Ver No.	Revision Note	Date	Check
V10	EN CODE적용 신규 인증용	2018.05.30	E.K. JANG
V11	TEST PANEL,UCMP감지기 네개적용(COL.C)	2022.06.01	M.S. HWANG

Ver No.	Revision Note	Date	Check

EXPRESS-AS380 전기도면

(MRL표준)

기　　종 : EXPRESS-AS380(V11)표준도면

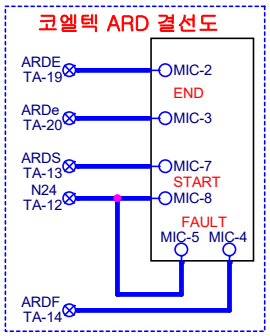
발　주　처 :

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-V10
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,D1~D4	DOOR CONTROL CIRCUIT	DCB
3	COL.C,C1~C2	MAIN CONTROL CIRCUIT	AS.T029
2	COL.B1~B4	POWER & SAFETY CIRCUIT	POWER-V10
1	COL.A1~A3	ARD CONTROL CIRCUIT	ARD SUPPLY
	COL.A	TRACTION CIRCUIT	INVERTER
NO	COL.NO	DESCRIPTION	NOTE

Size: Custom	Document Number: EXP-E-202206-01 (주)익스프레스리프트	Rev: V11
Date:	Sheet 0 of 10	

COL.A(동기-MRL)



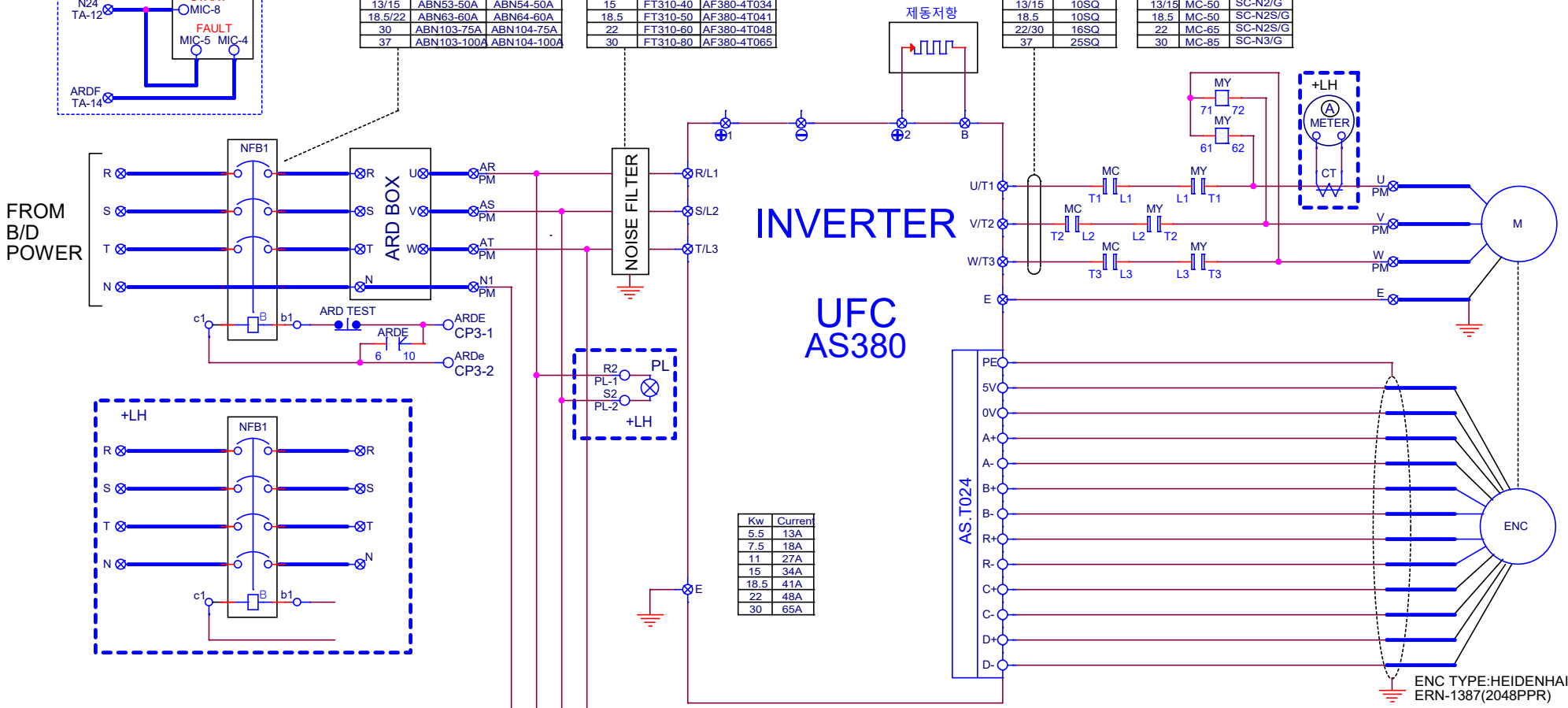
PM단자대(동력단자대)		
NO	NAME	DEFINITION
PM	AR	ARD OUTPUT-R
PM	AS	ARD OUTPUT-S
PM	AT	ARD OUTPUT-T
PM	N1	ARD OUTPUT-N
PM	U	MOTOR-U
PM	V	MOTOR-V
PM	W	MOTOR-W

Kw	NFB1	NFB1(LH/SH)
5.5/7.5	ABS33-30A	ABS34-30A
9.5/11	ABN53-40A	ABN54-40A
13/15	ABN53-50A	ABN54-50A
18.5/22	ABN63-60A	ABN64-60A
30	ABN103-75A	ABN104-75A
37	ABN103-100A	ABN104-100A

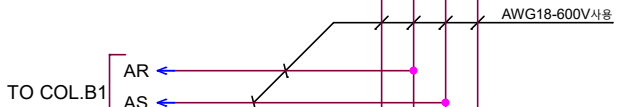
Kw	Spec(N,F)	Spec(N,F)
5.5/7.5	FT310-25	AF380-4T018
11	FT310-30	AF380-4T027
15	FT310-40	AF380-4T034
18.5	FT310-50	AF380-4T041
22	FT310-60	AF380-4T048
30	FT310-80	AF380-4T065

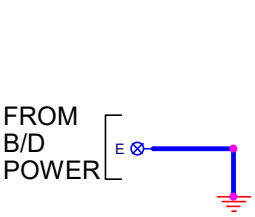
Kw	Spec(CABLE)
5.5/7.5	6SQ
9.5/11	6SQ
13/15	10SQ
18.5	10SQ
22/30	16SQ
37	25SQ

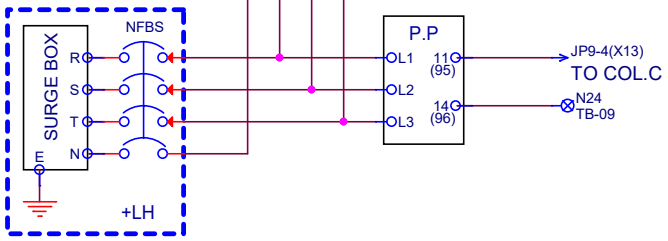
Kw	Spec (MC,MY)	
5.5	MC-22	SC-4-0/G
7.5	MC-32	SC-5-1/G
9.5/11	MC-32	SC-N1/G
13/15	MC-50	SC-N2/G
18.5	MC-50	SC-N2S/G
22	MC-65	SC-N2S/G
30	MC-85	SC-N3/G



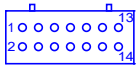
Kw	Current
5.5	13A
7.5	18A
11	27A
15	34A
18.5	41A
22	48A
30	65A





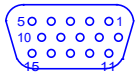


엔코더기판에 콘넥터를 꽂은상태에서의 PIN번호



AS.T024-JP2(엔코더 기판측)															
PIN No	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
SIGNAL	--	--	R-	R+	B-	B+	A-	A+	D-	D+	C-	C+	0V	5V	GND
COLOR															

엔코더기판쪽 콘넥터를 바라볼때(구멍만 보임)

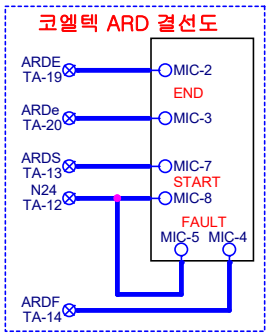


COLOR																
SIGNAL	--	--	R-	R+	B-	B+	A-	A+	D-	D+	C-	C+	0V	5V	--
PIN No	--	--	P4	P3	P1	P8	P6	P5	P13	P12	P10	P11	P7	P9	

ERN-1387(HEIDENHAIN 엔코더 측)

DRWN BY	J.H.KWAK	APPD BY	E.K.JANG
FIELD		TITLE	TRACTION CIRCUIT
Size: Custom	Document Number: EXP-E-202206-01	(주)익스프레스리프트	Rev: V11
Date:	Sheet 1 of 10		

COL.A(동기-MRL+REGEN)



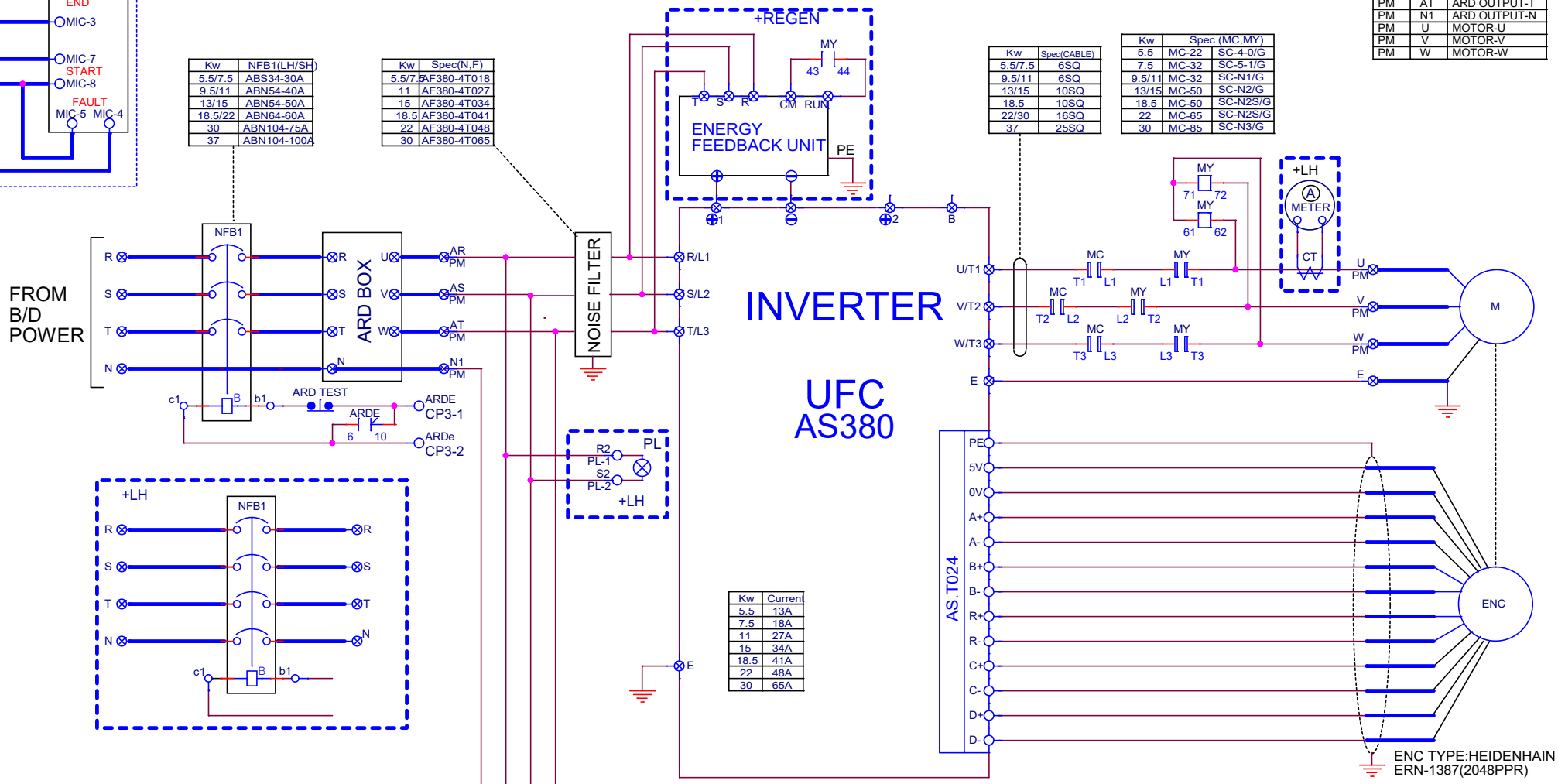
PM단자대(동력단자대)		
NO	NAME	DEFINITION
PM	AR	ARD OUTPUT-R
PM	AS	ARD OUTPUT-S
PM	AT	ARD OUTPUT-T
PM	N1	ARD OUTPUT-N
PM	U	MOTOR-U
PM	V	MOTOR-V
PM	W	MOTOR-W

Kw	NFB1(LH/SH)
5.5/7.5	ABS34-30A
9.5/11	ABN54-40A
13/15	ABN54-50A
18.5/22	ABN64-60A
30	ABN104-75A
37	ABN104-100A

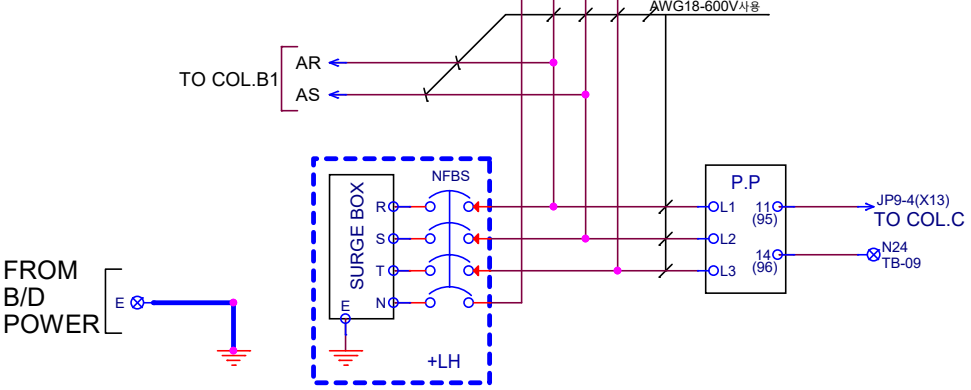
Kw	Spec(N,F)
5.5/7.5	AF380-4T018
11	AF380-4T027
15	AF380-4T034
18.5	AF380-4T041
22	AF380-4T048
30	AF380-4T065

Kw	Spec(CABLE)
5.5/7.5	6SQ
9.5/11	6SQ
13/15	10SQ
18.5	10SQ
22/30	16SQ
37	25SQ

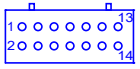
Kw	Spec (MC,MY)	
5.5	MC-22	SC-4-0/G
7.5	MC-32	SC-5-1/G
9.5/11	MC-32	SC-N1/G
13/15	MC-50	SC-N2/G
18.5	MC-50	SC-N2S/G
22	MC-65	SC-N2S/G
30	MC-85	SC-N3/G



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

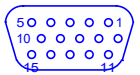


엔코더기판에 콘넥터를 꽂은상태에서의 PIN번호



AS.T024-JP2(엔코더 기판측)															
PIN No	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
SIGNAL	--	--	R-	R+	B-	B+	A-	A+	D-	D+	C-	C+	0V	5V	GND
COLOR															

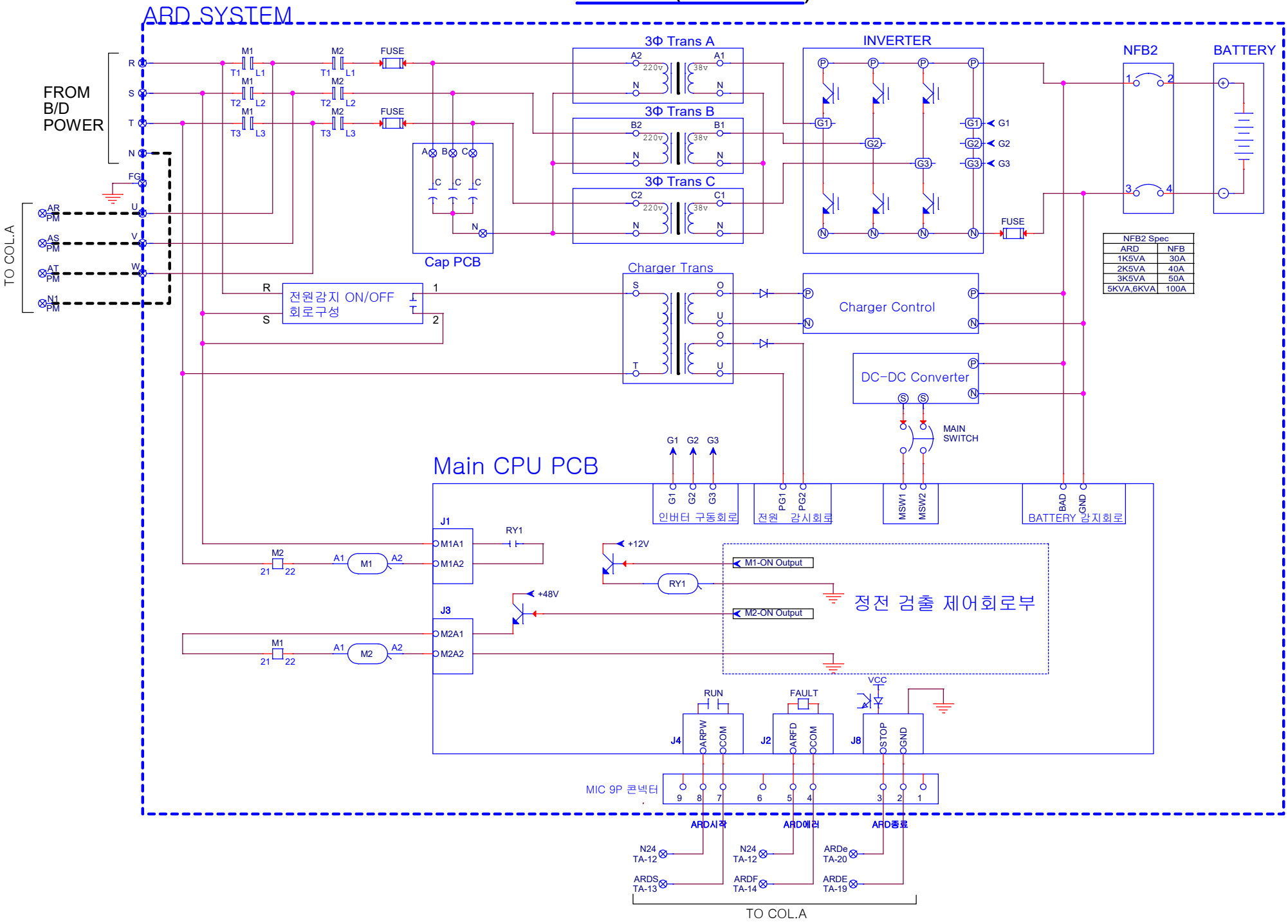
엔코더기판쪽 콘넥터를 바라볼때(구멍만 보임)



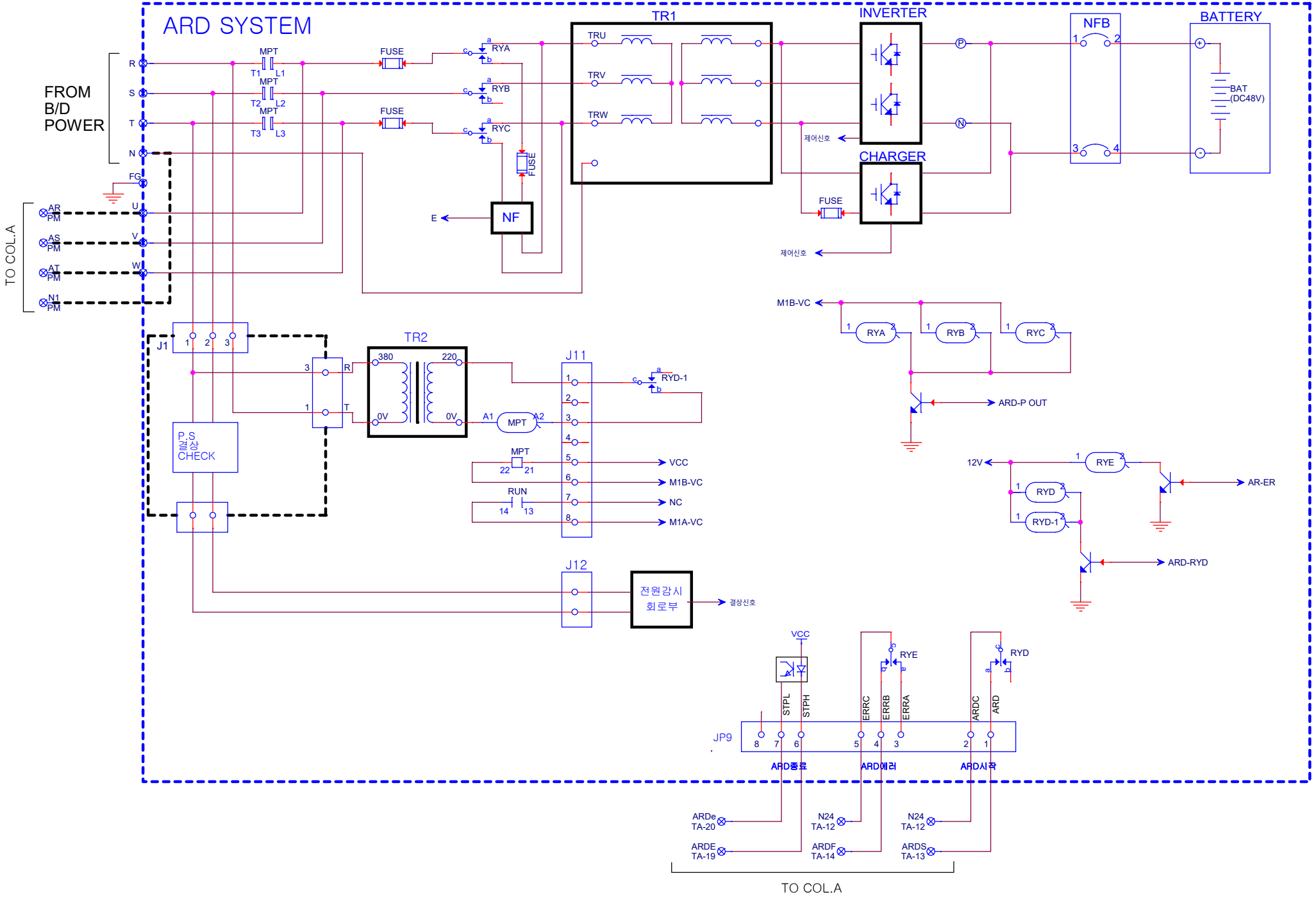
COLOR															
SIGNAL	--	--	R-	R+	B-	B+	A-	A+	D-	D+	C-	C+	0V	5V	--
PIN No	--	--	P4	P3	P1	P8	P6	P5	P13	P12	P10	P11	P7	P9	
ERN-1387(HEIDENHAIN 엔코더 측)															

DRWN BY	J.H.KWAK	APPD BY	E.K.JANG
FIELD		TITLE	TRACTION CIRCUIT
Size: Custom	Document Number: EXP-E-202206-01	(주)익스프레스리프트	Rev: V11
Date:		Sheet 1 of 10	

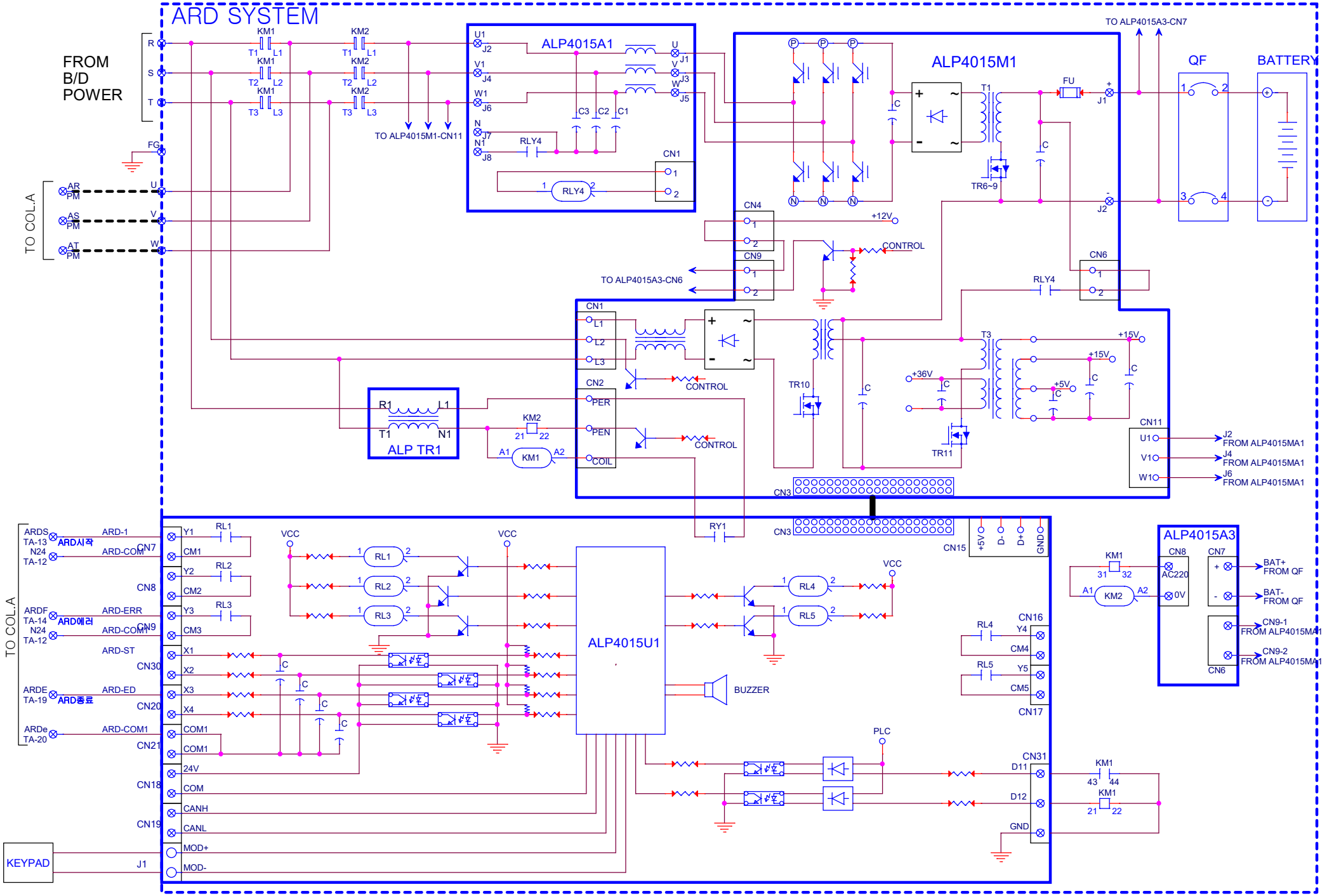
COL.A1(코엘텍ARD)



COL.A2(성암전기ARD)

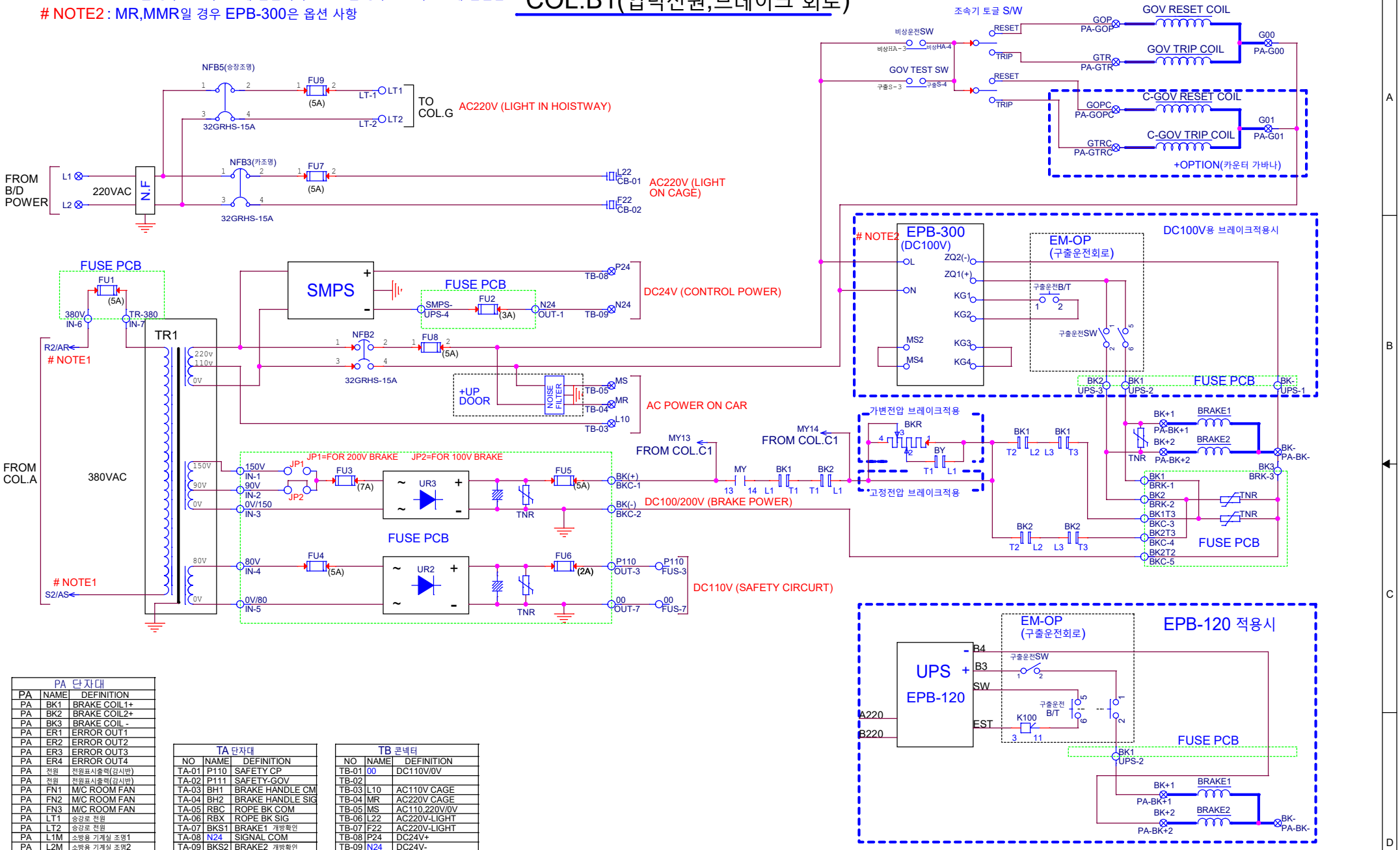


COL.A3(몬트KR-ARD)



NOTE1 : MR일 경우 R2와 S2에 결선되며. MRL일 경우 AR와 AS에 결선함.
NOTE2 : MR,MMR일 경우 EPB-300은 옵션 사항

COL.B1(입력전원,브레이크 회로)



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	전원	전원표시출력(감시반)
PA	전원	전원표시출력(감시반)
PA	FN1	M/C ROOM FAN
PA	FN2	M/C ROOM FAN
PA	FN3	M/C ROOM FAN
PA	LT1	승강로 전원
PA	LT2	승강로 전원
PA	L1M	소방용 기계실 조명1
PA	L2M	소방용 기계실 조명2
PA	MS	AC220V-RBK
PA	KRB	ROPE BRAKE COIL
PA	N24	SIGNAL COM
PA	EQS	EQS INPUT
PA	EMP	EM-POWER INPUT
PA	G00	GOV TEST COM
PA	GOP	GOV RESET 전원
PA	GTR	GOV TRIP 전원
PA	G01	C-GOV TEST COM
PA	GOPC	CW-GOV RESET전원
PA	GTRC	CWT-GOV TRIP전원

TA 단자대

NO	NAME	DEFINITION
TA-01	P110	SAFETY CP
TA-02	P111	SAFETY-GOV
TA-03	BH1	BRAKE HANDLE CM
TA-04	BH2	BRAKE HANDLE SIG
TA-05	RBC	ROPE BK COM
TA-06	RBX	ROPE BK SIG
TA-07	BKS1	BRAKE1 개방확인
TA-08	N24	SIGNAL COM
TA-09	BKS2	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

TB 콘넥터

NO	NAME	DEFINITION
TB-01	00	DC110V/0V
TB-02		
TB-03	L10	AC110V CAGE
TB-04	MR	AC220V CAGE
TB-05	MS	AC110,220V/0V
TB-06	L22	AC220V-LIGHT
TB-07	F22	AC220V-LIGHT
TB-08	P24	DC24V+
TB-09	N24	DC24V-

TC 콘넥터

NO	NAME	DEFINITION
TC-01	BGM	구내방송스피커
TC-02	BGM	구내방송스피커

TD 콘넥터

NO	NAME	DEFINITION
TD-01	EM1	CP E-STOP 1
TD-02	EM2	CP E-STOP 2
TD-03	UCM	UCM TEST POINT

DRWN BY	J.H.KWAK	APPD BY	E.K.JANG
FIELD		TITLE	POWER SUPPLY & BRAKE CIRCUIT
Size Custom	Document Number EXP-E-202206-01	(주)익스프레스리프트	Rev V10
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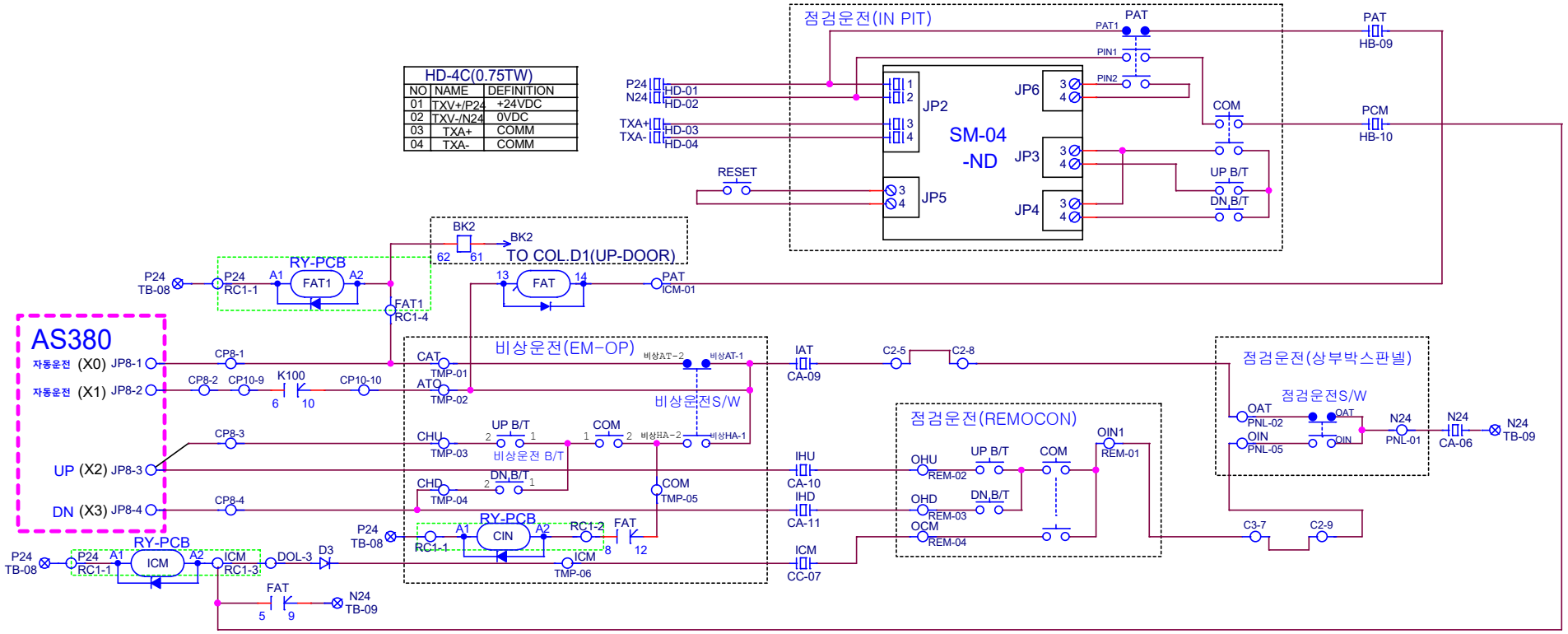
COL.B2(비상,점검 운전,피트 회로)



AS380-JP1		
NO	NAME	DEFINITION
01	XCOM	X COMMON
02	X20	SAFETY LOOP
03	X21	CAR DOOR
04	X22	DOOR LOCK
05	X--	spare
06	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
08	Y-	spare
09	COM4	Y- COMMON

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

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

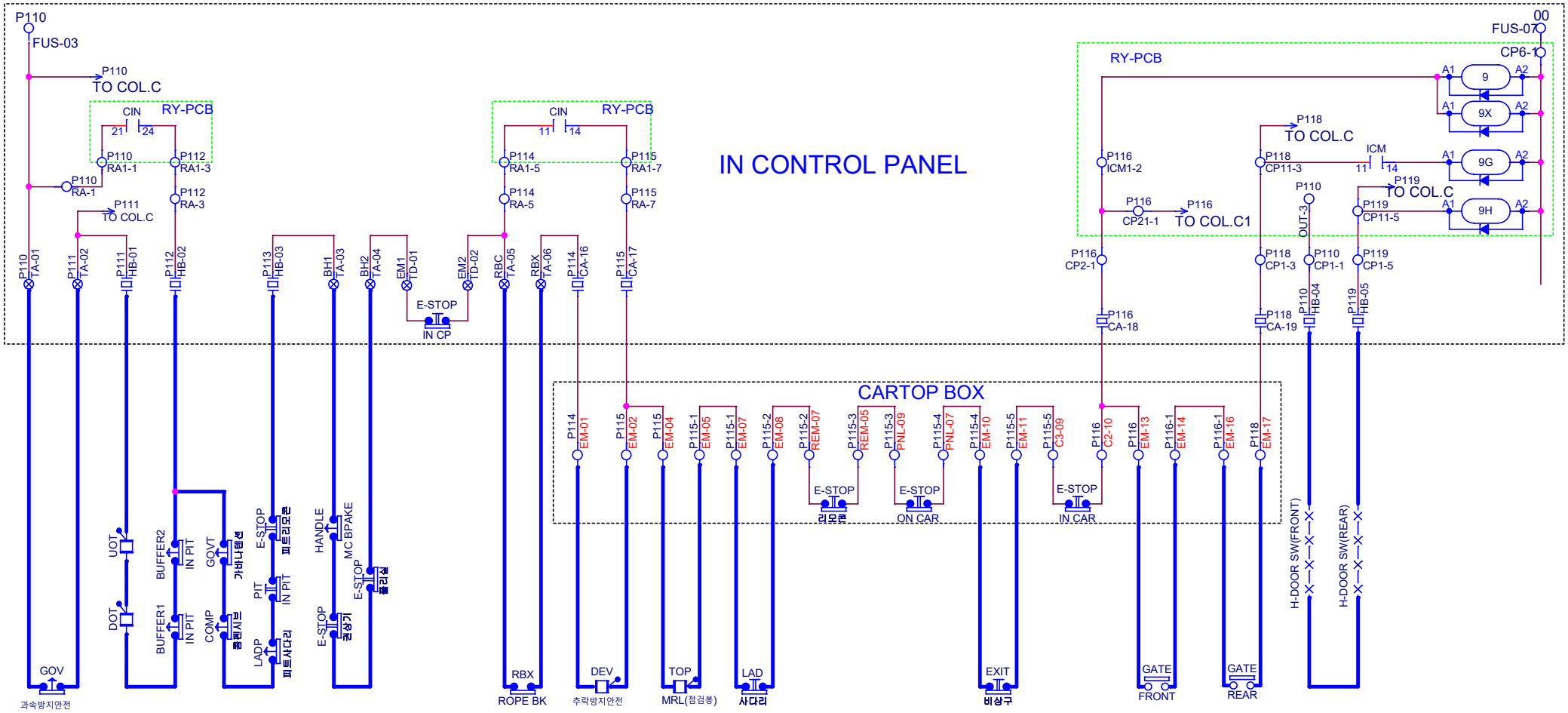
AS380-JP9		
NO	NAME	DEFINITION
01	X10	BK확인스위치1
02	X11	BK확인스위치2
03	X12	MTH스위치확인
04	X13	DR-FREE OP
05	X14	DOOR ZONE
06	X15	FIRE RETURN
07	X16	EQ INPUT
08	X17	DOOR SW검출
09	X18	SLUM INPUT
10	X19	SLDM INPUT
11	X--	spare
12	X--	spare

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+

DRWN BY	J.H.KWAK	APPD BY	E.K.JANG
FIELD		TITLE	INSPECTION CIRCUIT
Size: Custom	Document Number: EXP-E-202206-01	(주)익스프레스리프트	Rev: V11
Date:		Sheet 2 of 10	

COL.B3(안전회로)



EM(안전회로)		
NO	NAME	DEFINITION
01	P114	DEVICE-1
02	P115	DEVICE-2
03	PE	EARTH
04	P115	MRL-GUARD-1
05	P115-1	MRL-GUARD-2
06	PE	EARTH
07	P115-1	사다리안전스위치-1
08	P115-2	사다리안전스위치-2
09	PE	EARTH
10	P115-4	비상구안전스위치-1
11	P115-5	비상구안전스위치-2
12	PE	EARTH
13	P116	전면카도어안전-1
14	P116-1	전면카도어안전-2
15	PE	EARTH
16	P116-1	후면카도어안전-1
17	P118	후면카도어안전-2

DRWN BY	J.H.KWAK	APPD BY	E.K.JANG
FIELD		TITLE	SAFETY CIRCUIT
Size Custom	Document Number EXP-E-202206-01	(주)익스프레스리프트	Rev V11
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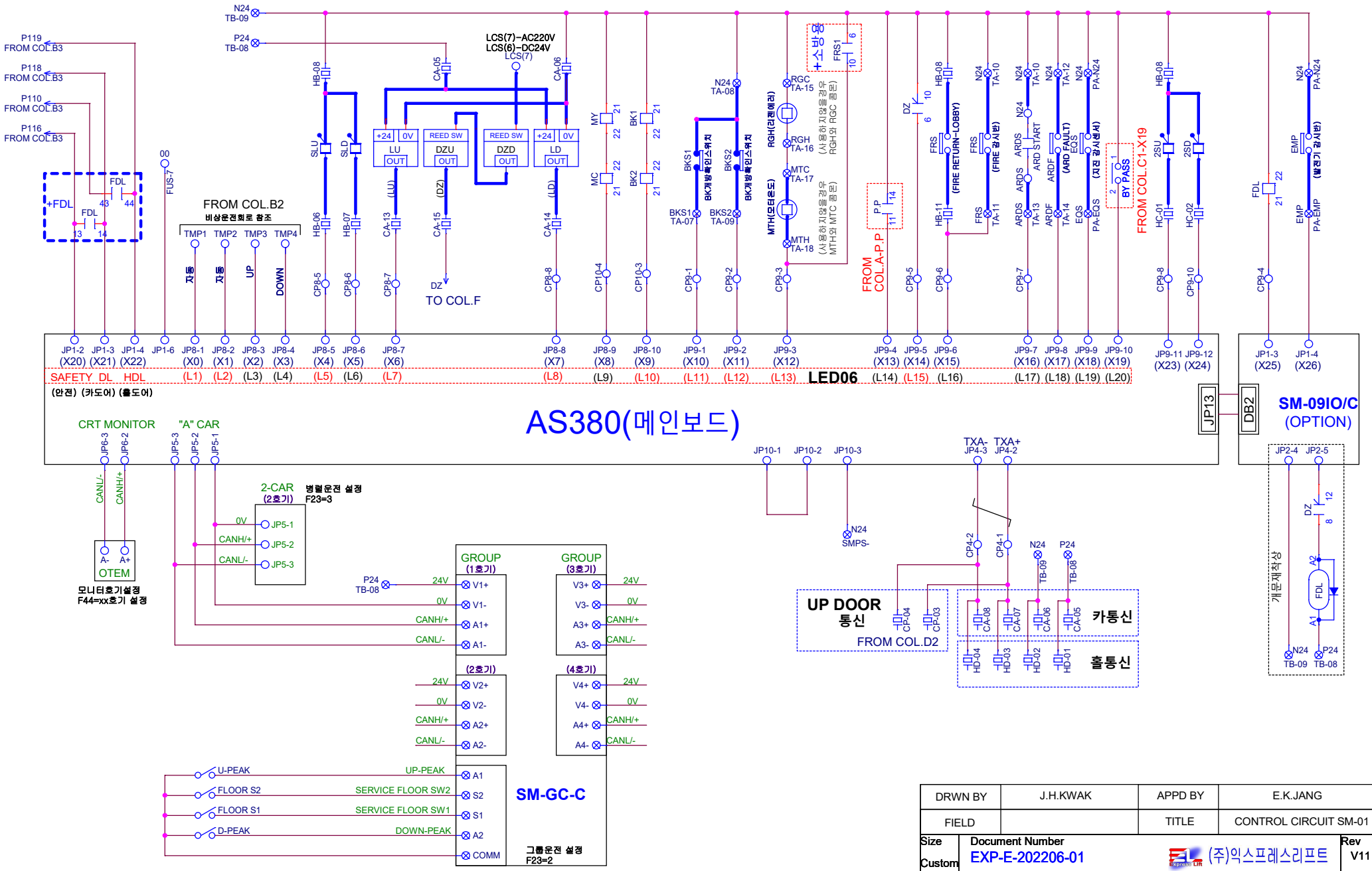
COL.C(인버터 입력신호,CRT)



DRWN BY	J.H.KWAK	APPD BY	E.K.JANG
FIELD		TITLE	CONTROL CIRCUIT SM-01
Size Custom	Document Number EXP-E-202206-01	(주)익스프레스리프트	Rev V11
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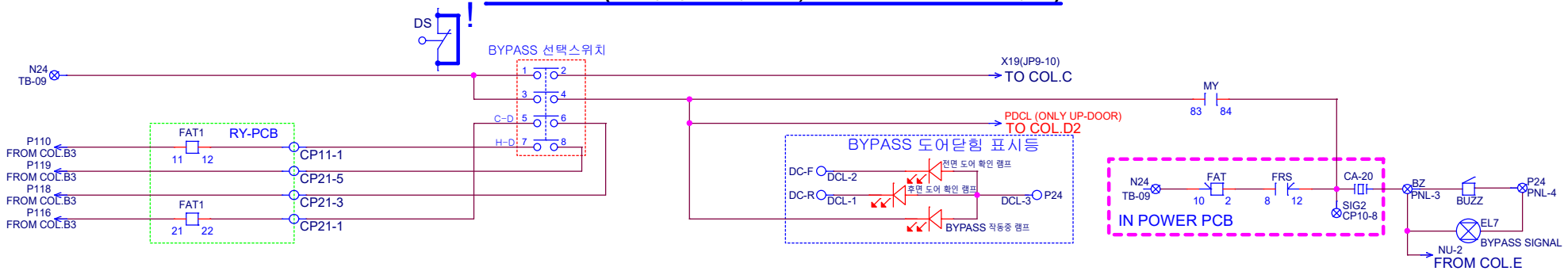
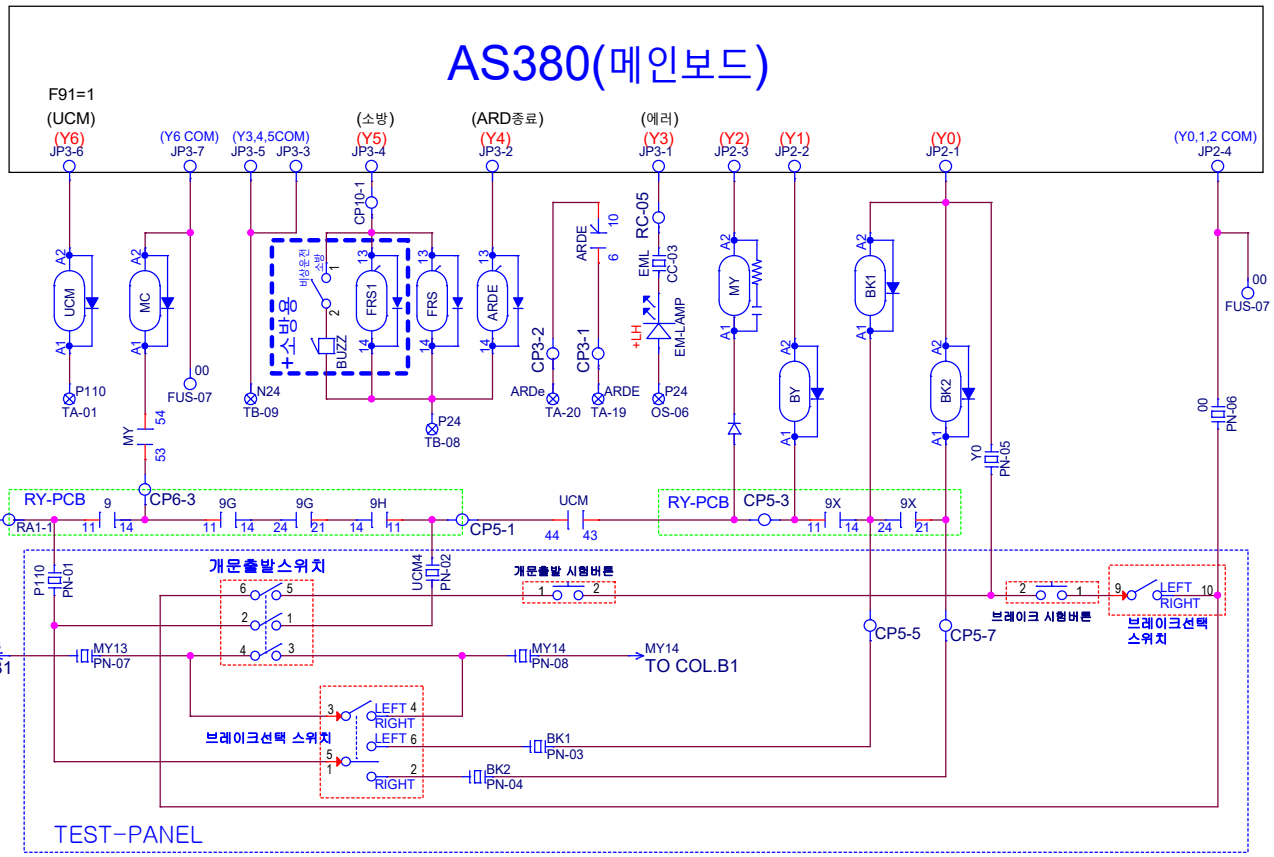
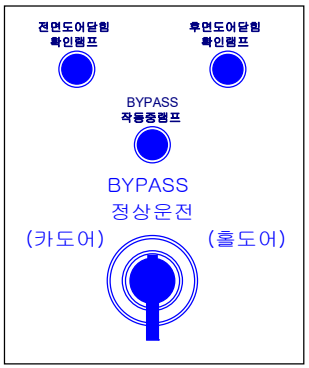
COL.C1(인버터 출력신호,TEST-PANEL회로)

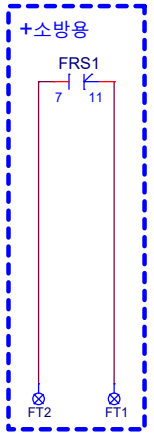




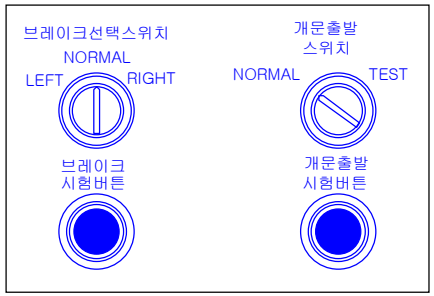
BYPASS TEST

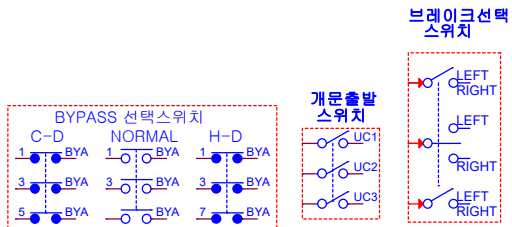


(소방 통화출력)



BRAKE & UCMP TEST





DRWN BY	J.H.KWAK	APPD BY	E.K.JANG
FIELD		TITLE	CONTROL CIRCUIT SM-01
Size Custom	Document Number EXP-E-202206-01	(주)익스프레스리프트	Rev V11
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COL.C2(BY PASS 사용 설명서)

BYPASS 및 TEST PANEL 사용설명서 (운전상태 모니터)

1. 도어 BYPASS 운전방법

1-1,제어반의 비상운전스위치를 비상운전으로 선택합니다.
1-2, BYPASS 선택스위치를 (카도어 /홀도어) 방향으로 전환합니다
1-3, BYPASS 상부의(전면도어.후면도어 LED) 로 해당도어의 닫힘상태를 확인하고 수동운전을 시행합니다.
카도어 바이패스시 전면도어LED ON (후면도어LED ON)일때만 운전가능합니다
1-4, 정상운전시에는 BYPASS 선택스위치를 반드시 NORMAL위치에 두어야 합니다.

2. 개별 BRAKE TEST: 100%하중적재 후 정격속도 하강

*** 카 정지상태에서 한개의 브레이크만 개방됨을 확인하는 방법**
1, 제어반의 비상운전스위치를 비상운전으로 합니다.
2, E-STOP버튼을 작동시켜 안전회로를 차단합니다(주의:안전회로 ON상태에서 테스트버튼을 누르면 양쪽 브레이크가 모두 개방되어 위험하므로 반드시 안전회로를 차단한 상태에서 테스트합니다.
3, 브레이크 선택 스위치로 개방할 브레이크 (LEFT/RIGHT) 를 선택한후 브레이크 시험버튼을 누르면 선택된 브레이크만 개방됩니다.

*** 주행중 한개의 브레이크만 제동됨을 확인하는 방법**
2-1, 브레이크 선택 스위치를 LEFT 위치로 합니다.
2-2, 100% 하중 적재 후 하강운전 합니다.
2-3, 카가 출발하면 브레이크 시험버튼을 테스트 완료시까지 누름상태로 유지 시킵니다.
2-4, 카가 정격속도에 도달하면 E-STOP 버튼을 작동 시킵니다(이때 선택된 방향의 브레이크는 계속 열려 있으며 반대편의 브레이크만 작동되어 카는 멈추게 됩니다)
2-5, 반대편 브레이크 테스트시 브레이크선택 스위치를 RIGHT 위치로 하고 상기 2-2~2-4 같이 실시합니다.

3. UCMP(개문 출발 테스트)

3-1, 전용운전 또는 자동운전 상태로 카도어,홀도어를 모두 열어둡니다.
3-2, 개문출발 스위치를 TEST방향으로 전환합니다.
3-3, 개문출발 시험버튼을 ON시켜 브레이크를 강제 개방 시킵니다
RESET방법: 초기화면에서 엔터치고 다운방향키로 "RESET"을 선택-RESET모드에서 "RST Ropebrake"를 선택후 엔터치면 "Success"로 표시되면 완료.

4. 완충기 충돌 테스트 100%하중115%속도 상태에서 정격속도하강

4-1.적재하중 100% 적재후 최하층 레벨에서 약 3~5m 상부위치에 카 정지시킨다
(카 자중에 따른 속도 115%지점을 찾기위해 3~5m 거리확보가요구됨)
4-2, 개문출발 스위치를 TEST방향으로 전환합니다.
개문출발 시험버튼을 ON시켜 브레이크를 강제 개방 시킵니다
4-3, 테스트후 완충기 안전스위치를 복구합니다

5. 추락방지장치 테스트: (조속기,디바이스)100%하중 상태에서 정격속도하강

5-1, 카를 최상층에 위치합니다
5-2, 제어반의 "GOV TEST" 스위치를 "TEST" 방향으로 전환합니다.
5-3, 정격속도 하강 운전중 제어반 내 조속기 토글S/W를 작동으로 선택하여 과속 조절기를 작동 시킵니다.
5-4, 과속 조절기가 작동 되면 추락 방지 장치가(디바이스)작동되고 카는 급정지 합니다.

6. 추락방지장치 테스트: (조속기,디바이스) 자유낙하시험 100%하중

6-1, 카를 최상층에 위치합니다
6-2, 카도어,홀도어 닫힘 확인(비상운전으로전환)
6-3, 비상운전 상태에서 개문출발 S/W TEST로 전환
6-4, 개문출발시험버튼 누름시 자유낙하시작

7, ACOP(상승과속방지장치 테스트)

7-1, F206(전동기 정격회전수)을 정격회전수의 135%로 설정합니다.
7-2, 카를 출발시키면 정격속도의 135%속도로 주행하게 되며 과속조절기에 의해 카는 정지합니다.
* 테스트시 안전을 위하여 승강장 호출과 도어작동을 무효화 시키려면 F165=2로 설정하면 됩니다.
설정방법: bit 데이터이므로 F165에서 엔터 후 -*--/----/----/----/으로 수정 후 엔터

속도135% 설정방법 : F206설정값. F206 X 1.35=XXX F206 에 XXX값 입력

8. ACOP(상승과속방지장치 테스트)자유상승시험 무부하

8-1, 카를 최하층에 위치합니다
8-2, 카도어,홀도어 닫힘 확인(비상운전으로전환)
8-3, 비상운전 상태에서 개문출발 S/W TEST로 전환
8-4, 개문출발시험버튼 누름시 자유상승시작

동기전동기의 경우 개문출발 테스트,자유낙하 테스트시 발전제동회로 제거합니다
(MY 접촉기 보조접점 61,71제거 단말처리 감전위험)

9. PIT RESET방법 설명서

9-1, 피트점검 완료후 최하층 도어를 열고 복도로 나옵니다.
9-2, 홀도어 닫힘을 확인 후 최하층 외부버튼 하부에 PIT RESET키를 수초간 ON위치로 전환한다.
9-3, PIT RESET키를 원위치 시키면 자동운전으로 복귀됩니다.

테스트판넬과 휴대용 결함 확인장치는 반드시 각 승강기 마다 비치되어 있어야 합니다

COL.D1(앞문 카 도어)

ON CAR DOOR CONTROL BOX

G : GATE FRONT DOOR
B : BACK GATE DOOR

F : FRONT HALL DOOR
R : REAR HALL DOOR

DCB-F

SM-02/H

On Car

G-DOOR INVERTER

FRONT C-DOOR

UP-DOOR1

DC24V SOLENOID전원 SMPS추가분

On delay timer 15sec

On delay timer 2sec

On delay timer 2sec

(OVERLOAD)

전면 도어일때 점퍼핀 연결

INV	
NO	SIGNAL
INV-01	GMR
INV-02	GMS
INV-03	U
INV-04	V
INV-05	W
INV-06	COM
INV-07	FWD
INV-08	REV
INV-09	P3
INV-10	P4

M100 DATA	
NO	SETTING
SPD	50
ACC	1.5
DEC	1.2
DRV	1
FRQ	0
bA50	15Hz
bA51	15Hz

DT단자대	
NO	SIGNAL
DT-01	N24K
DT-02	GDOL
DT-03	GDCL
DT-04	GSOL
DT-05	P24
DT-06	N24
DT-07	N24
DT-08	GDU
DT-09	GDV
DT-10	GDW
DT-11	SIG3

GA-09P	
NO	SIGNAL
GA-01	P24
GA-02	GCL
GA-03	GOP
GA-04	N24
GA-05	GDCL
GA-06	GDOL
GA-07	GMR
GA-08	GMS
GA-09	PE

제어반용	
NO	SIGNAL
CP-01	P24
CP-02	N24
CP-03	TXA+
CP-04	TXA-
CP-05	BK2
CP-06	PDCL
CP-07	DZ5
CP-08	DZ9
CP-09	GPTC
CP-10	OL
CP-11	BPTC
CP-12	MR
CP-13	MS
CP-14	USE
CP-15	--
CP-16	--
CP-17	--

CE-13P	
NO	SIGNAL
CE-01	FSOL
CE-02	DZ5
CE-03	DZ9
CE-04	GC10
CE-05	GC2
CE-06	FP1
CE-07	FP2
CE-08	SIG3
CE-09	RSOL
CE-10	BC10
CE-11	BC2
CE-12	RP1
CE-13	RP2

BUZZER	
NO	SIGNAL
BUZ-1	P24
BUZ-2	N24
BUZ-3	GPTC
BUZ-4	BPTC
BUZ-5	FPTH
BUZ-6	RPTH
BUZ-7	SIG3
BUZ-8	BK2

MC	
NO	SIGNAL
MC-01	GOP-A1
MC-02	GOP-A2
MC-03	GOP-13
MC-04	GOP-14
MC-05	GOP-43
MC-06	GOP-44
MC-07	K24-A1
MC-08	K24-A2
MC-09	K24-31
MC-10	K24-32
MC-11	K24-22
MC-12	K24-21
MC-13	K24-13
MC-14	K24-14
MC-15	N24K

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(주)익스프레스리프트

COL.D2(홀 도어)

기계실 보조 BOX

CP용	
NO	SIGNAL
CP-01	P24
CP-02	N24
CP-03	TXA+
CP-04	TXA-
CP-05	BK2
CP-06	PDCL
CP-07	DZ5
CP-08	DZ9
CP-09	GPTC
CP-10	OL
CP-11	BPTC
CP-12	MR
CP-13	MS
CP-14	USE
CP-15	--
CP-16	--

ME	
NO	SIGNAL
ME-01	P24
ME-02	N24
ME-03	RPTH
ME-04	PDCL
ME-05	MR
ME-06	MS

FA-09P	
NO	SIGNAL
FA-01	1F
FA-02	2F
FA-03	3F
FA-04	4F
FA-05	5F
FA-06	6F
FA-07	7F
FA-08	8F
FA-09	

FB-09P	
NO	SIGNAL
FB-01	1FA
FB-02	2FA
FB-03	3FA
FB-04	4FA
FB-05	5FA
FB-06	6FA
FB-07	7FA
FB-08	8FA
FB-09	

FC 콘넥터의 사용방법

STOP	FC
2~5층	13P
6~9층	21P

FC-21P	
NO	SIGNAL
FC-01	FU
FC-02	FV1
FC-03	FW1
FC-04	FV2
FC-05	FW2
FC-06	FV3
FC-07	FW3
FC-08	FV4
FC-09	FW4
FC-10	FV5
FC-11	FW5
FC-12	FV6
FC-13	FW6
FC-14	FV7
FC-15	FW7
FC-16	FV8
FC-17	FW8
FC-18	FV9
FC-19	FW9
FC-20	PE
FC-21	

FD-07P	
NO	SIGNAL
FD-01	P24
FD-02	N24
FD-03	FPTH
FD-04	
FD-05	FDOL
FD-06	FDCL
FD-07	OL

FE-09P	
NO	SIGNAL
FE-01	1SOL
FE-02	2SOL
FE-03	3SOL
FE-04	4SOL
FE-05	5SOL
FE-06	6SOL
FE-07	7SOL
FE-08	8SOL
FE-09	

MOREX 6P

DH	
NO	SIGNAL
DH-01	P24
DH-02	N24
DH-03	OL
DH-04	RPTH
DH-05	--

CA11-F	
NO	SIGNAL
CA11-1	USE
CA11-2	FDCL
CA11-3	FDOL
CA11-4	FPTH
CA11-5	TXA+
CA11-6	TXA-

SEL-IN	
NO	SIGNAL
IN-01	1F
IN-02	2F
IN-03	3F
IN-04	4F
IN-05	5F
IN-06	6F
IN-07	7F
IN-08	8F
IN-09	9F

SEL-OUT	
NO	SIGNAL
OUT-1	1F
OUT-2	2F
OUT-3	3F
OUT-4	4F
OUT-5	5F
OUT-6	6F
OUT-7	7F
OUT-8	8F

SEL-OUT	
NO	SIGNAL
OUT-1	1R
OUT-2	2R
OUT-3	3R
OUT-4	4R
OUT-5	5R
OUT-6	6R
OUT-7	7R
OUT-8	8R

M100 DATA	
NO	SETTING
SPD	50
ACC	1.5
DEC	1.2
DRV	1
FRQ	0
bA50	15Hz
bA51	15Hz

SM-09 -CA11

SELECTOR PCB

F-DOOR INVERTER

On delay timer 2sec

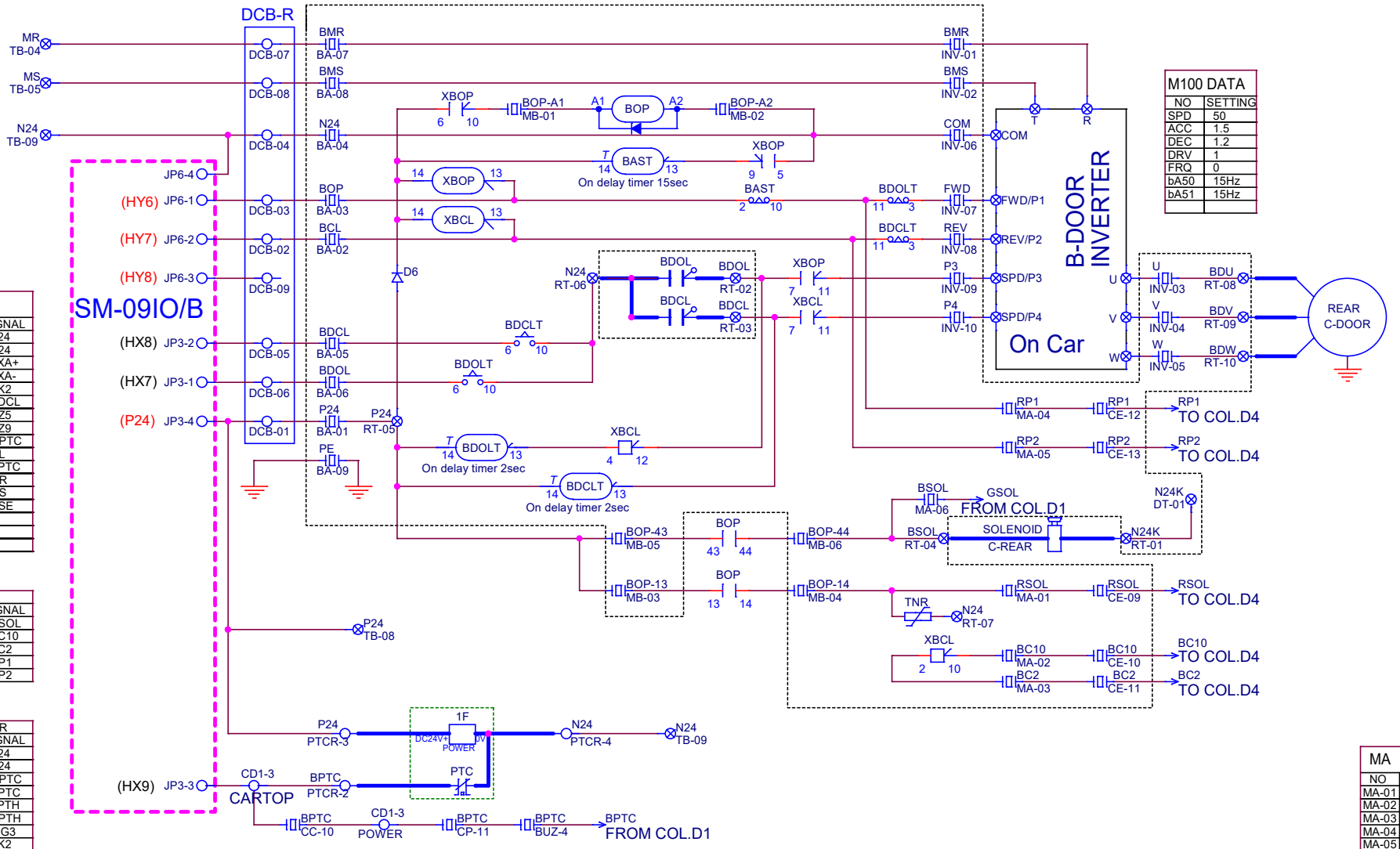
On delay timer 2sec

COL.D3(뒷문 카도어)

ON CAR DOOR CONTROL BOX

G : GATE FRONT DOOR
B : BACK GATE DOOR

F : FRONT HALL DOOR
R : REAR HALL DOOR



CP용	
NO	SIGNAL
CP-01	P24
CP-02	N24
CP-03	TXA+
CP-04	TXA-
CP-05	BK2
CP-06	PDCL
CP-07	DZ5
CP-08	DZ9
CP-09	GPTC
CP-10	OL
CP-11	BPTC
CP-12	MR
CP-13	MS
CP-14	USE
CP-15	--
CP-16	--
CP-17	--

MR	
NO	SIGNAL
MR-01	RSOL
MR-02	BC10
MR-03	BC2
MR-04	RP1
MR-05	RP2

BUZZER	
NO	SIGNAL
BUZ-1	P24
BUZ-2	N24
BUZ-3	GPTC
BUZ-4	BPTC
BUZ-5	FPTH
BUZ-6	RPTH
BUZ-7	SIG3
BUZ-8	BK2

M100 DATA	
NO	SETTING
SPD	50
ACC	1.5
DEC	1.2
DRV	1
FRQ	0
bA50	15Hz
bA51	15Hz

RT단자대	
NO	SIGNAL
RT-01	N24K
RT-02	BDOL
RT-03	BDCL
RT-04	BSOL
RT-05	P24
RT-06	N24
RT-07	N24
RT-08	BDU
RT-09	BDV
RT-10	BDW

BA-09P	
NO	SIGNAL
BA-01	P24
BA-02	BCL
BA-03	BOP
BA-04	N24
BA-05	BDCL
BA-06	BDOL
BA-07	BMR
BA-08	BMS
BA-09	PE

CE-13P	
NO	SIGNAL
CE-01	FSOL
CE-02	DZ5
CE-03	DZ9
CE-04	GC10
CE-05	GC2
CE-06	FP1
CE-07	FP2
CE-08	SIG3
CE-09	RSOL
CE-10	BC10
CE-11	BC2
CE-12	RP1
CE-13	RP2

MA	
NO	SIGNAL
MA-01	RSOL
MA-02	BC10
MA-03	BC2
MA-04	RP1
MA-05	RP2
MA-06	GSOL

MOREX 8P

MB	
NO	SIGNAL
MB-01	BOP-A1
MB-02	BOP-A2
MB-03	BOP-13
MB-04	BOP-14
MB-05	BOP-43
MB-06	BOP-44
MB-07	--
MB-08	--

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COL.D4(뒷문 카도어)

RB-09P	
NO	SIGNAL
RB-01	1RA
RB-02	2RA
RB-03	3RA
RB-04	4RA
RB-05	5RA
RB-06	6RA
RB-07	7RA
RB-08	8RA
RB-09	9RA

RC 콘넥터의 사용방법

STOP	RC
2~5층	13P
6~9층	21P

RC-21P	
NO	SIGNAL
RC-01	RU
RC-02	RV1
RC-03	RW1
RC-04	RV2
RC-05	RW2
RC-06	RV3
RC-07	RW3
RC-08	RV4
RC-09	RW4
RC-10	RV5
RC-11	RW5
RC-12	RV6
RC-13	RW6
RC-14	RV7
RC-15	RW7
RC-16	RV8
RC-17	RW8
FC-18	FV9
FC-19	FW9
FC-20	PE
FC-21	

RD-07P	
NO	SIGNAL
RD-01	P24
RD-02	N24
RD-03	RPTH
RD-04	
RD-05	RDOL
RD-06	RDCL
RD-07	

RE-09P	
NO	SIGNAL
RE-01	SOL1
RE-02	SOL2
RE-03	SOL3
RE-04	SOL4
RE-05	SOL5
RE-06	SOL6
RE-07	SOL7
RE-08	SOL8
RE-09	SOL9

MOREX 6P

ME	
NO	SIGNAL
ME-01	P24
ME-02	N24
ME-03	RPTH
ME-04	PDCL
ME-05	MR
ME-06	MS

MOREX 6P

MR	
NO	SIGNAL
MR-01	RSOL
MR-02	BC10
MR-03	BC2
MR-04	RP1
MR-05	RP2

MOREX 12P

INV	
NO	SIGNAL
INV-01	GMR
INV-02	GMS
INV-03	U
INV-04	V
INV-05	W
INV-06	COM
INV-07	FWD
INV-08	REV
INV-09	P3
INV-10	P4

MOREX 4P

CA11-R	
NO	SIGNAL
11R-1	RDOL
11R-2	RDCL
11R-3	RPTH

M100 DATA	
NO	SETTING
SPD	50
ACC	1.5
DEC	1.2
DRV	1
FRQ	0
bA50	15Hz
bA51	15Hz

G : GATE FRONT DOOR
B : BACK GATE DOOR

F : FRONT HALL DOOR
R : REAR HALL DOOR

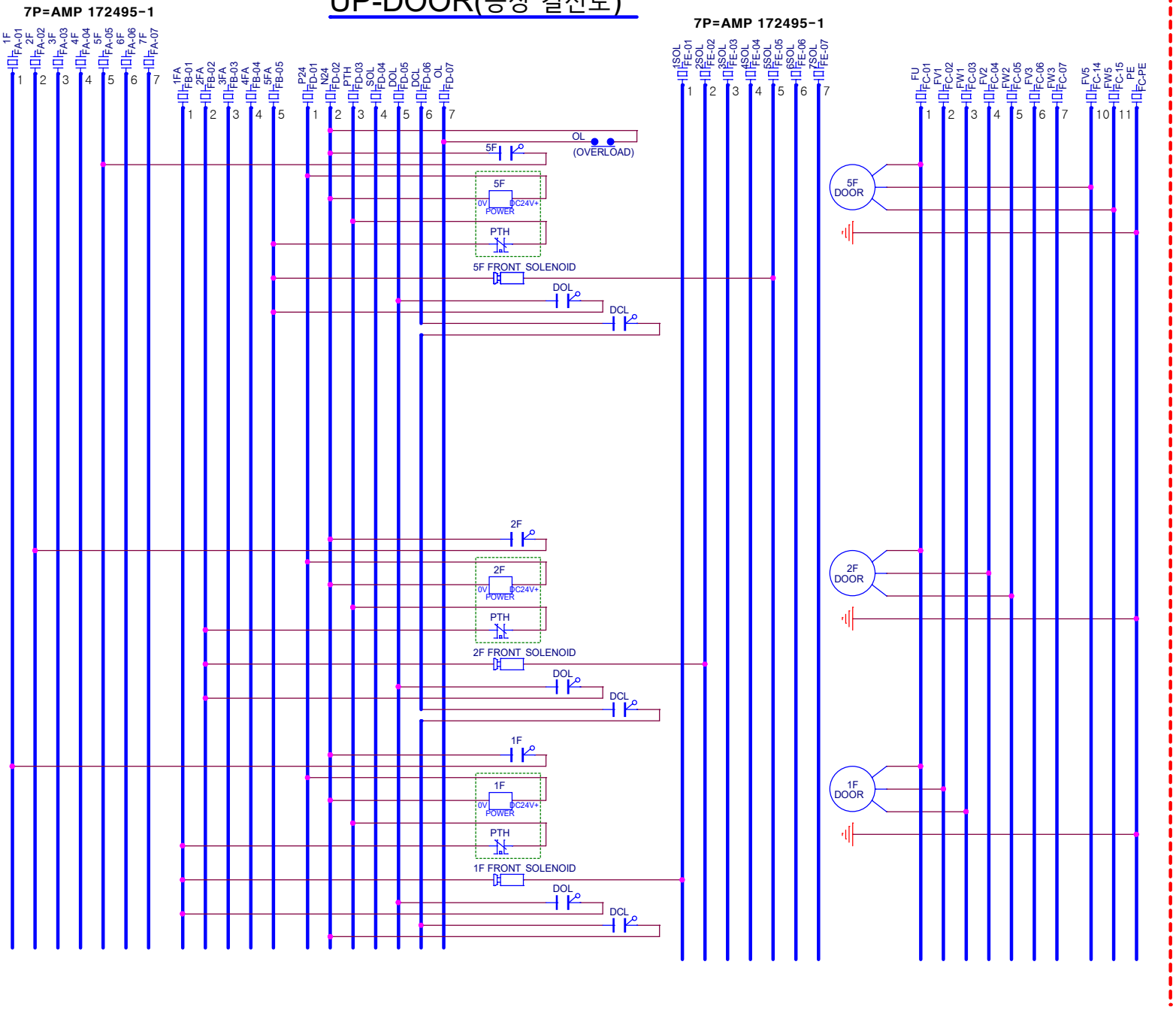
+REAR DOOR SM-09 -CA11

On delay timer 2sec

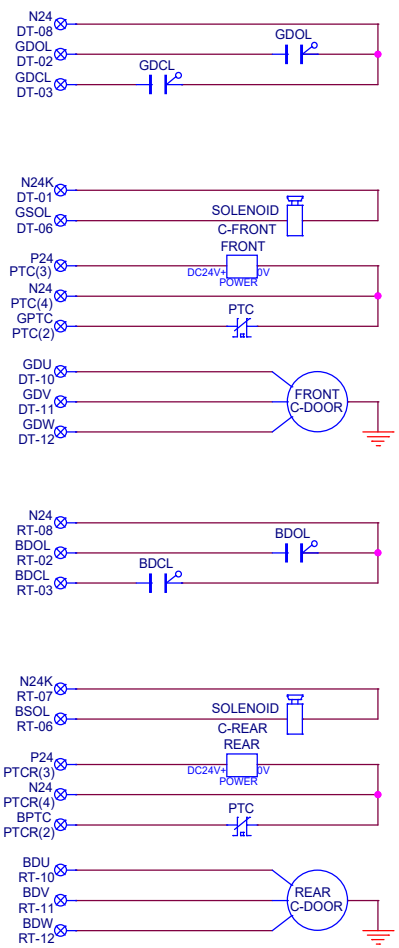
On delay timer 2sec

R-DOOR INVERTER

UP-DOOR(승장 결선도)



UP-DOOR(카도어 결선도)

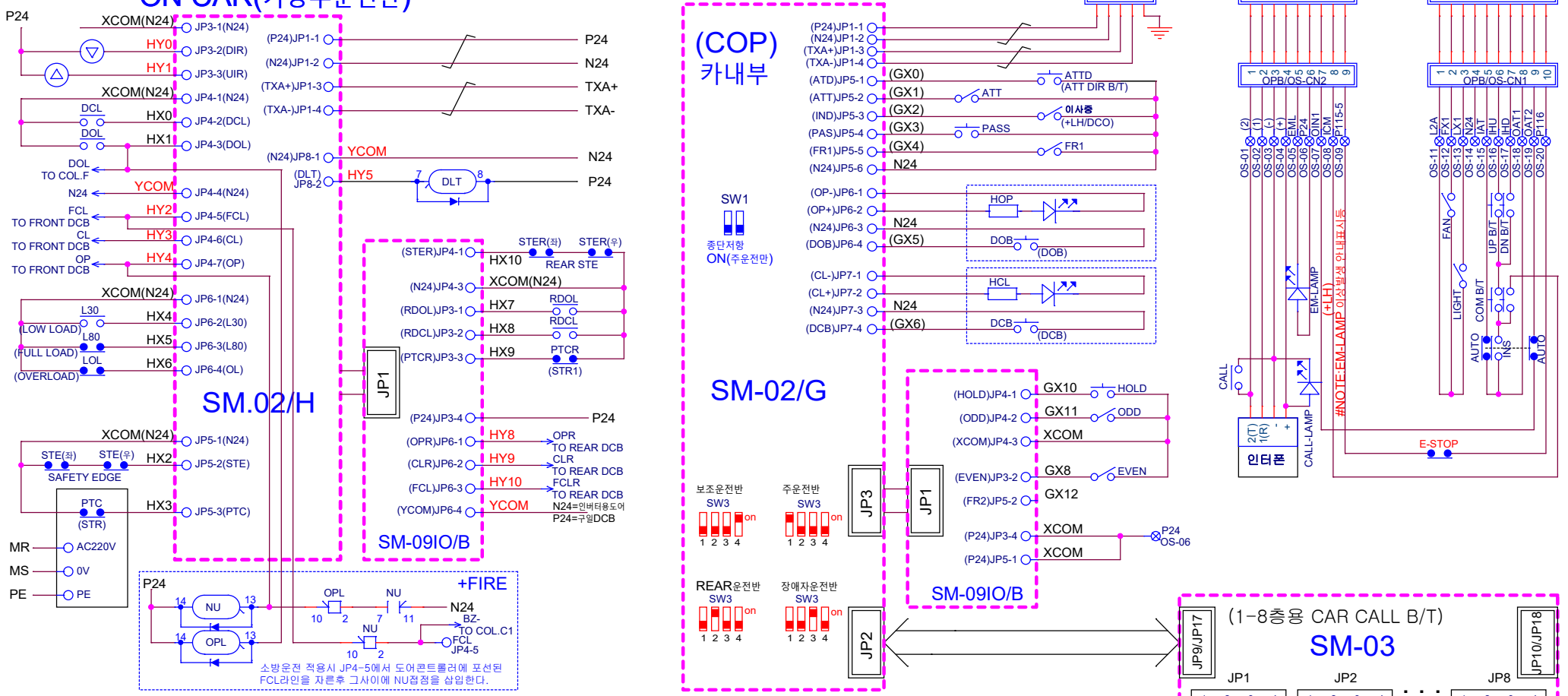


DT단자대	
NO	SIGNAL
DT-01	N24K
DT-02	GDOL
DT-03	GDCL
DT-04	
DT-05	
DT-06	GSOL
DT-07	P24
DT-08	N24
DT-09	N24
DT-10	GDU
DT-11	GDV
DT-12	GDW
DT-13	SIG3

RT단자대	
NO	SIGNAL
RT-01	N24K
RT-02	BDOL
RT-03	BDCL
RT-04	
RT-05	
RT-06	BSOL
RT-07	P24
RT-08	N24
RT-09	N24
RT-10	BDU
RT-11	BDV
RT-12	BDW

Size	Document Number	Rev
Custom	EXP-E-202206-01 (주)익스프레스리프트	V11
Date:	Sheet 4 of 10	

COL.E(카상부 SM.02/H,카내부 COP)



SM02/H-JP1

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

SM02/H-JP2

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

SM02/H-JP3

NO	NAME	DEFINITION
01	N24	HX0,1의 COM
02	DCL	HX0-CLOS END
03	DOL	HX1-OPEN END
04	YCOM	HY2,3의 COM
05	FCL	HY2-강제CLOSE
06	CL	HY3-CLOSE
07	OP	HY4-OPEN신호

SM02/H-JP4

NO	NAME	DEFINITION
01	N24	HX2,3의COM
02	STE	HX2-STE신호
03	PTC	HX3-PTC신호

SM02/H-JP5

NO	NAME	DEFINITION
01	N24	HX4,5,6의 공통
02	L30	HX4-L30%
03	L80	HX5-L80%
04	LOL	HX6-OVERLOAD

SM02/H-JP6

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+

SM02/H-JP7

NO	NAME	DEFINITION
01	N24	HX10,11의 공통
02	DLT	HY5-DLT출력

SM02/H-JP8

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

SM09IO/B-JP3(REAR)

NO	NAME	DEFINITION
01	RSTE	HX10-R STE
02	--	HX11--
03	N24	HX10,11의 공통

SM09IO/B-JP4(REAR)

NO	NAME	DEFINITION
01	--	HX12--
02	N24	HX12의 공통

SM09IO/B-JP5(REAR)

NO	NAME	DEFINITION
01	OPR	HY8-R OPEN
02	CLR	HY9-R CLOSE
03	NUD	HY10-R NUDG
04	YCOM	HY8~10의 공통

SM09IO/B-JP6(REAR)

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

SM09IO/B-JP7(REAR)

NO	NAME	DEFINITION
01	--	HY12--
02	YCOM	HY12의 공통

SM09IO/B-JP8(REAR)

NO	NAME	DEFINITION
01	--	HY13--
02	YCOM	HY13의 공통

SM09IO/B-JP9(REAR)

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

SM02/G-JP1(OPB)

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	N24	GX0-4의 공통

SM02/G-JP5(OPB)

NO	NAME	DEFINITION
01	OP-	OPEN LAMP-
02	OP+	OPEN LAMP+
03	DOB	GX5-OPEN B/T
04	N24	OPEN B/T

SM02/G-JP6(OPB)

NO	NAME	DEFINITION
01	CL-	CLOS LAMP-
02	CL+	CLOS LAMP+
03	DCB	GX6-CLOSE B/T
04	N24	CLOSE B/T

SM02/G-JP7(OPB)

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

SM09IO/B-JP3(OPB)

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

SM09IO/B-JP4(OPB)

NO	NAME	DEFINITION
01	XCOM	GX12의 공통
02	GX12	GX12-FR2

SM09IO/B-JP5(OPB)

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

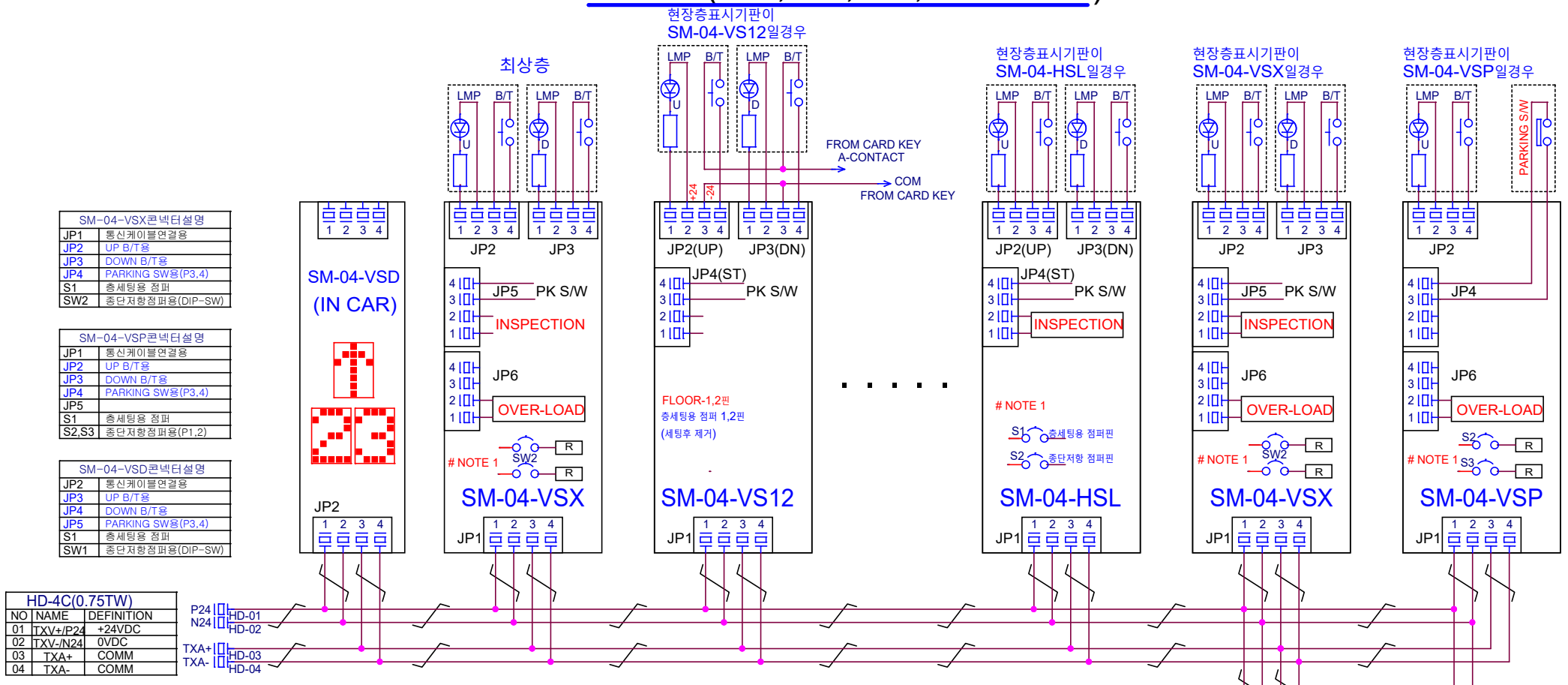
SM09IO/B-JP6(OPB)

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

SM09IO/B-JP7(OPB)

DRWN BY	J.H.KWAK	APPD BY	E.K.JANG
FIELD		TITLE	CONTROL CIRCUIT SM-02
Size Custom	Document Number EXP-E-202206-01	(주)익스프레스리프트	Rev V11
Date:		Sheet 5 of 10	

COL.F(CPI,HPI,HIB,비상통화장치)



SM-04-VSX콘넥터설명	
JP1	통신케이블연결용
JP2	UP B/T용
JP3	DOWN B/T용
JP4	PARKING SW용(P3,4)
S1	층세팅용 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	층세팅용 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	층세팅용 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

P24 HD-01
N24 HD-02
TXA+ HD-03
TXA- HD-04

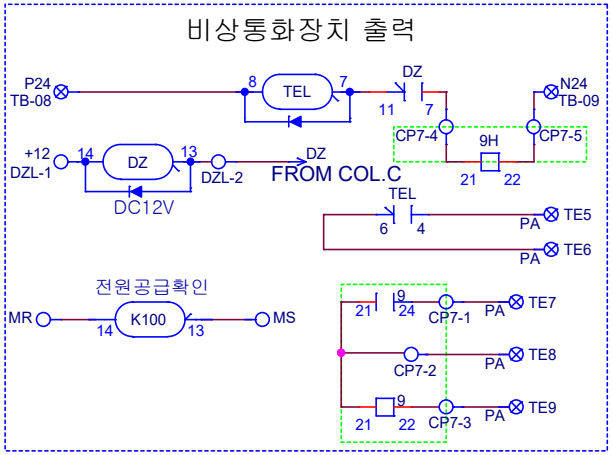
 # NOTE 1

피트 점검운전 박스에서 통신용 종단저항 설정 되어 있으니 기타층 에서는 종단 설정하지 않습니다.

SM-04 PCB FLOOR ADDRESS 입력방법

S1 JUMPER PIN1,2번에 점퍼핀이 꽂힌 상태에서 외부버튼 UP/DOWN을 누르면 디지탈에 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.



DRWN BY	J.H.KWAK	APPD BY	E.K.JANG
FIELD		TITLE	HALL CALL CIRCUIT SM-04
Size: Custom	Document Number: EXP-E-202206-01	(주)익스프레스리프트	Rev: V11
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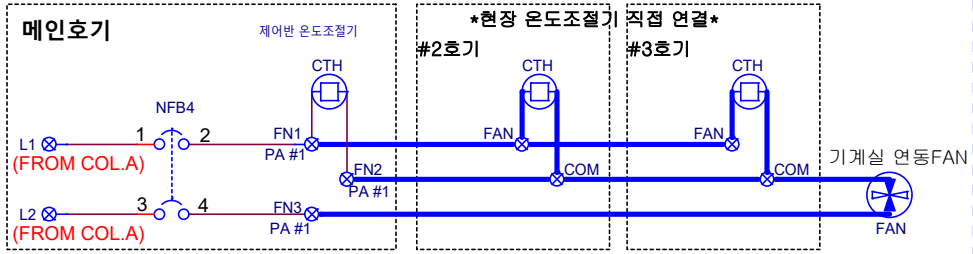
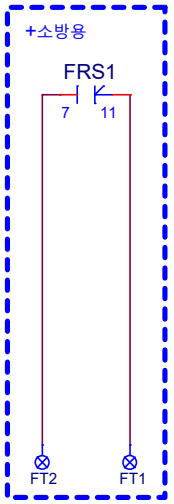
COL.F1(LH 사양및 옵션)

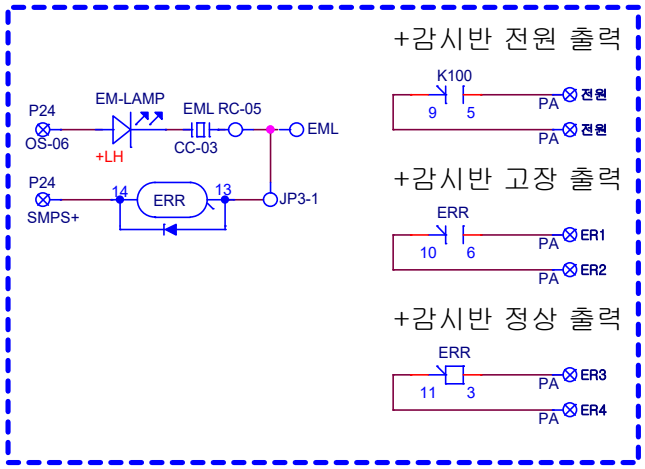
(+LH 연동FAN)



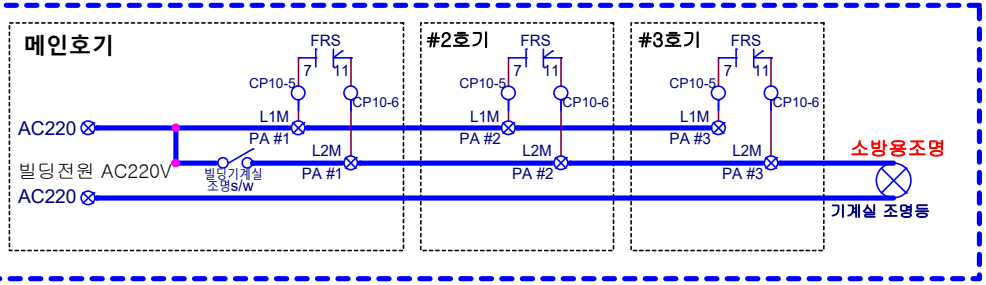
(소방 통화출력)



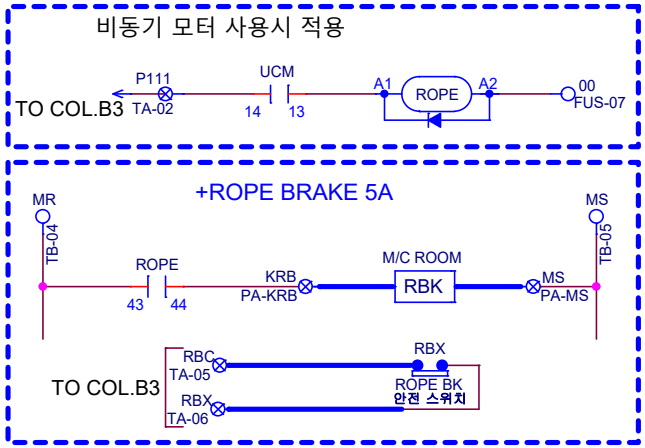
(+LH,철도사양)



(소방용 조명 적용)

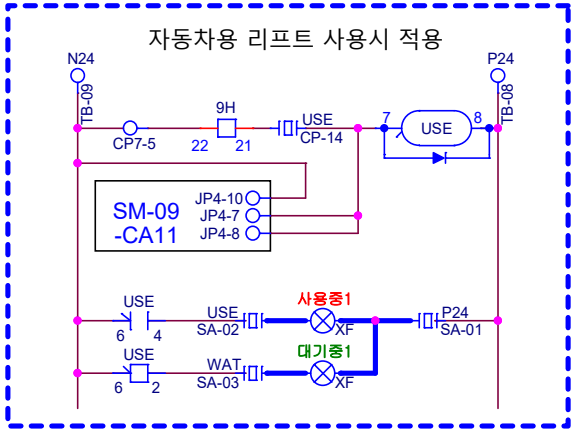


(로프 브레이크 적용)



휴먼앤티 로프브레이크의 로프브레이크
안전스위치단자는 RD4,RD5입니다.

(CAR LIFT용)



DRWN BY	J.H.KWAK	APPD BY	E.K.JANG
FIELD		TITLE	HALL CALL CIRCUIT SM-04
Size Custom	Document Number EXP-E-202206-01	(주)익스프레스리프트	Rev V11
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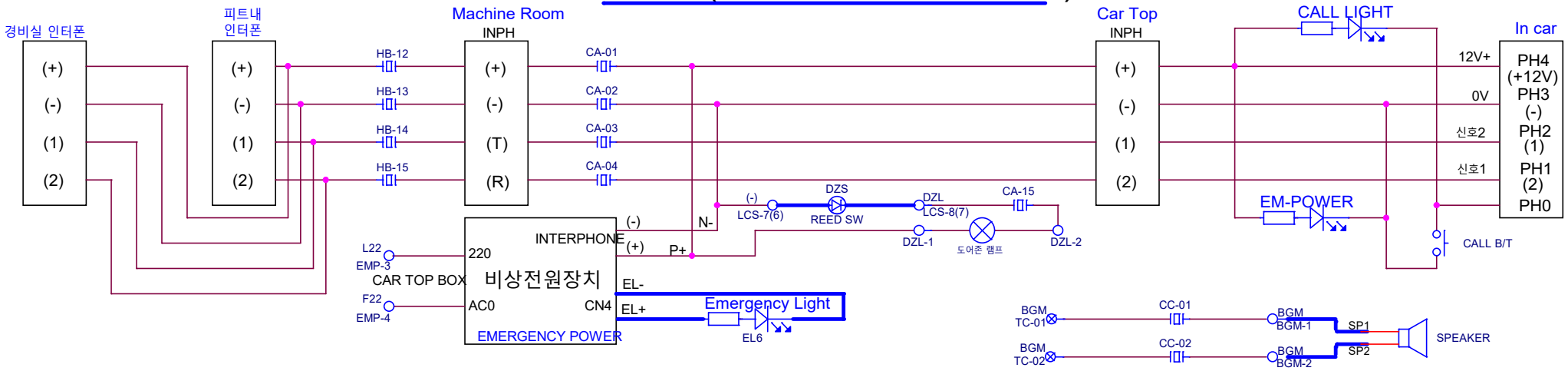
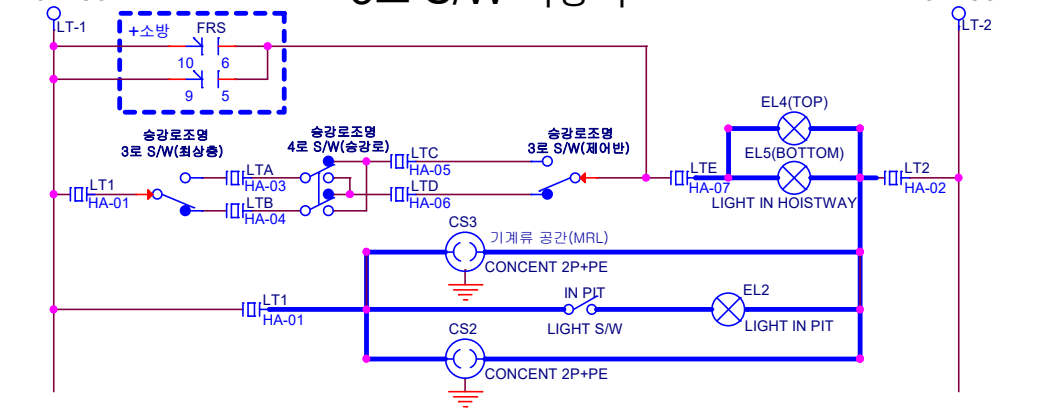
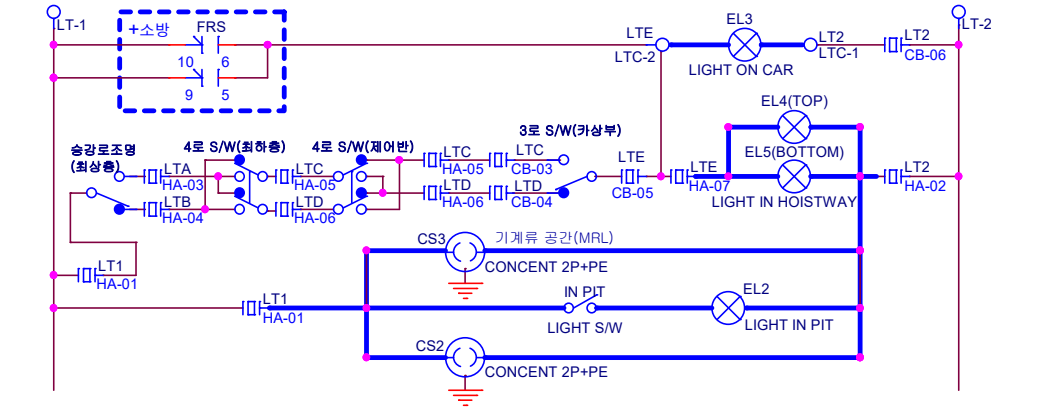
COL.G(3로,4로 스위치,인터폰,조명)

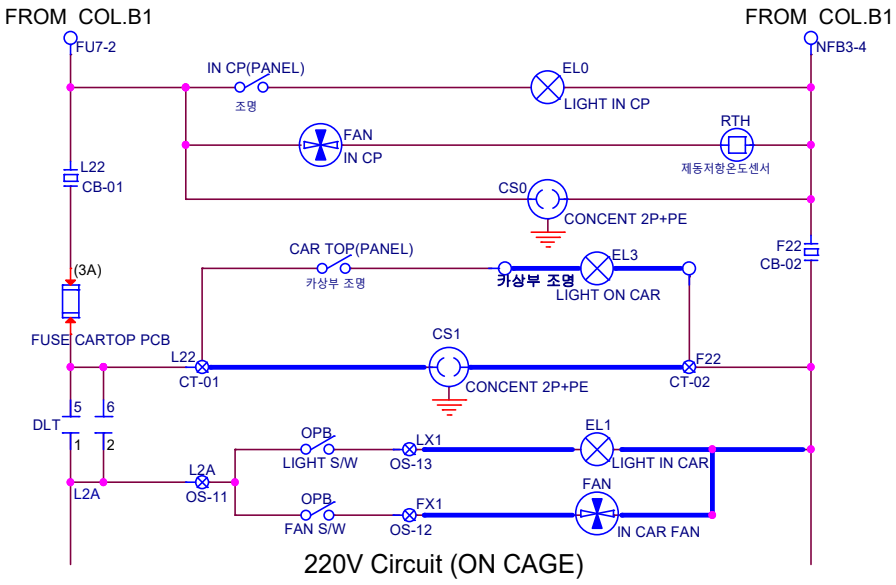


3로 S/W 적용시



4로 S/W 적용시





220V Circuit (ON CAGE)

DRWN BY	J.H.KWAK	APPD BY	E.K.JANG
FIELD		TITLE	LIGHT CIRCUIT
Size Custom	Document Number EXP-E-202206-01	(주)익스프레스리프트	Rev V10
Date:		Sheet 7 of 10	

COL.H (결선도요약)

케이블 사양

HA,HB,HC용(승강로케이블 25C(27C)x0.75SQ)
HD (승강통신용 4Cx0.5SQ SHEILDED)

MAIN
R,S,T,E

CONTROL PANEL

INV
PM
PA
TA
HA
HB
HC
HD
CC
CB
CA
Traveling cable

M/C ROOM
ENC
U
V
W
P110
P111
BK1
BK2
BK3
MTH
BKS1
BKS2
N24
MOTOR
ENC
GOV
BRAKE1
BRAKE2
MTH
개방확인1
개방확인2

HA, 승강로
HB, 승강로
HC 승강로케이블
HD-승강통신

PM단자대(동력단자대)

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

승강로
케이블번호 TOP

07 / 02	LIGHT(상부)	LT(상부)
08 / 08	UOT	UOT
13 / 15	SLU	SLU
25 / 15	2SU	2SU
01 / 02	콘센트(머쉰룸)	CONCENT ON M/R
04 / 01 / 03	LTA	LTB / LT1(공통) / LTA

속도120M/MIN이상 현장에 적용

승강로케이블 25Cx0.75SQ

HA-7P

NO	NAME	DEFINITION
01	LT1	AC220V IN PIT
02	LT2	AC220V IN PIT
03	LTA	LIGHT 3 WAY
04	LTB	LIGHT 3 WAY
05	LTC	LIGHT 3 WAY
06	LTD	LIGHT 4 WAY
07	LTE	LIGHT 4 WAY

HB-17P

NO	NAME	DEFINITION
08	P111	Safety UOT
09	P112	Safety BUFF
10	P113	Safety PIT
11	P110	Safety START
12	P119	H DOOR-LOCK
13	SLU	Slow-down(up)
14	SLD	Slow-down(dn)
15	N24	0VDC
16	PAT	AUTO IN PIT
17	PCM	INS COM
18	FRS	FIRE RETURN
19	(+)	INTERPHONE+
20	(-)	INTERPHONE-
21	T	INTERPHONE
22	R	INTERPHONE
23	PE	EARTH
24	EQS	EQ SIGNAL

HC-5P

NO	NAME	DEFINITION
25	2SU	Slow-down(up1)
26	2SD	Slow-down(dn1)
27	WAT	Water Level s/w
28	3SU	Slow-down(up2)
29	3SD	Slow-down(dn2)

HD-4C(0.75TW)

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

승강로
케이블번호 11 12 23

CAR TOP OPB

CA
CB
CC

T1	DCB-R	R-DOOR CONTROLLER
T2	DCB-F	F-DOOR CONTROLLER
EM	EXIT	비상구출구 SW
	DEV	DEVICE SWITCH
T5	GATE-F	GATE SWITCH
T6	PTC-F	BEAM SENSOR
T7	STE-F	SAFETY EDGE
T8	LOAD	LOAD SWITCH
T9	LIGHT	LIGHT
T10	FAN	FAN
T11	LCS	착상장치
T12	EMP	비상전원장치
T14	GUR	안전난간대
BGM	BGM	BGM SPEAKER
SPK2	음성	음성안내 SPEAKER

EM-LIGHT

CPI-F C1 C2 C3 CPI-R

SM-02/H
SM-09 IO
CPI

OPB cable NO1 - 통신케이블
OPB cable NO2
OPB cable NO3

장애자운전반 박스
SM-02/G
SM-03
JP1
1F
장애자 운전반
TF

INTER PHONE
TE1
TE2
TE3
TE4
OPEN
CLOSE

C1 C2 C3
IAT
IHU
IHD
N24
AUTO IN CAR
UP
DN
P116
P117
E-STOP
LX1
FX1
L2A
LIGHT SW
FAN SW
JP2

IN CAR COP
SM-03
JP9
JP10
1F
TF

BRANCH CABLE - HCN
BRANCH CABLE - HC2
BRANCH CABLE-HC1
INTERLOCK
INTERLOCK
INTERLOCK

BRANCH CABLE - HDN
BRANCH CABLE - HD2
BRANCH CABLE - HD1

SM-04
JP1
JP2
JP4
JP3
PARKING
DOWN CALL
UP CALL

JP1 PIT INSPECTION판넬

03 / 05 / 04 / 06	LTB	LTA / LTC / LTB / LTD
24 / 15	FRS	FIRE RETURN / 비상용승강기선택사양
26 / 15	2SD	2SD
14 / 15	SLD	SLD
08 / 08	DOT	DOT
08 / 09	버퍼	BUFFER
09 / 09	G-텐션	G텐션
09 / 09	침수	침수
09 / 09	피트 사다리 안전	LADP
09 / 09	PIT-STOP	PIT SW
09,10,16,17	PIT 운전반	PIT 운전반
01 / 02 / 23	PIT-LIGHT	LIGHT SW / PIT LIGHT
07 / 02	LIGHT(하부)	LT(하부)
19,20,21,22	INTERPHONE	INTER PHONE

최하층 라이트 4로 S/W

속도120M/MIN 이상 현장에 적용

사용하지않을경우 점퍼시켜야합니다.

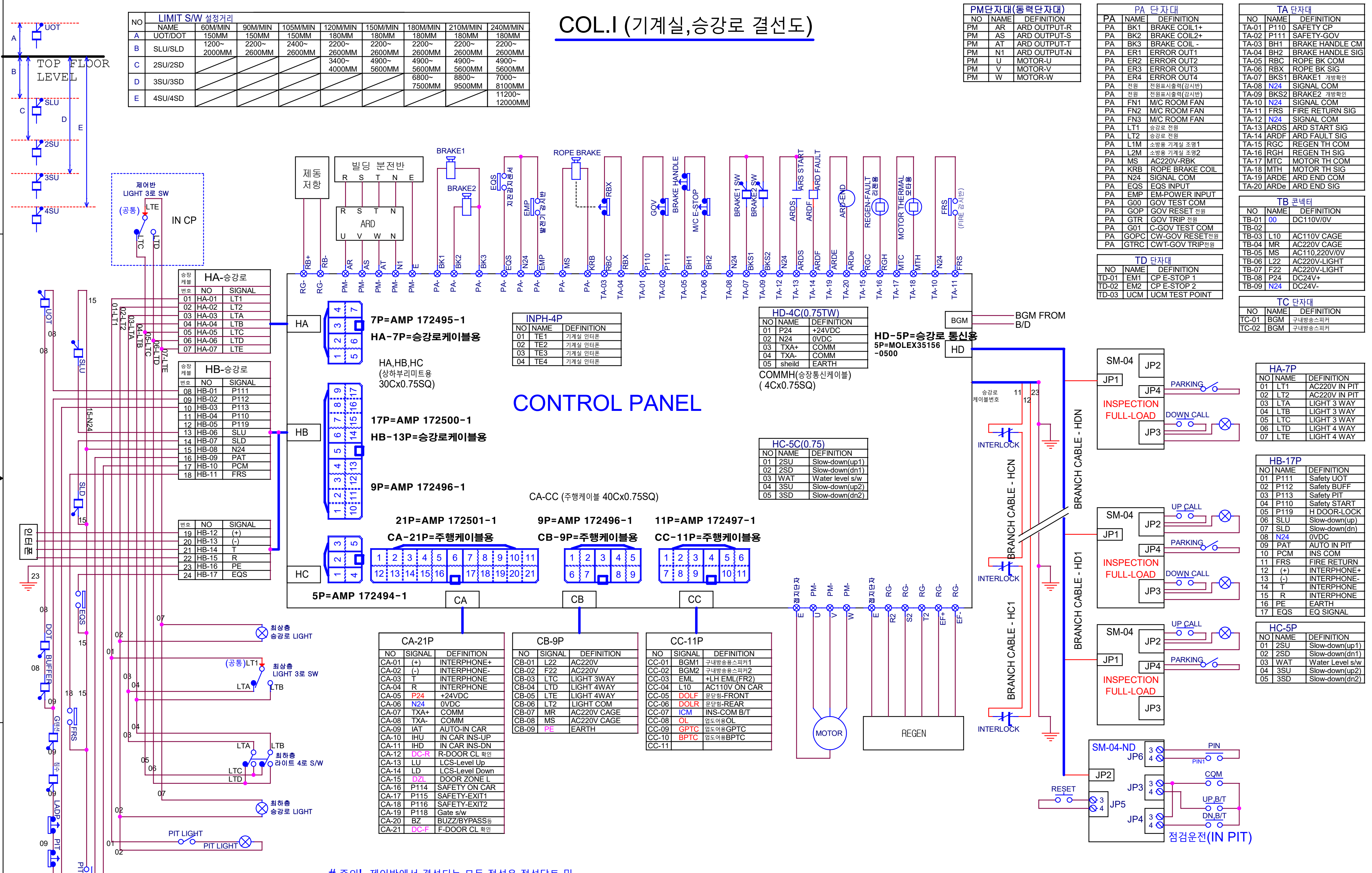
사용하지않을경우 점퍼시켜야합니다.

각종 안전스위치의 접지선은 케이블번호 23번에 결선되어야 합니다(도면생략)

BASEMENT

주의! 제어반에서 결선되는 모든 전선은 전선닥트 및 후렉시블을사용하여 포선하여야하며 닥트 및 후렉시블은 반드시 접지처리하여야 합니다..

COL.I (기계실,승강로 결선도)



NO	LIMIT S/W 설정거리								
	NAME	60M/MIN	90M/MIN	105M/MIN	120M/MIN	150M/MIN	180M/MIN	210M/MIN	240M/MIN
A	UOT/DOT	150MM	150MM	150MM	180MM	180MM	180MM	180MM	180MM
B	SLU/SLD	1200~ 2000MM	2200~ 2600MM	2400~ 2600MM	2200~ 2600MM	2200~ 2600MM	2200~ 2600MM	2200~ 2600MM	2200~ 2600MM
C	2SU/2SD				3400~ 4000MM	4900~ 5600MM	4900~ 5600MM	4900~ 5600MM	4900~ 5600MM
D	3SU/3SD						6800~ 7500MM	8800~ 9500MM	7000~ 8100MM
E	4SU/4SD								11200~ 12000MM

승장 케블 번호	HA-승강로 NO	SIGNAL
01	HA-01	LT1
02	HA-02	LT2
03	HA-03	LTA
04	HA-04	LTB
05	HA-05	LTC
06	HA-06	LTD
07	HA-07	LTE

승장 케블 번호	HB-승강로 NO	SIGNAL
08	HB-01	P111
09	HB-02	P112
10	HB-03	P113
11	HB-04	P110
12	HB-05	P119
13	HB-06	SLU
14	HB-07	SLD
15	HB-08	N24
16	HB-09	PAT
17	HB-10	PCM
18	HB-11	FRS

번호	NO	SIGNAL
19	HB-12	(+)
20	HB-13	(-)
21	HB-14	T
22	HB-15	R
23	HB-16	PE
24	HB-17	EQS

PM단자대(동력단자대)

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 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	전원	전원표시출력(감시반)
PA	전원	전원표시출력(감시반)
PA	FN1	M/C ROOM FAN
PA	FN2	M/C ROOM FAN
PA	FN3	M/C ROOM FAN
PA	LT1	승강로 전원
PA	LT2	승강로 전원
PA	L1M	소방용 기계실 조명1
PA	L2M	소방용 기계실 조명2
PA	MS	AC220V-RBK
PA	KRB	ROPE BRAKE COIL
PA	N24	SIGNAL COM
PA	EQS	EQS INPUT
PA	EMP	EM-POWER INPUT
PA	G00	GOV TEST COM
PA	GOP	GOV RESET 전원
PA	GTR	GOV TRIP 전원
PA	G01	C-GOV TEST COM
PA	GOPC	CW-GOV RESET전원
PA	GTRC	CWT-GOV TRIP전원

TD 단자대

NO	NAME	DEFINITION
TD-01	EM1	CP E-STOP 1
TD-02	EM2	CP E-STOP 2
TD-03	UCM	UCM TEST POINT

TA 단자대

NO	NAME	DEFINITION
TA-01	P110	SAFETY CP
TA-02	P111	SAFETY-GOV
TA-03	BH1	BRAKE HANDLE CM
TA-04	BH2	BRAKE HANDLE SIG
TA-05	RBC	ROPE BK COM
TA-06	RBX	ROPE BK SIG
TA-07	BKS1	BRAKE1 개방확인
TA-08	N24	SIGNAL COM
TA-09	BKS2	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

TB 콘넥터

NO	NAME	DEFINITION
TB-01	00	DC110V/0V
TB-02		
TB-03	L10	AC110V CAGE
TB-04	MR	AC220V CAGE
TB-05	MS	AC110,220V/0V
TB-06	L22	AC220V-LIGHT
TB-07	F22	AC220V-LIGHT
TB-08	P24	DC24V+
TB-09	N24	DC24V-

TC 단자대

NO	NAME	DEFINITION
TC-01	BGM	구내방송스피커
TC-02	BGM	구내방송스피커

INPH-4P

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

HD-4C(0.75TW)

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

HC-5C(0.75)

NO	NAME	DEFINITION
01	2SU	Slow-down(up1)
02	2SD	Slow-down(dn1)
03	WAT	Water level s/w
04	3SU	Slow-down(up2)
05	3SD	Slow-down(dn2)

HA-7P

NO	NAME	DEFINITION
01	LT1	AC220V IN PIT
02	LT2	AC220V IN PIT
03	LTA	LIGHT 3 WAY
04	LTB	LIGHT 3 WAY
05	LTC	LIGHT 3 WAY
06	LTD	LIGHT 4 WAY
07	LTE	LIGHT 4 WAY

HB-17P

NO	NAME	DEFINITION
01	P111	Safety UOT
02	P112	Safety BUFF
03	P113	Safety PIT
04	P110	Safety START
05	P119	H DOOR-LOCK
06	SLU	Slow-down(up)
07	SLD	Slow-down(dn)
08	N24	0VDC
09	PAT	AUTO IN PIT
10	PCM	INS COM
11	FRS	FIRE RETURN
12	(+)	INTERPHONE+
13	(-)	INTERPHONE-
14	T	INTERPHONE
15	R	INTERPHONE
16	PE	EARTH
17	EQS	EQ SIGNAL

HC-5P

NO	NAME	DEFINITION
01	2SU	Slow-down(up1)
02	2SD	Slow-down(dn1)
03	WAT	Water Level s/w
04	3SU	Slow-down(up2)
05	3SD	Slow-down(dn2)

CA-21P

NO	SIGNAL	DEFINITION
CA-01	(+)	INTERPHONE+
CA-02	(-)	INTERPHONE-
CA-03	T	INTERPHONE
CA-04	R	INTERPHONE
CA-05	P24	+24VDC
CA-06	N24	0VDC
CA-07	TXA+	COMM
CA-08	TXA-	COMM
CA-09	IAT	AUTO-IN CAR
CA-10	IHU	IN CAR INS-UP
CA-11	IHD	IN CAR INS-DN
CA-12	DC-R	R-DOOR CL 확인
CA-13	LU	LCS-Level Up
CA-14	LD	LCS-Level Down
CA-15	DZL	DOOR ZONE L
CA-16	P114	SAFETY ON CAR
CA-17	P115	SAFETY-EXIT1
CA-18	P116	SAFETY-EXIT2
CA-19	P118	Gate s/w
CA-20	BZ	BUZZ/BYPASS등
CA-21	DC-F	F-DOOR CL 확인

CB-9P

NO	SIGNAL	DEFINITION
CB-01	L22	AC220V
CB-02	F22	AC220V
CB-03	LTC	LIGHT 3WAY
CB-04	LTD	LIGHT 4WAY
CB-05	LTE	LIGHT 4WAY
CB-06	LT2	LIGHT COM
CB-07	MR	AC220V CAGE
CB-08	MS	AC220V CAGE
CB-09	PE	EARTH

CC-11P

NO	SIGNAL	DEFINITION
CC-01	BGM1	구내방송용스피커1
CC-02	BGM2	구내방송용스피커2
CC-03	EML	+LH EML(FR2)
CC-04	L10	AC110V ON CAR
CC-05	DOLF	문닫힘-FRONT
CC-06	DOLR	문닫힘-REAR
CC-07	ICM	INS-COM B/T
CC-08	OL	업도어용OL
CC-09	GPTC	업도어용GPTC
CC-10	BPTC	업도어용BPTC
CC-11		

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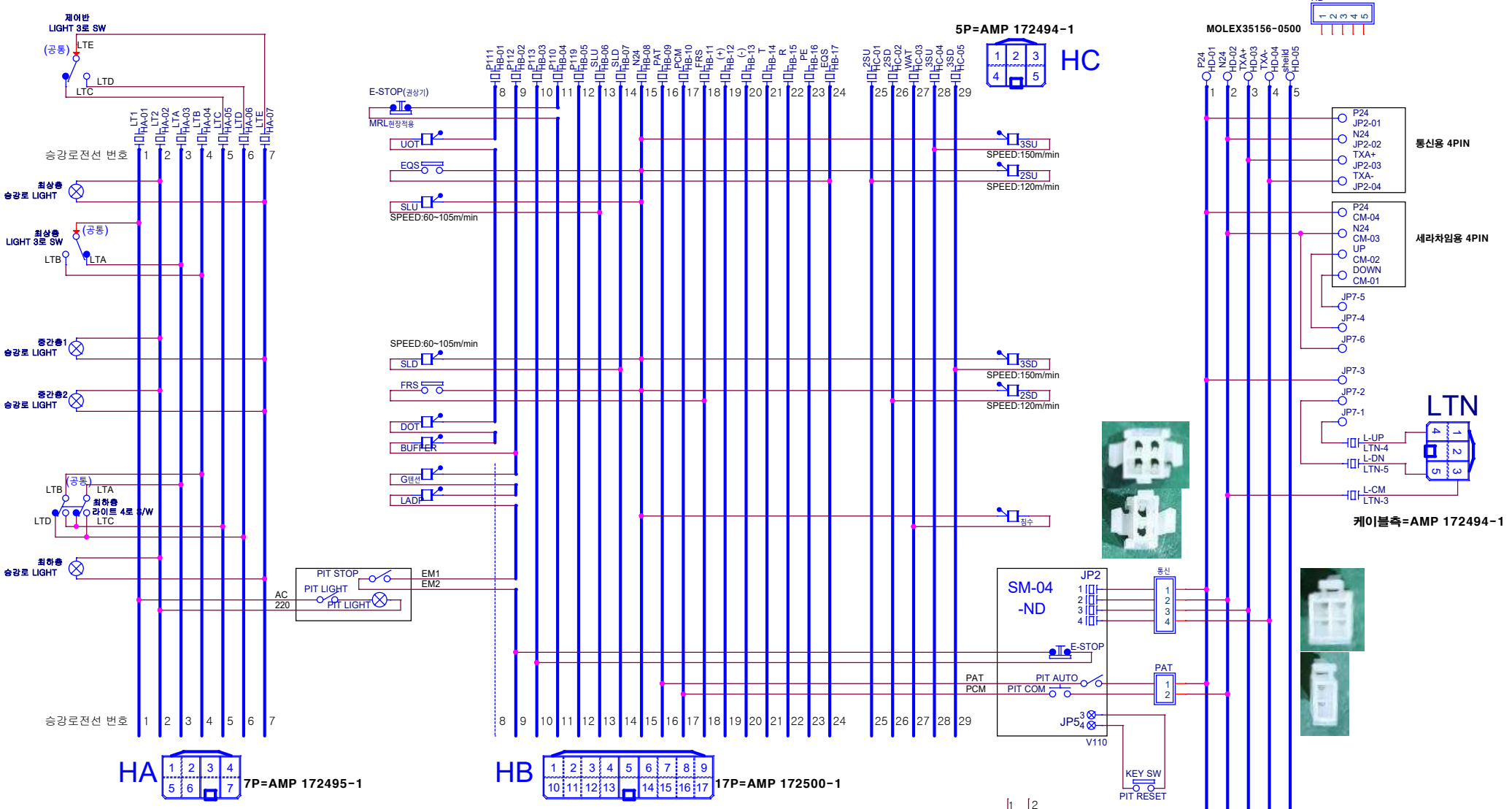
DRWN BY	J.H.KWAK	APPD BY	E.K.JANG
FIELD		TITLE	기계실 및 승강로 결선

Size Custom | Document Number EXP-E-202206-01 | (주)익스프레스리프트 | Rev V11

Date: | Sheet 9 of 10

COL.J(승강로 전선 번호,홀랜턴회로)



HA-7P		
NO	NAME	DEFINITION
01	LT1	AC220V IN PIT
02	LT2	AC220V IN PIT
03	LTA	LIGHT 3 WAY
04	LTB	LIGHT 3 WAY
05	LTC	LIGHT 3 WAY
06	LTD	LIGHT 4 WAY
07	LTE	LIGHT 4 WAY

HB-17P		
NO	NAME	DEFINITION
01	P111	Safety UOT
02	P112	Safety BUFF
03	P113	Safety PIT
04	P110	Safety START
05	P119	H DOOR-LOCK
06	SLU	Slow-down(up)
07	SLD	Slow-down(dn)
08	N24	0VDC
09	PAT	AUTO IN PIT
10	PCM	INS COM
11	FRS	FIRE RETURN
12	(+)	INTERPHONE+
13	(-)	INTERPHONE-
14	T	INTERPHONE
15	R	INTERPHONE
16	PE	EARTH
17	EQS	EQ SIGNAL

HC-5P		
NO	NAME	DEFINITION
01	2SU	Slow-down(up1)
02	2SD	Slow-down(dn1)
03	WAT	Water Level s/w
04	3SU	Slow-down(up2)
05	3SD	Slow-down(dn2)

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

COMMH(승장통신케이블)
(4Cx0.75SQ)

DRWN BY	J.H.KWAK	APPD BY	E.K.JANG
FIELD		TITLE	HOISTWAY WIRING
Size Custom	Document Number EXP-E-202206-01	(주)익스프레스리프트	Rev V11
Date:		Sheet 2 of 10	

COL.K (CAR TOP 결선도)

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

PTC-R(220V)		
NO	NAME	DEFINITION
01	N24	N24
02	PTCR	R-Beam Sensor
03	MR	AC220V CAGE
04	MS	AC220V CAGE
05	PE	EARTH

PTC-R(24V)		
NO	NAME	DEFINITION
01	N24	N24
02	PTCR	R-Beam Sensor
03	P24	PTC 전원 DC24V+
04	N24	PTC 전원 DC24V-

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

DCB-F		
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	NUDGING CLOSE

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

PTC-F(220V)		
NO	NAME	DEFINITION
01	N24	0V(N24V)
02	PTC	Safety beam signal
03	MR	AC220 CAGE
04	MS	AC220 CAGE
05	PE	EARTH

PTC-F(24V)		
NO	NAME	DEFINITION
01	N24	0V(N24V)
02	PTC	Safety beam signal
03	P24	PTC 전원 DC24V+
04	N24	PTC 전원 DC24V-

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

3WAY(승강로조명SW)		
NO	NAME	DEFINITION
01	LTC	AC220V 3WAY
02	LTD	AC220V 3WAY
03	LTE	ON CAR LIGHT

EM(안전회로)		
NO	NAME	DEFINITION
01	P114	DEVICE-1
02	P115	DEVICE-2
03	PE	EARTH
04	P115	MRL-GUARD-1
05	P115-1	MRL-GUARD-2
06	PE	EARTH
07	P115-1	사다리안전스위치-1
08	P115-2	사다리안전스위치-2
09	PE	EARTH
10	P115-4	비상구안전스위치-1
11	P115-5	비상구안전스위치-2
12	PE	EARTH
13	P116	전면카도어안전-1
14	P116-1	전면카도어안전-2
15	PE	EARTH
16	P116-1	후면카도어안전-1
17	P118	후면카도어안전-2

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

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

LCS(220V)		
NO	NAME	DEFINITION
01	N24	0V(N24V)
02	LU	Up leveling switch
03	LD	Down leveling switch
04	MR	AC220V CAGE
05	MS	AC220V CAGE
06	PE	EARTH
07	(-)	EM-POWER 0V
08	DZL	DOOR ZONE

LCS(24V)		
NO	NAME	DEFINITION
01	N24	0V(N24V)
02	LU	Up leveling switch
03	LD	Down leveling switch
04	P24	인덕터 전원 DC24V+
05	N24	인덕터 전원 DC24V-
06	(-)	EM-POWER 0V
07	DZL	DOOR ZONE

PNL(운전반판넬)		
NO	NAME	DEFINITION
01	N24	0V(N24V)
02	OAT	ON CAR AUTO
03	BZ	BUZZER
04	P24	+24VDC
05	OIN	
06		
07	P115-4	ON CAR ESTOP
08		
09	P115-3	ON CAR ESTOP

REM(리모콘)		
NO	NAME	DEFINITION
01	OIN	
02	OHU	INS-UP B/T
03	OHD	INS-DOWN B/T
04	ICM	
05	P115-3	SAFETY REMOCON
06		
07	P115-2	SAFETY REMOCON

EMP(비상전원장치)		
NO	NAME	DEFINITION
01	(-)	EM-POWER 0V
02	(+)	EM-POWER +12V
03	L22	AC220
04	F22	AC220
05	PE	EARTH

CT-단자대(CARTOP)		
NO	SIGNAL	DEFINITION
CT-01	L22	AC220V
CT-02	F22	AC220V
CT-03	PE	EARTH
CT-04	P24	+24VDC
CT-05	N24	24VDC의 0V
CT-06	TE1(R)	Interphone
CT-07	TE2(T)	Interphone
CT-08	TE3(-)	Interphone-
CT-09	TE4(+)	Interphone+

REAR DOOR 사용시 결선

PTC 전원이 DC24V일경우 결선 — R-BEAM SENSOR (N24 PTC P24 N24) → PTC-R(24V)

PTC 전원이 AC220V일경우 결선 — R-BEAM SENSOR (N24 PTC AC0 220 EARTH)

R-DOOR CONTROL BOARD (P24 CL OP N24 DCL-NC DOL-NC AC1 AC2 FCL)

R-SAFETY EDGE → STE-R

F-DOOR CONTROL BOARD (P24 CL OP N24 DCL-NC DOL-NC AC1 AC2 FCL) → DCB-F

PTC 전원이 DC24V일경우 결선 — F-BEAM SENSOR (N24 PTC P24 N24) → PTC-F(24V)

PTC 전원이 AC220V일경우 결선 — F-BEAM SENSOR (N24 PTC AC0 220 EARTH) → PTC-F(220V)

PE CT-03 — 콘넥터(모렉스36513)

SAFETY EDGE → STE-F

DEV, SAFETY GUARD(안전난간대봉 스위치), SAFETY LADDER(사다리안전스위치), EXIT, GATE-F, GATE-R → EM

REAR DOOR 사용시 결선

OVER LOAD, FULL LOAD, LOW LOAD → LOAD

LIGHT → LIGHT

FAN → FAN

전원이 DC24V 일경우 결선 — LCS (N24 LU LD P24 N24 (-) DZL) → LCS(24V)

전원이 AC220V 일경우 결선 — LCS (N24 LU LD MR MS EARTH (-) DZL) → LCS(220V)

LANDING PLATE

LIGHT ON CAR, LIGHT SW → CT-01 L22, CT-02 F22

CAR TOP BOX내부결선

EM-LIGHT, EM POWER (LG1 LG2 (-) (+) AC0 220 EARTH) → EMP

AUTO, HAND, BUZZER, E-STOP(카탑푸쉬스), UP B/T, DN B/T, COM B/T, E-STOP(리모콘) → PNL

OAT1 OAT OIN OIN1 OHU OHD OCM → REM(리모콘)

SM02H-JP5,6,8		
NO	NAME	DEFINITION
01	N24	HX의 COM
02	STE	HX2-STE신호
03	PTC	HX3-PTC신호
04	L30	HX4-L30%
05	L80	HX5-L80%
06	LOL	HX6-OVERLOAD
07	DLT	HY5-DLT출력

DLT (+24 -24 C C A A B B) RY-LY2

SM09IO/B-(REAR)		
NO	NAME	DEFINITION
01	RDCL	HX8-R CL-END
02	RDOL	HX7-R OP-END
03	PTCR	HX9-R PTC
04	P24	HX7,8,9의 COM
05	RSTE	HX10-R STE
06	CLR	HY9-R CLOSE
07	OPR	HY8-R OPEN
08	FCL	HY10-R NUDG
09	N24	HY8~10의 공통

21P=AMP 172501-1 — CA-21P=주행케이블용

9P=AMP 172496-1 — CB-9P=주행케이블용

11P=AMP 172497-1 — CC-11P=주행케이블용

CARTOP-AS380(EN-V10m)

17P=AMP 172500-1 — EM-17P=안전회로용

CARTOP BOX

CPI

SM02H-JP4 (JP4: 1-N24 2-DOL 3-DCL 4-N24 5-FCL 6-CL 7-OP)

SM02H-JP5,6,8 (JP5: 1-N24 2-STE 3-PTC; JP6: 1-N24 2-L30 3-L80 4-LOL; JP8: 1-N24 2-DLT)

SM02H-JP1 (JP1: 1-P24 2-N24 3-TXA+ 4-TXA-)

SM09H (JP3: 1-RDOL 2-RDCL 3-RPTC 4-P24; JP4: 1-RSTE 2-HX11 3-N24; JP6: 1-OPR 2-CLR 3-NUD 4-N24)

SM-02/H, SM-09IO/B — IN CARTOP BOX

C1, C2-OPB (OS-CN1), C3-OPB (OS-CN2), CPI-R

SM04-VSD, OPEN B/T, CLOSE B/T, SM-03 CALL 1-8F, SM-03 CALL 9-16F

JP1 (1-P24 2-N24 3-TXA+ 4-TXA-) SM-02/G

JP5 (1-ATTD 2-ATT 3-IND 4-PAS 5-FR1 6-COM)

OPB-OS-CN1, OPB-OS-CN2

ATT, PASS, ATTD, IND, FR1

LH OPTION, FAN, LIGHT, E-STOP, CALL, EM-LAMP(+LH), 인터폰

IN CAR MAIN COP — OPB-OS(V10)

SM-02/G JP6(OPEN) JP7(CLOSE)

CN1-OPB, SM04-VSJ, OPEN B/T, CLOSE B/T, SM-03 CALL 1-8F, SM-03 CALL 9-16F, CALL LAMP, CALL, 인터폰

SUB-COP

BZ, BUZZ, BYPASS SIGNAL (경광등)

TE1(2) TE2(1) TE3(-) TE4(+), 인터폰

SPK2, BGM, 음성장치 스피커, 벨및방송 스피커, SPEAKER SPEAKER

CPI-F, CPI SM-04

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INPH,INPHR		
NO	NAME	DEFINITION
01	TE1(2)	Interphone
02	TE2(1)	Interphone
03	TE3(-)	Interphone-
04	TE4(+)	Interphone+

SPK1,SPK2		
NO	NAME	DEFINITION
01	SP1	음성안내SP1
02	SP2	음성안내SP2

T0-CPI		
NO	NAME	DEFINITION
01	P24	+24VDC
02	N24	0VDC
03	TXA+	COMM
04	TXA-	COMM
05	PE	EARTH

DRWN BY	J.H.KWAK	APPD BY	E.K.JANG
FIELD		TITLE	카상부 및 카주위 결선
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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
	"B" CONTACT CAM SWITCH
DOOR LOCK	HATCH DOOR INTERLOCK
	BLOWER MOTOR FAN MOTOR IN CAGE
	"A" CONTACT PUSH BUTTON
	EMERGENCY LIGHT
	BRAKE COIL
ARM	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
14 13 P?	COIL OF MY-4 TYPE RELAY
BYPASS	BYPASS GATE & DOOR LOCK

SYMBOL	DESCRIPTION
	WIRE IN HOISTWAY(FIELD)
	JOINT POINT WIRE IN HOISTWAY
	TRANSFORMER
	RESISTER IN PCB
	MOTOR FIELD(DOOR MOTOR)
P112 HA-06	HARNESS(P112=SIGNAL NAME, HA-06=NUMBER OF HARNESS PIN)
T2 L2	"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
A1 A2	COIL OFMAGNETIC CONTACTOR
+24 0V OUT	LEVELING INDUCTOR

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CONTACT LOCATION & DECRIPTION OF SIGNAL

M/C NAME	LOCATION										DESCRIPTION
	COIL	L1/T1	L2/T2	L3/T3	13/14	43/44	53/54	61/62	71/72	31/32	
MY	C	A	A	A	B	A	C	A	A		MOTOR POWER MC
BK1	C		B	B			C				BRAKE 1 MC
BK2	C		B	B	F		C				BRAKE 2 MC
BY	C	B									BRAKE COMMON MC

M/C NAME	LOCATION										DESCRIPTION
	COIL	13/14	23/24	33/34	43/44	53/54	61/62	71/72	83/84		
UCM	C	B	C	F	C	F	F				PCB SAFETY MC
FDL	C	C		C			C				DOOR LOCK MC

Relay NAME	LOCATION SR2M						DESCRIPTION
	COIL	11/14	21/24	11/12	21/22		
9G	B2	C					CAR DOOR RELAY
9H	B2	C	F				HALL DOOR RELAY
CIN	B	B	B				INSPECTION IN CP
ICM	B	B					INSPECTION RELAY

Relay NAME	LOCATION MY-4									DESCRIPTION
	COIL	5/9	6/10	7/11	8/12	1/9	2/10	3/11	4/12	
9	B		B							SAFETY RELAY
ARD	A						C			ARD OPERATION RY
FAT	B						G	F		ON CAR AUTO RELAY
FRS	C	G	G		G					FIRE SERVICE RELAY
DLT	E					G	G			CAR LIGHT DELAY RY
K100	F	B		F						CONTROL POWER RY

NAME	DESCRIPTION
ENC	ROTARY ENCORDER
AS.T029	MAIN BOARD
AS.T024	ENCBOARD-동기용
AS.T041	ENCBOARD-비동기용
SM-02/H	카상부통신기판
SM-02/G	카내부통신기판
SM-09IO	옵션 기능기판
SM-03	카콜 입력기판
SM-04/VSD	승장통신 및 표시기-CPI
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 AC220V용 콘넥터
HB	승강로 신호용 하네스 콘넥터
HC	승강로 옵션용 하네스 콘넥터
HD	승강로 통신 하네스 콘넥터
CA	카상부 주행 케이블 콘넥터1
CB	카상부 주행 케이브 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-수동운전COMMON
BGM	구내방송스피커1
BGM	구내방송스피커2
BK1	BRAKE COIL 1+ (60~100VDC)
BK2	BRAKE COIL 2+ (60~100VDC)
BK3	BRAKE COIL 1,2의 COM(0V)
BKS1	BRAKE1 OPEN 확인신호
BKS2	BRAKE2 OPEN 확인신호
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	REAR도어 리미트신호의 공통
COM	제어신호의 공통단자(N24)
CT1	기계실 CONCENT용 전원단자대
CT2	기계실 CONCENT용 전원단자대
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	ERROR출력 CM1단자/이상발생
ER2	ERROR출력 SG1단자/이상발생
ER3	ERROR출력 CM2단자/정상운전
ER4	ERROR출력 SG2단자/정상운전
F10	0V AC110V/카상부 AC110V공급용
F22	0V AC220V/카상부 AC220V공급용
FRS	FIRE RETURN SIGNAL
FX1	AC220V/카상부 FAN SW공급용
IAT	AUTO IN CAR SIGNAL
IHD	INSPECTION-DOWN SIGNAL
IHU	INSPECTION-UP SIGNAL

SIGNAL	DESCRIPTION
INS	INSPECTION 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 SW공급용
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+
PAT	PIT AUTO SIGNAL
PCM	PIT INSPECTION COM SIGNAL
PIN	PIT INSPECTION SIGNAL
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	음성안내SPEAKER1
SP2	음성안내SPEAKER2
STE	SAFETY EDGE SIGNAL
STER	REAR-SAFETY EDGE SIGNAL
T	380V FROM B/D
T1	REGEN-T
TE1	INTERPHONE1
TE2	INTERPHONE2
TE3	인터폰전원-
TE4	인터폰전원+
MTH	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	한영넉스	CR-253	ARE-4R	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	현대앨렉트릭	접지노출1구	AC220V 16A		
CS1	카상부운전반 220V CONCENT	현대앨렉트릭	접지노출2구	AC220V 16A		
CS2	피트 내 220V CONCENT	현대앨렉트릭	접지노출1구	AC220V 16A		
CS3	머쉰룸 220V CONCENT	현대앨렉트릭	접지노출2구	AC220V 16A		
EL0	제어반 내 조명등	런전자	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	동인산전	리미트스위치	B-CONTACT		K 60947-5-1
DOT	하부 주행 FINAL 안전스위치	동인산전	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	한영넉스		ARE-4R		K 60947-5-1
DEV	SAFETY DEVICE 안전스위치	완성업체에서 공급				
TOP	카상부 안전난간대 안전스위치	완성업체에서 공급				
E-STOP	EMERGINCY STOP 안전스위치	한영넉스		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
	승장 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
	비상구안전스위치(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
	착상장치용 케이블(LU LD)	㈜케이디씨	VCTF	0.75SQ 6C		KS 60227-6
가요성케이블	도어든힘 안전장치(STE)	㈜케이디씨	DATA CABLE	0.75SQ 3C		KS 60227-5
	벨센서용 케이블(STR)	㈜케이디씨	DATA CABLE	0.75SQ 5C		KS 60227-6
이동 케이블	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
노이즈휠터	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