

EXPRESS-AS380 전기도면

기 종 : EXPRESS-AS380(MRL-V09)표준도면

발 주 처 :

EXPRESS LIFT Co.,LTD

13	NAME	부품 약어 및 적용표	
12	LOCATION	SIGNAL & CONTACT LOCATION	
11	SYMBOL	SYMBOL SPECIFIC	
10	COL.J	카주위 및 운전반 결선도	CARTOP-EN
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	AS.T029
2	COL.B	POWER & SAFETY CIRCUIT	POWER-AS380
1	COL.A	TRACTION CIRCUIT	INVERTER
NO	COL.NO	DESCRIPTION	NOTE
Size	Document Number		Rev
Custom	EXPRESS-AS380-MRL		V09
Date:	Tuesday, December 12, 2017		Sheet of

COL.A

NO	NAME	DEFINITION
PM	R1	ARD OUTPUT-R
PM	S1	ARD OUTPUT-S
PM	T1	ARD OUTPUT-T
PM	N1	ARD OUTPUT-N
PM	U	MOTOR-U
PM	V	MOTOR-V
PM	W	MOTOR-W

Kw	Spec(MY)
5.5	MC-22
7.5	MC-32
9.5/11	MC-32
13/15	MC-50
18.5	MC-50
22	MC-65
30	MC-75

Kw	Spec(NFB1)
5.5/7.5	ABN54-30A
9.5/11	ABN54-40A
13/15	ABN54-50A
18.5	ABN54-60A
22	ABN54-60A
30	ABN103-100A

Kw	Spec(CABLE)
5.5/7.5	6SQ
9.5/11	10SQ
13/15	10SQ
18.5/22	16SQ
30	25SQ

Kw	Spec(N.F)
5.5/7.5	FT310-15
9.5/11	FT310-25
13/15	FT310-30
18.5	FT310-40
22	FT310-60
30	FT310-80

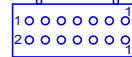
제동저항

INVERTER

UFC
AS380

Kw	Current
5.5	13A
7.5	18A
11	27A
15	34A
18.5	41A
22	48A
30	65A

엔코더기판에 콘넥터를 꽂은상태에서의 PIN번호



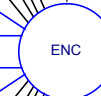
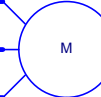
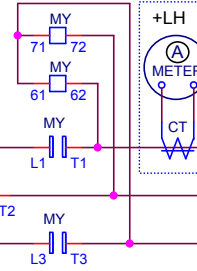
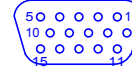
AS.T024-JP2(엔코더 기판측)

PIN No	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14
SIGNAL	--	--	R-	R+	B-	B+	A-	A+	D-	D+	C-	C+	0V	5V
COLOR	--	--	적색	적/백	등색	등/흑	황색	황/흑	녹색	녹/흑	청색	청/흑	흑색	흑/백

SIGNAL	--	--	R-	R+	B-	B+	A-	A+	D-	D+	C-	C+	0V	5V
PIN No	--	--	P4	P3	P1	P8	P6	P5	P13	P12	P10	P11	P7	P9

ERN-1387(HEIDENHAIN 엔코더 측)

엔코더기판쪽 콘넥터를 바라볼때(구멍만보임)



ENC TYPE:HEIDENHAIN
ERN-1387(2048PPR)

FROM
B/D
POWER

TO COL.C

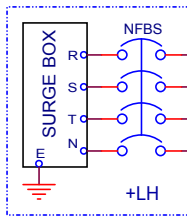
TO COL.B

FROM
B/D
POWER

코일박스

코일박스

FAULT신호
ARD 내부 J2에
1.2번 사용시
B접합됩니다



DRWN BY	J.H.KWACK	APPD BY	E.K.JANG
FIELD		TITLE	TRACTION CIRCUIT
Size	Document Number		
Custom	EXPRESS-AS380-MRL		
Date:	Wednesday, January 31, 2018	Sheet	1 of 10
			Rev V09

COL.A+OPTION

PM	NAME	DEFINITION
PM	AR	ARD OUTPUT-R
PM	AS	ARD OUTPUT-S
PM	AT	ARD OUTPUT-T
PM	N1	ARD OUTPUT-N
PM	U	MOTOR-U
PM	V	MOTOR-V
PM	W	MOTOR-W

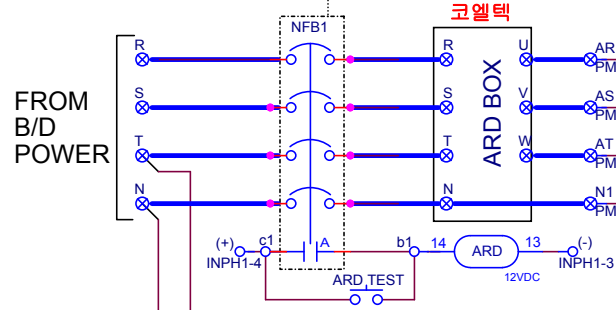
Kw	Spec(NFB1)
5.5/7.5	ABN54-30A
9.5/11	ABN54-40A
13/15	ABN54-50A
18.5	ABN54-60A
22	ABN54-60A
30	ABN103-100A

Kw	Spec(N.F)
5.5/7.5	FT310-15
9.5/11	FT310-25
13/15	FT310-30
18.5	FT310-40
22	FT310-60
30	FT310-80

Kw	Spec(CABLE)
5.5/7.5	6SQ
9.5/11	10SQ
13/15	10SQ
18.5/22	16SQ
30	25SQ

Kw	Spec(MY)
5.5	MC-22
7.5	MC-32
9.5/11	MC-32
13/15	MC-50
18.5	MC-50
22	MC-65
30	MC-75

FROM
B/D
POWER



코일렉

코일렉

TO COL.C

TO COL.B

FROM
B/D
POWER

ENERGY
FEEDBACK UNIT

제동저항

INVERTER

UFC
AS380

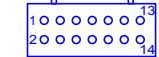
Kw	Current
5.5	13A
7.5	18A
11	27A
15	34A
18.5	41A
22	48A
30	65A

AS.T024

ENC

ENC TYPE:HEIDENHAIN
ERN-1387(2048PPR)

엔코더기판에 콘넥터를 꽂은상태에서의 PIN번호

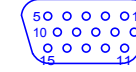


AS.T024-JP2(엔코더 기판측)

PIN No	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
SIGNAL	--	--	R-	R+	B-	B+	A-	A+	D-	D+	C-	C+	0V	5V	GND
COLOR	--	--	R-	R+	B-	B+	A-	A+	D-	D+	C-	C+	0V	5V	--
PIN No	--	--	P4	P3	P1	P8	P6	P5	P13	P12	P10	P11	P7	P9	--

ERN-1387(HEIDENHAIN 엔코더 측)

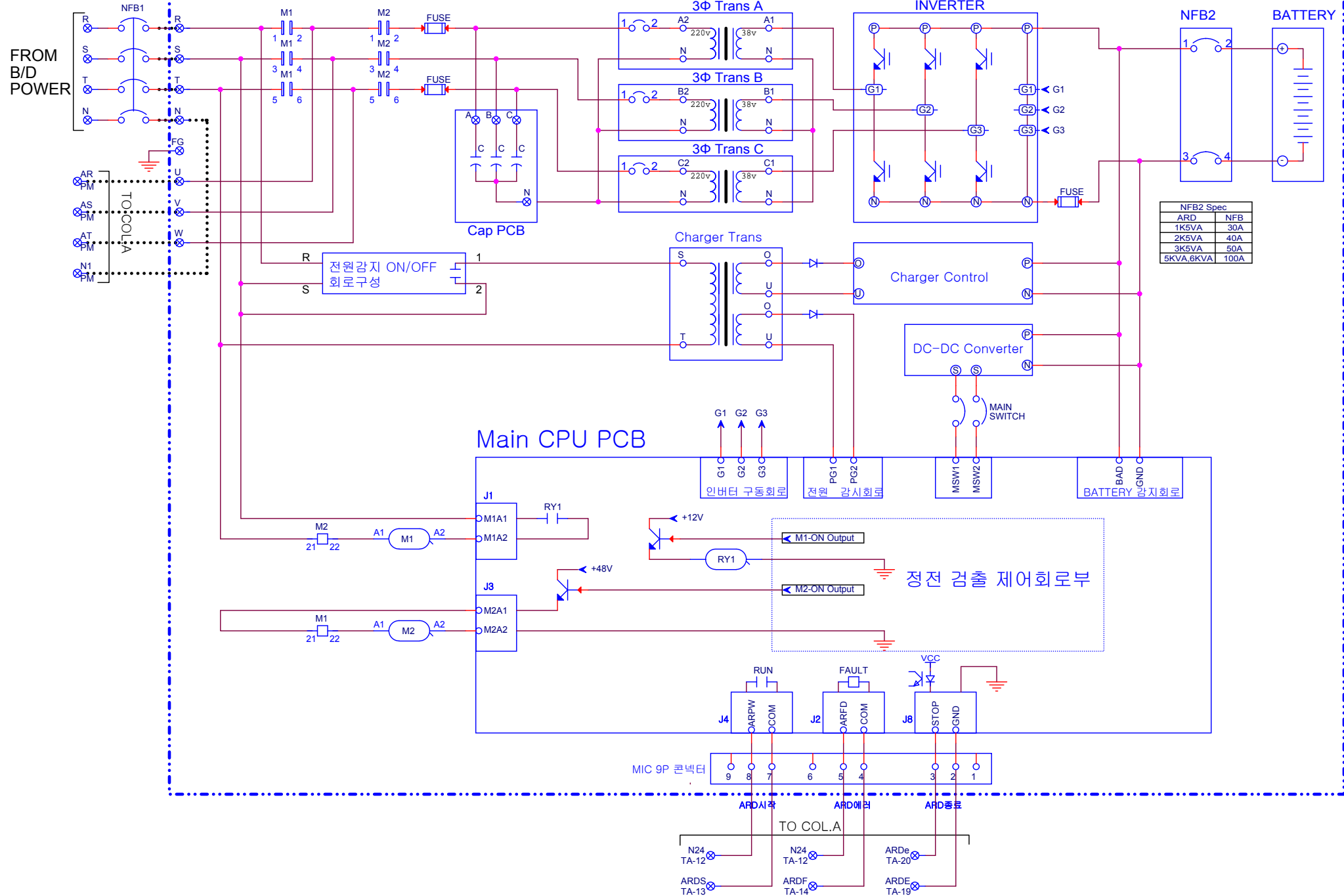
엔코더기판쪽 콘넥터를 바라볼때(구멍만보임)



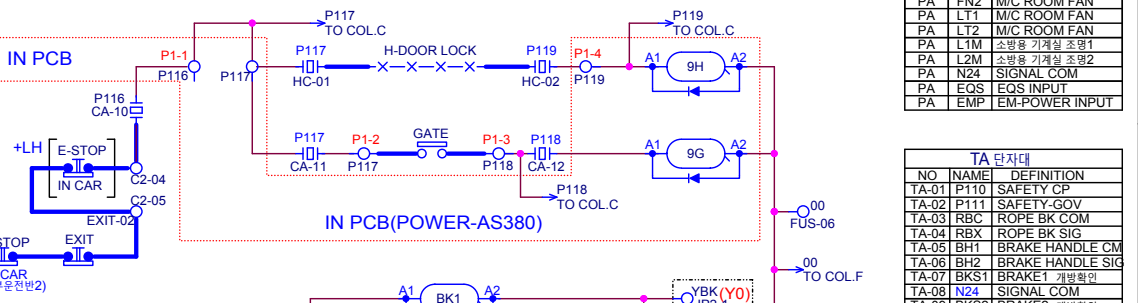
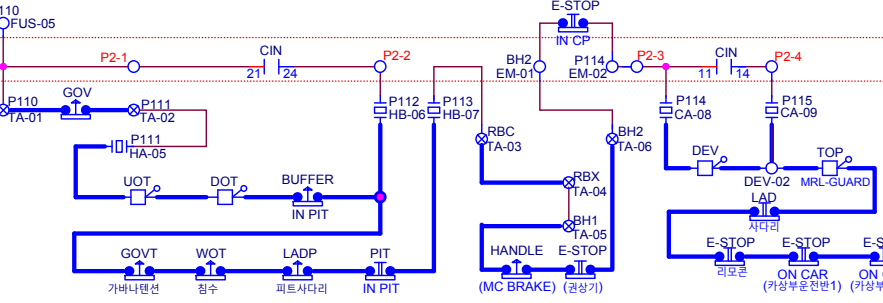
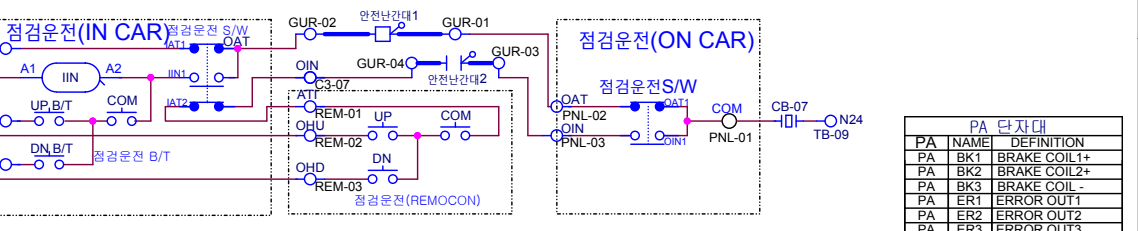
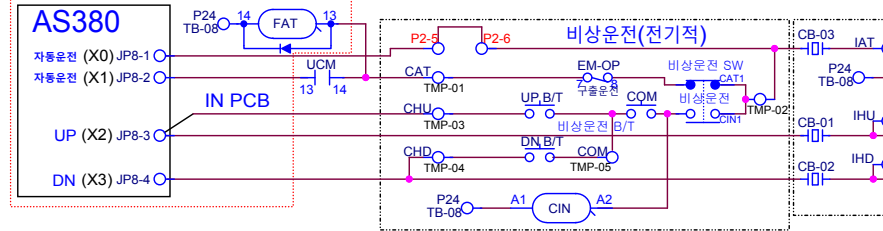
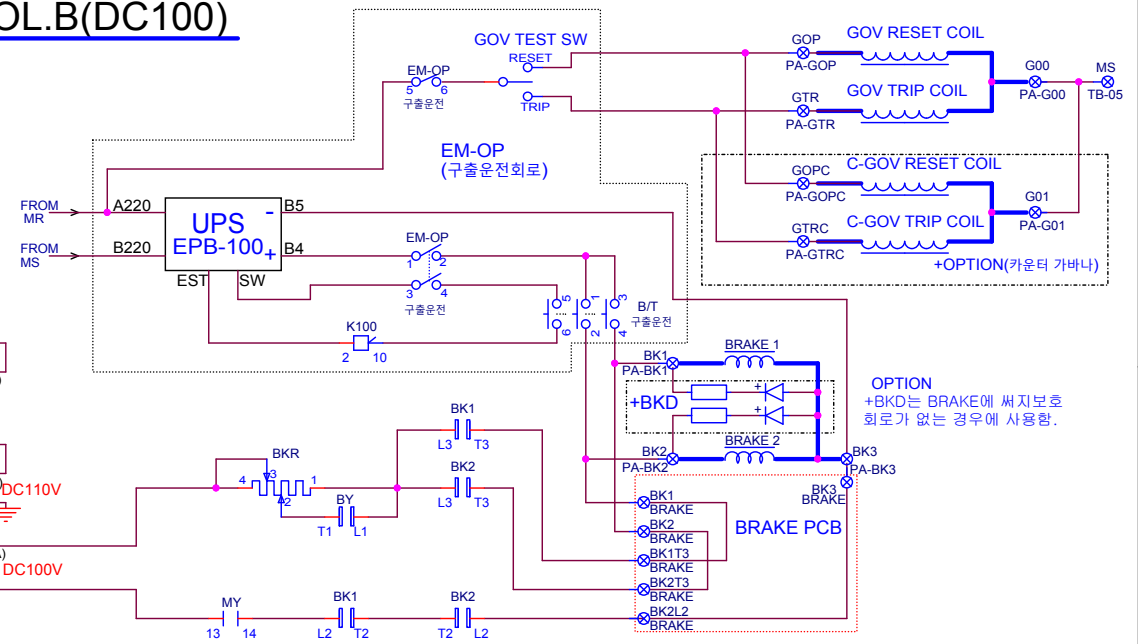
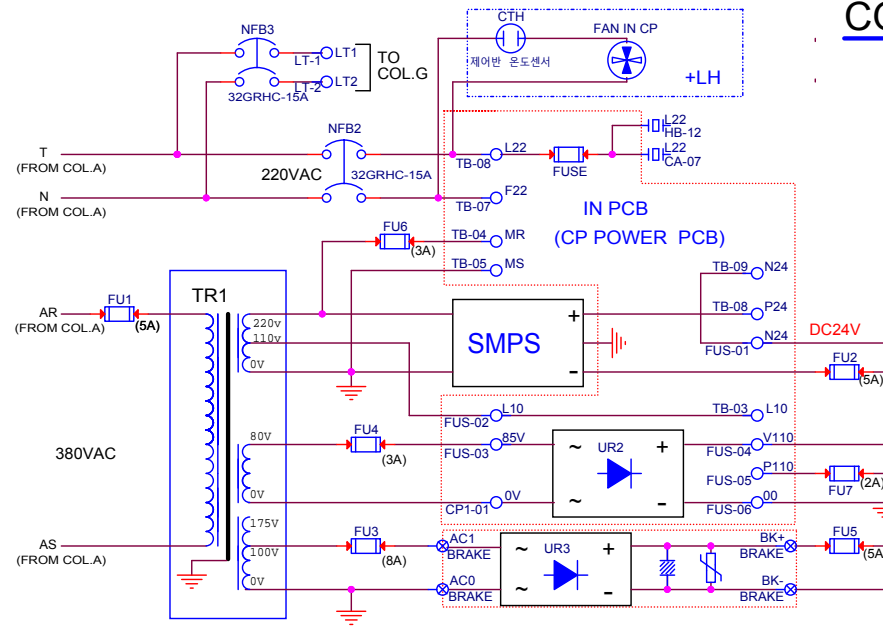
DRWN BY	J.H.KWACK	APPD BY	E.K.JANG
FIELD		TITLE	TRACTION CIRCUIT
Size	Document Number		Rev
Custom	EXPRESS-AS380-MRL	(주)익스프레스리프트	V09
Date:	Wednesday, January 31, 2018	Sheet	1 of 10

COL.A(ARD)

ARD SYSTEM



COL.B(DC100)

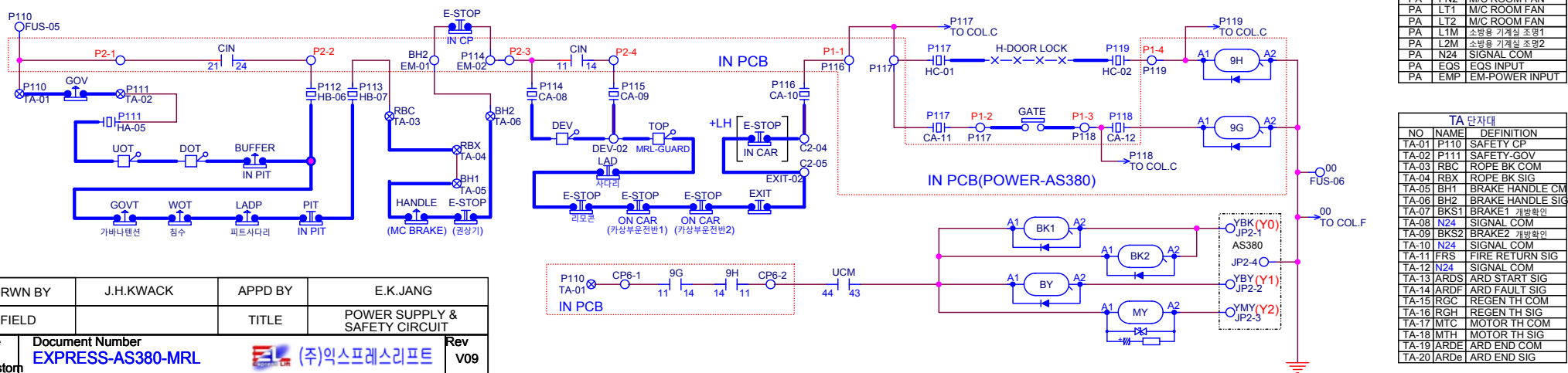
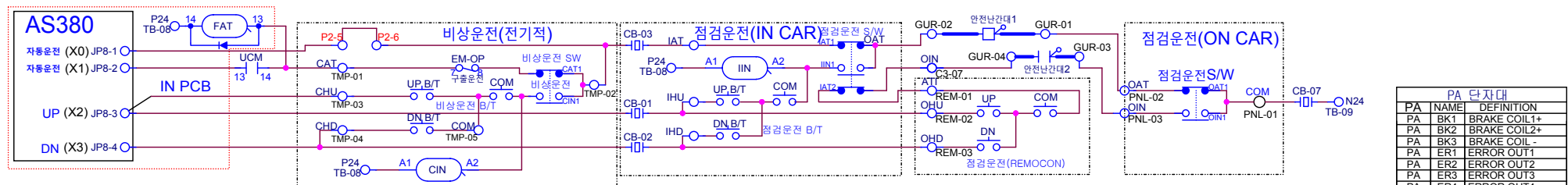
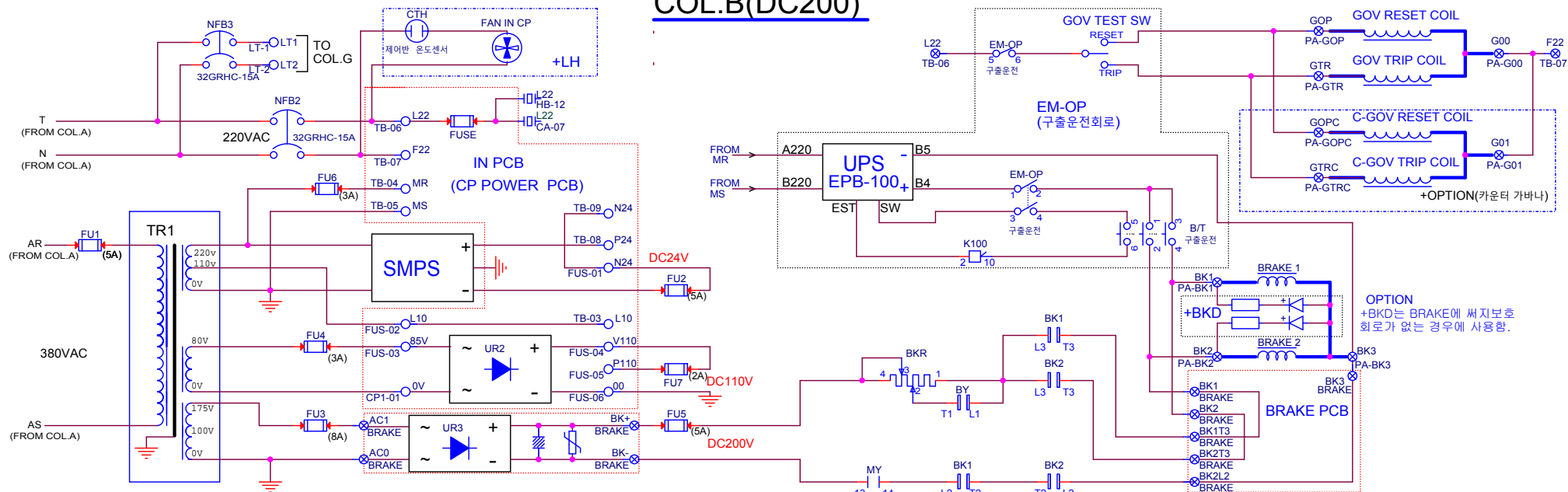


PA	NAME	DEFINITION
PA	BK1	BRAKE COIL1+
PA	BK2	BRAKE COIL2+
PA	BK3	BRAKE COIL-
PA	ER1	ERROR OUT1
PA	ER2	ERROR OUT2
PA	ER3	ERROR OUT3
PA	ER4	ERROR OUT4
PA	전원	전원표시출력(감시반)
PA	전원	전원표시출력(감시반)
PA	FN1	M/C ROOM FAN
PA	FN2	M/C ROOM FAN
PA	LT1	M/C ROOM FAN
PA	LT2	M/C ROOM FAN
PA	LTM	소방용 기계실 조명1
PA	L2M	소방용 기계실 조명2
PA	N24	SIGNAL COM
PA	EOS	EOS INPUT
PA	EMP	EM-POWER INPUT

NO	NAME	DEFINITION
TA-01	P110	SAFETY CP
TA-02	P111	SAFETY-GOV
TA-03	RBC	ROPE BK COM
TA-04	RBX	ROPE BK SIG
TA-05	BH1	BRAKE HANDLE CM
TA-06	BH2	BRAKE HANDLE SIG
TA-07	BK1	BRAKE1 개방확인
TA-08	N24	SIGNAL COM
TA-09	BK2	BRAKE2 개방확인
TA-10	N24	SIGNAL COM
TA-11	FRS	FIRE RETURN SIG
TA-12	N24	SIGNAL COM
TA-13	ARDS	ARD START SIG
TA-14	ARDF	ARD FAULT SIG
TA-15	RGC	REGEN TH COM
TA-16	RGH	REGEN TH SIG
TA-17	MTC	MOTOR TH COM
TA-18	MTH	MOTOR TH SIG
TA-19	ARDE	ARD END COM
TA-20	ARDe	ARD END SIG

DRWN BY	J.H.KWACK	APPD BY	E.K.JANG
FIELD		TITLE	POWER SUPPLY & SAFETY CIRCUIT
Size	Document Number		Rev
Custom	EXPRESS-AS380-MRL		V09
Date:	Sunday, April 01, 2018	Sheet	2 of 10

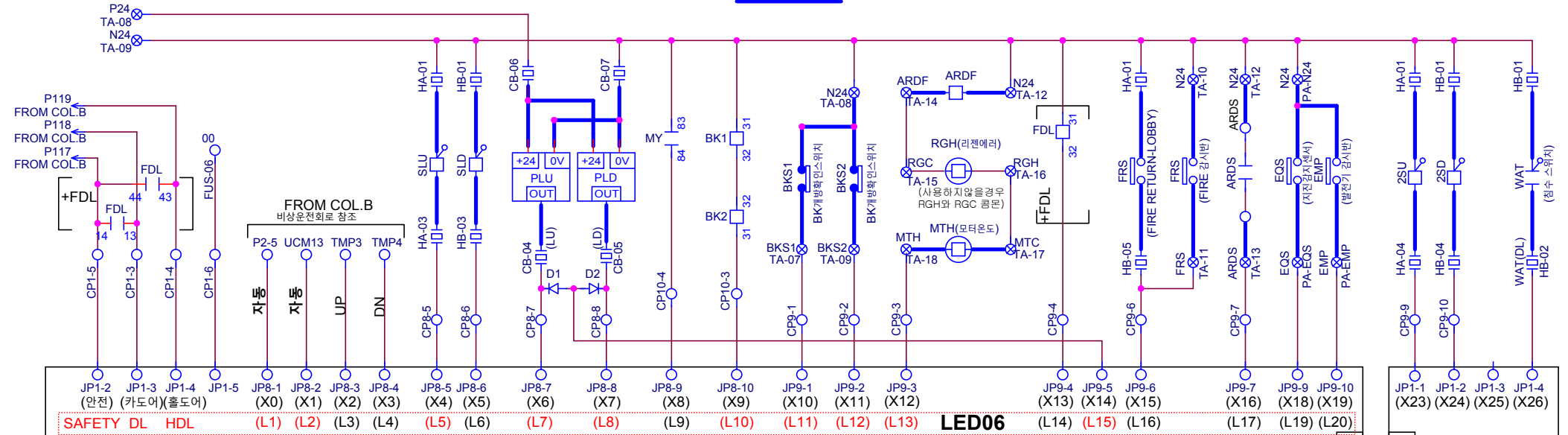
COL.B(DC200)



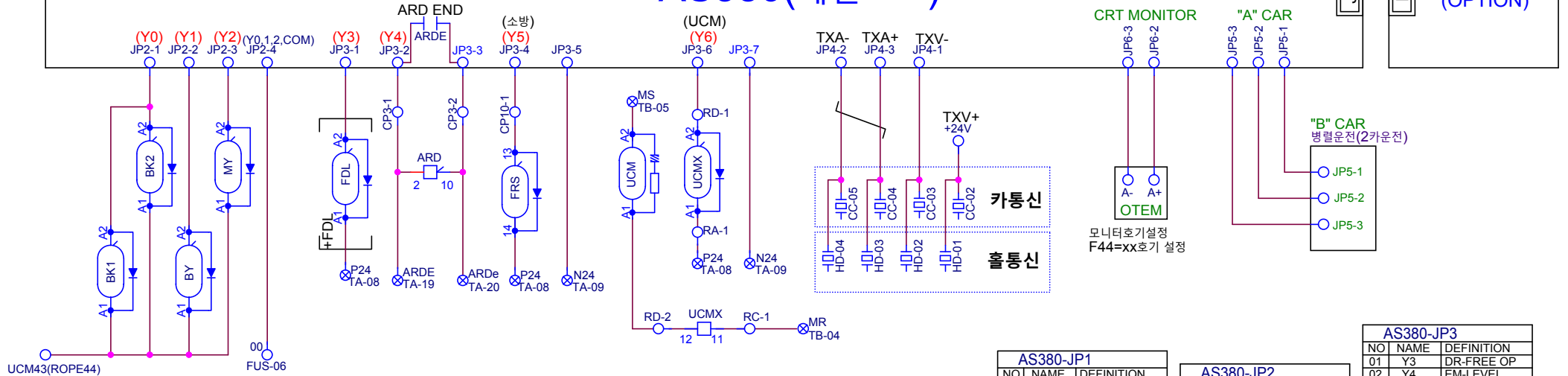
PA 단자대		
PA	NAME	DEFINITION
PA	BK1	BRAKE COIL1+
PA	BK2	BRAKE COIL2+
PA	BK3	BRAKE COIL-
PA	ER1	ERROR OUT1
PA	ER2	ERROR OUT2
PA	ER3	ERROR OUT3
PA	ER4	ERROR OUT4
PA	전동	전동열수출호출(간시판)
PA	전열	전열열수출호출(간시판)
PA	FN1	M/C ROOM FAN
PA	FN2	M/C ROOM FAN
PA	LT1	M/C ROOM FAN
PA	LT2	M/C ROOM FAN
PA	L1M	소방용 기계실 조명
PA	L2M	소방용 기계실 조명2
PA	N24	SIGNAL COM
PA	EOS	EQS INPUT
PA	EMP	EM-POWER INPUT

TA 단자대		
NO	NAME	DEFINITION
TA-01	P110	SAFETY CP
TA-02	P111	SAFETY-GOV
TA-03	RBC	ROPE BK COM
TA-04	RBX	ROPE BK SIG
TA-05	BH1	BRAKE HANDLE CM
TA-06	BH2	BRAKE HANDLE SIG
TA-07	BKS1	브레이크 감속원인
TA-08	BKS2	브레이크 감속원인
TA-09	BKS3	브레이크 감속원인
TA-10	N24	SIGNAL COM
TA-11	FRS	FREE RETURN SIG
TA-12	N24	SIGNAL COM
TA-13	ARDS	ARD START SIG
TA-14	ARDF	ARD FAULT SIG
TA-15	RGH	REGEN TH COM
TA-16	RGH	REGEN TH SIG
TA-17	MTM	MOTOR TH COM
TA-18	MTM	MOTOR TH SIG
TA-19	ARde	ARD END COM
TA-20	ARde	ARD END SIG

COL.C



AS380(메인보드)



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

AS380-JP5		
NO	NAME	DEFINITION
01	N24	0VDC
02	TXA1+	CAN1H
03	TXA1-	CAN1L

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	BK확인스위치1
02	X11	BK확인스위치2
03	X12	MTH스위치확인
04	X13	DR-FREE OP
05	X14	DOOR ZONE
06	X15	FIRE RETURN
07	X16	EQ INPUT
08	X17	DOOR SW확인
09	X18	SLUM INPUT
10	X19	SDIM INPUT

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

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

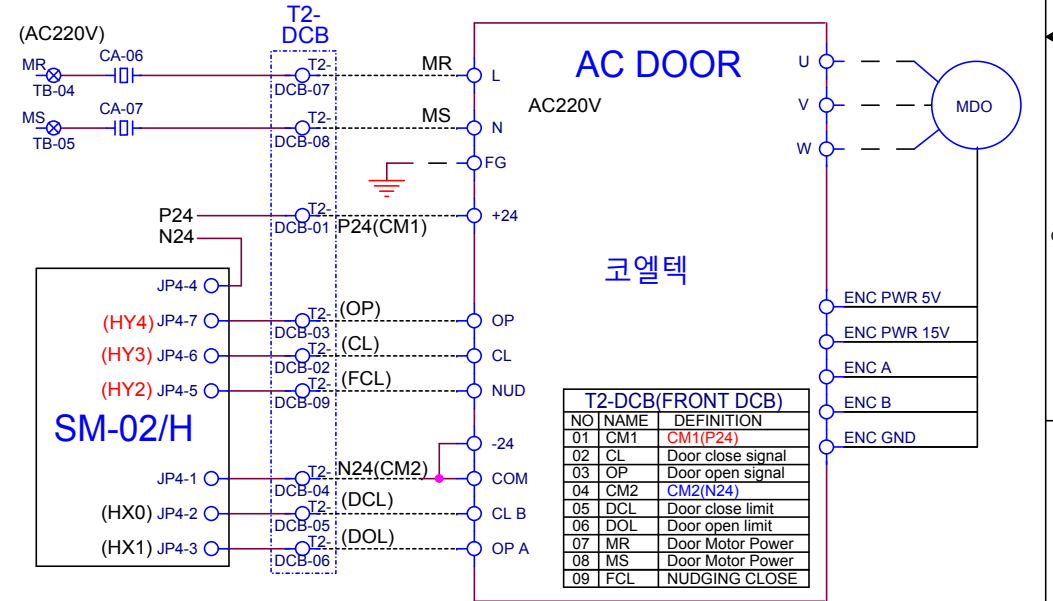
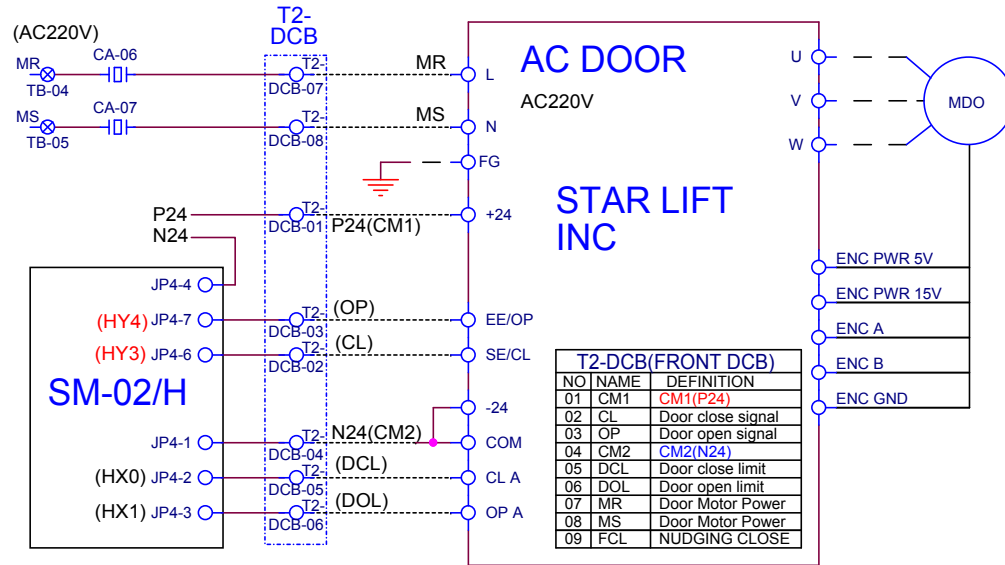
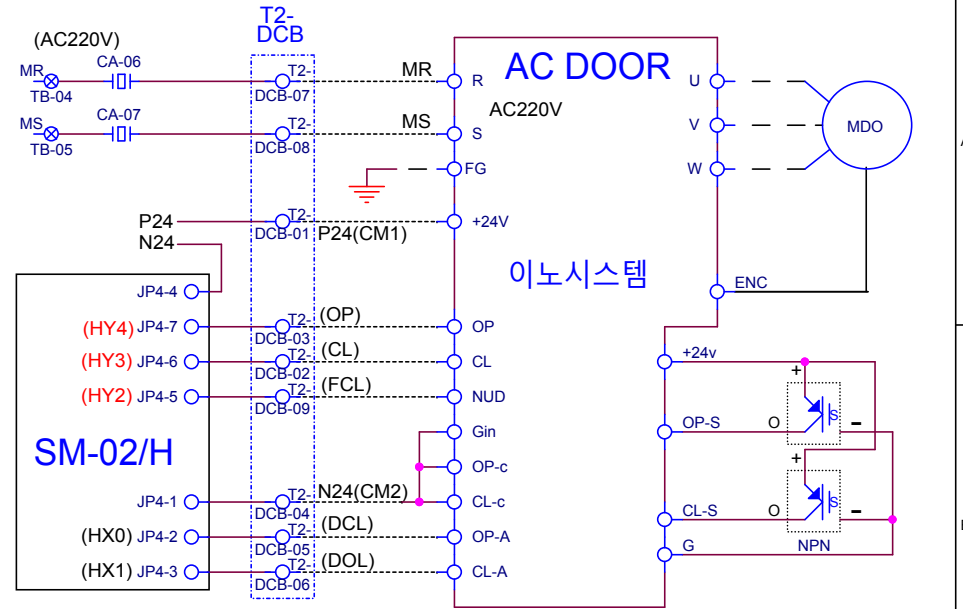
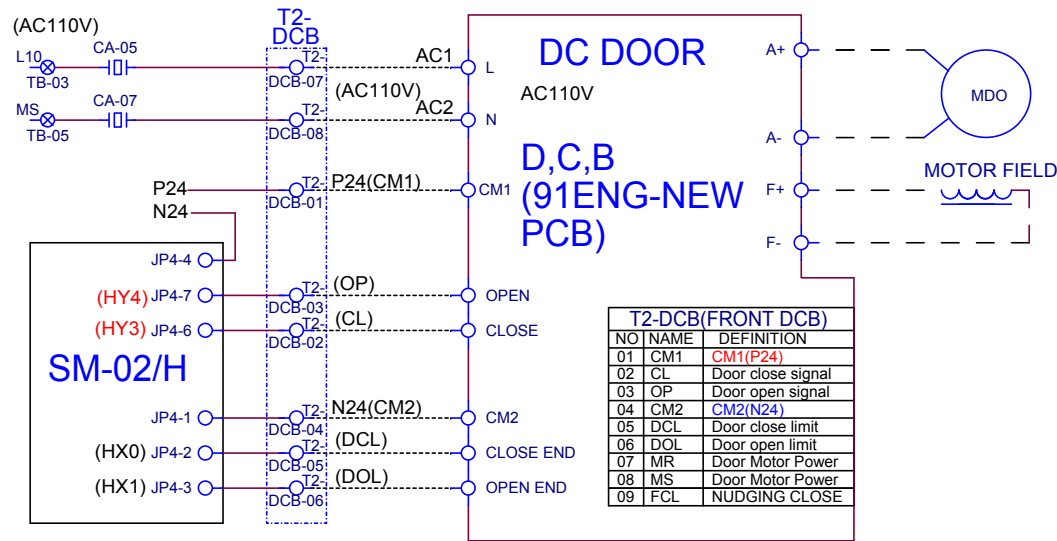
AS380-JP1		
NO	NAME	DEFINITION
01	XCOM	X COMMON
02	X20	SAFETY LOOP
03	X21	CAR DOOR
04	X22	DOOR LOCK
05	XCOM	DC110V의 0V

AS380-JP2		
NO	NAME	DEFINITION
01	Y0	BK OUTPUT
02	Y1	BY OUTPUT
03	Y2	MY OUTPUT
04	COM1	DC110V의 0V

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

DRWN BY		J.H.KWACK		APPD BY		E.K.JANG	
FIELD				TITLE		CONTROL CIRCUIT SM-01	
Size	Document Number						Rev
Custom	EXPRESS-AS380-MRL						V09
Date:		Saturday, March 31, 2018		Sheet		3 of 10	

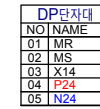
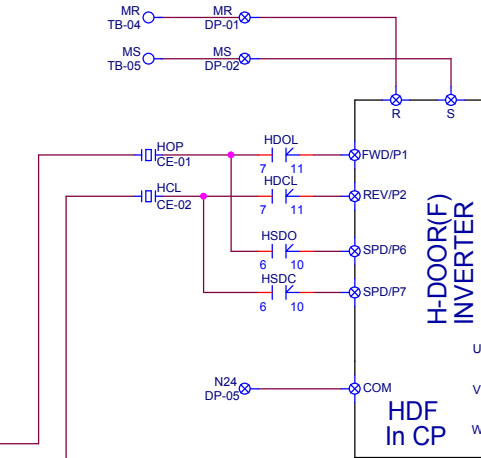
COL.D



DOL/DCL은 반드시 NOMAL CLOSE(B접점)으로 선택해주세요
(도어가 중간에 있을때 DOL/DCL신호가 ON되어야 합니다)

DRWN BY	J.H.KWACK	APPD BY	E.K.JANG
FIELD		TITLE	DOOR CONTROL CIRCUIT
Size	Document Number		
Custom	EXPRESS-AS380-MRL		
Date:	Wednesday, January 31, 2018	Sheet	4 of 10
		Rev	V09

COL.D1(FRONT)

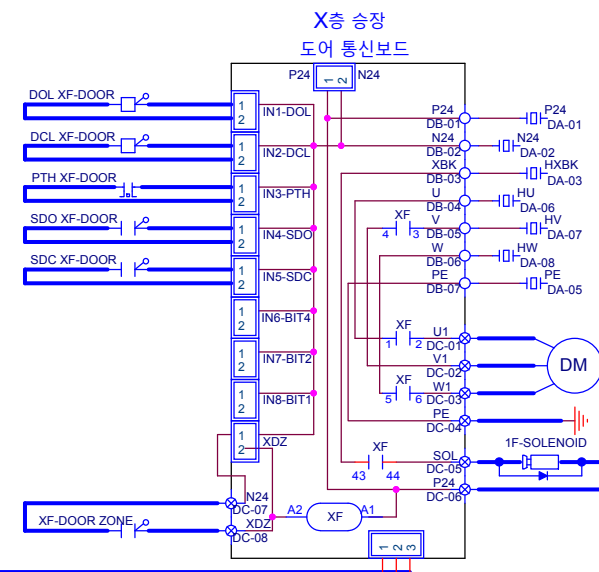
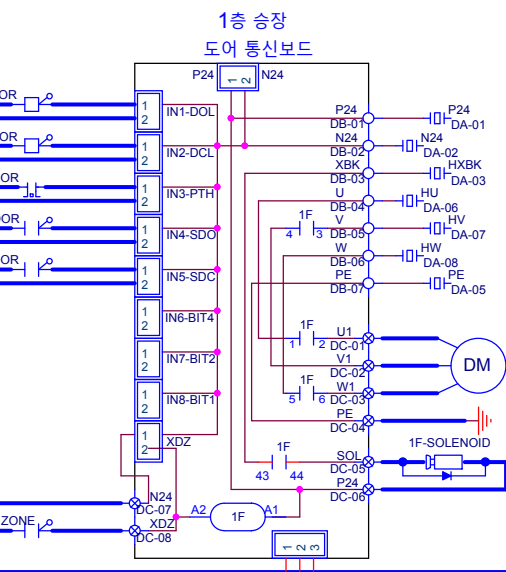
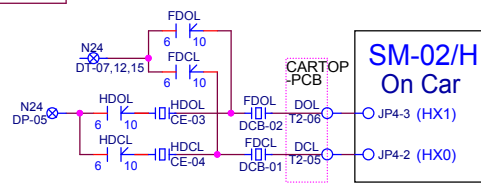


NO	SIGNAL	DEFINITION
DCB-1	FDCL	Front Car DCL
DCB-2	FDOL	Front Car DOL
DCB-3	FCL	Front Car CLOSE
DCB-4	FOP	Front Car OPEN
DCB-5	RDCL	Rear Car DCL
DCB-6	RDOL	Rear Car DOL
DCB-7	RCL	Rear Car CLOSE
DCB-8	ROP	Rear Car OPEN
DCB-9	P24	+24V DC
DCB-10	N24	-24V DC
DCB-11	MR	AC220V
DCB-12	MS	AC220V
DCB-13	PE	EARTH
DCB-14	FPTC	Front Car PHOTO
DCB-15	RPTC	Rear Car PHOTO

DA-09P케이블 (속칭도어)		
NO	SIGNAL	DEFINITION
DA-01	P24	POWER 24V+
DA-02	N24	POWER 24V-
DA-03	HXBK	RUN SIGNAL H
DA-04	BX BK	RUN SIGNAL-B
DA-05	PE	EARTH
DA-06	HU	AC220V-R(FRONT)
DA-07	HV	AC220V-S(FRONT)
DA-08	HW	AC220V-T(FRONT)
DA-09	BU	AC220V-R(REAR)
DA-10	BV	AC220V-S(REAR)
DA-11	BW	AC220V-T(REAR)

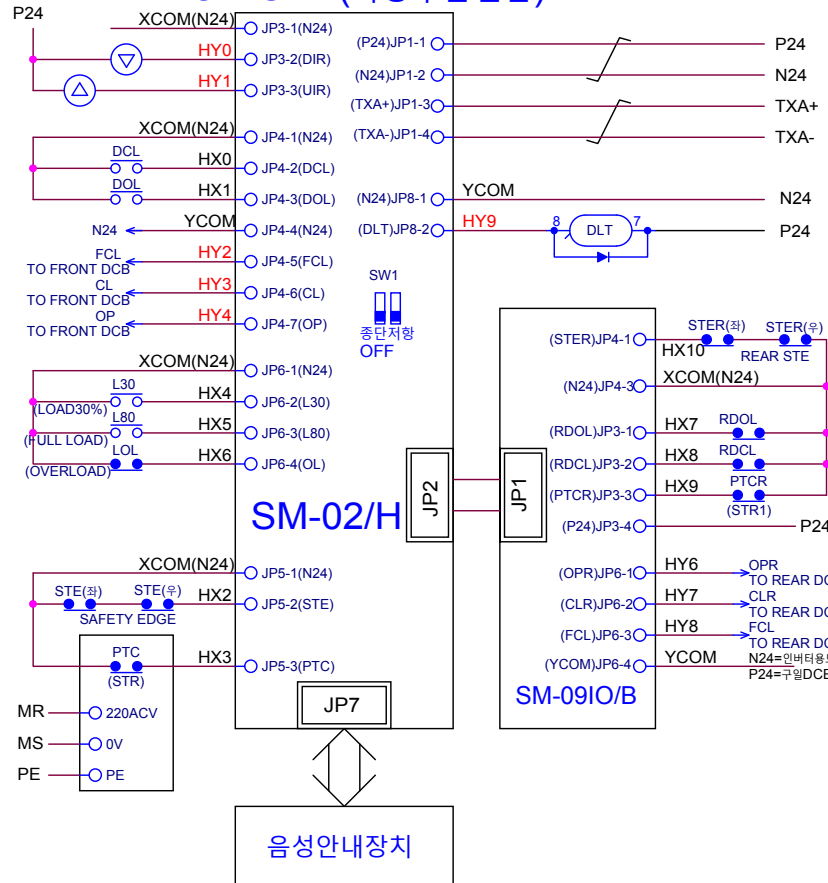
DB콘넥터7P(홀도어박스)		
NO	NAME	DEFINITION
DB-01	P24	POWER-DC24+
DB-02	N24	POWER-DC24-
DB-03	XBK	RUNNING SIGNAL
DB-04	U	DOOR MOTOR U
DB-05	V	DOOR MOTOR V
DB-06	W	DOOR MOTOR W
DB-07	PE	EARTH

NO	NAME	DEFINITION
DC-01	U1	MOTOR U
DC-02	V1	MOTOR V
DC-03	W1	MOTOR W
DC-04	PE	EARTH
DC-05	SOL	SOLENOID-LOCK
DC-06	P24	POWER-DC24+
DC-07	N24	POWER-DC24-
DC-08	XDZ	DOOR ZONE SW

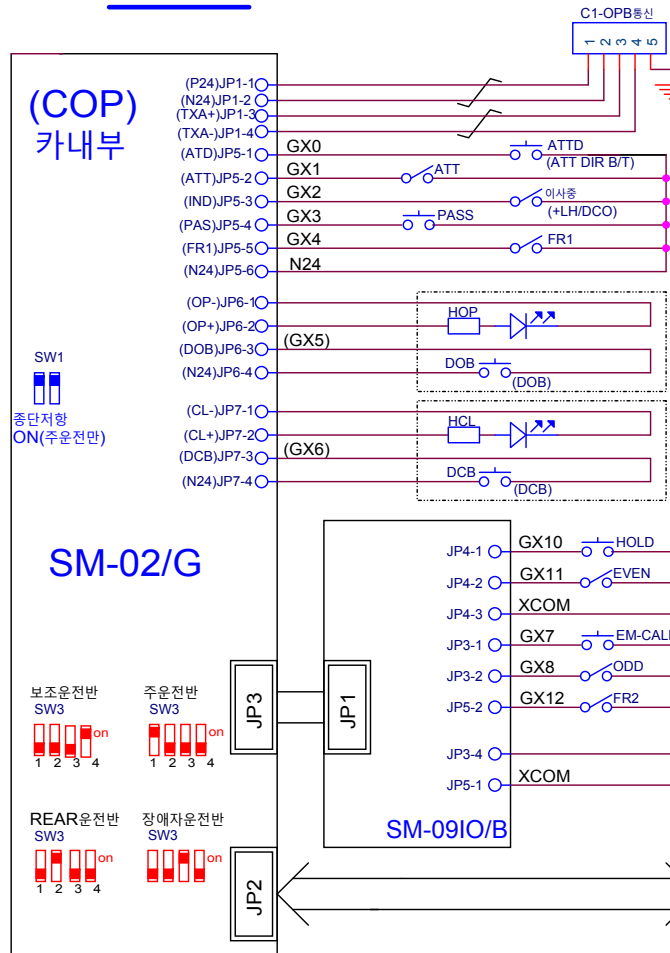


COL.E

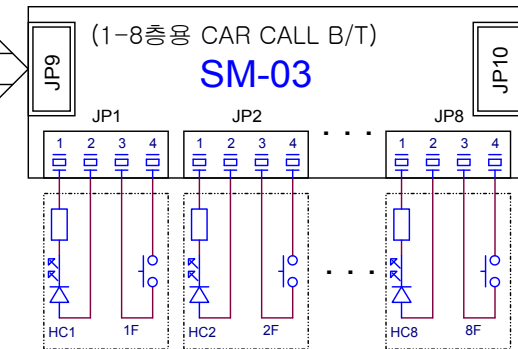
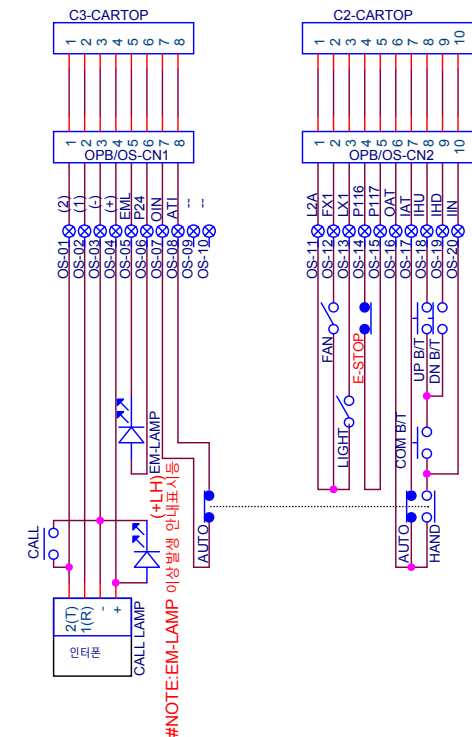
ON CAR(카상부운전반)



(COP) 카내부



FROM CARTOP PCB



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 PTS
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-광개CLOSE
06	CL	HY3-CLOSE
07	OP	HY4-OPEN신호

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

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	--	HY12--
02	XCOM	HY12의 공통

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

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

NO	NAME	DEFINITION
01	--	HY9--
02	YCOM	HY9의 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	GX10	GX10-HOLD OP
02	GX11	GX11-NS SW
03	XCOM	GX10, 11의 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

NO	NAME	DEFINITION
01	GY3	GY3-
02	YCOM	GY3의 공통

DRWN BY	J.H.KWACK	APPD BY	E.K.JANG
FIELD		TITLE	CONTROL CIRCUIT SM-02
Size	Document Number		
Custom	EXPRESS-AS380-MRL		
Date:	Wednesday, December 13, 2017	Sheet	5 of 10

NOTE 1

최하층의 통신기판은 반드시 종단저항을
점퍼시켜야합니다

SM-04 PCB FLOOR ADDRESS 입력방법

S1 JUMPER PIN1,2번에 점퍼핀이 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 50 다음은 51,52..순서로 층의
값을 입력함.

SM-04-VSX콘넥터설명	
JP1	통신케이블연결용
JP2	UP B/T용
JP3	DOWN B/T용
JP4	PARKING SW용(P3,4)
S1	층선택용 점퍼
SW2	종단저항점퍼용(DIP-SW)

SM-04-VSP콘넥터설명	
JP1	통신케이블연결용
JP2	UP B/T용
JP3	DOWN B/T용
JP4	PARKING SW용(P3,4)
JP5	
S1	층선택용 점퍼
S2,S3	종단저항점퍼용(P1,2)

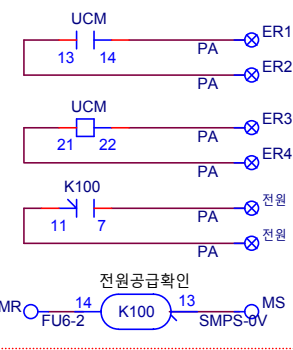
SM-04-VSD콘넥터설명	
JP2	통신케이블연결용
JP3	UP B/T용
JP4	DOWN B/T용
JP5	PARKING SW용(P3,4)
S1	층선택용 점퍼
SW1	종단저항점퍼용(DIP-SW)

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

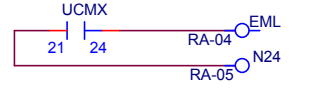
승장 케이블	HA-상부리미트	
번호	NO	SIGNAL
01	HA-01	COM(N24)
02	HA-02	
03	HA-03	SLU
21	HA-04	2SU
06	HA-05	P111
	HA-06	P111-1
20	HA-07	PE
승장 케이블	HC-H도어SW	
번호	NAME	DEFINITION
18	HC-01	P117
19	HC-02	P119
20	HC-03	PE

승장 케이블	HB-하부리미트	
번호	NO	SIGNAL
01	HB-01	COM(N24)
23	HB-02	
04	HB-03	SLD
22	HB-04	2SD
05	HB-05	FRS
07	HB-06	P112
08	HB-07	P113
09	HB-08	TE1(2)
10	HB-09	TE2(1)
11	HB-10	TE3(-)
12	HB-11	TE4(+)
13	HB-12	LT1
14	HB-13	LT2
15	HB-14	LTA
16	HB-15	LTB
17	HB-16	LTC
20	HB-17	PE

감시반 점점 출력

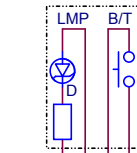


+LH EM-LAMP 출력

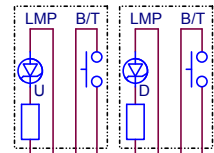


COL.F

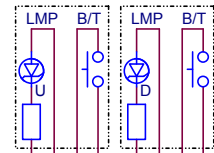
최상층



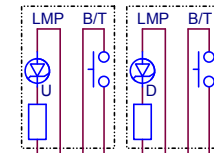
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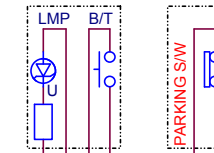
현장층표시기판이 SM-04-HSC일경우



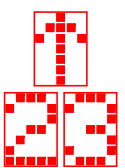
현장층표시기판이 SM-04-VSX일경우



현장층표시기판이 SM-04-VSP일경우



SM-04-VSD (IN CAR)



SM-04-VSX



SM-04-VSC



SM-04-HSC



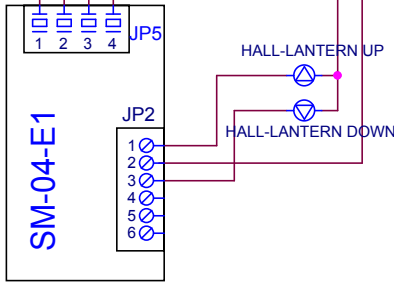
SM-04-VSX



SM-04-VSP



SM-04-E1



DRWN BY	J.H.KWACK	APPD BY	E.K.JANG
FIELD		TITLE	HALL CALL CIRCUIT SM-04
Size	Document Number	 (주)익스프레스리프트	
Custom	EXPRESS-AS380-MRL		
Date:	Wednesday, January 31, 2018	Sheet	6 of 10
			Rev V09

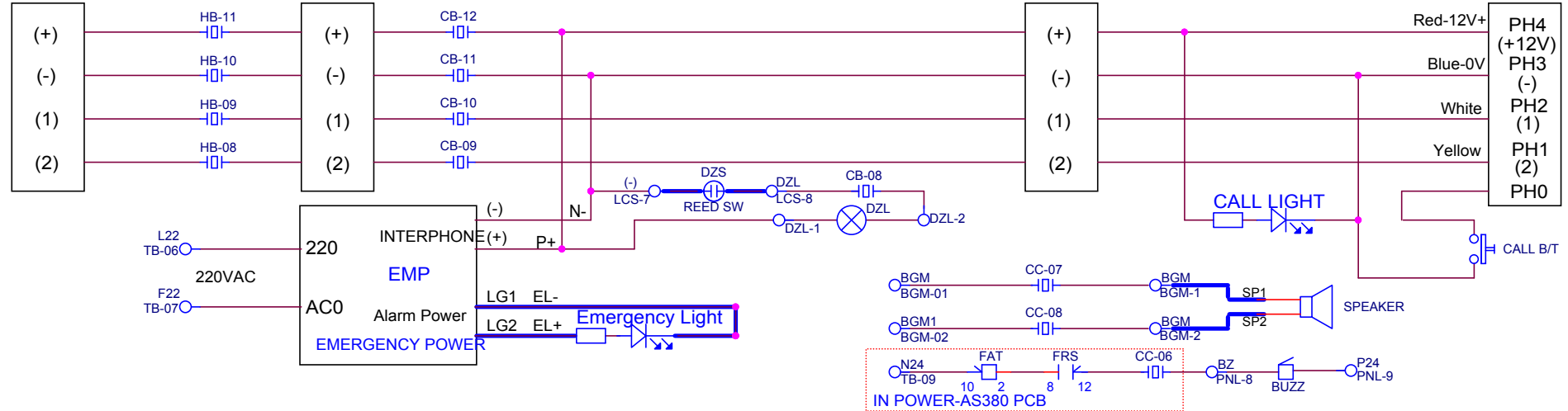
COL.G

경비실
인터폰

Machine Room

Car Top

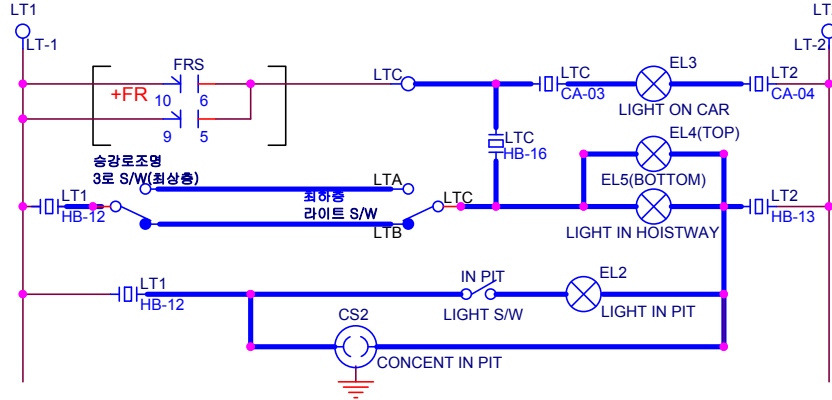
In car



FROM COL.B-2A

FROM BUILDING POWER

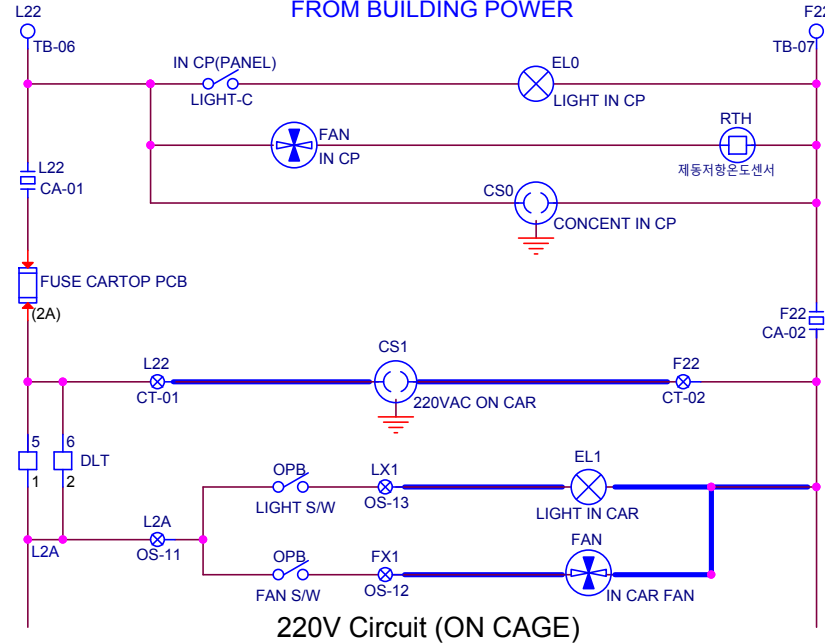
FROM COL.B-2A



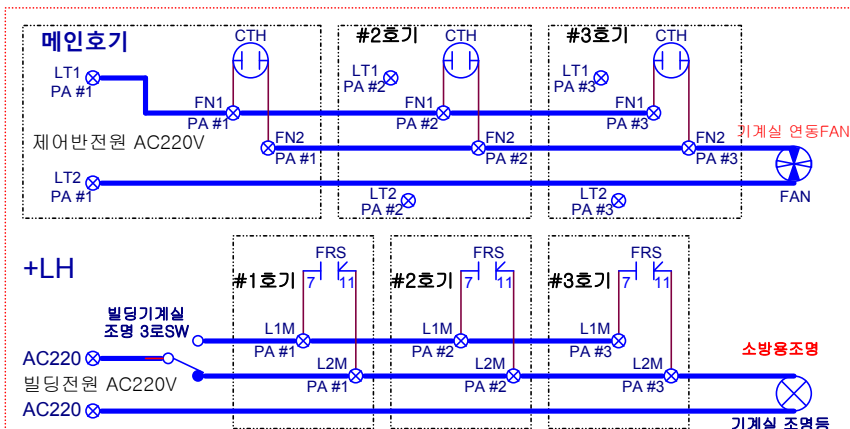
FROM COL.B-2A

FROM BUILDING POWER

FROM COL.B-2A



220V Circuit (ON CAGE)

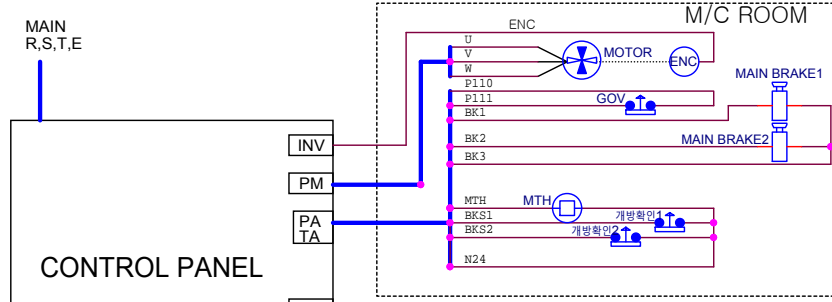


DRWN BY	J.H.KWACK	APPD BY	E.K.JANG
FIELD		TITLE	LIGHT CIRCUIT
Size	Document Number	 (주)익스프레스리프트	
Custom	EXPRESS-AS380-MRL		
Date:	Tuesday, December 12, 2017	Sheet	7 of 10
			Rev V09

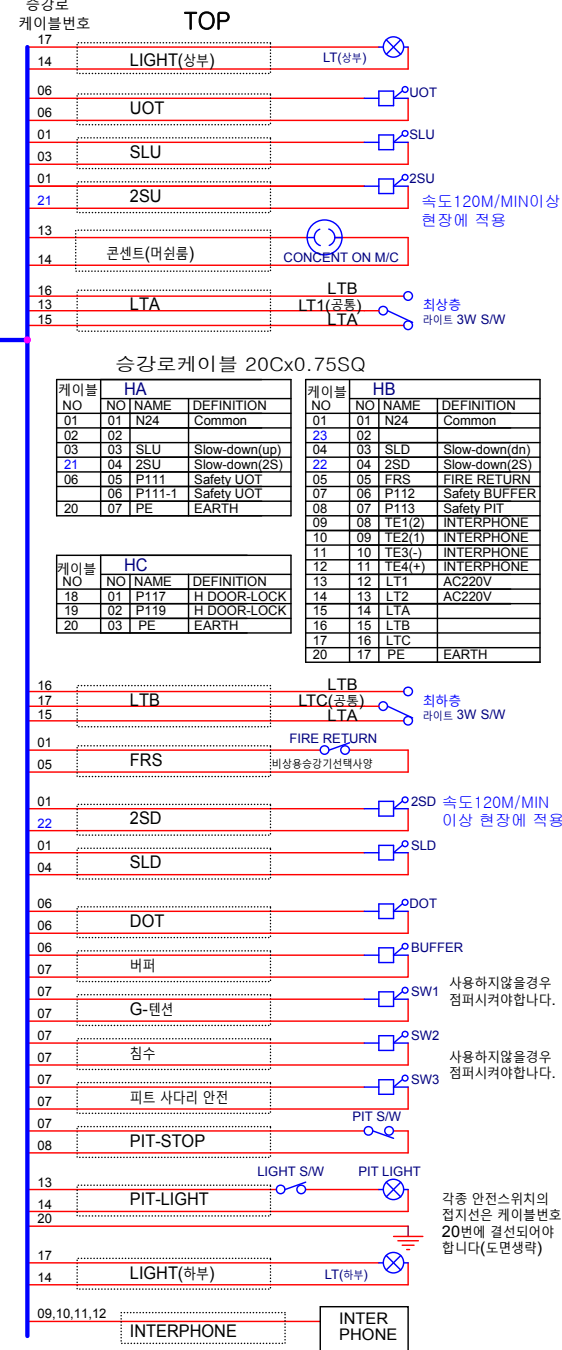
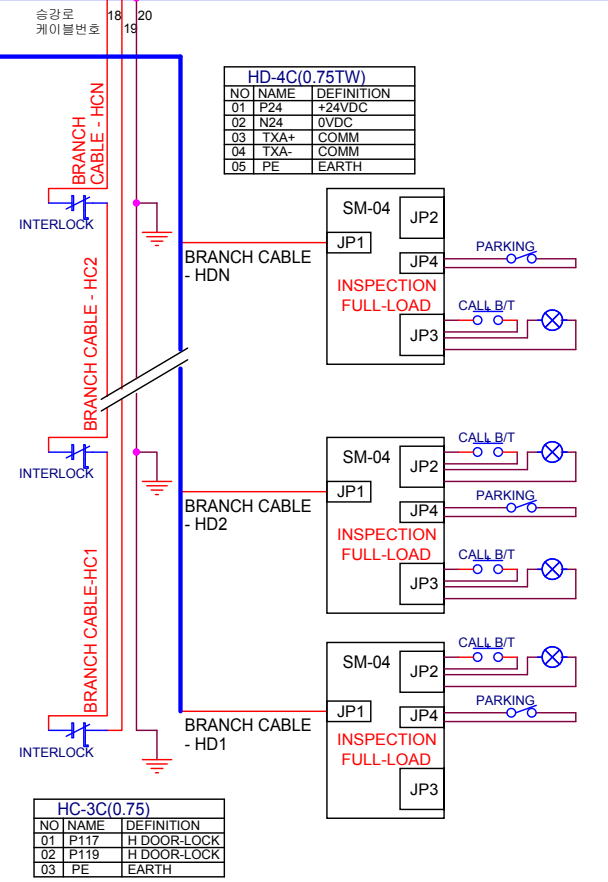
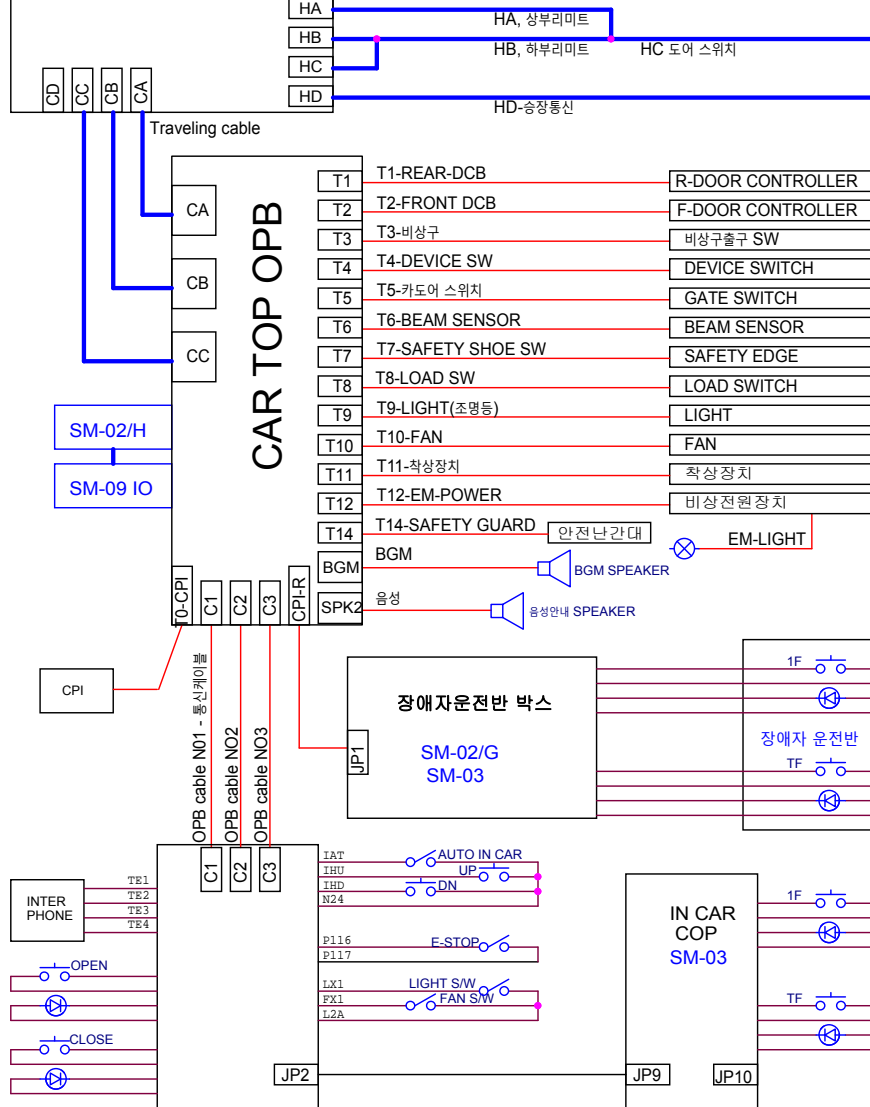
COL.H (결선도요약)

케이블 사양

HA,HB,HC용 (승강로케이블 20C(22c)x0.75SQ)
HD (승강통신용 4Cx0.5SQ SHIELDED)



NO	NAME	DEFINITION
PM	AR	ARD OUTPUT-R
PM	AS	ARD OUTPUT-S
PM	AT	ARD OUTPUT-T
PM	N1	ARD OUTPUT-N
PM	U	MOTOR-U
PM	V	MOTOR-V
PM	W	MOTOR-W



주의! 제어반에서 결선되는 모든 전선은 전선단트 및 후핵시블을사용하여 포선하여야하며 닥트 및 후핵시블은 반드시 접지처리하여야 합니다..

각종 안전스위치의 접지선은 케이블번호 20번에 결선되어야 합니다(도면생략)

NO	LIMIT S/W 설정거리				
A	UOT/DOT	150MM	150MM	150MM	180MM
B	SLU/SLD	1200~2000MM	2200~2600MM	2400~2600MM	2200~2600MM
C	2SU/2SD			4000MM	5600MM

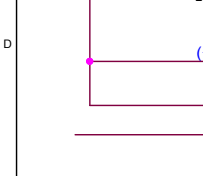
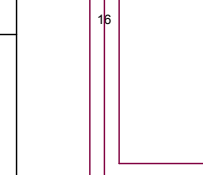
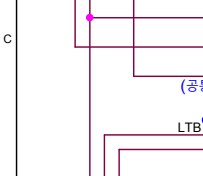
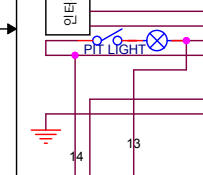
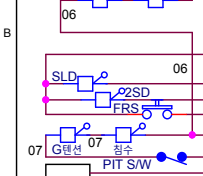
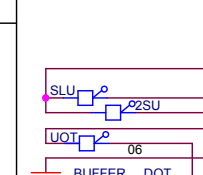
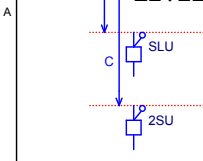
COL.I (기계실, 승강로 결선도)

NO	NAME	DEFINITION
PM	AR	ARD OUTPUT-R
PM	AS	ARD OUTPUT-S
PM	AT	ARD OUTPUT-T
PM	N1	ARD OUTPUT-N
PM	U	MOTOR-U
PM	V	MOTOR-V
PM	W	MOTOR-W

PA	NAME	DEFINITION
PA	BK1	BRAKE COIL1+
PA	BK2	BRAKE COIL2+
PA	BK3	BRAKE COIL-
PA	ER1	ERROR OUT1
PA	ER2	ERROR OUT2
PA	ER3	ERROR OUT3
PA	ER4	ERROR OUT4
PA	전원	전원표시출력(감시반)
PA	전원	전원표시출력(감시반)
PA	FN1	M/C ROOM FAN
PA	FN2	M/C ROOM FAN
PA	LT1	M/C ROOM FAN
PA	LT2	M/C ROOM FAN
PA	L1M	소방용 기계실 조명1
PA	L2M	소방용 기계실 조명2

TA	NAME	DEFINITION
TA-01	P110	SAFETY CP
TA-02	P111	SAFETY-GOV
TA-03	RBC	ROPE BK COM
TA-04	RBX	ROPE BK SIG
TA-05	BH1	BRAKE HANDLE CM
TA-06	BH2	BRAKE HANDLE SIG
TA-07	BKS1	BRAKE1 개방확인
TA-08	N24	SIGNAL COM
TA-09	N24	BRAKE2 개방확인
TA-10	N24	SIGNAL COM
TA-11	FRS	FIRE RETURN SIG
TA-12	N24	SIGNAL COM
TA-13	ARDS	ARD START SIG
TA-14	ARDF	ARD FAULT SIG
TA-15	RGC	REGEN TH COM
TA-16	RGH	REGEN TH COM
TA-17	MTC	MOTOR TH COM
TA-18	MTH	MOTOR TH SIG
TA-19	ARDE	ARD END COM
TA-20	ARDE	ARD END SIG

TOP FLOOR LEVEL



상장	번호	NO	SIGNAL
상부리미트	01	HA-01	COM(N24)
	02	HA-02	
	03	HA-03	SLU
	21	HA-04	2SU
	06	HA-05	P111
		HA-06	P111-1
	20	HA-07	PE

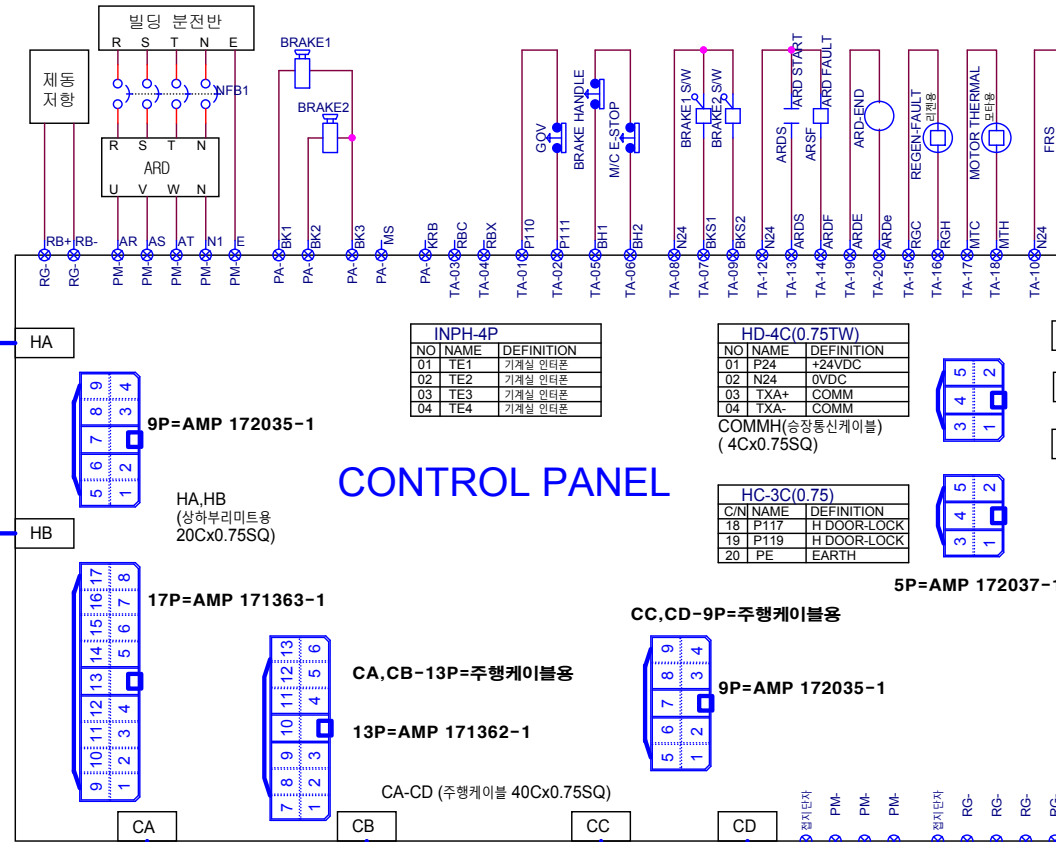
상장	번호	NO	SIGNAL
하부리미트	01	HB-01	COM(N24)
	23	HB-02	
	04	HB-03	SLD
	22	HB-04	2SD
	05	HB-05	FRS
	07	HB-06	P112
	08	HB-07	P113
	09	HB-08	TE1(2)
	10	HB-09	TE2(1)
	11	HB-10	TE3(-)
	12	HB-11	TE4(+)
	13	HB-12	LT1
	14	HB-13	LT2
	15	HB-14	LTA
	16	HB-15	LTB
	17	HB-16	LTC
	20	HB-17	PE

CA-12P	SIGNAL	DEFINITION
CA-01	L22	AC220V
CA-02	F22	AC220V
CA-03	LTC	LIGHT IN PIT
CA-04	LT2	AC220V IN PIT
CA-05	PE	EARTH
CA-06	MR	AC220V CAGE
CA-07	MS	AC220V CAGE
CA-08	P114	SAFETY ON CAR1
CA-09	P115	SAFETY-EXIT1
CA-10	P116	SAFETY-EXIT2
CA-11	P117	Safety-End
CA-12	P118	Gate s/w

CB-12P	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	DZL	DOOR ZONE L
CB-09	TE1(2)	INTERPHONE
CB-10	TE2(1)	INTERPHONE
CB-11	TE3(-)	INTERPHONE
CB-12	TE4(+)	INTERPHONE+

CC-9P	SIGNAL	DEFINITION
CC-01	ICM	IN CAR AUTO M
CC-02	P24	+24VDC
CC-03	N24	0VDC
CC-04	TXA+	COMM
CC-05	TXA-	COMM
CC-06	BZ	BZZER FIRE
CC-07	BGM	구내방송용 스피커1
CC-08	BGM	구내방송용 스피커2
CC-09	EML	+LH EML(FR2)

CD-9P	SIGNAL	DEFINITION
CD-01	L10	AC110V ON CAR
CD-02	SP35	SPARE 35
CD-03	SP36	SPARE 36
CD-04	SP37	SPARE 37
CD-05	SP38	SPARE 38
CD-06	SP39	SPARE 39
CD-07	SP40	SPARE 40

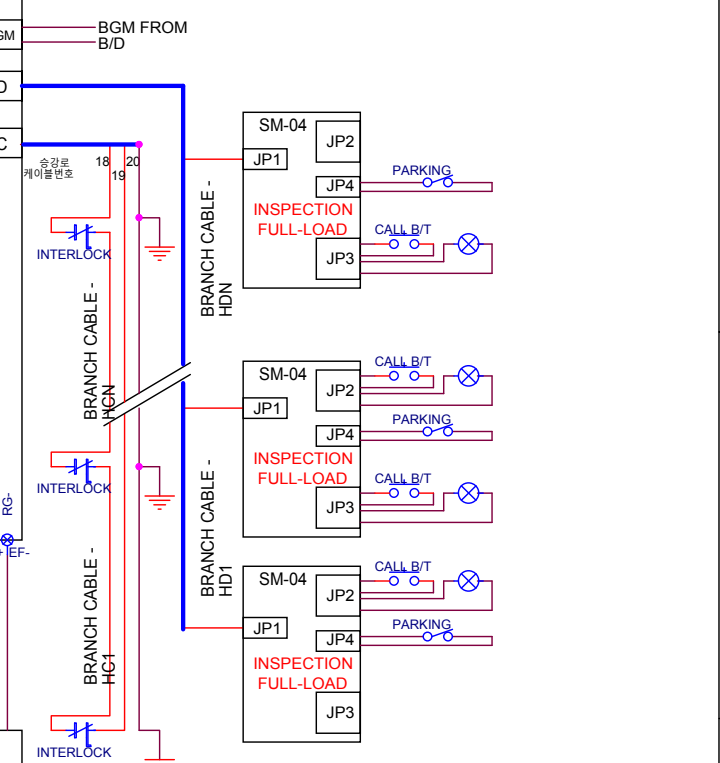
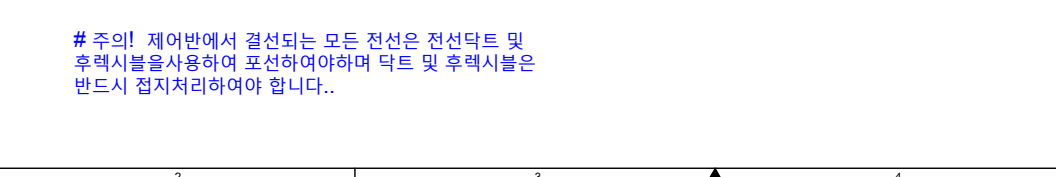


CA-12P	SIGNAL	DEFINITION
CA-01	L22	AC220V
CA-02	F22	AC220V
CA-03	LTC	LIGHT IN PIT
CA-04	LT2	AC220V IN PIT
CA-05	PE	EARTH
CA-06	MR	AC220V CAGE
CA-07	MS	AC220V CAGE
CA-08	P114	SAFETY ON CAR1
CA-09	P115	SAFETY-EXIT1
CA-10	P116	SAFETY-EXIT2
CA-11	P117	Safety-End
CA-12	P118	Gate s/w

CB-12P	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	DZL	DOOR ZONE L
CB-09	TE1(2)	INTERPHONE
CB-10	TE2(1)	INTERPHONE
CB-11	TE3(-)	INTERPHONE
CB-12	TE4(+)	INTERPHONE+

CC-9P	SIGNAL	DEFINITION
CC-01	ICM	IN CAR AUTO M
CC-02	P24	+24VDC
CC-03	N24	0VDC
CC-04	TXA+	COMM
CC-05	TXA-	COMM
CC-06	BZ	BZZER FIRE
CC-07	BGM	구내방송용 스피커1
CC-08	BGM	구내방송용 스피커2
CC-09	EML	+LH EML(FR2)

CD-9P	SIGNAL	DEFINITION
CD-01	L10	AC110V ON CAR
CD-02	SP35	SPARE 35
CD-03	SP36	SPARE 36
CD-04	SP37	SPARE 37
CD-05	SP38	SPARE 38
CD-06	SP39	SPARE 39
CD-07	SP40	SPARE 40



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DRWN BY	J.H.KWACK	APPD BY	E.K.JANG
FIELD		TITLE	기계실 및 승강로 결선
Size	Document Number		
Custom	EXPRESS-AS380-MRL		
Date	Thursday, February 01, 2018	Sheet	9 of 10

COL.J (CAR TOP 결선도)

T1-R DCB		T1-R PTC(220V)	
NO	NAME	DEFINITION	
01	CM1R	R-Door CM1(P24)	
02	OPR	R-Door open signal	
03	CLR	R-Door close signal	
04	CM2R	R-Door CM2(N24)	
05	DOLR	R-Door open limit	
06	DCLR	R-Door close limit	
07	MRR	R-Door Power	
08	MSR	R-Door Power	
09	FCL	NUDDING CLOSE	

R-GATE(후면카도어)	
NO	NAME
01	P118-1 후면카도어 스위치
02	P117 SAFETY END
03	PE EARTH

R-STE	
NO	NAME
01	N24
02	STER R Safety Edge
03	PE EARTH

T2-F DCB		T6-PTC(220V)	
NO	NAME	DEFINITION	
01	CM1	CM1(P24)	
02	CL	Door close signal	
03	OP	Door open signal	
04	CM2	CM2(N24)	
05	DCL	Door close limit	
06	DOL	Door open limit	
07	MR	Door Power	
08	MS	Door Power	
09	FCL	NUDDING CLOSE	

T6-PTC(24V)	
NO	NAME
01	N24
02	PTC Safety beam signal
03	P24
04	N24

T7-STE(SAFETY EDGE)		T14-TOP	
NO	NAME	DEFINITION	
01	N24	0V(N24V)	
02	STE	SAFETY EDGE	
03	PE	EARTH	

T5-GATE(카도어 SW)		LAD (소형사다리안전)	
NO	NAME	DEFINITION	
01	P119	핸드오프 스위치	
02	P118	카도어 스위치	
03	PE	EARTH	

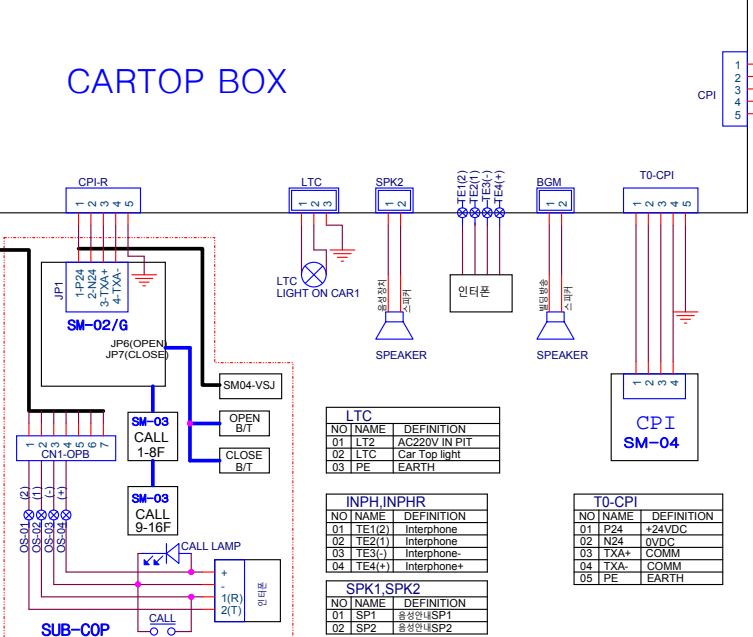
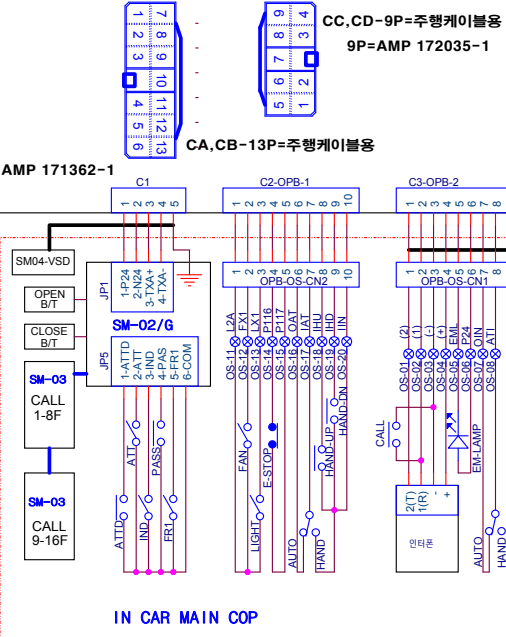
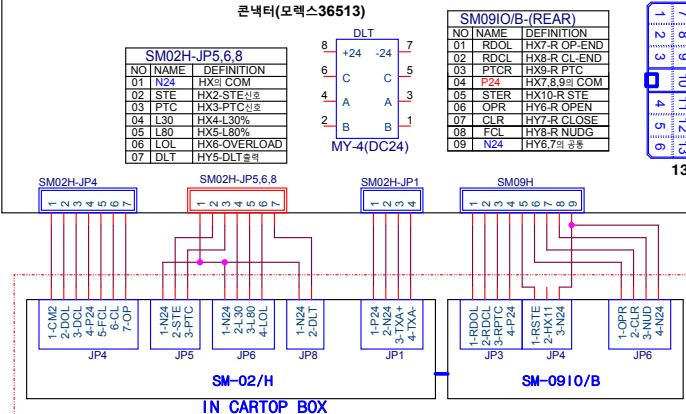
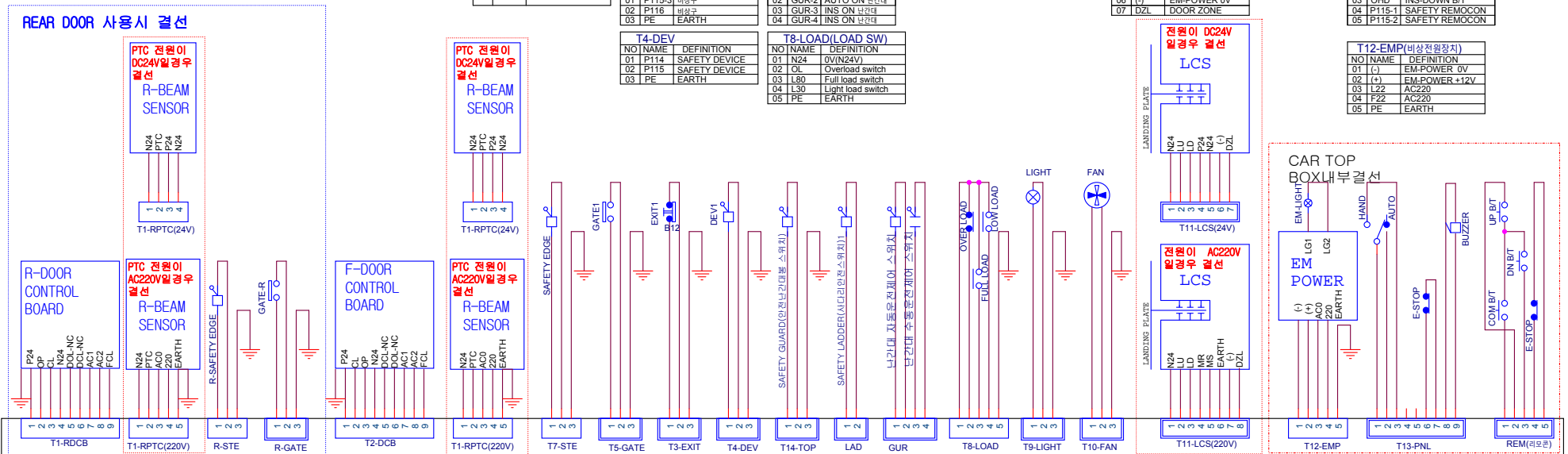
T3-EXIT		T8-LOAD(LOAD SW)	
NO	NAME	DEFINITION	
01	P115-3	비상구	
02	P116	비상구	
03	PE	EARTH	

T9-LIGHT		T10-FAN	
NO	NAME	DEFINITION	
01	F22	AC220V	
02	LX1	Car light	
03	PE	EARTH	

T11-LCS(24V)	
NO	NAME
01	N24
02	LU
03	LD
04	MR
05	MS
06	PE
07	(-) EM-POWER 0V
08	DZL

T13-PNL(운전반판)		REM(리모콘)	
NO	NAME	DEFINITION	
01	N24	0V(N24)	
02	OAT	AUTO ON CAR	
03	INS	INS ON CAR	
04	-	-	
05	-	-	
06	P115-2	SAFETY ON CAR	
07	P115-3	SAFETY ON CAR	
08	BZ	BUZZER	
09	P24	+24VDC	

T12-EMP(비상전원장치)	
NO	NAME
01	ATI
02	OHU
03	OHD
04	P115-1
05	P115-2



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SYMBOL SPECIFIC

SYMBOL	DESCRIPTION
	WIRE IN CONTROL PANEL
	"A" CONTACT IN PCB
	"A" CONTACT MAGNETIC CONTACTOR
	"B" CONTACT MAGNETIC CONTACTOR
	"A" CONTACT MY-4 TYPE RELAY
	"B" CONTACT MY-4 TYPE RELAY
	"A" CONTACT LIMIT SWITCH
	"B" CONTACT LIMIT SWITCH
	"A" CONTACT CAM SWITCH
	"A" CONTACT CAM SWITCH
	HATCH DOOR INTERLOCK
	BLOWER MOTOR FAN MOTOR IN CAGE
	"A" CONTACT PUSH BUTTON
	EMERGENCY LIGHT
	BRAKE COIL
	MOTOR ARMATURE
	CONCENT

SYMBOL	DESCRIPTION
	JOINT POINT WIRE IN COTROL PANEL
	CONDENSER
	DIODE
	RESISTER
	FUSE
	TERMINAL IN PCB
	"A" CONTACTTOGGLE SWITCH
	"B" CONTACTTOGGLE SWITCH
	OCR
	MOTOR THERMAL SWITCH
	LAMP
	UP,DOWN DIRECTION LAMP
	"B" CONTACT PUSH BUTTON
	2WAY TOGGLE SWITCH
	EARTH
	COIL OF MY-4 TYPE RELAY

SYMBOL	DESCRIPTION
	WIRE IN HOISTWAY
	JOINT POINT WIRE IN HOISTWAY
	TRANSFORMER
	RESISTER IN PCB
	MOTOR FIELD(DOOR MOTOR)
	HARNESS(P112=SIGNAL NAME, HA-06=NUMBER OF HARNESS PIN)
	"A" CONTACT MAGNETIC CONTACTOR
	SCREW TERMINAL IN CP/CARTOP
	2P NFB(NO FUSE BREAKER)
	1P NFB(NO FUSE BREAKER)
	GONGELECTRIC BUZZER
	BUZZER
	"B" CONTACTTHERMAL SWITCH
	SOLENOIDE
	COIL OFMAGNETIC CONTACTOR
	LEVELING INDUCTOR

CONTACT LOCATION & DESCRIPTION OF SIGNAL

M/C NAME	LOCATION												DESCRIPTION
	COIL	L1/T1	L2/T2	L3/T3	L13/14	43/44	53/54	61/62	71/72	83/84			
MC	B	A	A	A	C			B	B			MAIN CONTACTOR	
MY	B	A	A	A	B			A	A	C		MOTOR POWER MC	
BK1	B	A	B	B	C							BRAKE 1 MC	
BK2	B		B	B	C							BRAKE 2 MC	
BY	B	B										BRAKE COMMON MC	
UCM	C				B	B	F	F				PCB SAFETY MC	
FDL	C				C	C		C				DOOR LOCK MC	
ROPE	F				F	B						ROPE BRAKE MC	

Relay NAME	LOCATION MY-4									DESCRIPTION
	COIL	5/9	6/10	7/11	8/12	1/9	2/10	3/11	4/12	
FAT	B						G	B		ON CAR AUTO RELAY
FRS	C	G	G		G					FIRE SERVICE RELAY
SDO	D1		D1							DOOR OPEN SPEED
SDC	D1		D1							DOOR CLOSE SPEED
DLT	E					G	G			CAR LIGHT DELAY RY

Relay NAME	LOCATION SR2M						DESCRIPTION
	COIL	11/14	21/24	11/12	21/22		
SLU	C	B					UP SLOWDOWN RY
INS	B	B					INSPECTION RELAY
CIN	B	B	B				ON CAR INS RELAY
IIN	B			B			IN CAR INS RELAY
9G	B	B					CAR DOOR SW RELAY
9H	B	B					HATCH DOOR RELAY

NAME	DESCRIPTION
ENC	ROTARY ENCODER
AS.T029	MAIN BOARD
AS.T024	ENCBOARD-동기용
AS.T041	ENCBOARD-비동기용
SM-02/H	카상부통신기판
SM-02/G	카내부통신기판
SM-09IO	옵선 기능기판
SM-03	카콜 입력기판
SM-04/VSD	승장통신 및 표시기-CPI
SM-04E1	로프브레이크용 기판
SM-04/HSC	승장통신 및 표시기-가로형
SM-04/VSC	승장통신 및 표시기-세로형
SM-04/VSP	승장통신 및 표시기-HPI
SM-04/VSX	승장통신 및 표시기-슬림형
AS.T030	제어반 내부 키보드 조작 기판
POWER-AS380	제어반 내 콘넥터기판
CARTOP-AS380	카상부 콘넥터기판

NAME	DESCRIPTION
HA	승강로 상부 하네스 콘넥터
HB	승강로 하부 하네스 콘넥터
HC	승강로 도어록 하네스 콘넥터
HD	승강로 통신 하네스 콘넥터
CA	카상부 주행 케이블 콘넥터1
CB	카상부 주행 케이블 콘넥터2
CC	카상부 주행 케이블 콘넥터3
CD	카상부 주행 케이블 콘넥터4

SIGNAL	DESCRIPTION
00	SAFETY CIRCUIT 0V /DC110V
2SD	DOWN 2단 감속 신호
2SU	UP 2단 감속 신호
ATO	SAFETY회로 -수동운전 COMMON
BGM	구내방송 스피커 1
BGM	구내방송 스피커 2
BK1	BRAKE COIL 1+ (60~100VDC)
BK2	BRAKE COIL 2+ (60~100VDC)
BK3	BRAKE COIL 1,2의 COM(0V)
BX1	BRAKE1 OPEN 확인 신호
BX2	BRAKE2 OPEN 확인 신호
BZ1	BUZZER +
BZ2	BUZZER -
CL	DOOR CLOSE SIGNAL
CLR	REAR DOOR CLOSE SIGNAL
CM1	DOOR OP/CL의 공통단자(P24)
CM1R	REAR DOOR OP/CL의 공통단자
CM2	도어 리미트신호의 공통단자
CM2R	REAR 도어 리미트신호의 공통
COM	제어신호의 공통단자(N24)
CT1	기계실 CONCENT용 전원 단자대
CT2	기계실 CONCENT용 전원 단자대
DCL	DOOR CLOSE LIMIT
DCLR	REAR DOOR CLOSE LIMIT
DL	DOWN LIMIT
DOL	DOOR OPEN LIMIT
DOLR	REAR DOOR OPEN LIMIT
EF-	REGEN-INPUT-
EF+	REGEN-INPUT+
ER1	ERROR 출력 CM1 단자/이상발생
ER2	ERROR 출력 SG1 단자/이상발생
ER3	ERROR 출력 CM2 단자/정상운전
ER4	ERROR 출력 SG2 단자/정상운전
F10	0V AC110V/카상부 AC110V공급용
F22	0V AC220V/카상부 AC220V공급용
FRS	FIRE RETURN SIGNAL
FX1	AC220V/카상부 FAN SW 공급용
IAT	AUTO IN CAR SIGNAL
IHD	INSPECTION-DOWN SIGNAL
IHU	INSPECTION-UP SIGNAL

SIGNAL	DESCRIPTION
INS	INS ON CAR
IS1	SAFETY-REMOCON
ISO	SAFETY-INSPECTION CIRCUIT
KRB	ROPE BRAKE COIL
L1	220V From B/D
L10	AC110V ON CAR
L2	220V From B/D
L22	AC220V ON CAR
L30	30% LOAD SIGNAL
L80	80% LOAD SIGNAL
LD	LEVEL DOWN
LL1	ARD OUTPUT(AC220V)
LT1	승강로LIGHT / AC220V
LT2	승강로LIGHT / AC220V
LTA	승강로 3WAY / AC220V
LTB	승강로 3WAY / AC220V
LTC	승강로 3WAY / AC220V
LU	LEVEL UP
LX1	AC220V/카상부 LIGHT SW 공급용
MR	AC220V-ON CAR(CP POWER)
MRR	AC220V-ON CAR(REAR DOOR)
MS	AC220V-ON CAR(CP POWER)
MSR	AC220V-ON CAR(REAR DOOR)
N	NEUTRAL
NN1	ARD OUTPUT
N24	COM(N24)-DC24V의 0V
OAT	AUTO ON CAR
OHD	INSPECTION-DOWN SIGNAL
OHU	INSPECTION-UP SIGNAL
OL	OVERLOAD SIGNAL
OP	DOOR OPEN SIGNAL
OPN	REAR DOOR-OPEN SIGNAL
P112	SAFETY MACHINE ROOM
P112-1	SAFETY UP-FINAL
P113	SAFETY DOT.BUF,G-TEN,WAT SW
P114	SAFETY PIT SWITCH
P115	SAFETY CAR-TOP DEVICE SW
P115-1	SAFETY CAR-TOP GUARD SW
P115-2	SAFETY E-STOP REMOCON
P115-3	SAFETY ON CAR E-STOP B/T

SIGNAL	DESCRIPTION
P116	SAFETY CAR-TOP EXIT SW
P117	SAFETY END
P118	SAFETY GATE SW
P119	SAFETY HALL-DOOR SW
P24	DC24V+
PE	EARTH
PTC	PHOTO CELL IN CAR
PTCR	REAR PHOTO CELL IN CAR
R	380V FROM B/D
R1	REGEN-R
RB-	REGEN-RB/제동저항-
RB+	REGEN-RB/제동저항+
RBX	ROPE BRAKE OPEN SIGNAL
S	380V FROM B/D
S1	REGEN-S
SLD	DOWN SLOW-DOWN SIGNAL
SLU	UP SLOW-DOWN SIGNAL
SP1	음성안내 SPEAKER1
SP2	음성안내 SPEAKER2
STE	SAFETY EDGE SIGNAL
STER	REAR-SAFETY EDGE SIGNAL
T	380V FROM B/D
T1	REGEN-T
TE1	INTERPHONE1
TE2	INTERPHONE2
TE3	인타폰전원-
TE4	인타폰전원+
THX	MOTOR TH SIGNAL
TXA-	CAN-L / 통신케이블
TXA+	CAN-H / 통신케이블
U	MOTOR U
UL	UP LIMIT SIGNAL
V	MOTOR V
W	MOTOR W
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전기도면 약어 및 부품적용표

부품명	부품설명 및 용도	제조사	모델명	규격/적용	성적서 규정
ARD	AUTO RESCUE DEVICE	DINGU ELECTRIC	DL-EDP490T	OPTION	2004/108/CE
EM-OP	구출운전 스위치	한영닉스	CR-253	OPTION	K 60947-5-1
EMP	비상등 전원장치	정석전기	JEM-600	DC12V-2.9AH	제01-17-03-19호
PMR-44	역결상계전기	Schneider	PMR-44-ON7	380V	OPTION
REGEN	RE-GENERATION DEVICE	STEP ELECTRIC CO	AS RG/E 4011	11KW	OPTION
			AS RG/E 4015	15KW	OPTION
			AS RG/E 4018	18.5KW	OPTION
			AS RG/E 4022	22KW	OPTION
			AS RG/E 4030	30KW	OPTION
SMPS	전원공급장치(DC24V)	MEAN WELL	ESP 150-24	DC24V 6A	
UR2	DC110V 정류기	SEMICONDUCTOR	KBP C3510	1000V . 30A	
UR3	DC200V 정류기		KBP C3510	1000V . 31A	
UPS	BRAKE 개방운전용 전원장치	정석전기	EPB-120	DC 100V	OPTION
CS0	제어반 내 220V CONCENT	현대엘렉트릭	접지노출1구	AC220V 16A	
CS1	카상부운전반 220V CONCENT	현대엘렉트릭	접지노출2구	AC220V 16A	
CS2	피트 내 220V CONCENT	현대엘렉트릭	접지노출1구	AC220V 16A	
CS3	머신통 220V CONCENT	현대엘렉트릭	접지노출2구	AC220V 16A	
EL0	제어반 내 조명등	린전자	직부등	AC220V 17W	
EL1	카내부 조명등	완성업체에서 공급			
EL2	피트 내 조명등	완성업체에서 공급			
EL3	카상부 조명등	완성업체에서 공급			
EL4	승강로 상부측 조명등	완성업체에서 공급			
EL5	승강로 하부측 조명등	완성업체에서 공급			
GOV	GOVERNOR 안전스위치	완성업체에서 공급			
UOT	상부 주행 FINAL 안전스위치	동인안전	리미트스위치	B-CONTACT	K 60947-5-1
DOT	하부 주행 FINAL 안전스위치	동인안전	리미트스위치	B-CONTACT	K 60947-5-1
BUFFER	BUFFER 안전스위치	완성업체에서 공급			
GOVT	GOV TENSION SHEAVE 안전스위치	완성업체에서 공급			
WOT	피트 침수 안전스위치	완성업체에서 공급			
PIT	PIT 안전스위치	한영닉스	ARE-4R		K 60947-5-1
DEV	SAFETY DEVICE 안전스위치	완성업체에서 공급			
TOP	카상부 안전난간대 안전스위치	완성업체에서 공급			
E-STOP	EMERGENCY STOP 안전스위치	한영닉스	ARE-4R		K 60947-5-1
EXIT	비상구 출구 안전스위치	완성업체에서 공급			
NFB1	주 개폐기. 모니터용량-5.5-7.5KW	LS 산전	ABN-33	30A	KS C 8321
	주 개폐기. 모니터용량-9.5-11KW		ABN-53	40A	KS C 8321
	주 개폐기. 모니터용량-13-15KW		ABN-53	50A	KS C 8321
	주 개폐기. 모니터용량-18.5KW		ABN-63	60A	KS C 8321
	주 개폐기. 모니터용량-22KW		ABN-63	75A	KS C 8321
	주 개폐기. 모니터용량-30KW		ABN-103	100A	KS C 8321
NFB2, 3	조명 개폐기	LS 산전	32GRHC	15A	KS C 4613
MC. MY	주 접촉기-모터용량: 5.5KW	LS 산전	MC-22	11KW/22A	K 60947-4-1
	주 접촉기-모터용량: 7.5KW		MC-32	15KW/32A	K 60947-4-1
	주 접촉기-모터용량: 9.5-11KW		MC-32	15KW/32A	K 60947-4-1
	주 접촉기-모터용량: 13-15KW		MC-50	22KW/50A	K 60947-4-1
	주 접촉기-모터용량: 18.5KW		MC-50	22KW/50A	K 60947-4-1
	주 접촉기-모터용량: 22KW		MC-65	30KW/65A	K 60947-4-1
	주 접촉기-모터용량: 30KW		MC-75	37KW/75A	K 60947-4-1
UCM	안전회로 접촉기, UCM	후지전기	SH-4/G	120V. 6A	AC-15 K 60947-5-1
FD L	안전회로 접촉기-DOOR LOCK		SH-4/G	120V. 6A	AC-15 K 60947-5-1
ARD	안전회로 접촉기-ARD		SH-4/G	120V. 6A	AC-15 K 60947-5-1
ROPE	안전회로 접촉기-ROPE BRAKE		SH-4/G	120V. 6A	AC-15 K 60947-5-1

부품명	부품설명 및 용도	제조사	모델명	규격/적용	성적서 규정
9G,9H,IIN, CIN,INS	안전회로 릴레이-DOOR SW	써미트일렉트로닉스	SR2M	120V. 3A	AC-15 K 60947-5-1
동력선	동력케이블-모터용량: 5.5-7.5KW	㈜케이디씨	KIV	6SQ	KS 60227-3
	동력케이블-모터용량: 9.5-11KW		KIV	10SQ	KS 60227-3
	동력케이블-모터용량: 13-15KW		KIV	10SQ	KS 60227-3
	동력케이블-모터용량: 18.5-22KW		KIV	16SQ	KS 60227-3
	동력케이블-모터용량: 30KW		KIV	25SQ	KS 60227-3
승강로전선	승강로 하네스케이블(CP-PIT)	㈜케이디씨	VCTF	0.75SQ 20C	KS 60227-6
	각종도어스위치(H-DOOR LOCK)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	승강기 상부 리미트 (UOT)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	승강로 하부 리미트(DOT)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	승강로 상부 조명등(LTA)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	승강로 하부 조명등(LTB)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	승강로 강제감속 스위치(SLU)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	승강로 강제감속 스위치(SLU)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	승강로 상부 조명 3로 스위치용(LTA)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	승강로 상부 조명 3로 스위치용(LTA)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	로비 화재 리턴스위치(FRS)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	피트 안전스위치 및 조명용(PIT)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	피트 버터 안전스위치(BUFFER)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	가바나 텐션시브안전스위치(GOVT)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	피트 침수확인안전스위치(WOT)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	인터폰 또는 비상통화장치	㈜케이디씨	VCTF	0.75SQ 4C	KS 60227-5
	승강 콜버튼케이블	동양전자	DATA CABLE	0.5SQ 8C	
	승강로 통신케이블(TWISTx2)	㈜케이디씨	DATA CABLE	0.5SQ 4C	SHEILD
카주위케이블	카상부 조명등(LTC)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	세프티 디바이스 안전스위치(DEV)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	안전난간대스위치(TOP)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	비상구 안전스위치(EXIT)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	카도어스위치(GATE)	㈜케이디씨	VCTF	0.75SQ 3C	KS 60227-5
	카하부 로드스위치(L30 L80 LOL)	㈜케이디씨	VCTF	0.75SQ 5C	KS 60227-6
	도어콘트롤러용 케이블 (DCB)	㈜케이디씨	VCTF	0.75SQ 10C	KS 60227-6
가요성케이블	착상장치용 케이블(LU LD)	㈜케이디씨	VCTF	0.75SQ 6C	KS 60227-6
	도어든 힘 안전장치(STE)	㈜케이디씨	DATA CABLE	0.75SQ 3C	KS 60227-5
이동 케이블	벨선서용 케이블(STR)	㈜케이디씨	DATA CABLE	0.75SQ 5C	KS 60227-6
	주행거리45M이상 표준사양	에스티전선	EVVF-H	0.75SQ 30C	TH=45M이상 KS B 6948-2007
	주행거리46M미만 표준사양		EVVF-L	0.75SQ 30C	TH=45M미만 KS B 6948-2007
	주행거리47M이상 선택사양		EVVF-H	0.75SQ 40C	TH=45M이상 KS B 6948-2007
	주행거리48M미만 선택사양		EVVF-L	0.75SQ 40C	TH=45M미만 KS B 6948-2007
노이즈 필터	모터용량:5.5KW-7.5KW	㈜삼대전기	FT310-15	7.5KW	380V
	모터용량:9.5KW-11KW		FT310-25	11KW	380V
	모터용량:13KW-15KW		FT310-30	15KW	380V
	모터용량:18.5KW		FT310-40	18.5KW	380V
	모터용량:22KW		FT310-50	22KW	380V
	모터용량:30KW		FT310-60	30KW	380V
SPD	SURGE BOX	프라임솔루션	SB+PS2-40S 3P	40G	380V KS C IEC 61643
UFC	인버터-5.5KW	STEP ELECTRIC CO	AS 380-T05P5	13A	380V 11-PEL-00017/03
	인버터-7.5KW		AS 380-T07P5	18A	380V 11-PEL-00017/03
	인버터-11KW		AS 380-T0011	27A	380V 11-PEL-00017/03
	인버터-15KW		AS 380-T0015	34A	380V 11-PEL-00017/03
	인버터-18.5KW		AS 380-T18P5	41A	380V 11-PEL-00017/03
	인버터-22KW		AS 380-T0022	48A	380V 11-PEL-00017/03
	인버터-30KW		AS 380-T0030	65A	380V 11-PEL-00017/03