.D.LEE
FIELD		TITLE	DOOR CONTROL CIRCUIT
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# COL.E



NO	NAME	DEFINITION
01	P24	POWER IN+
02	N24	POWER IN-
03	TXA+	CANH
04	TXA-	CANL

NO	NAME	DEFINITION
01	XCOM	HX4,5,6의 공통
02	L30	HX4-L30%
03	L80	HX5-L80%
04	LOL	HX6-OVERLOAD

NO	NAME	DEFINITION
01	RDOL	HX7-R OP-END
02	RDCL	HX8-R CL-END
03	PTCR	HX9-R FTS
04	P24	HX7,8,9의 P24

NO	NAME	DEFINITION
01	--	HY10--
02	YCOM	HY10의 공통

NO	NAME	DEFINITION
01	YCOM	HY0.1의 COM
02	CMD	HY0-DOWN공
03	CMU	HY1-UP도착공
04	N24	POWER IN-
05	P24	POWER IN+

NO	NAME	DEFINITION
01	BIT0	VOICE D0
02	BIT1	VOICE D1
03	BIT2	VOICE D2
04	BIT3	VOICE D3
05	BIT4	VOICE D4
06	BIT5	VOICE D5
07	BIT6	VOICE D6
08	BIT7	VOICE D7
09	0V	POWER IN-
10	+24V	POWER IN+

NO	NAME	DEFINITION
01	RSTE	HX10-R STE
02	--	HX11--
03	XCOM	HX10,11의 공통

NO	NAME	DEFINITION
01	--	HY11--
02	YCOM	HY11의 공통

NO	NAME	DEFINITION
01	XCOM	HX0.1의 COM
02	DCL	HX0-CLOS END
03	DOL	HX1-OPEN END
04	YCOM	HY2.3의 COM
05	FCL	HY2-관제CLOSE
06	CL	HY3-CLOSE
07	OP	HY4--OPEN신호

NO	NAME	DEFINITION
01	YCOM	HY5의 COM
02	DLT	HY5-DLT출력

NO	NAME	DEFINITION
01	--	HX12--
02	XCOM	HX12의 공통

NO	NAME	DEFINITION
01	OPR	HY6-R OPEN
02	CLR	HY7-R CLOSE
03	NUD	HY8-R NUDG
04	YCOM	HY6,7,8의 공통

NO	NAME	DEFINITION
01	XCOM	HX2.3의COM
02	STE	HX2-STE신호
03	PTC	HX3-PTC신호

NO	NAME	DEFINITION
01	--	HY9--
02	YCOM	HY9의 공통

NO	NAME	DEFINITION
01	GX7	GX7-
02	GX8	GX8-
03	GX9	GX9-
04	P24	GX7-9의 P24

NO	NAME	DEFINITION
01	GX10	GX10-HOLD OP
02	GX11	GX11-NS SW
03	XCOM	GX10,11의 공통

NO	NAME	DEFINITION
01	P24	POWER IN+
02	N24	POWER IN-
03	TXA+	CANH
04	TXA-	CANL

NO	NAME	DEFINITION
01	ATD	GX0-ATT DIREC
02	ATT	GX1-ATT IN
03	IND	GX2-IND IN
04	PAS	GX3-ATT PASS
05	FR1	GX4-FIRE 1ST
06	XCOM	GX0-4의 공통

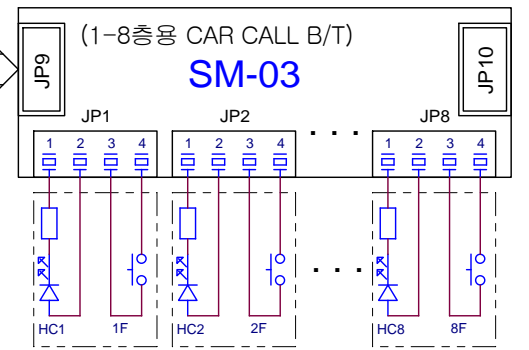
NO	NAME	DEFINITION
01	OP-	OPEN LAMP-
02	OP+	OPEN LAMP+
03	DOB	OPEN B/T
04	N24	OPEN B/T

NO	NAME	DEFINITION
01	GX12	GX12--
02	XCOM	GX12의 공통

NO	NAME	DEFINITION
01	CL-	CLOS LAMP-
02	CL+	CLOS LAMP+
03	DCB	CLOSE B/T
04	N24	CLOSE B/T

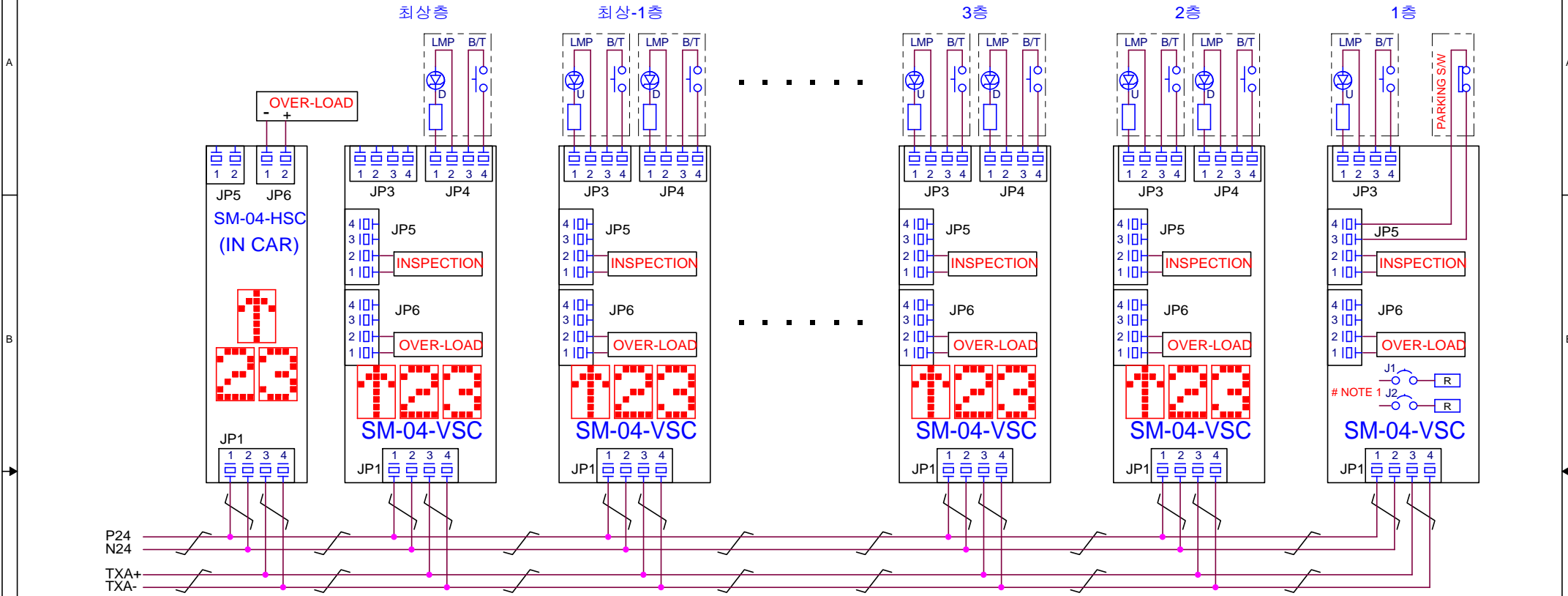
NO	NAME	DEFINITION
01	HOLD	GY0-HOLD출력
02	GY1	GY1--
03	GY2	GY2--
04	YCOM	GY0-2의 공통

NO	NAME	DEFINITION
01	GY3	GY3--
02	YCOM	GY3의 공통



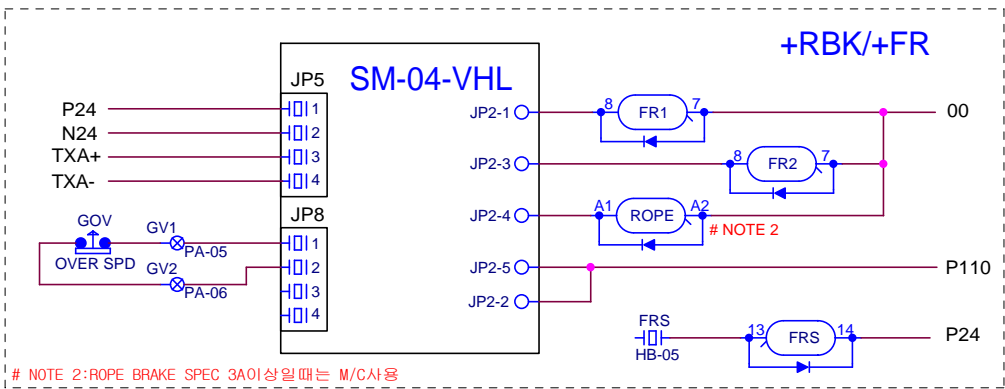
DRWN BY	J.H.KWACK	APPD BY	S.D.LEE
FIELD		TITLE	CONTROL CIRCUIT SM-02
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# COL.F



HD-4C(0.75TW)		
NO	NAME	DEFINITION
01	TXV+/P24	+24VDC
02	TXV-/N24	0VDC
03	TXA+	COMM
04	TXA-	COMM
05	PE	EARTH

# NOTE 1: SHORT J1,J2 TO GET TERMINAL RESISTANCE



# NOTE 2: ROPE BRAKE SPEC 3A이상일때는 M/사용

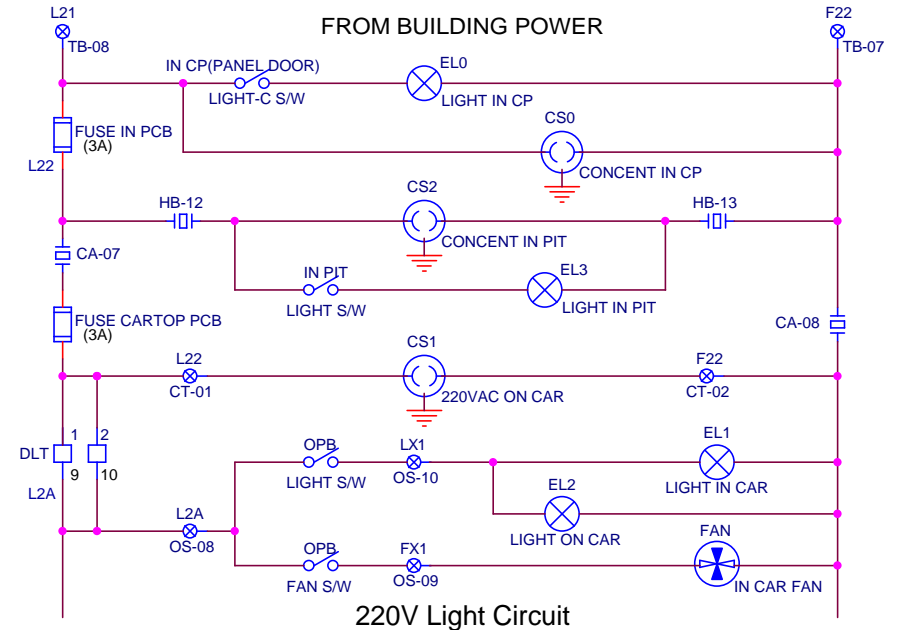
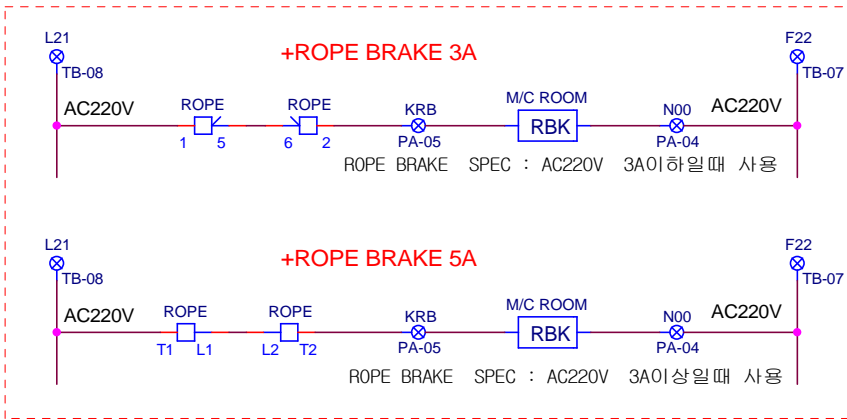
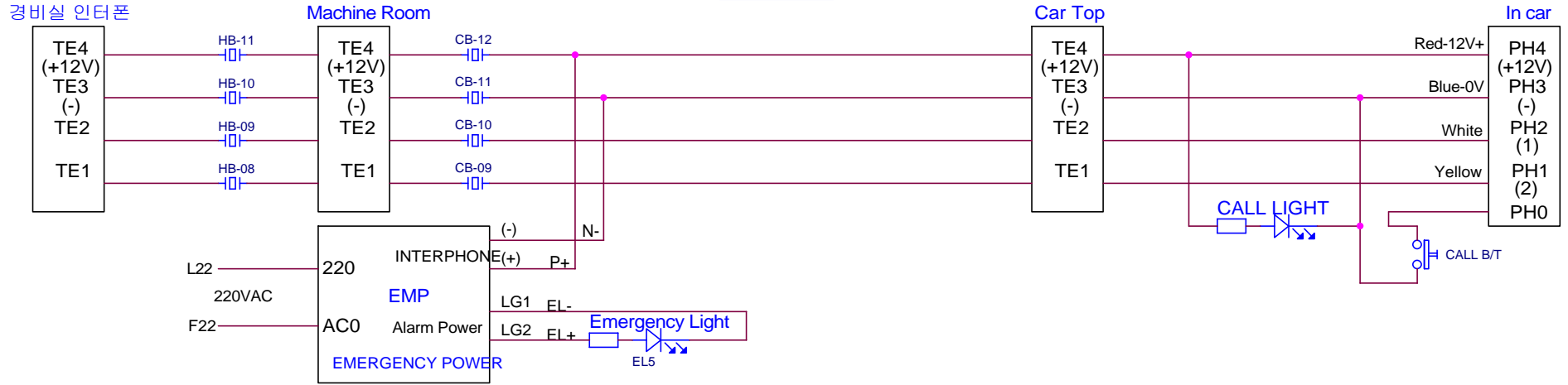
### SM-04 PCB FLOOR ADDRESS 입력방법

S1 JUMPER PIN이 꽂힌 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.

REAR(후면층) 최하층은 49를 기준하여 두번째층은 50다음은 51,52...순서로 층의 값을 입력함.

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



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	P119	H-Door s/w
CA-07	L22	AC220V
CA-08	F22	AC220V
CA-09	MR	Door Power
CA-10	MS	Door Power
CA-11	LTC	LIGHT IN PIT
CA-12	FR2	2ND FIRE SW

NO	SIGNAL	DEFINITION
CB-01	IHU	INS-UP B/T
CB-02	IHD	INS-DOWN B/T
CB-03	IAT	AUTO-In car
CB-04	LU	LCS-Level Up
CB-05	LD	LCS-Level Down
CB-06	P24	P24
CB-07	N24	0V(N24)
CB-08	N24	N24
CB-09	TE1	INTERPHONE
CB-10	TE2	INTERPHONE
CB-11	TE3	INTERPHONE
CB-12	TE4	INTERPHONE

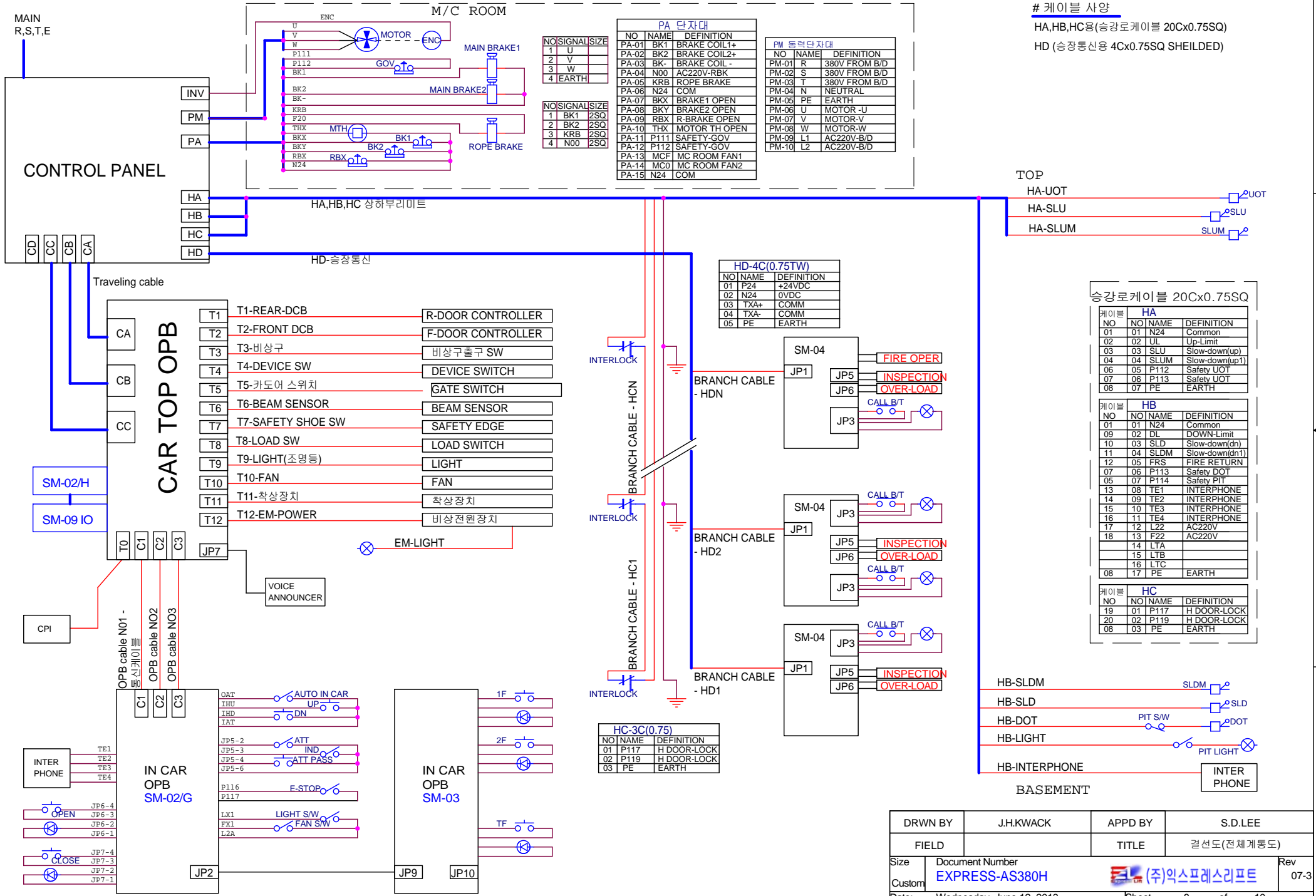
NO	SIGNAL	DEFINITION
CC-01	P24	+24VDC
CC-02	N24	0VDC
CC-03	TXA+	COMM
CC-04	TXA-	COMM
CC-05	PE	EARTH
CC-06	PE	EARTH
CC-07	--	SPARE

DRWN BY	J.H.KWACK	APPD BY	S.D.LEE
FIELD		TITLE	LIGHT CIRCUIT
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# COL.H (결선도 요약)

## # 케이블 사양

HA, HB, HC용 (승강로케이블 20Cx0.75SQ)  
 HD (승장통신용 4Cx0.75SQ SHEILDED)



1	U	2SQ
2	V	2SQ
3	W	2SQ
4	EARTH	2SQ

1	BK1	2SQ
2	BK2	2SQ
3	KRB	2SQ
4	N00	2SQ

NO	NAME	DEFINITION
PA-01	BK1	BRAKE COIL1+
PA-02	BK2	BRAKE COIL2+
PA-03	BK-	BRAKE COIL -
PA-04	N00	AC220V-RBK
PA-05	KRB	ROPE BRAKE
PA-06	N24	COM
PA-07	BKX	BRAKE1 OPEN
PA-08	BKY	BRAKE2 OPEN
PA-09	RBX	R-BRAKE OPEN
PA-10	THX	MOTOR TH OPEN
PA-11	P111	SAFETY-GOV
PA-12	P112	SAFETY-GOV
PA-13	MCF	MC ROOM FAN1
PA-14	MC0	MC ROOM FAN2
PA-15	N24	COM

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	N	NEUTRAL
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

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

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

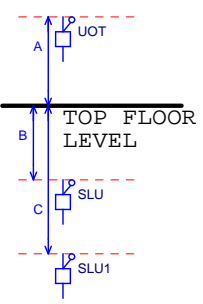
케이블 NO	NO	NAME	DEFINITION	
케이블 HA	01	N24	Common	
	02	UL	Up-Limit	
	03	SLU	Slow-down(up)	
	04	SLUM	Slow-down(up1)	
	06	05	P112	Safety UOT
	07	06	P113	Safety UOT
	08	07	PE	EARTH

케이블 NO	NO	NAME	DEFINITION	
케이블 HB	01	N24	Common	
	09	02	DL	DOWN-Limit
	10	03	SLD	Slow-down(dn)
	11	04	SLDM	Slow-down(dn1)
	12	05	FRS	FIRE RETURN
	07	06	P113	Safety DOT
	05	07	P114	Safety PIT
	13	08	TE1	INTERPHONE
	14	09	TE2	INTERPHONE
	15	10	TE3	INTERPHONE
	16	11	TE4	INTERPHONE
	17	12	L22	AC220V
	18	13	F22	AC220V
	14	14	LTA	
	15	15	LTB	
	16	16	LTC	
	08	17	PE	EARTH

케이블 NO	NO	NAME	DEFINITION	
케이블 HC	19	01	P117	H DOOR-LOCK
	20	02	P119	H DOOR-LOCK
	08	03	PE	EARTH

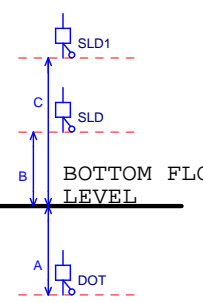
DRWN BY	J.H.KWACK	APPD BY	S.D.LEE
FIELD		TITLE	결선도(전체계통도)
Size	Document Number		Rev
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# COL.I (기계실, 승강로 결선도)

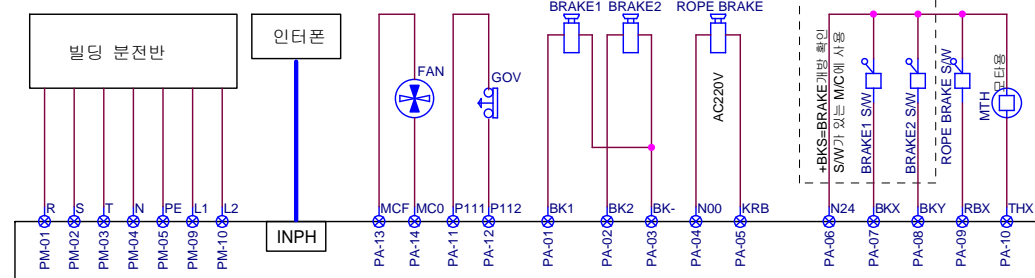


NO	SIGNAL
HA-01	COM(N24)
HA-02	UL
HA-03	SLU
HA-04	SLUM
HA-05	P112
HA-06	P113
HA-07	PE

NO	SIGNAL
HB-02	DL
HB-03	SLD
HB-04	SLDM
HB-05	FRS
HB-06	P113
HB-07	P114
HB-08	TE1
HB-09	TE2
HB-10	TE3
HB-11	TE4
HB-12	L22
HB-13	F22
HB-14	
HB-15	
HB-16	
HB-17	PE



NO	NAME	60M/MIN	90M/MIN	105M/MIN	120M/MIN	150M/MIN
A	UOT/DOT	150MM	150MM	150MM	180MM	180MM
B	SLU/SLD	1200MM	2200MM	2400MM	2200MM	2400MM
C	SLU1/SLD1				3600MM	5200MM



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	P119	H-Door s/w
CA-07	L22	AC220V
CA-08	F22	AC220V
CA-09	MR	Door Power
CA-10	MS	Door Power
CA-11	--	SPARE
CA-12	FR2	2ND FIRE SW

NO	NAME	DEFINITION
01	TE1	기계실 인터폰
02	TE2	기계실 인터폰
03	TE3	기계실 인터폰
04	TE4	기계실 인터폰

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

COMMH(승강통신케이블)  
(4Cx0.75SQ)

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

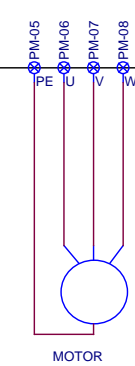
NO	SIGNAL	DEFINITION
CB-01	IHU	INS-UP B/T
CB-02	IHD	INS-DOWN B/T
CB-03	IAT	AUTO-In car
CB-04	LU	LCS-Level Up
CB-05	LD	LCS-Level Down
CB-06	P24	P24
CB-07	N24	0V(N24)
CB-08	N24	N24
CB-09	TE1	INTERPHONE
CB-10	TE2	INTERPHONE
CB-11	TE3	INTERPHONE
CB-12	TE4	INTERPHONE

NO	SIGNAL	DEFINITION
CC-01	P24	+24VDC
CC-02	N24	0VDC
CC-03	TXA+	COMM
CC-04	TXA-	COMM
CC-05	PE	EARTH
CC-06	PE	EARTH
CC-07	--	SPARE

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	P119	H-Door s/w
CA-07	L22	AC220V
CA-08	F22	AC220V
CA-09	MR	Door Power
CA-10	MS	Door Power
CA-11	--	SPARE
CA-12	FR2	2ND FIRE SW

NO	SIGNAL	DEFINITION
CB-01	IHU	INS-UP B/T
CB-02	IHD	INS-DOWN B/T
CB-03	IAT	AUTO-In car
CB-04	LU	LCS-Level Up
CB-05	LD	LCS-Level Down
CB-06	P24	P24
CB-07	N24	0V(N24)
CB-08	N24	N24
CB-09	TE1	INTERPHONE
CB-10	TE2	INTERPHONE
CB-11	TE3	INTERPHONE
CB-12	TE4	INTERPHONE

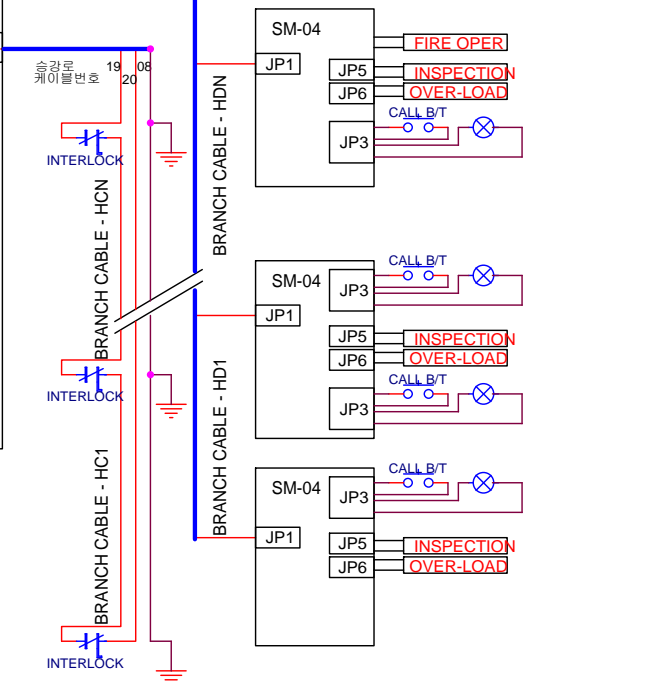
NO	SIGNAL	DEFINITION
CC-01	P24	+24VDC
CC-02	N24	0VDC
CC-03	TXA+	COMM
CC-04	TXA-	COMM
CC-05	PE	EARTH
CC-06	PE	EARTH
CC-07	--	SPARE



NO	NAME	DEFINITION
TA-01	P110	SAFETY (DC110)
TA-02	P111	SAFETY-CP
TA-03	P112	SAFETY-M ROOM
TA-04	P114	SAFETY-HOISTWAY
TA-05	P115	SAFETY-E/STOP
TA-06	P116	SAFETY-EXIT
TA-07	P117	SAFETY-END
TA-08	P118	GATE S/W
TA-09	P119	HATCH DOOR S/W
TA-10	PFR	SAFETY-FIRE

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	N	NEUTRAL
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

NO	NAME	DEFINITION
PA-01	BK1	BRAKE COIL1+
PA-02	BK2	BRAKE COIL2+
PA-03	BK-	BRAKE COIL -
PA-04	N00	AC220V-RBK
PA-05	KRB	ROPE BRAKE
PA-06	N24	COM
PA-07	BKX	BRAKE1 OPEN
PA-08	BKY	BRAKE2 OPEN
PA-09	RBX	R-BRAKE OPEN
PA-10	THX	MOTOR TH OPEN
PA-11	P111	SAFETY-GOV
PA-12	P112	SAFETY-GOV
PA-13	MCF	MC ROOM FAN1
PA-14	MC0	MC ROOM FAN2
PA-15	N24	COM



DRWN BY	J.H.KWACK	APPD BY	S.D.LEE
FIELD		TITLE	기계실 및 승강로 결선
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# COL.J (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	CL	Door close signal
03	OP	Door open 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	N24	N24
02	P115	비상구
03	P116	비상구
04	PE	EARTH

NO	NAME	DEFINITION
01	P119	카도어 스위치
02	P118	카도어 스위치
03	PE	EARTH

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

NO	NAME	DEFINITION
01	F22	AC220V
02	LX1	Car light
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	COM	0V(N24)
02	OAT	AUTO ON CAR
03	OPN	DOOR OPEN INS
04	OHU	INS-DOWN B/T
05	OHD	INS-DOWN B/T
06	P114-1	SAFETY ON CAR
07	P115	SAFETY ON CAR
08	P24	+24V

NO	NAME	DEFINITION
01	P114	SAFETY DEVICE
02	P114-1	SAFETY DEVICE
03	PE	EARTH

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

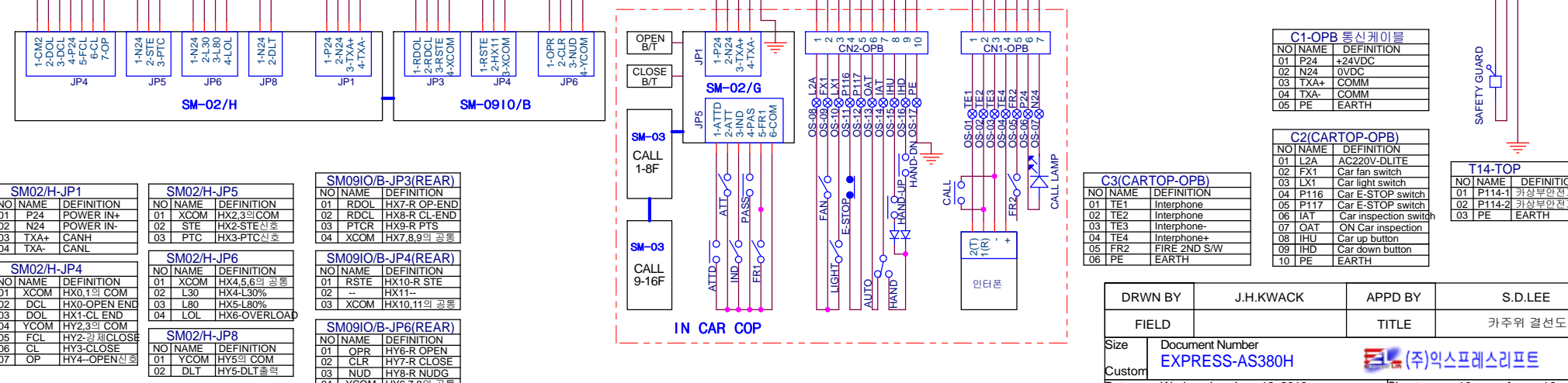
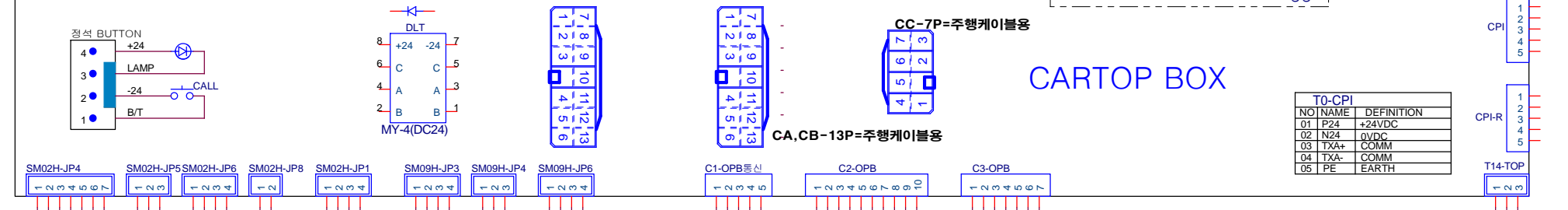
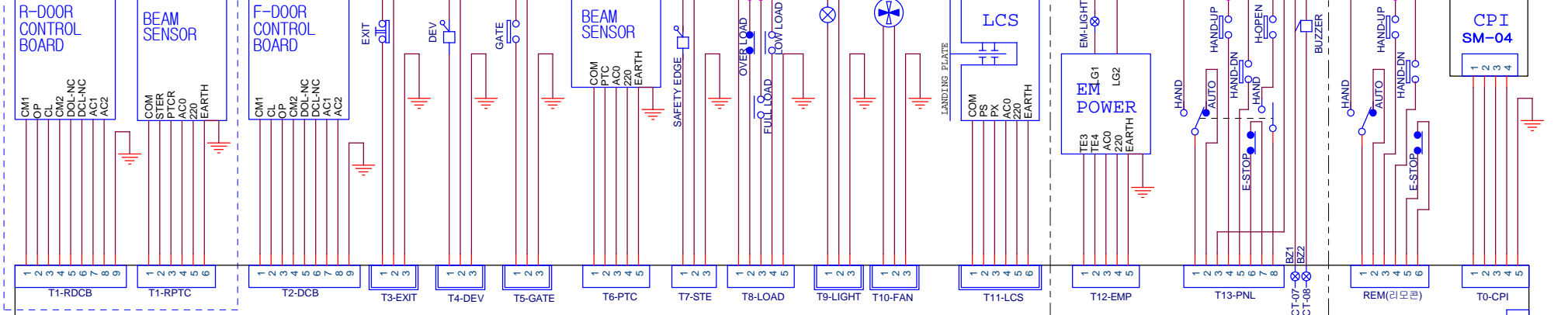
NO	NAME	DEFINITION
01	N24	0V(N24V)
02	OL	Overload switch
03	L22	Full load switch
04	L30	Light load switch
04	PE	EARTH

NO	NAME	DEFINITION
01	F22	AC220V
02	FX1	Car fan
03	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	OAT	AUTO ON CAR
02	OAT1	AUTO IN REMOCOON
03	OHU	INS-UP B/T
04	OHD	INS-DOWN B/T
05	P115	SAFETY REMOCOON
06	P115-1	SAFETY REMOCOON

## REAR DOOR 사용시 결선



NO	NAME	DEFINITION
01	P24	POWER IN+
02	N24	POWER IN-
03	TXA-	CANH
04	TXA-	CANL

NO	NAME	DEFINITION
01	XCOM	HX2.3의 COM
02	DCL	HX0-OPEN END
03	DOL	HX1-CL END
04	YCOM	HX2.3의 COM
05	FCL	HY2.3의 CLOSE
06	CL	HY3-CLOSE
07	OP	HY4-OPEN신호

NO	NAME	DEFINITION
01	RDOL	HX7-R OP-END
02	RDCL	HX8-R CL-END
03	PTCR	HX9-R PTS
04	XCOM	HX7,8,9의 공통

NO	NAME	DEFINITION
01	XCOM	HX4.5,6의 공통
02	L30	HX4-L30%
03	L80	HX5-L80%
04	LOL	HX6-OVERLOAD































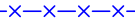

















NO	NAME	DEFINITION
01	RSTL	HX10-R STE
02	--	HX11--
03	XCOM	HX10,11의 공통

NO	NAME	DEFINITION
01	YCOM	HY5의 COM
02	DLT	HY5-DLT플럭

NO	NAME	DEFINITION
01	OPR	HY6-R OPEN
02	CLR	HY7-R CLOSE
03	NUD	HY8-R NUDG
04	YCOM	HY6,7,8의 공통

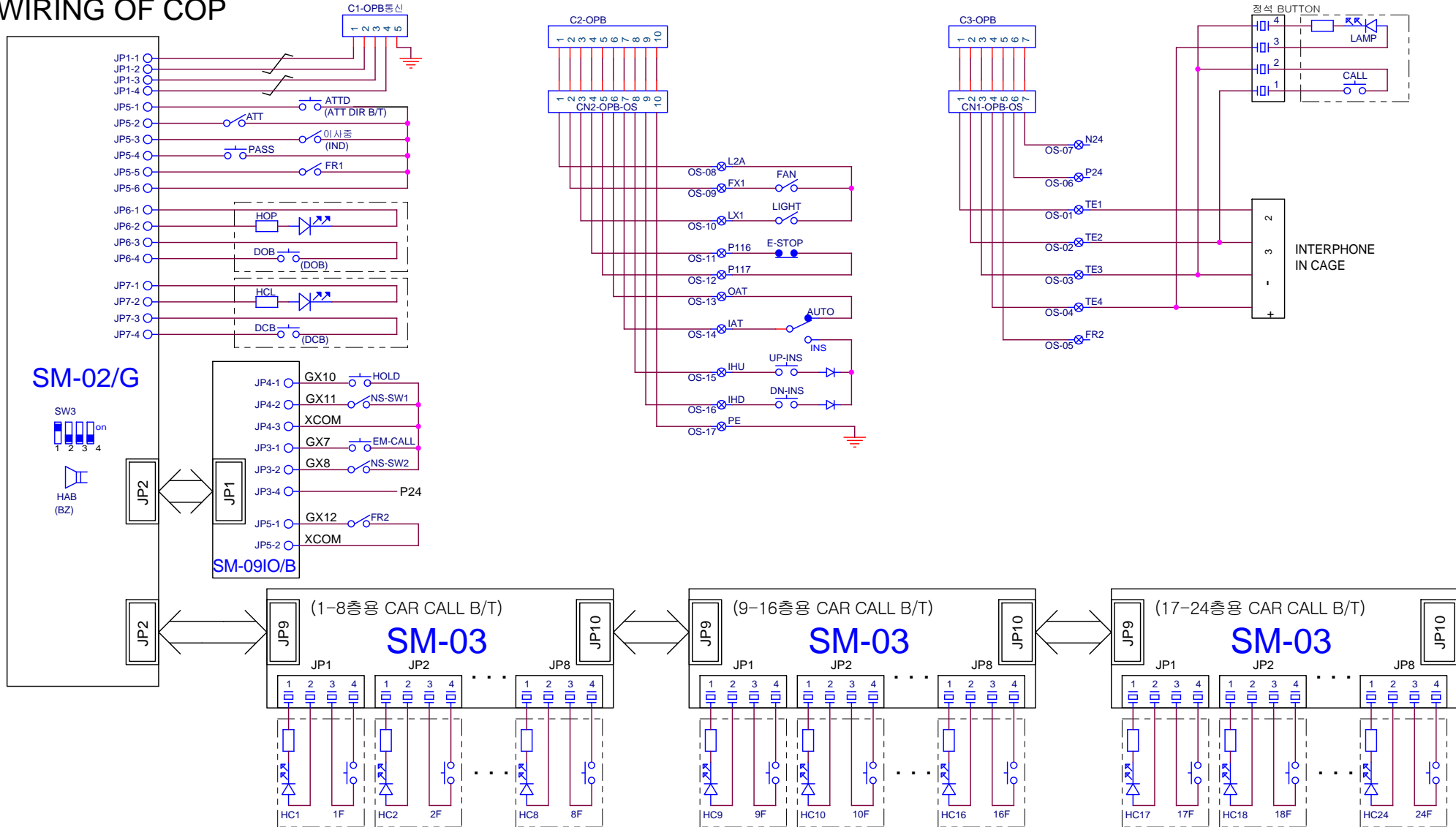
DRWN BY	J.H.KWACK	APPD BY	S.D.LEE
FIELD		TITLE	카주위 결선도
Size	Document Number	(주)익스프레스리프트	Rev
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# SYMBOL SPECIFIC

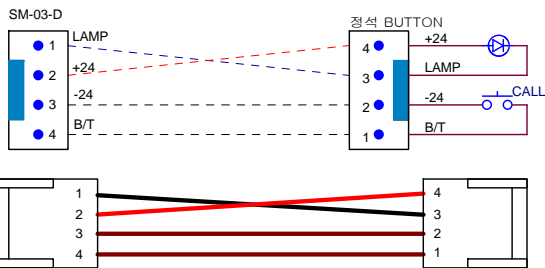
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WIRE IN CONTROL PANEL		JOINT POINT WIRE IN COTROL PANEL		WIRE IN HOISTWAY
	"A" CONTACT IN PCB		CONDENSER		JOINT POINT WIRE IN HOISTWAY
	"A" CONTACT MAGNETIC CONTACTOR		DIODE		TRANSFORMER
	"B" CONTACT MAGNETIC CONTACTOR		RESISTER		RESISTER IN PCB
	"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

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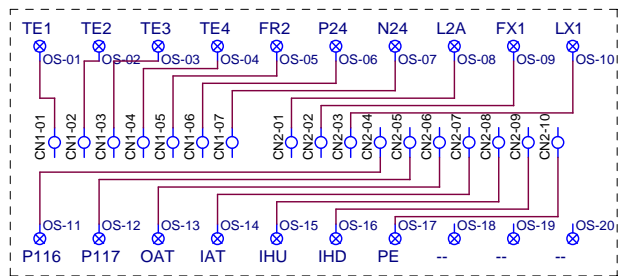
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정석BUTTON사용시 결선도



OPB-OS PCB SIZE=110X50



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POWER-CP1	
NO	NAME DEFINITION
01	XCOM X COMMON
02	X20 SAFETY LOOP
03	X21 CAR DOOR
04	X22 DOOR LOCK
05	XCOM X COMMON

POWER-CP4	
NO	NAME DEFINITION
01	N24 0VDC
02	TXA+ CAN0H
03	TXA- CAN0L

POWER-CP8	
NO	NAME DEFINITION
01	X0 AUTO INPUT
02	X1 AUTO INPUT
03	X2 INS-UP
04	X3 INS-DOWN
05	X4 SLU INPUT
06	X5 SLD INPUT
07	X6 UP LEVEL
08	X7 DOWN LEVEL

POWER-CP9	
NO	NAME DEFINITION
01	X13 DR-FREE OP
02	X14 DOOR ZONE
03	X15 FIRE RETURN
04	X16 EQ INPUT
05	X17 DOOR SW 확인
06	X18 SLUM INPUT
07	X19 SLDM INPUT

HA-7P	
NO	NAME DEFINITION
01	N24 Common
02	UL UP LIMIT
03	SLU Slow-down(up)
04	SLUM Slow-down(up1)
05	P112 Safety UOT
06	P113 Safety UOT
07	PE EARTH

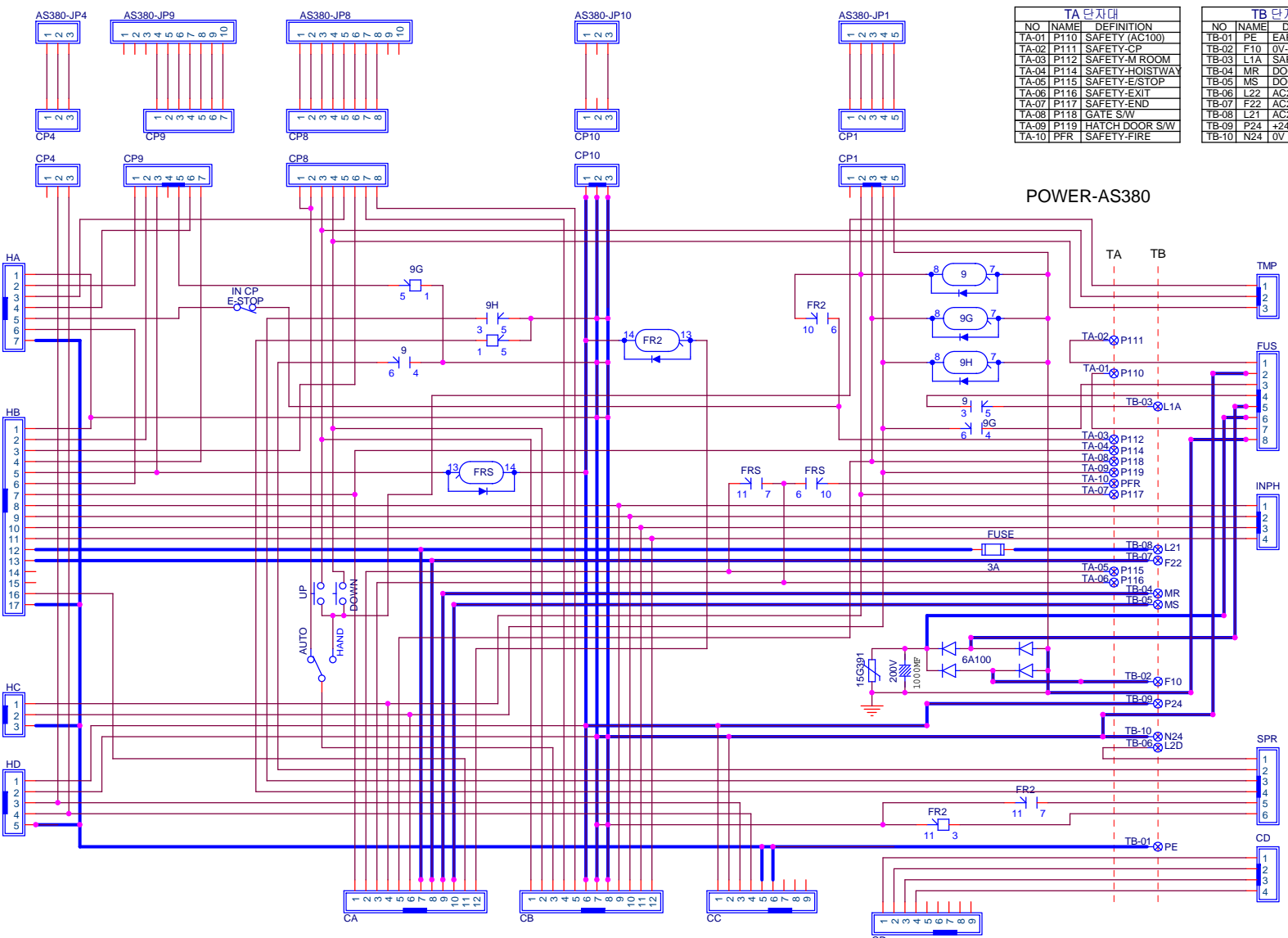
HB-16C	
NO	NAME DEFINITION
01	N24 Common
02	DL DOWN LIMIT
03	SLD Slow-down(dn)
04	SLDM Slow-down(dn1)
05	FRS FIRE RETURN
06	P113 Safety DOT
07	P114 Safety PIT
08	TE1 INTERPHONE
09	TE2 INTERPHONE
10	TE3 INTERPHONE
11	TE4 INTERPHONE
12	L22 AC220V
13	F22 AC220V
14	
15	
16	LTC LIGHT IN PIT
17	PE EARTH

HC-3C(0.75)	
NO	NAME DEFINITION
01	P117 H DOOR-LOCK
02	P119 H DOOR-LOCK
03	PE EARTH

HD-4C(0.75TW)	
NO	NAME DEFINITION
01	P24 +24VDC
02	N24 0VDC
03	TXA+ COMM
04	TXA- COMM
05	PE EARTH



TA 단자대			TB 단자대		
NO	NAME	DEFINITION	NO	NAME	DEFINITION
TA-01	P110	SAFETY (AC100)	TB-01	PE	EARTH
TA-02	P111	SAFETY-CP	TB-02	F10	0V-AC110V
TA-03	P112	SAFETY-M ROOM	TB-03	L1A	SAFETY AC110V
TA-04	P114	SAFETY-HOISTWAY	TB-04	MR	DOOR POWER
TA-05	P115	SAFETY-E/STOP	TB-05	MS	DOOR POWER
TA-06	P116	SAFETY-EXIT	TB-06	L22	AC220V
TA-07	P117	SAFETY-END	TB-07	F22	AC220V
TA-08	P118	GATE SW	TB-08	L21	AC220V
TA-09	P119	HATCH DOOR SW	TB-09	P24	+24DCV POWER
TA-10	PPR	SAFETY-FIRE	TB-10	N24	0V DC24

AS380-JP1	
NO	NAME DEFINITION
01	XCOM X COMMON
02	X20 SAFETY LOOP
03	X21 CAR DOOR
04	X22 DOOR LOCK
05	XCOM X COMMON

AS380-JP2	
NO	NAME DEFINITION
01	Y0 BK OUTPUT
02	Y1 BY OUTPUT
03	Y2 MY OUTPUT
04	COM1 Y COMMON

AS380-JP3	
NO	NAME DEFINITION
01	Y3 DR-FREE OP
02	Y4 EM-LEVEL
03	COM2 Y COMMON
04	Y5 FIRE OUT
05	COM3 Y5 COMMON
06	Y6 --
07	COM4 --

AS380-JP4	
NO	NAME DEFINITION
01	N24 0VDC
02	TXA+ CAN0H
03	TXA- CAN0L

AS380-JP5	
NO	NAME DEFINITION
01	N24 0VDC
02	TXA2+ CAN2H
03	TXA2- CAN2L

AS380-JP6	
NO	NAME DEFINITION
01	N24 0VDC
02	TXA2+ CAN2H
03	TXA2- CAN2L

AS380-JP7	
NO	NAME DEFINITION
01	GSVIO 5V의 0V
02	+5VIO +5V DC
03	
04	G24VIO 24V의 0V
05	+24VIO +24V DC

AS380-JP8	
NO	NAME DEFINITION
01	X0 AUTO INPUT
02	X1 AUTO INPUT
03	X2 INS-UP
04	X3 INS-DOWN
05	X4 SLU INPUT
06	X5 SLD INPUT
07	X6 UP LEVEL
08	X7 DOWN LEVEL
09	X8 MY CHECK
10	X9 BK CHECK

AS380-JP9	
NO	NAME DEFINITION
01	X10 BK스위치 확인
02	X11 BK스위치 확인
03	X12 MTH스위치 확인
04	X13 DR-FREE OP
05	X14 DOOR ZONE
06	X15 FIRE RETURN
07	X16 EQ INPUT
08	X17 DOOR SW 확인
09	X18 SLUM INPUT
10	X19 SLDM INPUT

AS380-JP10	
NO	NAME DEFINITION
01	P24 +24V DC
02	VSIO 0V
03	N24 0V DC24V

AS380-JP11	
NO	NAME DEFINITION
01	G 0VDC
02	AN- ANALOG IN+
03	AN+ ANALOG IN+

PCB 크기=220x160  
PCB 크기=230x160

CA-12P	
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	P119 H-Door s/w
CA-07	L22 AC220V
CA-08	F22 AC220V
CA-09	MR Door Power
CA-10	MS Door Power
CA-11	LTC LIGHT IN PIT
CA-12	FR2 2ND FIRE SW

CB-12P	
NO	SIGNAL DEFINITION
CB-01	IHU INS-UP B/T
CB-02	IHD INS-DOWN B/T
CB-03	IAT AUTO-In car
CB-04	LU LCS-Level Up
CB-05	LD LCS-Level Down
CB-06	P24 +24VDC
CB-07	N24 0V
CB-08	N24 0V(N24)
CB-09	TE1 INTERPHONE
CB-10	TE2 INTERPHONE
CB-11	TE3 INTERPHONE
CB-12	TE4 INTERPHONE

CC-9P	
NO	SIGNAL DEFINITION
CC-01	P24 +24VDC
CC-02	N24 0VDC
CC-03	TXA+ COMM
CC-04	TXA- COMM
CC-05	PE EARTH
CC-06	PE EARTH
CC-07	
CC-08	
CC-09	

CD-9P	
NO	SIGNAL DEFINITION
CD-01	BGM 구내방송회로1
CD-02	BGM 구내방송회로2
CD-03	BZ1 BUZZER1
CD-04	BZ2 BUZZER2
CD-05	
CD-06	
CD-07	
CD-08	
CD-09	

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	CM1	CM1
02	CL	Door close signal
03	OP	Door open signal
04	CM2	CM2
05	DOL	Door open limit
06	DCL	Door close limit
07	MR	Door Motor Power
08	MMS	Door Motor Power
09	PE	EARTH

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

NO	NAME	DEFINITION
01	P114	SAFETY DEVICE
02	P114-1	SAFETY DEVICE
03	PE	EARTH

NO	NAME	DEFINITION
01	N24	0V(N24V)
02	P119	핸도어 스위치
03	PE	EARTH

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

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

NO	NAME	DEFINITION
01	N24	0V(N24V)
02	LU	Up find leveling switch
03	LD	Down find leveling switch
04	L22	AC220V
05	F22	AC220V
06	PE	EARTH

NO	NAME	DEFINITION
01	N24	0V(N24V)
02	TE3	EM-POWER 12V
03	L22	AC220V
04	F22	AC220V
05	PE	EARTH

NO	NAME	DEFINITION
01	N24	0V(N24V)
02	TE4	EM-POWER 12V
03	L22	AC220V
04	F22	AC220V
05	PE	EARTH

NO	NAME	DEFINITION
01	N24	0V(N24V)
02	OAT	AUTO ON CAR
03	OPN	DOOR OPEN INS
04	OHU	INS-UP B/T
05	OHD	INS-DOWN B/T
06	P114-1	SAFETY ON CAR
07	P115	SAFETY ON CAR
08	P24	+24V

NO	NAME	DEFINITION
01	N24	0V(N24V)
02	OAT	AUTO ON CAR
03	OPN	DOOR OPEN INS
04	OHU	INS-UP B/T
05	OHD	INS-DOWN B/T
06	P114-1	SAFETY ON CAR
07	P115	SAFETY ON CAR
08	P24	+24V

NO	NAME	DEFINITION
01	N24	0V(N24V)
02	OAT	AUTO ON CAR
03	OPN	DOOR OPEN INS
04	OHD	INS-DOWN B/T
05	P115	SAFETY REMOCON
06	P115-1	SAFETY REMOCON

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

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	P119	H-Door s/w
CA-07	L22	AC220V
CA-08	F22	AC220V
CA-09	MR	Door Power
CA-10	MS	Door Power
CA-11	LTC	LIGHT IN PIT
CA-12	FR2	2ND FIRE SW

NO	SIGNAL	DEFINITION
CB-01	IHU	INS-UP B/T
CB-02	IHD	INS-DOWN B/T
CB-03	IAT	AUTO-In car
CB-04	LU	LCS-Level Up
CB-05	LD	LCS-Level Down
CB-06	P24	P24
CB-07	N24	0V(N24V)
CB-08	N24	N24
CB-09	TE1	INTERPHONE
CB-10	TE2	INTERPHONE
CB-11	TE3	INTERPHONE
CB-12	TE4	INTERPHONE

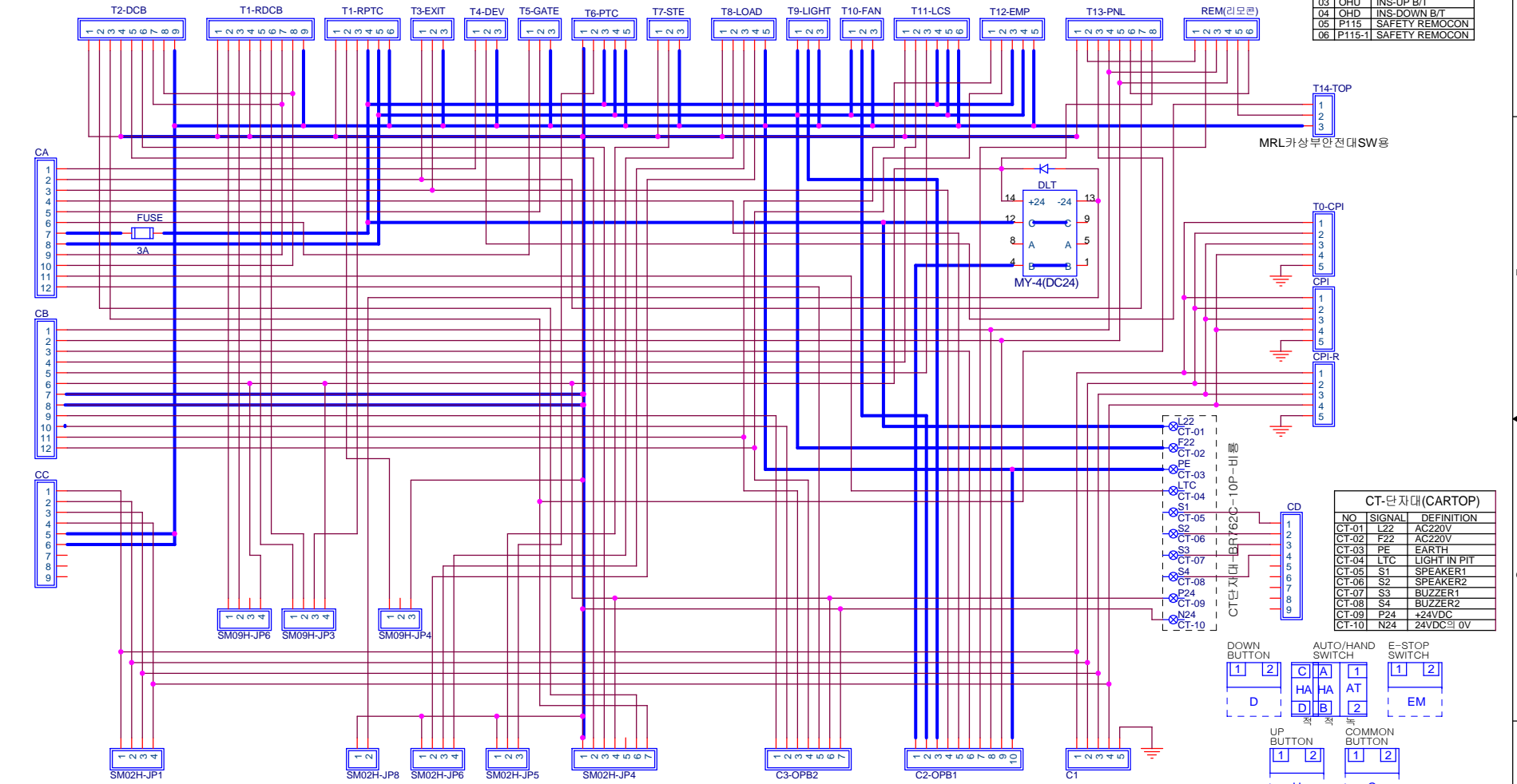
NO	SIGNAL	DEFINITION
CC-01	P24	+24VDC
CC-02	N24	0VDC
CC-03	TXA+	COMM
CC-04	TXA-	COMM
CC-05	PE	EARTH
CC-06	PE	EARTH
CC-07		
CC-08		
CC-09		

NO	SIGNAL	DEFINITION
CD-01	BCM	구내방송회로1
CD-02	RCM	구내방송회로2
CD-03	BZ1	BUZZER1
CD-04	BZ2	BUZZER2
CD-05		
CD-06		
CD-07		
CD-08		
CD-09		

NO	NAME	DEFINITION
01	RDOL	HX7-R OP-END
02	RDCL	HX8-R CL-END
03	PTCR	HX9-R PTS
04	P24	HX7,8,9의 P24

NO	NAME	DEFINITION
01	STER	HX10-R STE
02	--	HX11--
03	XC	HX10,11의 공통

NO	NAME	DEFINITION
01	OPR	HY6-R OPEN
02	CLR	HY7-R CLOSE
03	NUD	HY8-R NUDG
04	YCOM	HY6,7,8의 공통



NO	NAME	DEFINITION
01	RDOL	HX7-R OP-END
02	RDCL	HX8-R CL-END
03	PTCR	HX9-R PTS
04	P24	HX7,8,9의 P24

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02	--	HX11--
03	XC	HX10,11의 공통

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02	CLR	HY7-R CLOSE
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03	PTCR	HX9-R PTS
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02	--	HX11--
03	XC	HX10,11의 공통

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