

| | | | | | | |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| A | | | | | | |
| B | | | | | | |
| C | | | | | | |
| D | | | | | | |

EXCEL-2000 전기도면

현 장 명 : EXCEL-2013V 표준도면

발 주 처 :

생산 일자 :

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

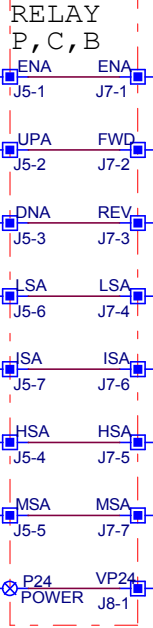
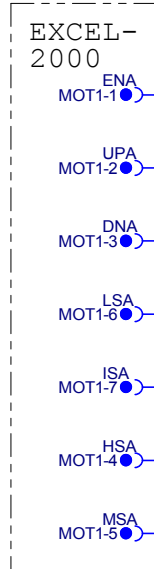
COL.A

| SPEED | CLOSE TO No.25 (COM) IN VECTOR INVERTER INPUT TERMINAL | PROG NO | PROG DATA |
|-----------------|--|------------|------------------------|
| 90M/M현장 HIGH | FWD/REV, P3 | FUN-17 | 1750(90M) |
| 60M/M현장 HIGH | FWD/REV, P2 | FUN-15 | 1740(60M) 1350(90M) |
| LEVEL SPEED | FWD/REV, P1 | FUN-13 | 70 |
| HAND SPEED | FWD/REV, P4 | FUN-20 | 300 |

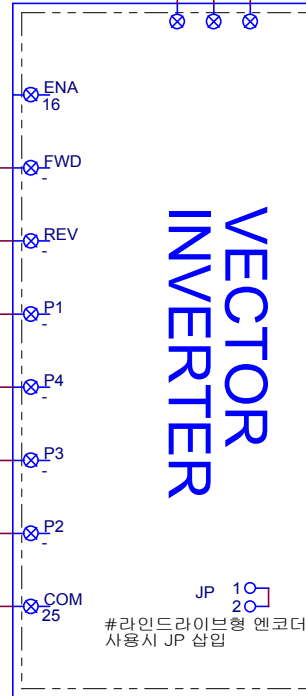
FROM
B/D POWER

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

| Kw | Spec(MC) |
|---------|-----------|
| 5.5/7.5 | GMD-50 |
| 9.5/11 | GMD-50 |
| 13/15 | GMD-50-65 |
| 18.5/22 | GMD-85 |



P24
POWER



R1
R2

DB
RESISTER
제동저항

SHEILD

TO ENC B/D

ENC

U

V

W

U

V

W

U

V

W

U

V

W

U

V

W

U

V

W

U

V

W

U

V

W

U

V

W

U

V

W

U

V

W

U

V

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U

V

W

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V

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U

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U

V

W

U

V

W

U

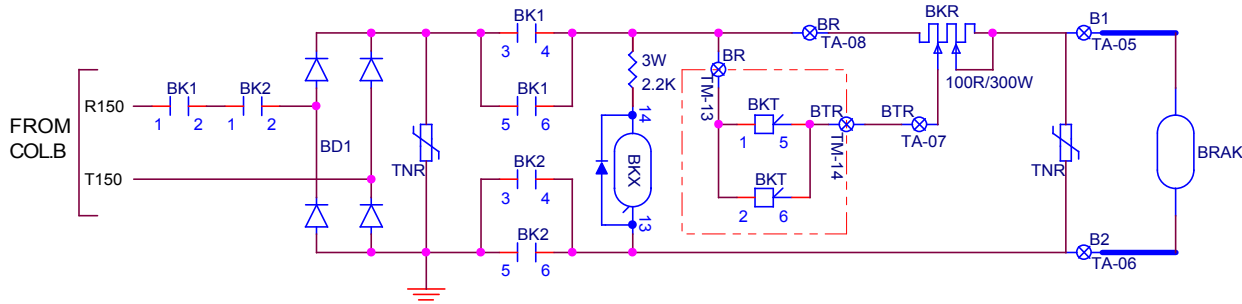
V

W

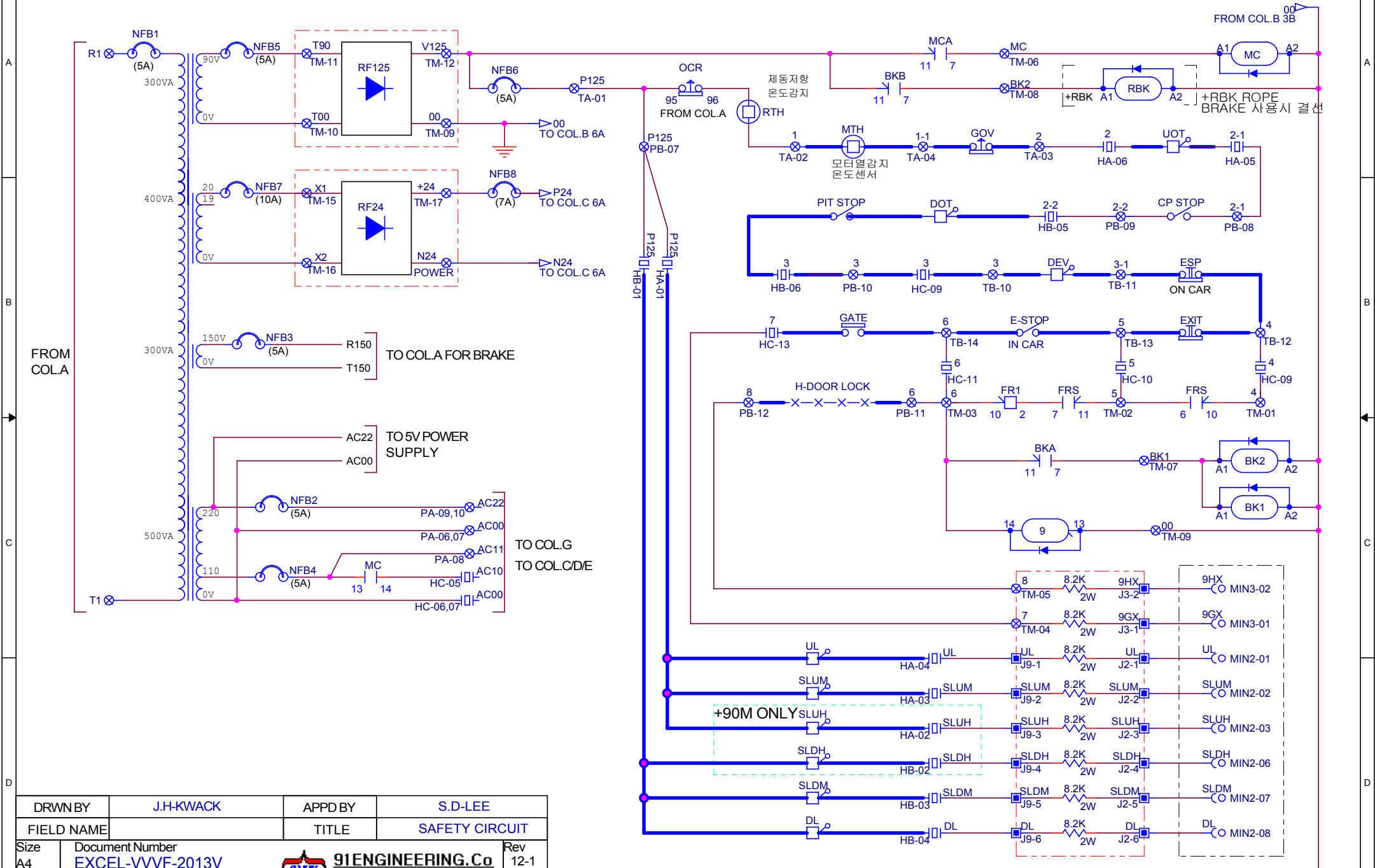
U


V

W

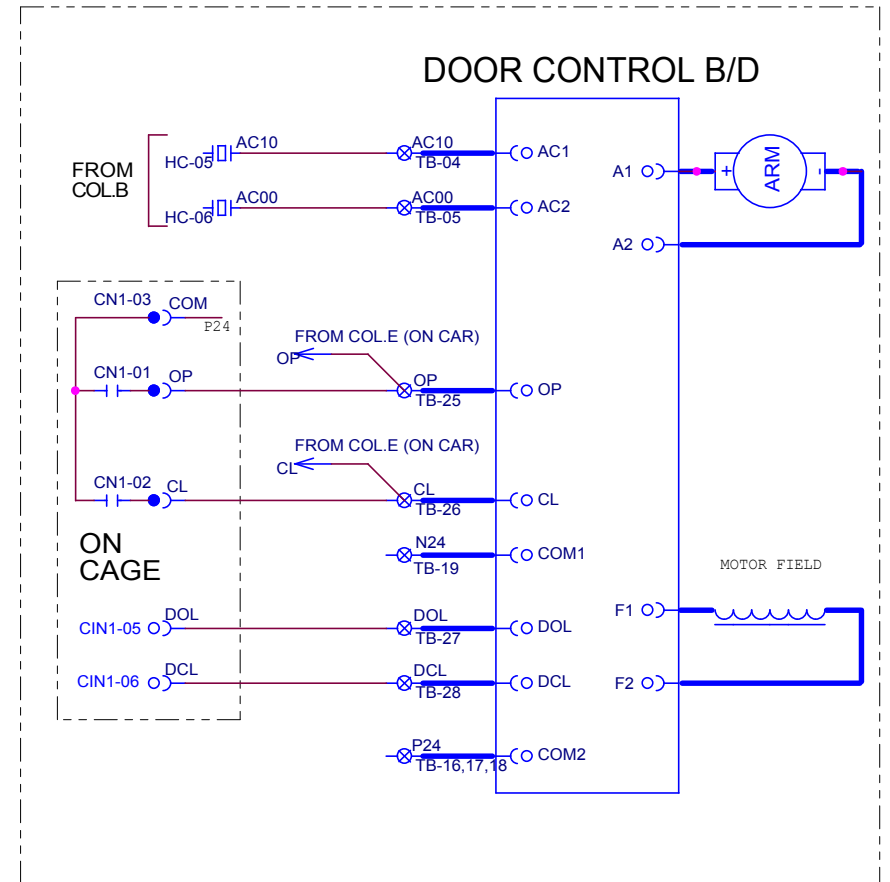
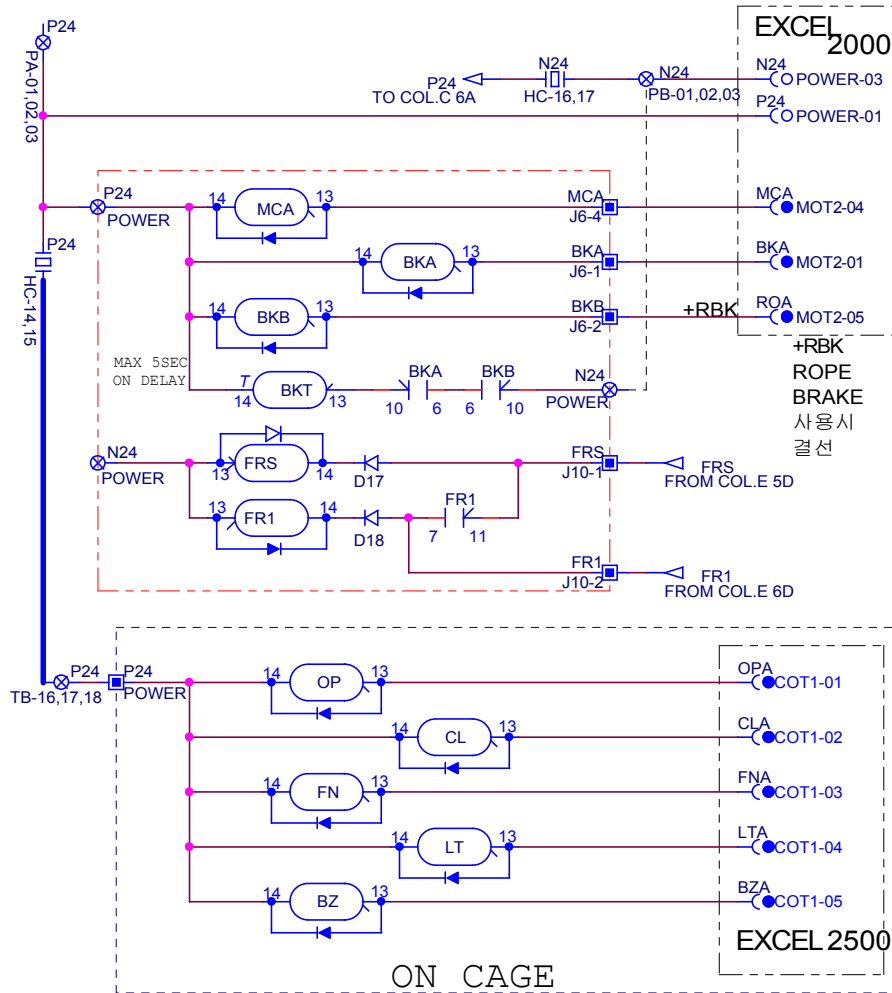


| | | | |
|------------|-------------------------|------------------|-------------|
| DRWN BY | J.H-KWACK | APPD BY | S.D-LEE |
| FIELD NAME | | TITLE | MOTOR DRIVE |
| Size | Document Number | | Rev |
| Custom | EXCEL-VVVF-2013V | 91ENGINEERING.Co | 12-1 |
| Date: | Friday, August 05, 2011 | Sheet | 1 of 8 |

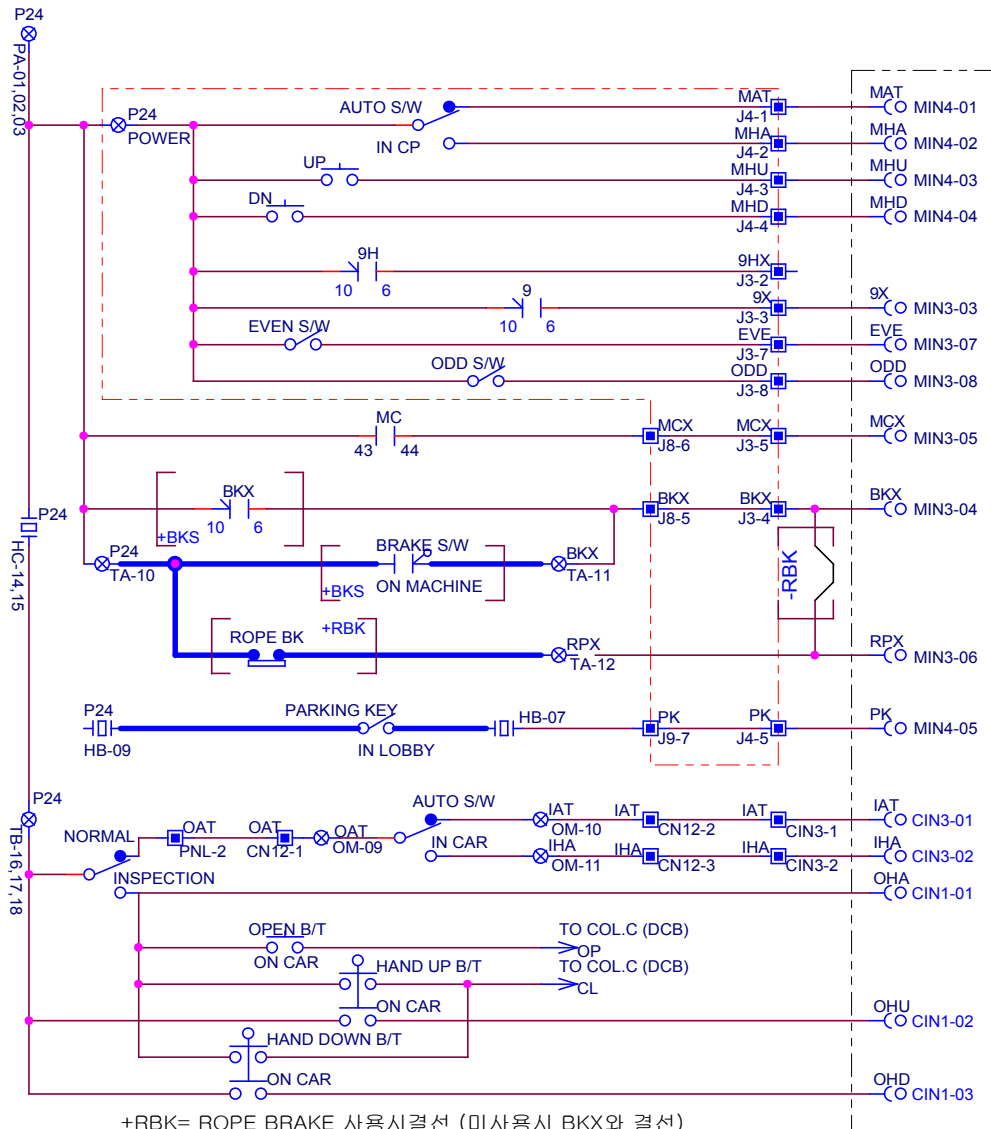
COL.B

| | | | |
|------------|--|---|----------------|
| DRWN BY | J.H-KWACK | APPD BY | S.D-LEE |
| FIELD NAME | TITLE | | SAFETY CIRCUIT |
| Size A4 | Document Number EXCEL-VVVF-2013V |  91ENGINEERING.Co | Rev 12-1 |
| Date: | Friday, August 05, 2011 | Sheet | 2 of 8 |

COL.C

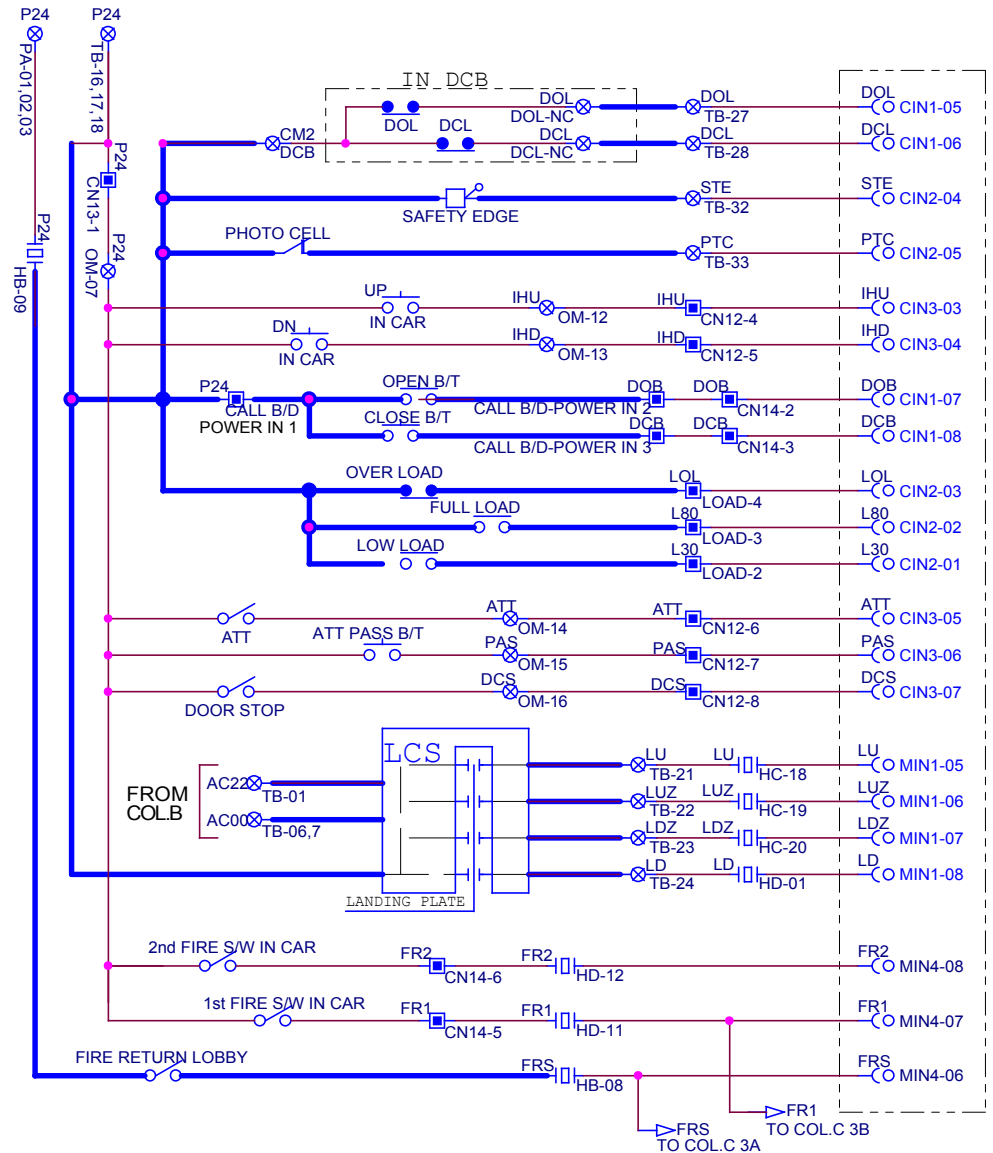



| | | | |
|------------|----------------------------------|------------------|----------------|
| DRWN BY | J.H-KWACK | APPD BY | S.D-LEE |
| FIELD NAME | | TITLE | OUTPUT CIRCUIT |
| Size A4 | Document Number EXCEL-VVVF-2013V | 91ENGINEERING.Co | Rev 12-1 |
| Date: | Friday, August 05, 2011 | Sheet 3 | of 8 |

COL.E

+RBK= ROPE BRAKE 사용시결선 (미사용시 BKX와 결선)

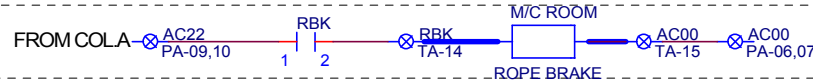
+BKS=BRAKE개방 확인 S/W가 있는 M/C에 사용



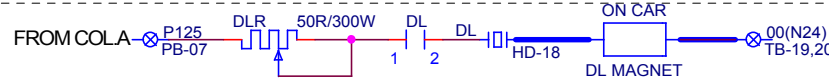
| | | | | | | | |
|------------|-------------------------------------|-----------|--|---|--|--------------|------|
| DRWN BY | | J.H-KWACK | | APPD BY | | S.D-LEE | |
| FIELD NAME | | | | TITLE | | INPUT SIGNAL | |
| Size A4 | Document Number EXCEL-VVVF-2013V | | |  91ENGINEERING.Co | | Rev 12-1 | |
| Date: | Friday, August 05, 2011 | | | Sheet | | 4 | of 8 |

COL.F

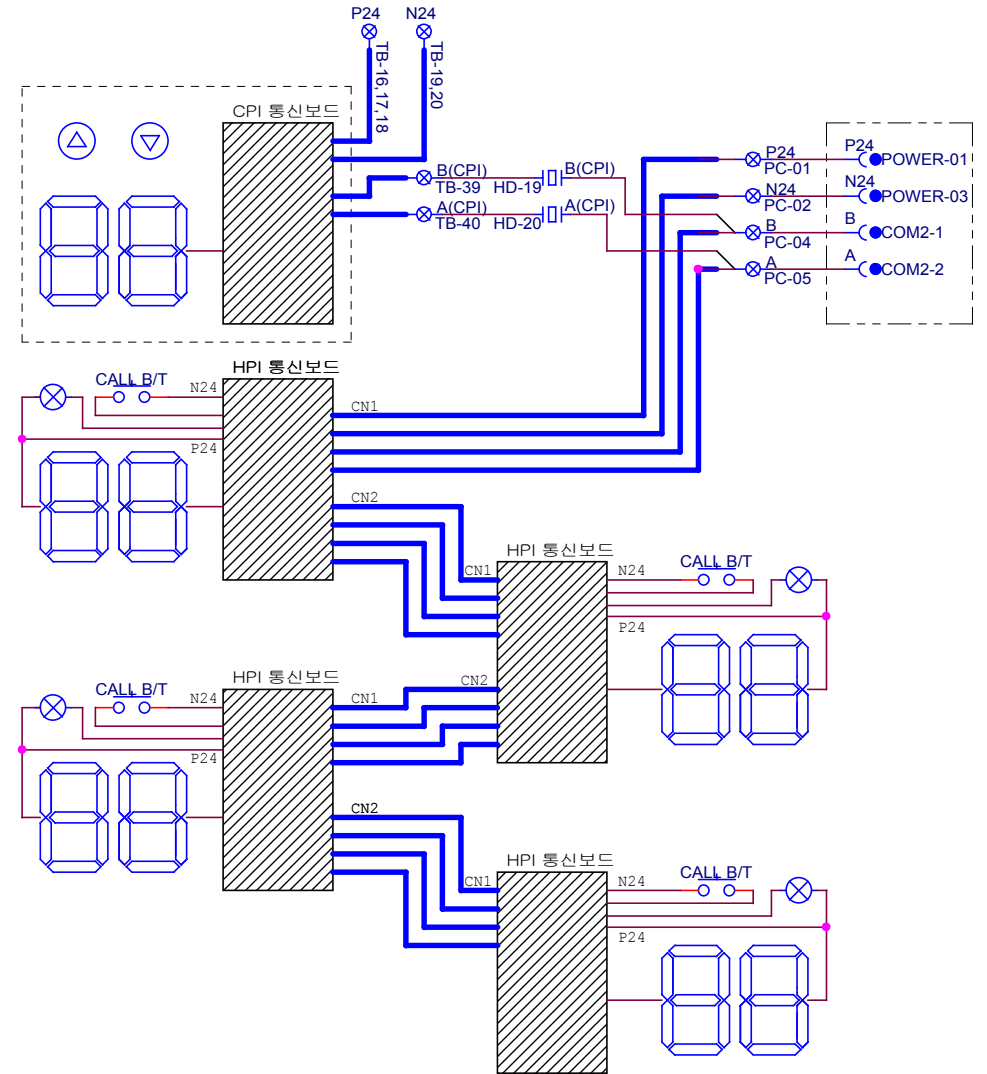
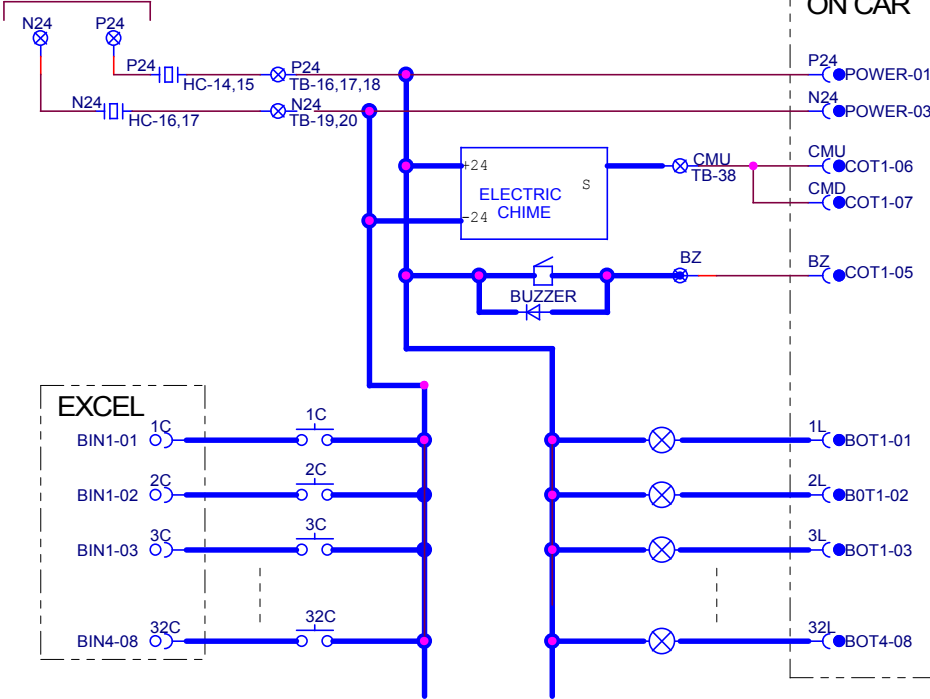
+ROPE BRAKE



+OPTION DL MAGNET



FROM COL.C



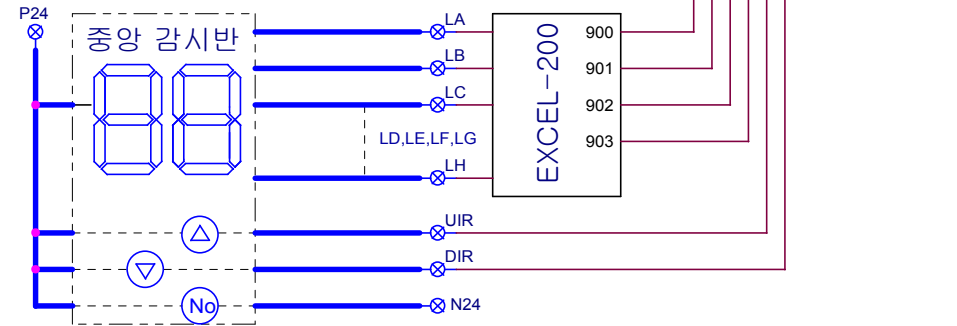
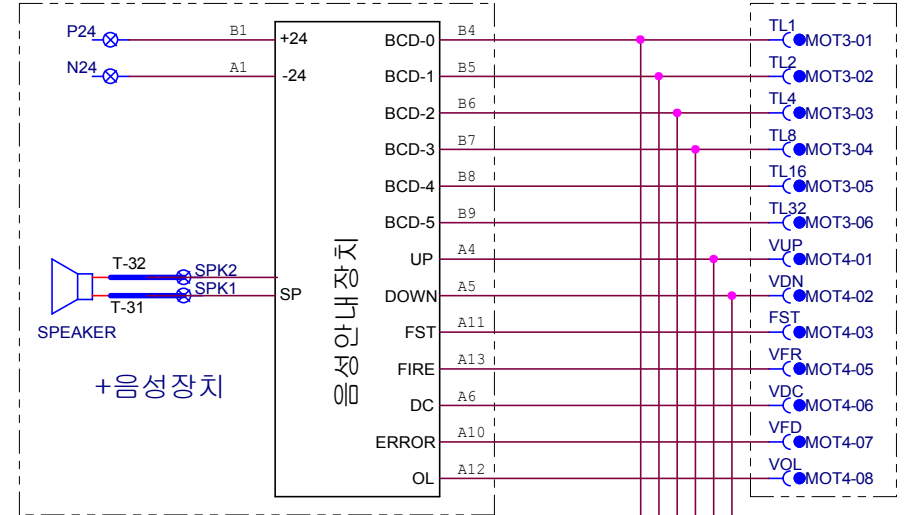
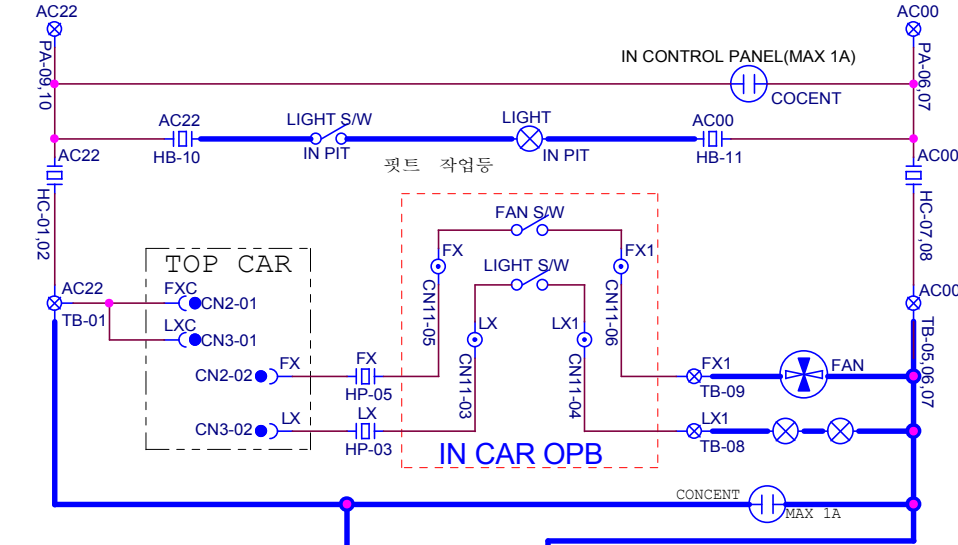
- XX = 기계실 CP 10P 단자대
- TA-01/10 = 기계실 CP RELAY PCB 20P(SWING PANEL)
- TM-01/20 = 기계실 CP 15P(SWING PANEL)
- PA-01/15 = 기계실 CP 15P(SWING PANEL)
- PB-01/15 = 기계실 CP 15P(SWING PANEL)
- PC-01/06 = 기계실 CP 6P(SWING PANEL)
- TB-01/40 = CAR상부 운전반 40P 단자대
- OM-01/20 = OPB 내부 15P 단자대

| | | | |
|------------|----------------------------------|------------------|------------------|
| DRWN BY | J.H-KWACK | APPD BY | S.D-LEE |
| FIELD NAME | | TITLE | CALL & INDICATOR |
| Size A4 | Document Number EXCEL-VVVF-2013V | 91ENGINEERING.Co | Rev 12-1 |
| Date: | Friday, August 05, 2011 | Sheet 5 | of 8 |

COL.G

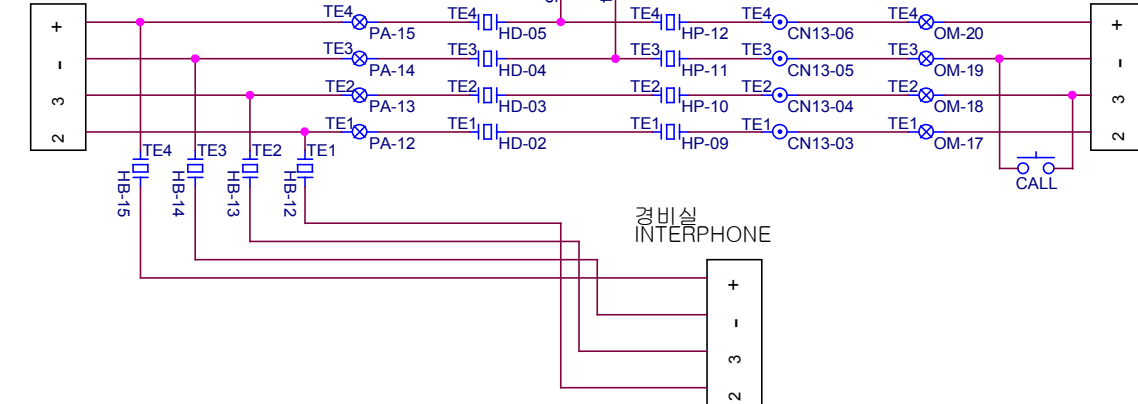
FROM COL.B

FROM COL.B



INTERPHONE
IN M/C ROOM

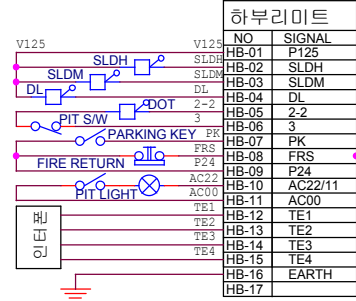
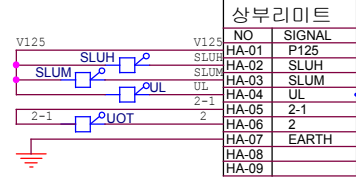
INTERPHONE
IN CAGE



| | | | |
|------------|-------------------------|------------------|--------------------|
| DRWN BY | J.H-KWACK | APPD BY | S.D-LEE |
| FIELD NAME | | TITLE | LIGHT & INTERPHONE |
| Size | Document Number | | Rev |
| Custom | EXCEL-VVVF-2013V | 91ENGINEERING.Co | 12-1 |
| Date: | Friday, August 05, 2011 | Sheet | 6 of 8 |

기계실/승강로 결선도

CONTROL PANEL



| HC-21P | | |
|--------|--------|----|
| NO | SIGNAL | No |
| T-01 | AC22 | 01 |
| T-02 | AC22 | 02 |
| T-03 | AC11 | 03 |
| T-04 | AC11 | 04 |
| T-05 | AC10 | 05 |
| T-06 | AC00 | 06 |
| T-07 | AC00 | 07 |
| T-08 | AC00 | 08 |
| T-09 | 3 | 09 |
| T-10 | 4 | 10 |
| T-11 | 5 | 11 |
| T-12 | 6 | 12 |
| T-13 | 7 | 13 |
| T-14 | P24 | 14 |
| T-15 | P24 | 15 |
| T-16 | N24 | 16 |
| T-17 | N24 | 17 |
| T-18 | LU | 18 |
| T-19 | LUZ | 19 |
| T-20 | LDZ | 20 |
| | | 21 |

HC= T-CABLE 1-20 CABLE NO.20

| HD-21P | | |
|--------|--------|----|
| NO | SIGNAL | No |
| T-21 | LD | 01 |
| T-22 | TE1 | 02 |
| T-23 | TE2 | 03 |
| T-24 | TE3 | 04 |
| T-25 | TE4 | 05 |
| T-26 | GND | 06 |
| T-27 | RX | 07 |
| T-28 | /RX | 08 |
| T-29 | TX | 09 |
| T-30 | /TX | 10 |
| T-31 | | 11 |
| T-32 | | 12 |
| T-33 | GND | 13 |
| T-34 | SPK1 | 14 |
| T-35 | SPK2 | 15 |
| T-36 | FR1 | 16 |
| T-37 | FR2 | 17 |
| T-38 | DL | 18 |
| T-39 | B(CPI) | 19 |
| T-40 | A(CPI) | 20 |
| | | 21 |

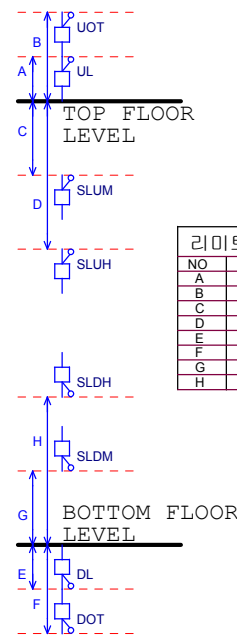
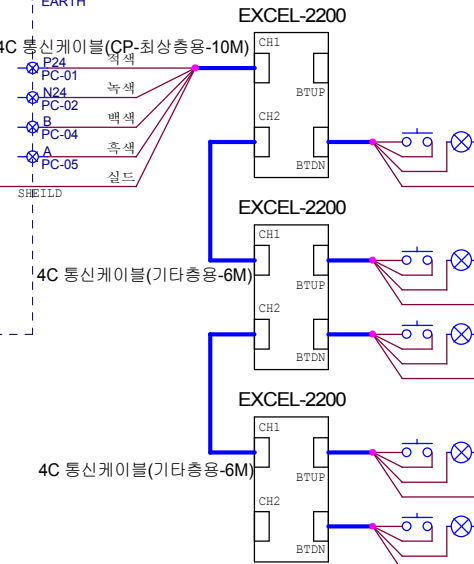
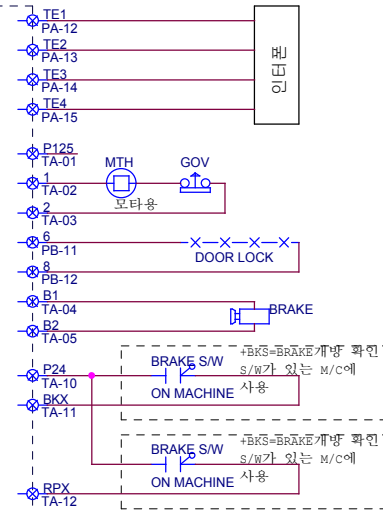
HD= T-CABLE 21-40 CABLE NO.20

HA (상부리미트용
8Cx0.75SQ-10M)

HB (하부리미트용
20Cx0.75SQ)

HC

HD



리미트 스위치 간격

| NO | 60M/MIN | 90M/MIN |
|----|---------|---------|
| A | 30MM | 30MM |
| B | 200MM | 200MM |
| C | 1400MM | 1200MM |
| D | NOT USE | 1800MM |
| E | 30MM | 30MM |
| F | 200MM | 200MM |
| G | 1400MM | 1200MM |
| H | NOT USE | 1800MM |

TM단자(기판)

| NO | SIGNAL |
|-------|--------|
| TM-01 | 4 |
| TM-02 | 5 |
| TM-03 | 6 |
| TM-04 | 7 |
| TM-05 | 8 |
| TM-06 | MC |
| TM-07 | BK1 |
| TM-08 | BK2 |
| TM-09 | 00 |
| TM-10 | T00 |
| TM-11 | T90 |
| TM-12 | V125 |
| TM-13 | BR |
| TM-14 | BTR |
| TM-15 | X1 |
| TM-16 | X2 |
| TM-17 | +24 |
| TM-18 | F2R |
| TM-19 | RPR |
| TM-20 | BMR |

PA단자대(상)

| NO | SIGNAL |
|-------|--------|
| PA-01 | P24 |
| PA-02 | P24 |
| PA-03 | P24 |
| PA-04 | |
| PA-05 | |
| PA-06 | L1X |
| PA-07 | AC00 |
| PA-08 | AC11 |
| PA-09 | L2X |
| PA-10 | L2X |
| PA-11 | |
| PA-12 | TE1 |
| PA-13 | TE2 |
| PA-14 | TE3 |
| PA-15 | TE4 |

TA단자대(내부)

| NO | SIGNAL |
|-------|--------|
| TA-01 | P125 |
| TA-02 | 1 |
| TA-03 | 2 |
| TA-04 | 1-1 |
| TA-05 | B1 |
| TA-06 | B2 |
| TA-07 | BTR |
| TA-08 | BR |
| TA-09 | - |
| TA-10 | P24 |
| TA-11 | BKX |
| TA-12 | RPX |
| TA-13 | - |
| TA-14 | RBK |
| TA-15 | L1X |
| TA-16 | - |
| TA-17 | L2X |
| TA-18 | L1X |
| TA-19 | L2 |
| TA-20 | L1 |

PC단자대(내부)

| NO | SIGNAL |
|-------|--------|
| PC-01 | P24 |
| PC-02 | N24 |
| PC-03 | - |
| PC-04 | B |
| PC-05 | A |
| PC-06 | - |

각층
HPI/HIB DIP
S/W 조정표

| DIP S/W | ON | OFF |
|---------|----|-------|
| 출신 1 | 1 | 2 |
| 1F | 3 | 4 |
| 2F | 5 | 6 |
| 3F | 7 | 8 |
| 4F | 9 | 10 |
| 5F | 11 | 12 |
| 6F | 13 | 14 |
| 7F | 15 | 16 |
| 8F | 17 | 18 |
| 9F | 19 | 20 |
| 10F | 21 | 22 |
| 11F | 23 | 24 |
| 12F | 25 | 26 |
| 13F | 27 | 28 |
| 14F | 29 | 30 |
| 15F | 31 | 32 |
| 16F | 33 | 34 |
| 17F | 35 | 36 |
| 18F | 37 | 38 |
| 19F | 39 | 40 |
| 20F | 41 | 42 |
| 21F | 43 | 44 |
| 22F | 45 | 46 |
| 23F | 47 | 48 |
| 24F | 49 | 50 |
| 25F | 51 | 52 |
| 26F | 53 | 54 |
| 27F | 55 | 56 |
| 28F | 57 | 58 |
| 29F | 59 | 60 |
| 30F | 61 | 62 |
| 31F | 63 | 64 |
| 32F | 65 | 66 |
| 112 | 14 | 81632 |

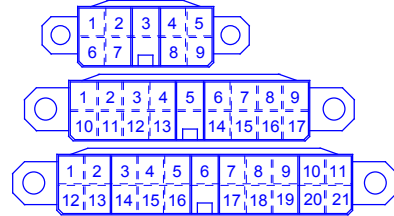
주의!! 상부 및 하부리미트용 하네스 HA,HB는 승강로 스위치 결선완료 후 CP 하네스 잭 에 꽂을것.

HA-9P=상부리미트용

HB-17P=하부리미트용

HC-21P=T-CABLE 1-20

HD-21P=T-CABLE 21-40



(판넬고정용 하네스를 밖에서 바라볼 때의 핀 번호임)

케이블 사양

- HA (상부리미트용 8Cx0.75SQ-10M)
- HB (하부리미트용 20Cx0.75SQ)
- HC= T-CABLE 1-20, HD= T-CABLE 21-40
- HP (카상부-운전반용 12Cx0.5SQ-4.5M)
- HQ (카상부-운전반용 10Cx0.5SQ-4.5M)
- 4C 통신케이블(CP-최상층용-10M,기타층용-6M,CPI용-4M)

| | | | |
|-------------|----------------------------------|------------------|---------|
| DRWN BY | J.H-KWACK | APPD BY | S.D-LEE |
| FIELD NAME | 기계실/승강로 결선도 | | |
| Size Custom | Document Number EXCEL-VVVV-2013V | 91ENGINEERING.Co | |
| Date | Friday, August 05, 2011 | Sheet | 7 of 8 |

카주위 결선도

| NO | SIGNAL | No |
|------|--------|----|
| T-01 | AC22 | 01 |
| T-02 | AC22 | 02 |
| T-03 | AC11 | 03 |
| T-04 | AC11 | 04 |
| T-05 | AC10 | 05 |
| T-06 | AC00 | 06 |
| T-07 | AC00 | 07 |
| T-08 | AC00 | 08 |
| T-09 | 3 | 09 |
| T-10 | 4 | 10 |
| T-11 | 5 | 11 |
| T-12 | 6 | 12 |
| T-13 | 7 | 13 |
| T-14 | P24 | 14 |
| T-15 | P24 | 15 |
| T-16 | N24 | 16 |
| T-17 | N24 | 17 |
| T-18 | LU | 18 |
| T-19 | LUZ | 19 |
| T-20 | LDZ | 20 |
| T-21 | | 21 |

| NO | SIGNAL | No |
|------|--------|----|
| T-21 | LD | 01 |
| T-22 | TE1 | 02 |
| T-23 | TE2 | 03 |
| T-24 | TE3 | 04 |
| T-25 | TE4 | 05 |
| T-26 | GND | 06 |
| T-27 | RX | 07 |
| T-28 | /RX | 08 |
| T-29 | TX | 09 |
| T-30 | /TX | 10 |
| T-31 | | 11 |
| T-32 | | 12 |
| T-33 | GND | 13 |
| T-34 | SPK1 | 14 |
| T-35 | SPK2 | 15 |
| T-36 | FR1 | 16 |
| T-37 | FR2 | 17 |
| T-38 | DL | 18 |
| T-39 | B(CPI) | 19 |
| T-40 | A(CPI) | 20 |
| T-41 | | 21 |

HP (카상부-운전반용
12Cx0.5SQ-4.5M)

HQ (카상부-운전반용
10Cx0.5SQ-4.5M)

OPB 단자대

| NO | SIGNAL |
|-------|--------|
| OM-01 | 5 |
| OM-02 | 6 |
| OM-03 | LX |
| OM-04 | LX1 |
| OM-05 | FX |
| OM-06 | FX1 |
| OM-07 | P24 |
| OM-08 | N24 |
| OM-09 | OAT |
| OM-10 | IAT |
| OM-11 | IHA |
| OM-12 | IHD |
| OM-13 | IHD |
| OM-14 | ATT |
| OM-15 | PAS |
| OM-16 | DCS |
| OM-17 | TE1 |
| OM-18 | TE2 |
| OM-19 | TE3 |
| OM-20 | TE4 |

HC-21P=T-CABLE 1

HD-21P=T-CABLE 2

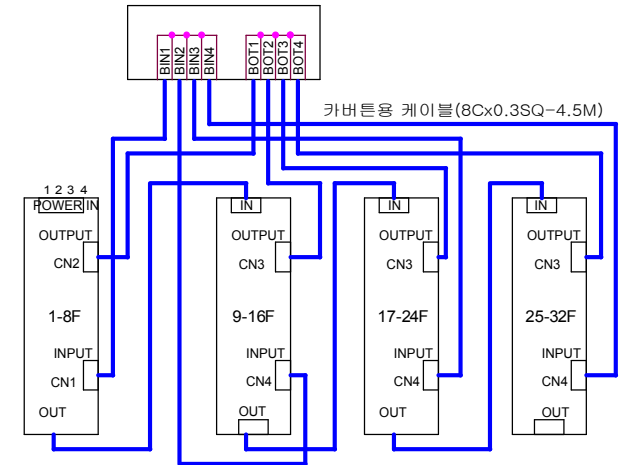


HP-13P=TOP B/D TO OPB

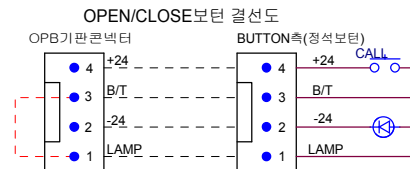
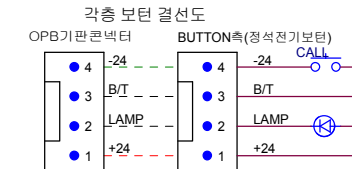
HQ-13P=TOP B/D TO OPB



(판별고정용 하네스를 밖에서 바라볼 때의 핀 번호임)



OPB CAR CALL 단자대



| COLOR | NO | SIGNAL |
|-------|-------|--------|
| 녹색 | HP-01 | 5 |
| 갈색 | HP-02 | 6 |
| 청색 | HP-03 | LX |
| 흰색 | HP-04 | LX1 |
| 황색 | HP-05 | FX |
| 녹색 | HP-06 | FX1 |
| 청색 | HP-07 | P24 |
| 회색 | HP-08 | N24 |
| 회색 | HP-09 | TE1 |
| 회색 | HP-10 | TE2 |
| 분홍색 | HP-11 | TE3 |
| 하늘색 | HP-12 | TE4 |
| | HP-13 | |

| COLOR | NO | SIGNAL |
|-------|-------|--------|
| 녹색 | HQ-01 | AUTO |
| 갈색 | HQ-02 | IAT |
| 분홍색 | HQ-03 | IHA |
| 황색 | HQ-04 | IHD |
| 녹색 | HQ-05 | IHD |
| 청색 | HQ-06 | ATT |
| 회색 | HQ-07 | PAS |
| 회색 | HQ-08 | DCS |
| 회색 | HQ-09 | DOB |
| 하늘색 | HQ-10 | DCB |
| | HQ-11 | |
| | HQ-12 | |
| | HQ-13 | |

| NO | SIGNAL |
|-------|--------|
| TB-01 | L2X |
| TB-02 | L2X |
| TB-03 | AC11 |
| TB-04 | AC10 |
| TB-05 | AC00 |
| TB-06 | L1X |
| TB-07 | L1X |
| TB-08 | LX1 |
| TB-09 | FX1 |
| TB-10 | 3 |
| TB-11 | 3-1 |
| TB-12 | 4 |
| TB-13 | 5 |
| TB-14 | 6 |
| TB-15 | 7 |
| TB-16 | P24 |
| TB-17 | P24 |
| TB-18 | P24 |
| TB-19 | N24 |
| TB-20 | N24 |

| NO | SIGNAL |
|-------|--------|
| TB-21 | LU |
| TB-22 | LUZ |
| TB-23 | LDZ |
| TB-24 | LD |
| TB-25 | OP |
| TB-26 | CL |
| TB-27 | DOL |
| TB-28 | DCL |
| TB-29 | L30 |
| TB-30 | L80 |
| TB-31 | LOL |
| TB-32 | STE |
| TB-33 | PTC |
| TB-34 | TE3 |
| TB-35 | TE4 |
| TB-36 | SPK1 |
| TB-37 | SPK2 |
| TB-38 | CMU |
| TB-39 | B(CPI) |
| TB-40 | A(CPI) |

케이블 사양

HA (상부리미트용 8Cx0.75SQ-10M)
HB (하부리미트용 20Cx0.75SQ)
HC= T-CABLE 1-20, HD= T-CABLE 21-40
HP (카상부-운전반용 12Cx0.5SQ-4.5M)
HQ (카상부-운전반용 10Cx0.5SQ-4.5M)
4C 통신케이블(CP-최상층용-10M,기타층용-6M,CPI용-4M)
카버튼용 케이블(8Cx0.3SQ-4.5M)

| | | | |
|------------|-------------------------|---------|---------|
| DRWN BY | J.H-KWACK | APPD BY | S.D-LEE |
| FIELD NAME | 카주위 결선도 | | |
| Size | Document Number | Rev | |
| Custom | EXCEL-VVVF-2013V | 12-1 | |
| Date: | Friday, August 05, 2011 | Sheet | 8 of 8 |

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