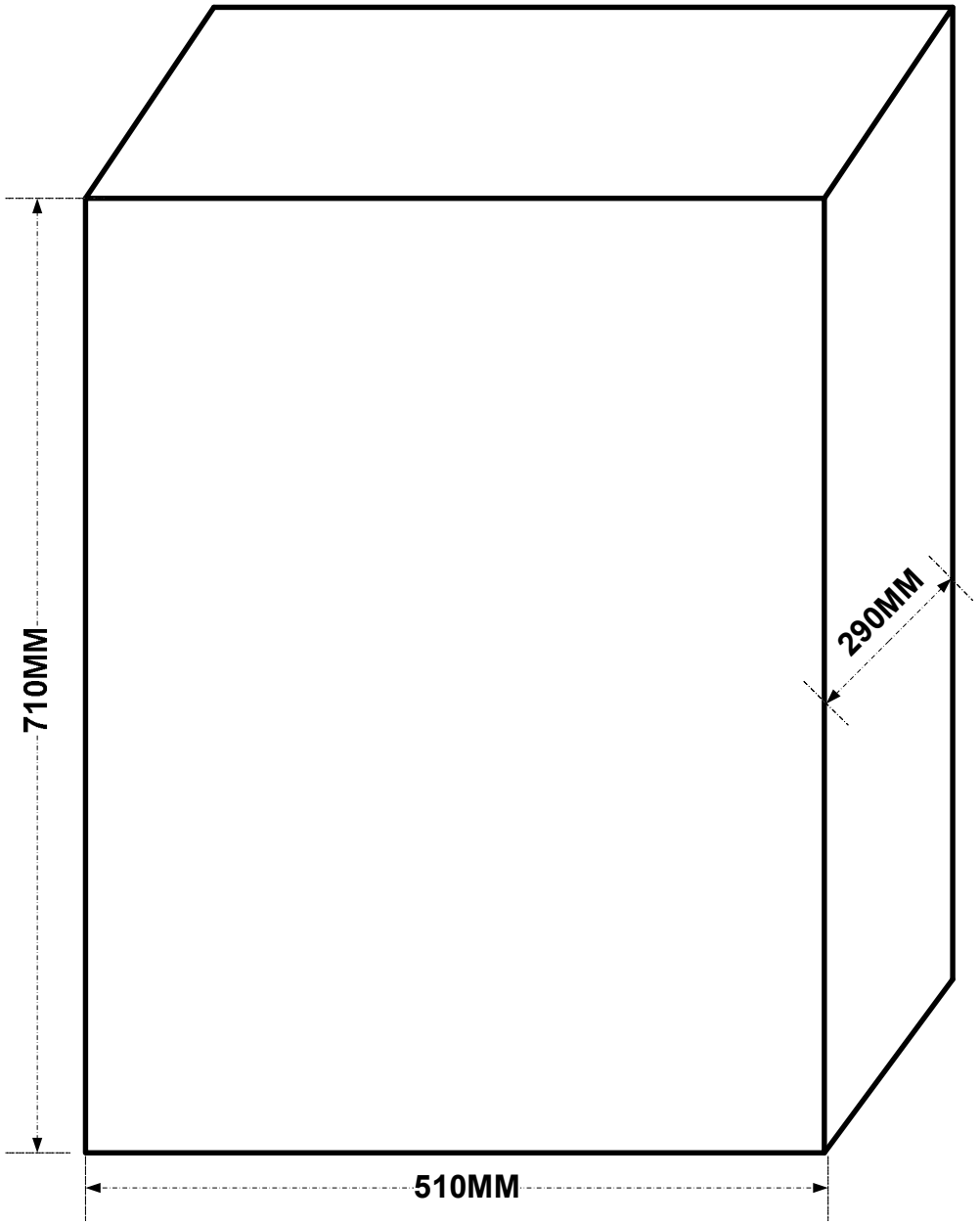
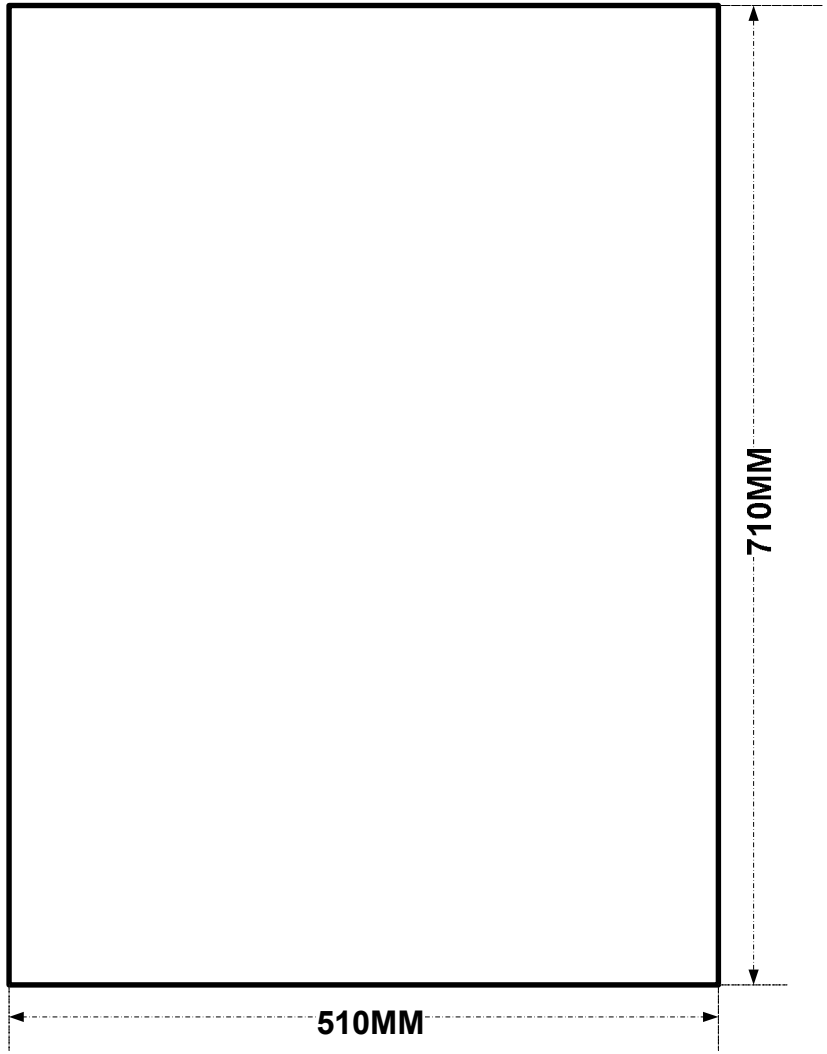
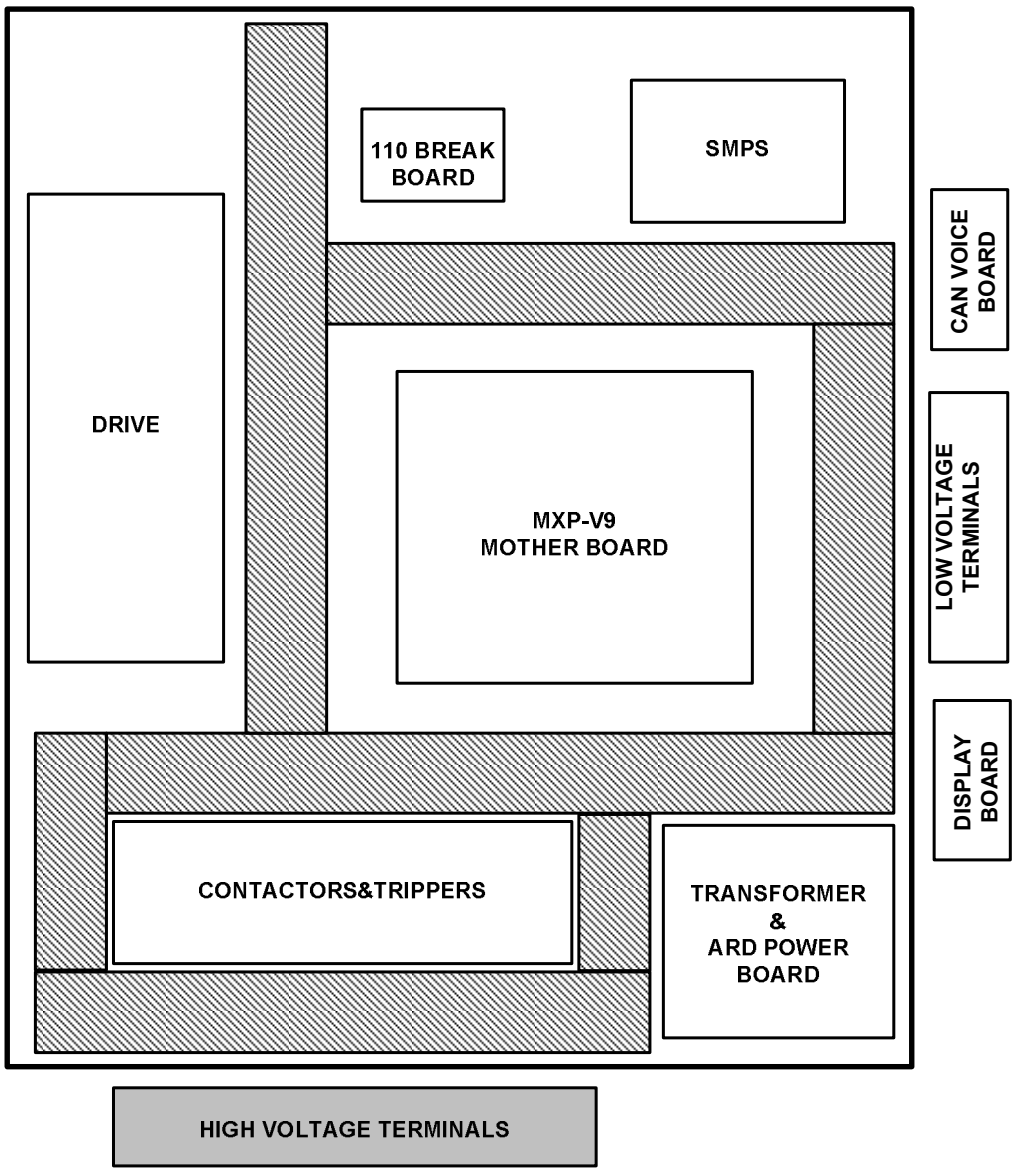
PORTABLE BOX & PLATE DIMENSIONS



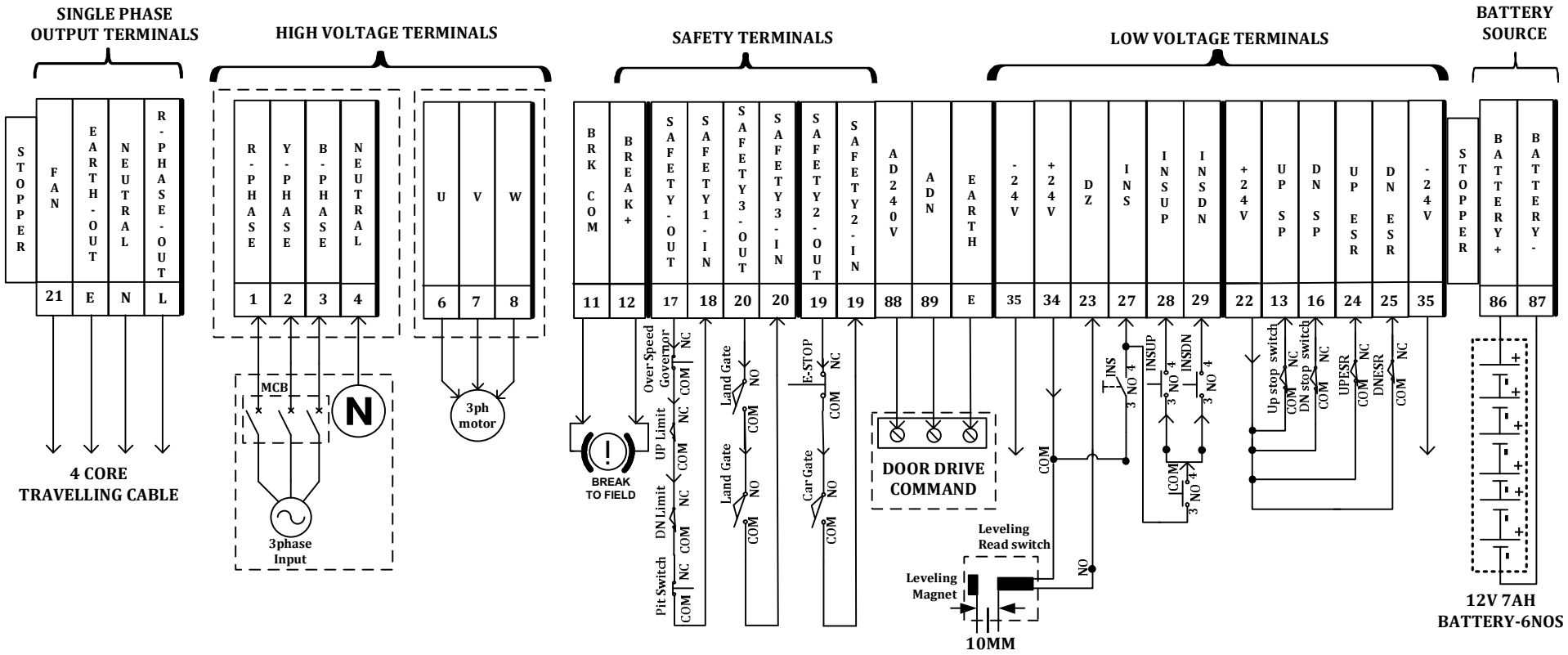


PORTABLE PLATE PANEL LAYOUT



PARALLEL PM DIRECT LANDING AUTO DOOR

PARALLEL PM DIRECT LANDING PANEL TERMINALS AND FIELD WIRING DETAILS



DZ	- DOOR ZONE
AD240V	-AUTO DOOR 240V
ADN	-AUTO DOOR NEUTRAL
INS	-INSPECTION
INSUP	-INSPECTION UP
INSDN	-INSPECTION DOWN

Read Switch Slowing Wiring

Mother Board Read Switch Slowing Program Setting

- P01 – 60%
- P02 – 60%
- P26 – 100S

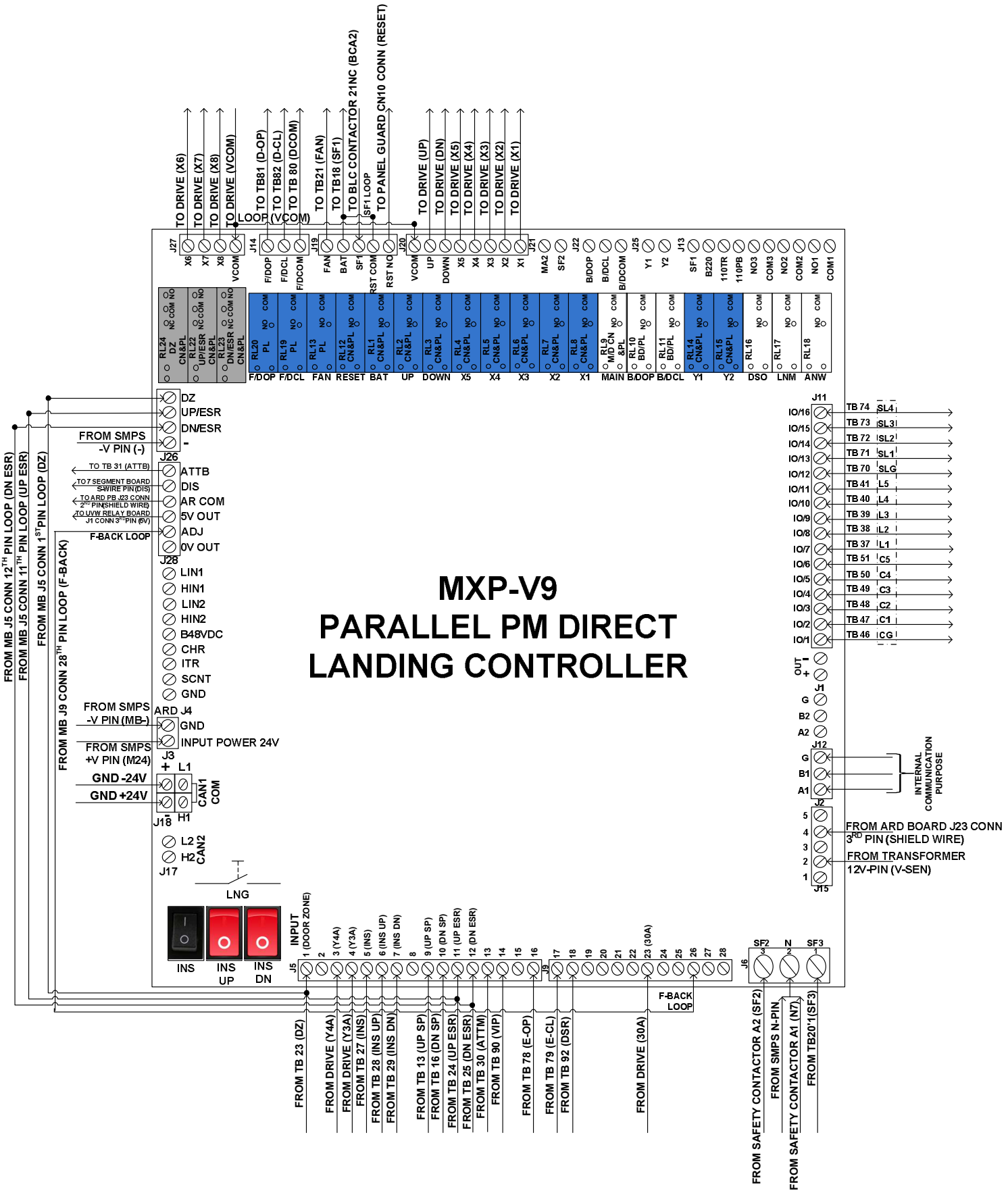
CONNECTOR& WIRE COLOUR CODE DETAILS

RED	+24 VOLT
BLUE	-24 VOLT
GRAY	AC VOLT
BLACK	NEUTRAL
YELLOW	COMMON
GREEN	EARTH

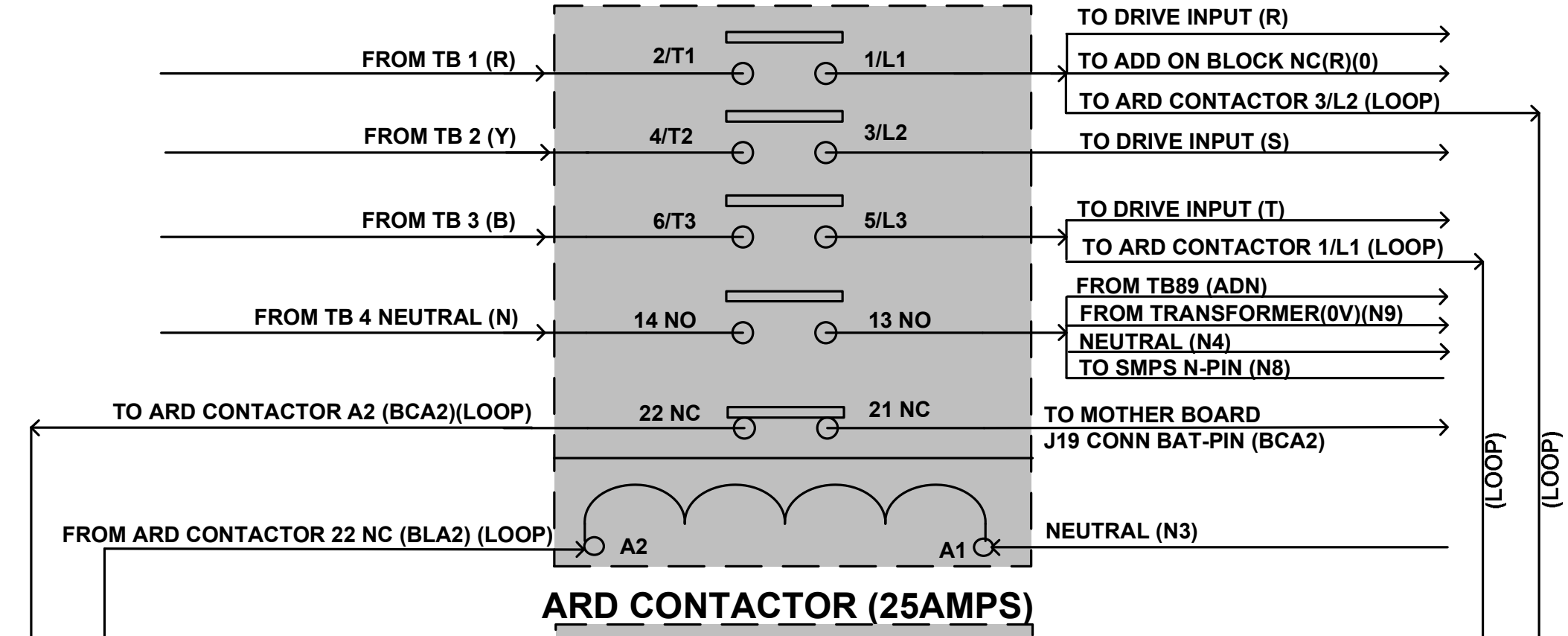
Product Name	Parallel PM Direct Landing with ARD
Model	Auto Door
Specification	Down/Full Collective
SW Version	V5001.B
Last Updated	06.09.2024
www.mabara.com	

NOTE: DO NOT MIX NEUTRAL AND AUTO DOOR NEUTRAL WIRING

PARALLEL PM DIRECT LANDING MXP-V9 MOTHER BOARD WIRING DIAGRAM



BLC CONTACTOR (25AMPS)

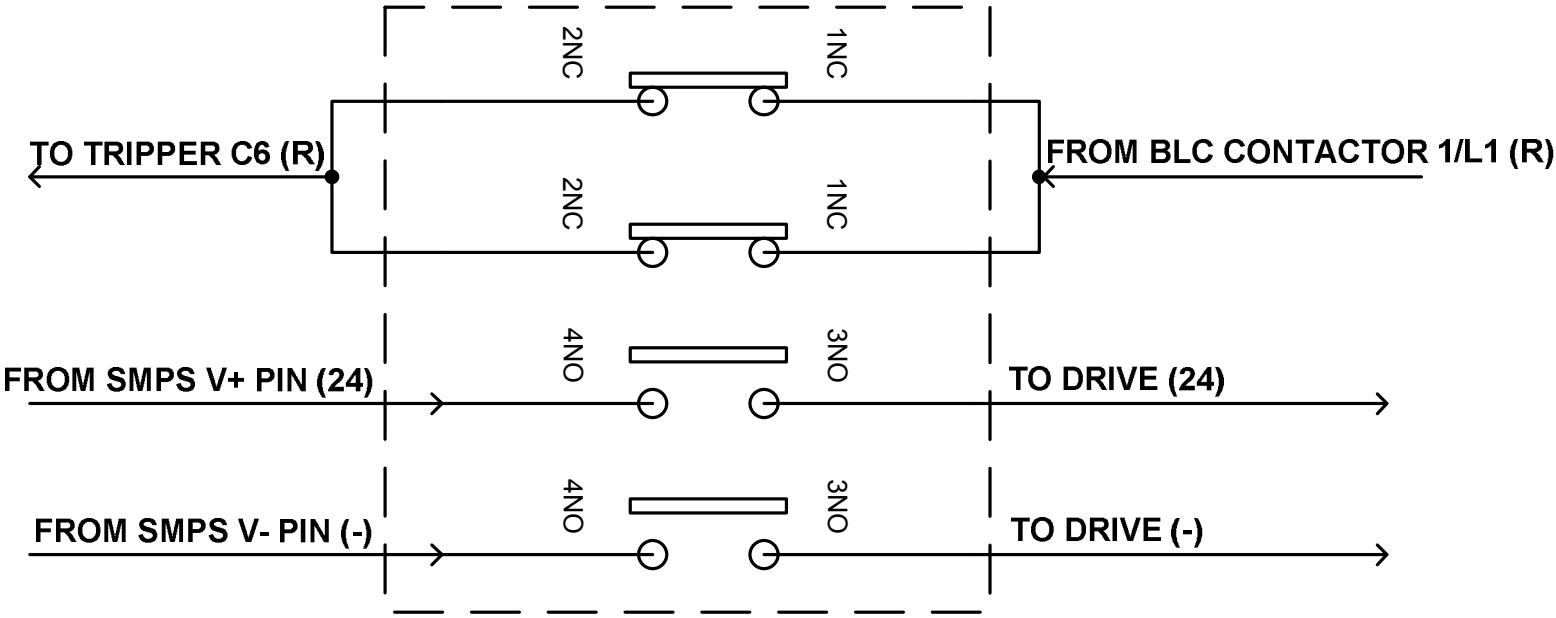


ARD CONTACTOR (25AMPS)

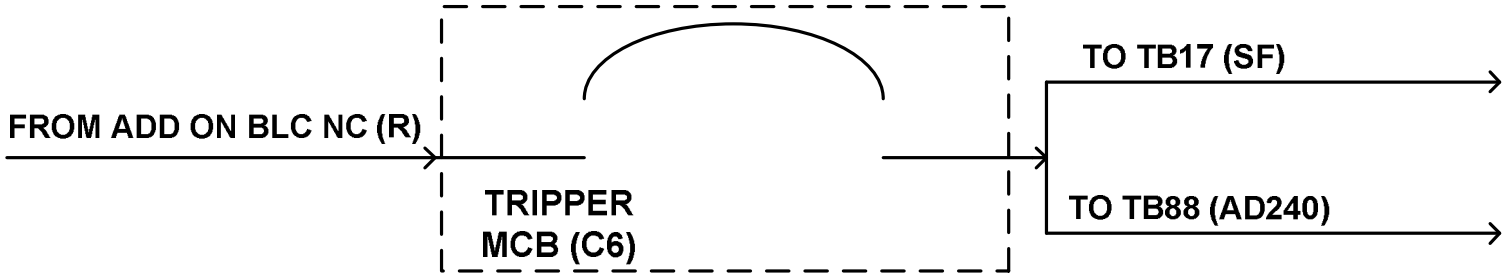
SAFETY CONTACTOR (9 AMPS)

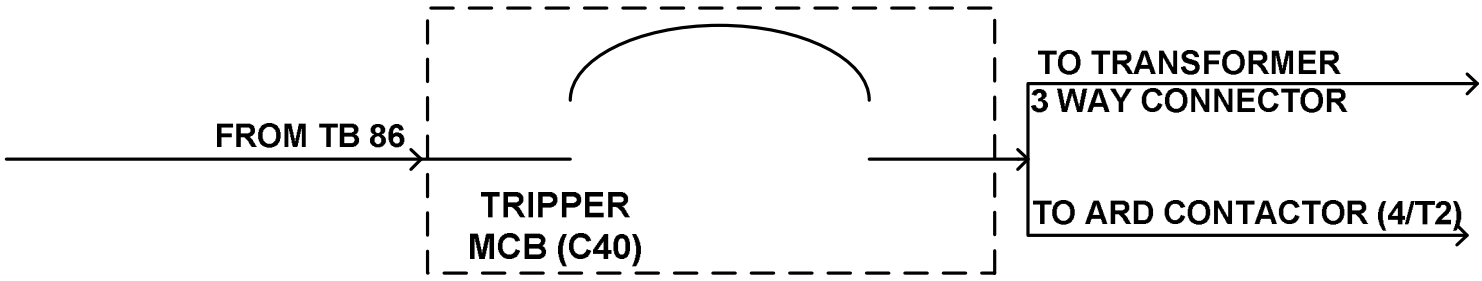
BREAK CONTACTOR (9AMPS)

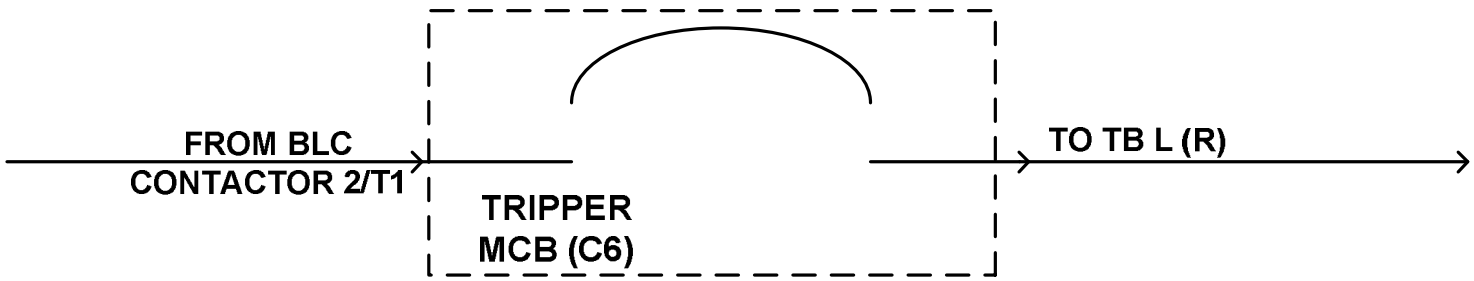
ADD ON BLOCK



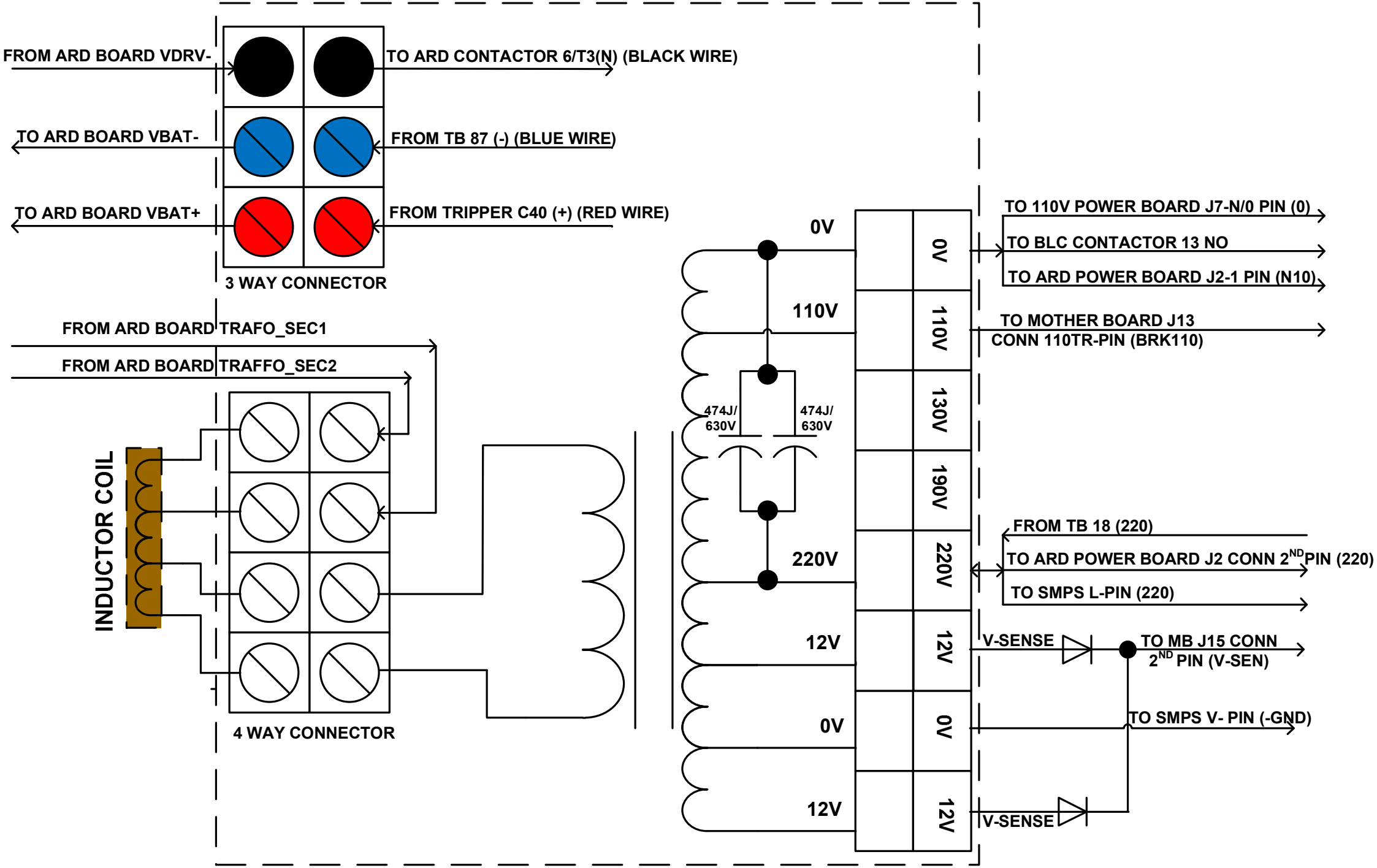
TRIPPER

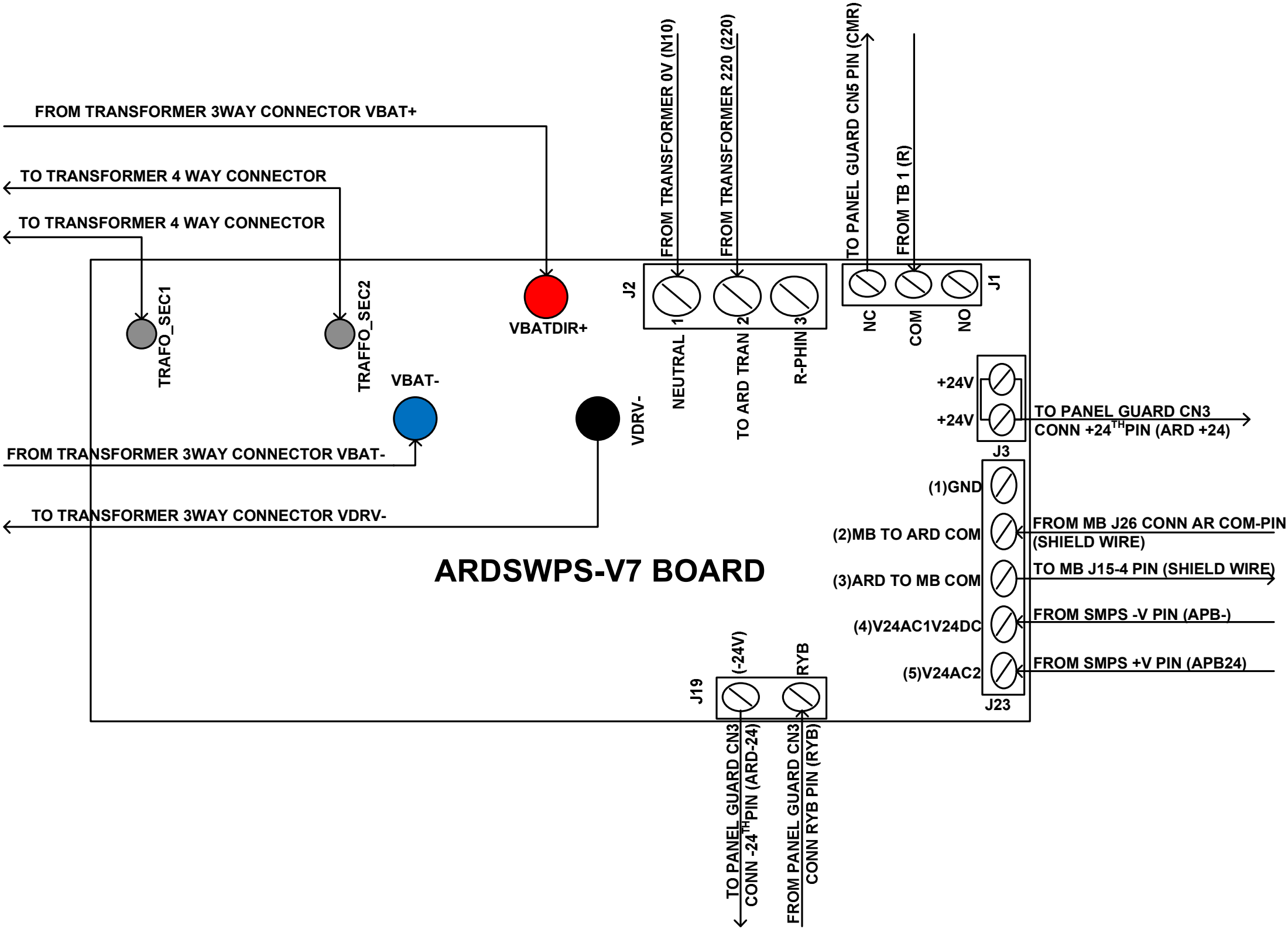


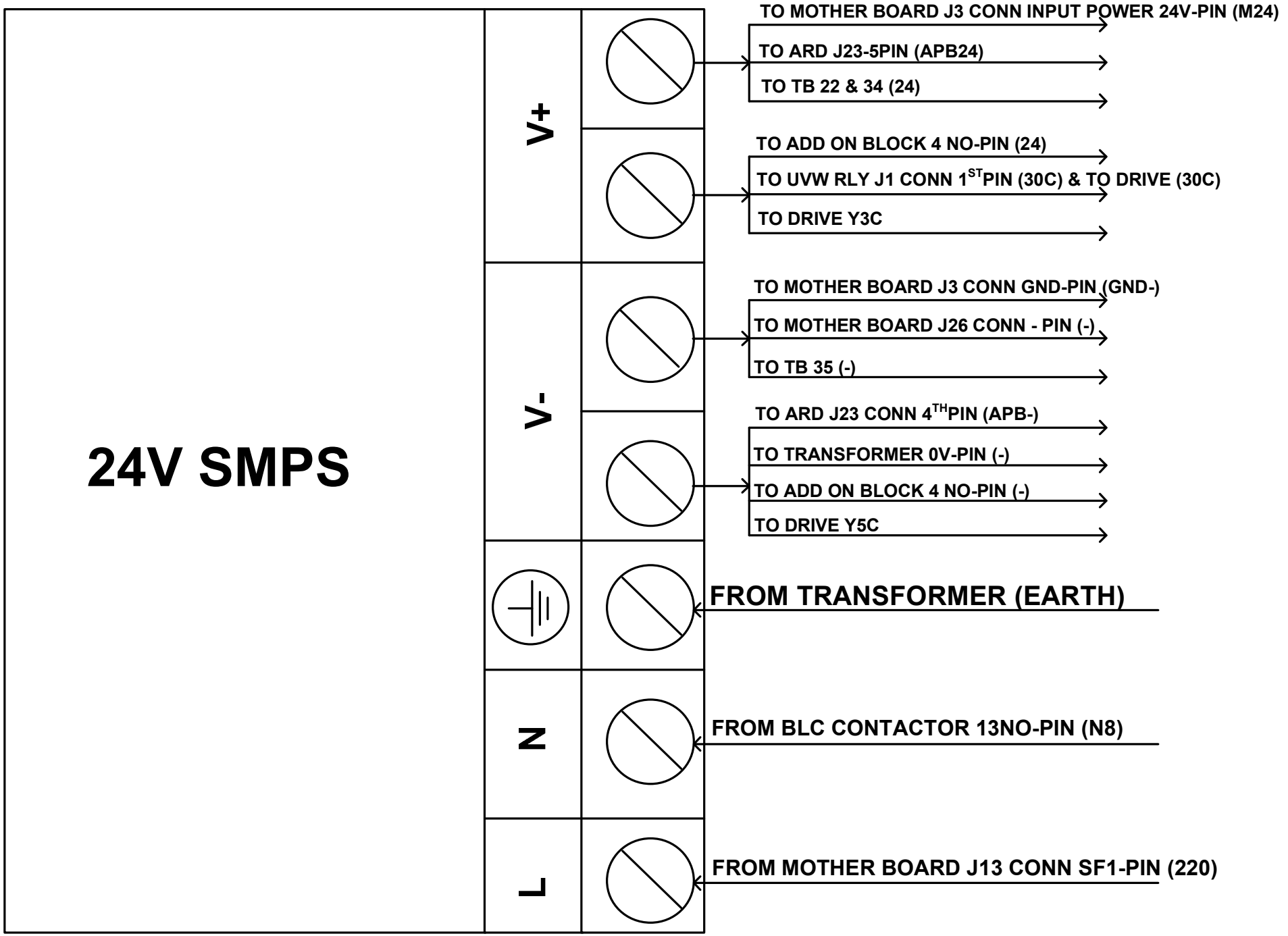




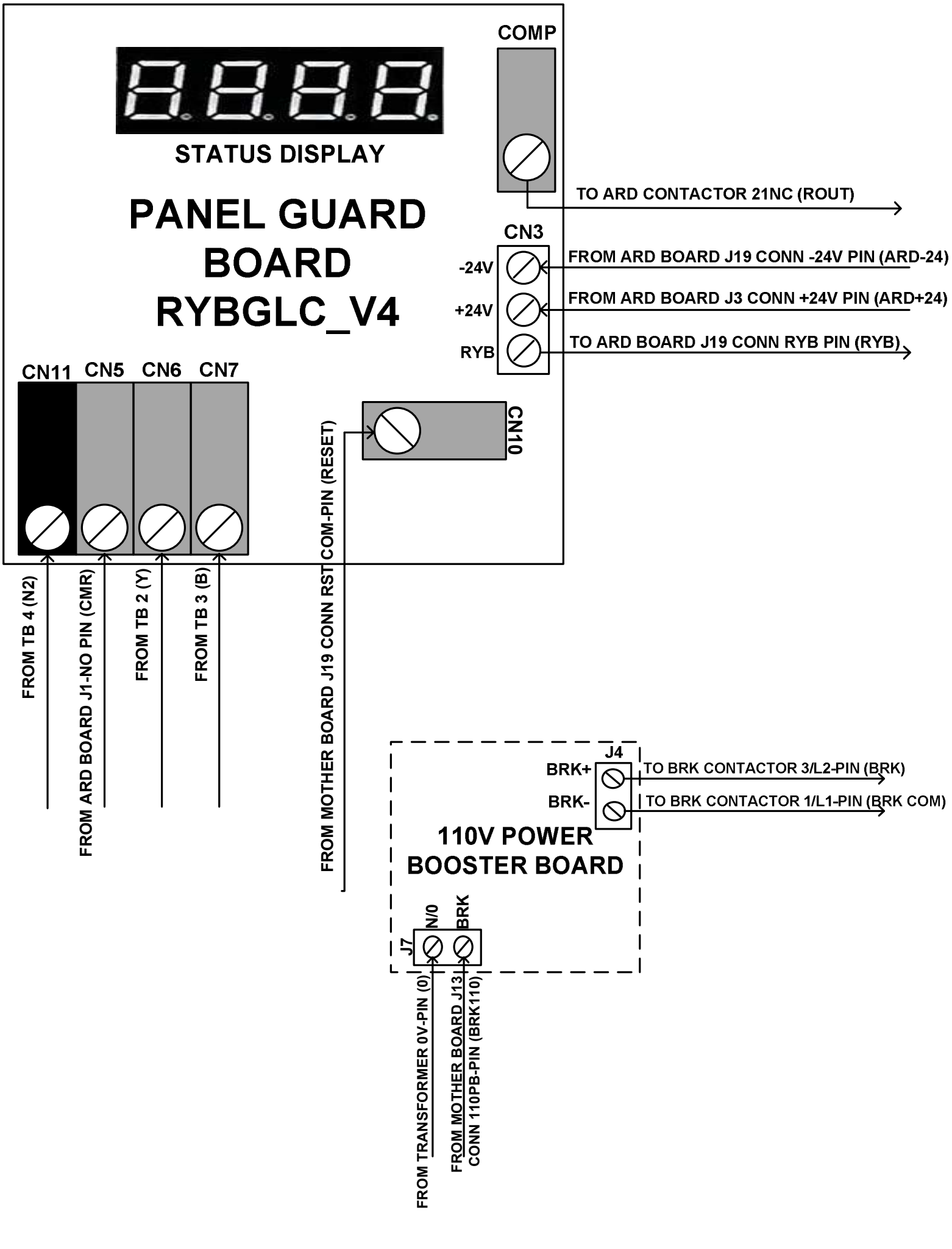
ARD TRANSFORMER

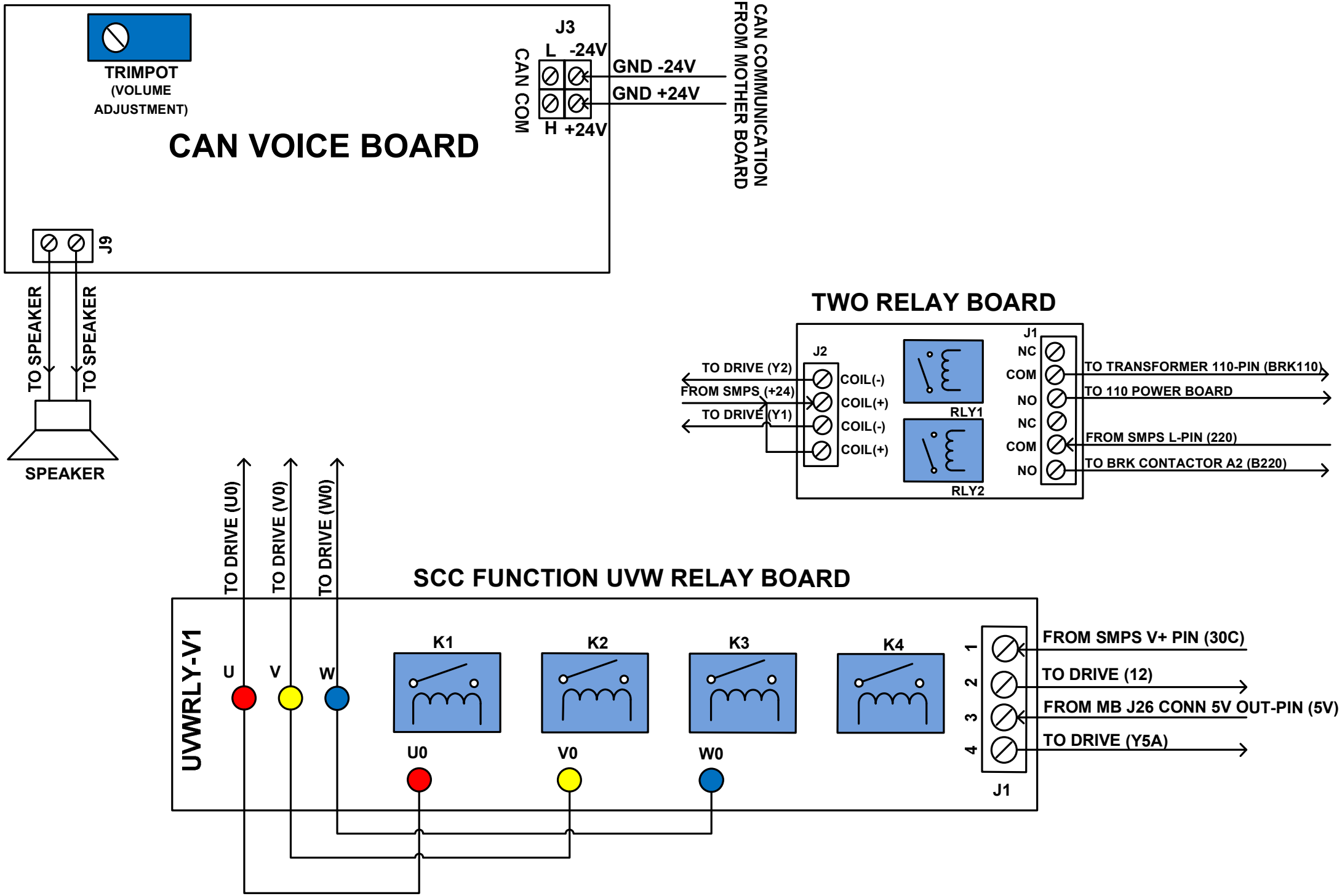


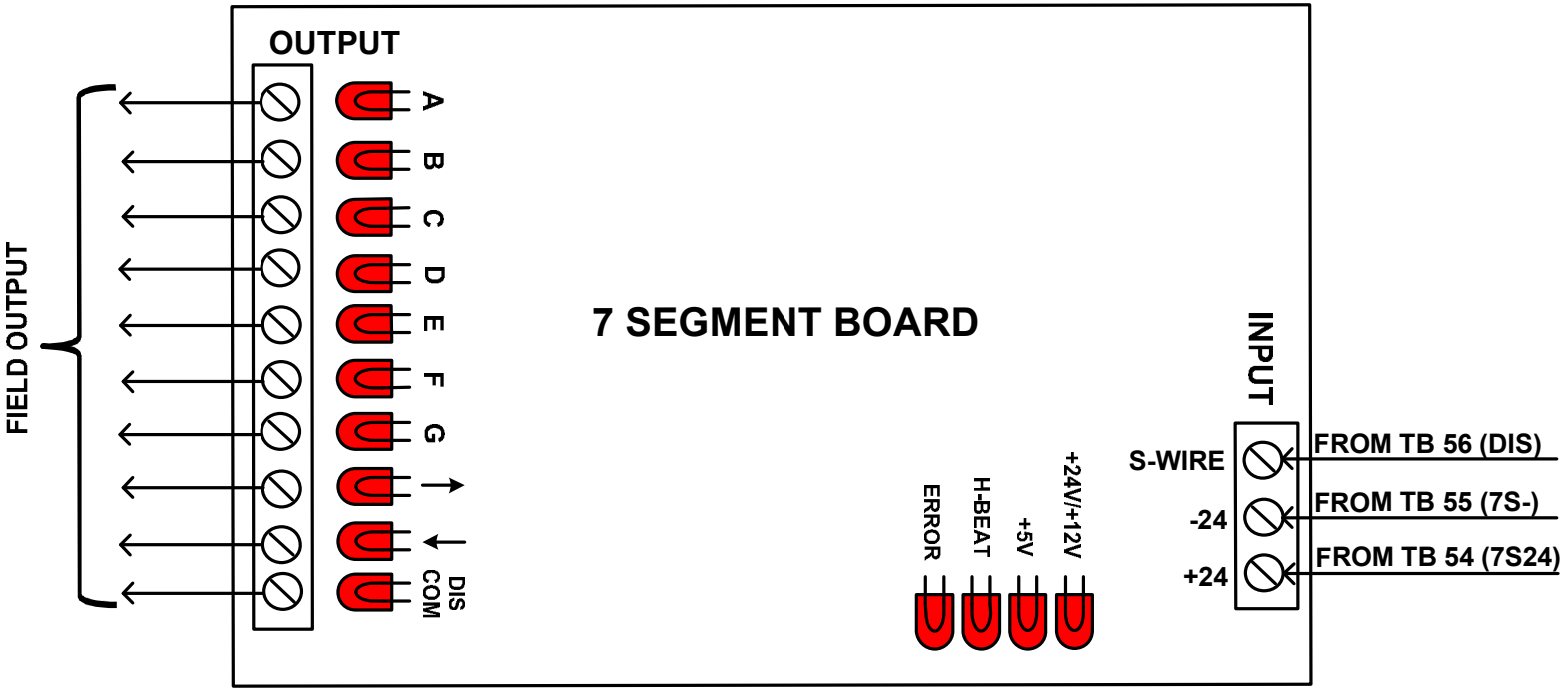

FROM TRANSFORMER 3WAY CONNECTOR VBAT+
TO TRANSFORMER 4 WAY CONNECTOR
TO TRANSFORMER 4 WAY CONNECTOR
TRAFO_SEC1
TRAFFO_SEC2
VBATDIR+
VBAT-
VDRV-
FROM TRANSFORMER 3WAY CONNECTOR VBAT-
TO TRANSFORMER 3WAY CONNECTOR VDRV-
FROM TRANSFORMER 0V (N10)
FROM TRANSFORMER 220 (220)
TO PANEL GUARD CN5 PIN (CMR)
FROM TB 1 (R)
J2
1
2
3
NEUTRAL
TO ARD TRAN
R-PHIN
NC
COM
NO
J1
+24V
+24V
TO PANEL GUARD CN3
CONN +24TH PIN (ARD +24)
J3
(1)GND
(2)MB TO ARD COM
FROM MB J26 CONN AR COM-PIN
(SHIELD WIRE)
(3)ARD TO MB COM
TO MB J15-4 PIN (SHIELD WIRE)
(4)V24AC1V24DC
FROM SMPS -V PIN (APB-)
(5)V24AC2
FROM SMPS +V PIN (APB24)
J23
ARDSWPS-V7 BOARD
J19
(-24V)
RYB
TO PANEL GUARD CN3
CONN -24TH PIN (ARD-24)
FROM PANEL GUARD CN3
CONN RYB PIN (RYB)


24V SMPS
V+
V-
N
L
TO MOTHER BOARD J3 CONN INPUT POWER 24V-PIN (M24)
TO ARD J23-5PIN (APB24)
TO TB 22 & 34 (24)
TO ADD ON BLOCK 4 NO-PIN (24)
TO UVW RLY J1 CONN 1ST PIN (30C) & TO DRIVE (30C)
TO DRIVE Y3C
TO MOTHER BOARD J3 CONN GND-PIN (GND-)
TO MOTHER BOARD J26 CONN - PIN (-)
TO TB 35 (-)
TO ARD J23 CONN 4TH PIN (APB-)
TO TRANSFORMER 0V-PIN (-)
TO ADD ON BLOCK 4 NO-PIN (-)
TO DRIVE Y5C
FROM TRANSFORMER (EARTH)
FROM BLC CONTACTOR 13NO-PIN (N8)
FROM MOTHER BOARD J13 CONN SF1-PIN (220)

ARD LIFT DIRECT LANDING
PANEL GUARD BOARD




TRIMPOT
(VOLUME
ADJUSTMENT)
CAN VOICE BOARD
J3
L -24V
H +24V
CAN COM
GND -24V
GND +24V
CAN COMMUNICATION
FROM MOTHER BOARD
J9
TO SPEAKER
TO SPEAKER
SPEAKER
TWO RELAY BOARD
J2
TO DRIVE (Y2)
FROM SMPS (+24)
TO DRIVE (Y1)
COIL(-)
COIL(+)
COIL(-)
COIL(+)
RLY1
RLY2
J1
NC
COM
NO
NC
COM
NO
TO TRANSFORMER 110-PIN (BRK110)
TO 110 POWER BOARD
FROM SMPS L-PIN (220)
TO BRK CONTACTOR A2 (B220)
SCC FUNCTION UVW RELAY BOARD
TO DRIVE (U0)
TO DRIVE (V0)
TO DRIVE (W0)
UVWRLY-V1
U
V
W
K1
K2
K3
K4
U0
V0
W0
1
2
3
4
J1
FROM SMPS V+ PIN (30C)
TO DRIVE (12)
FROM MB J26 CONN 5V OUT-PIN (5V)
TO DRIVE (Y5A)


OUTPUT
FIELD OUTPUT
A
B
C
D
E
F
G
DIS
COM
7 SEGMENT BOARD
ERROR
H-BEAT
+5V
+24V/+12V
INPUT
S-WIRE
-24
+24
FROM TB 56 (DIS)
FROM TB 55 (7S-)
FROM TB 54 (7S24)