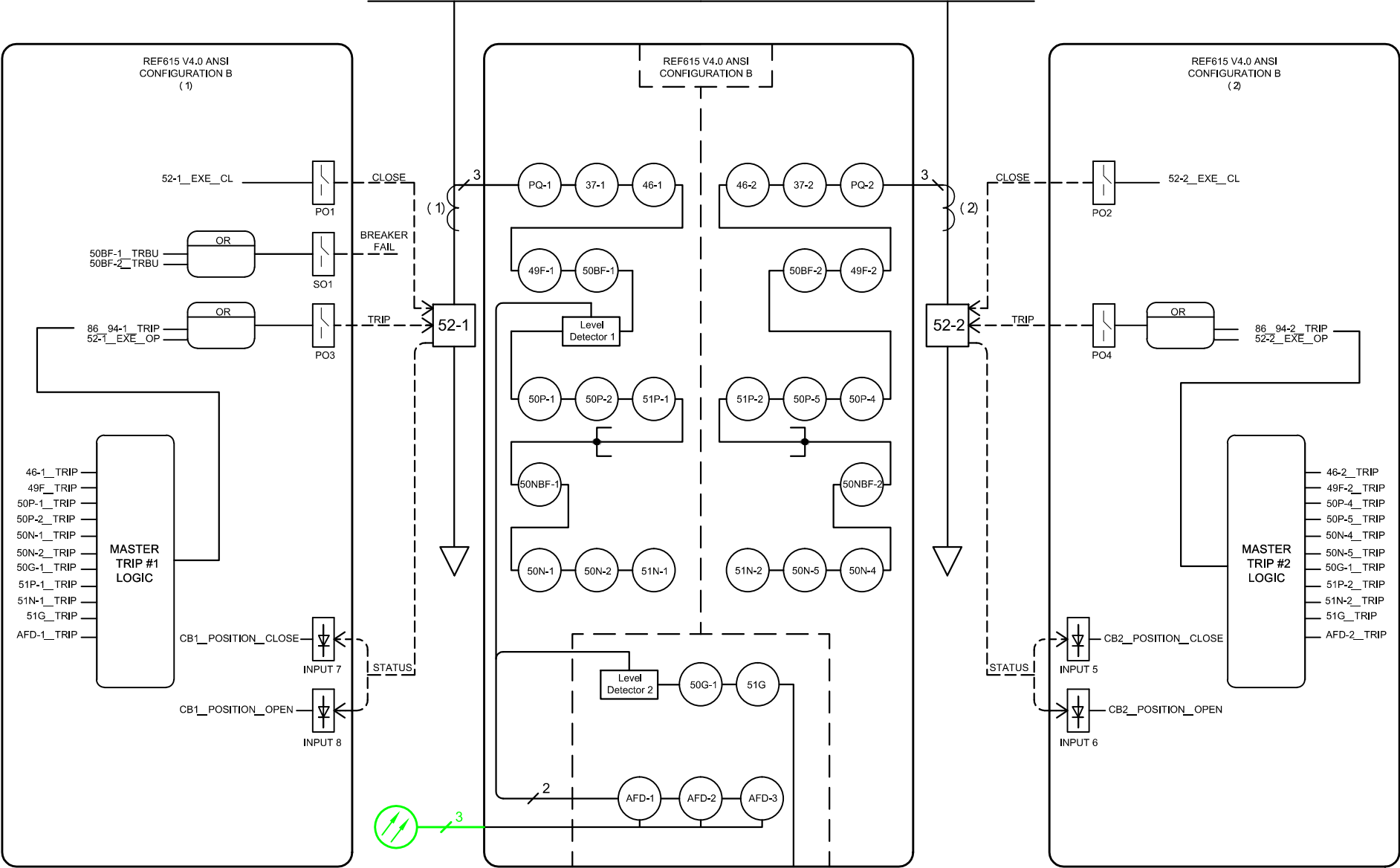


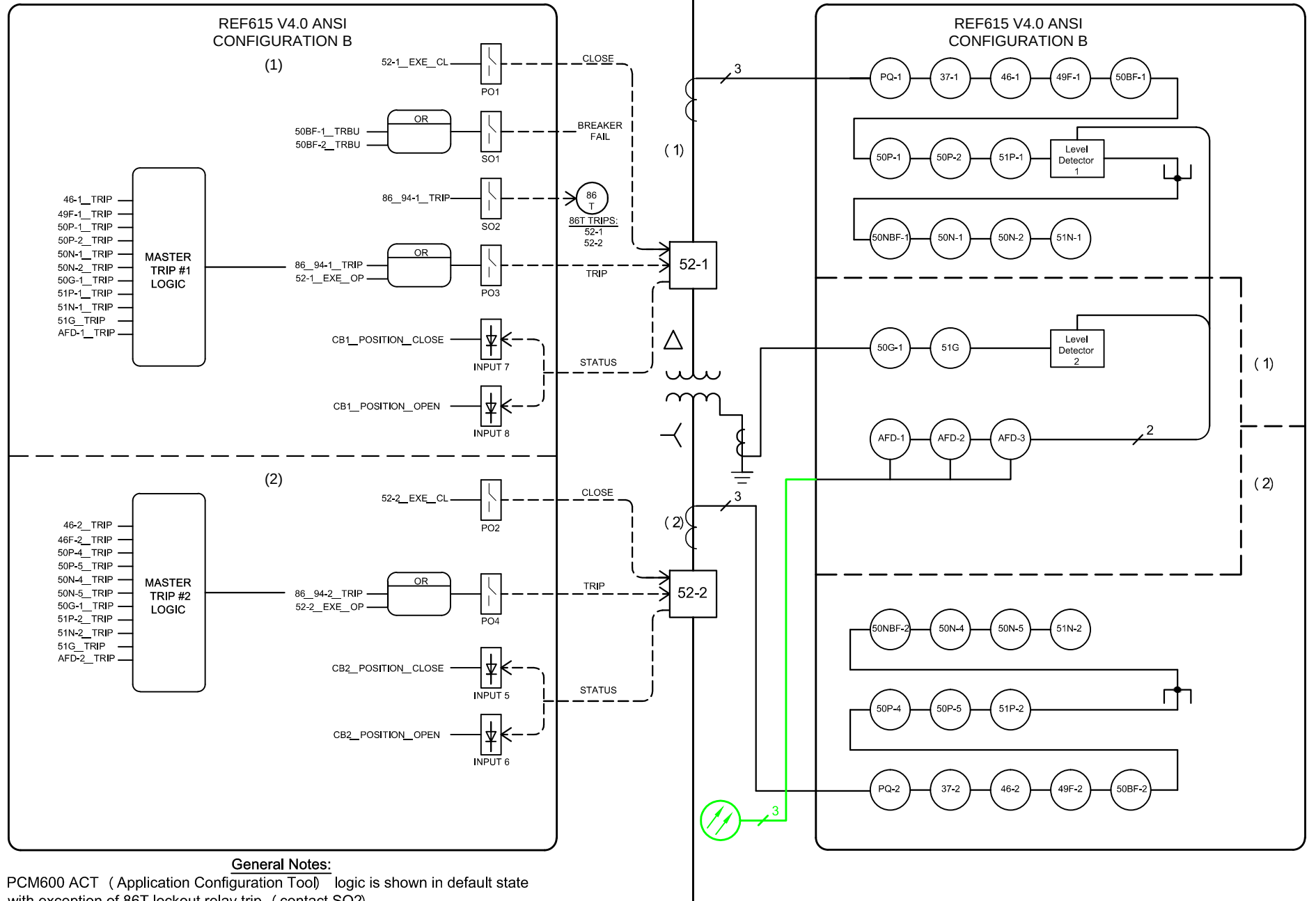
REF615_HAFBBABAF1BBN1XE (FEEDER APPLICATION)



General Notes:

PCM600 ACT (Application Configuration Tool) logic is shown in default state.

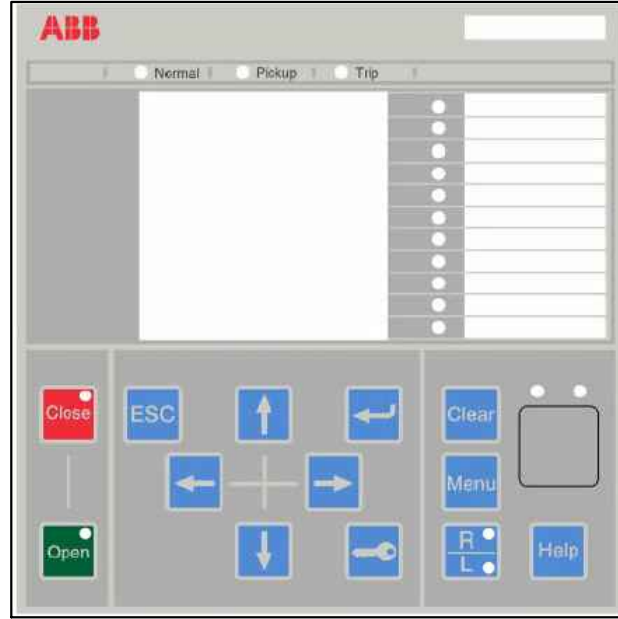
REF615_HAFBBABAF1BBN1XE (TRANSFORMER APPLICATION)



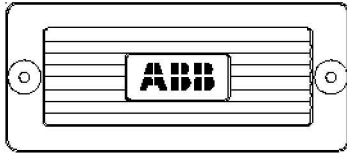
General Notes:

PCM600 ACT (Application Configuration Tool) logic is shown in default state with exception of 86T lockout relay trip (contact SO2) .

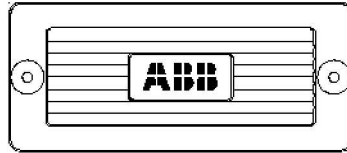
REF615_HAFBBABAF1BCN1XE (FEEDER APPLICATION)



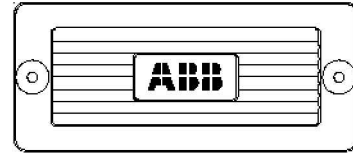
FT-1/TS1
Style No: 774B430G20
CODE No: 171



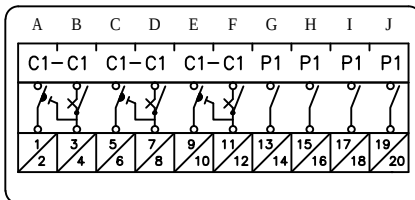
FT-1/TS2
Style No: 129A501G01
Code No: 001



FT-1/TS3
Style No: 774B430G20
Code No: 171

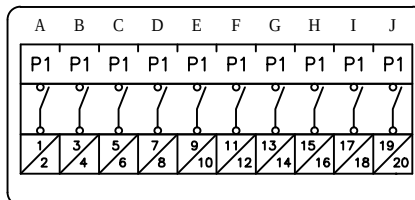


PHASE CURRENT
■ IA (1)
PHASE CURRENT
■ IB (1)
PHASE CURRENT
■ IC (1)
RELAY POS. V DC
RELAY NEG. V DC



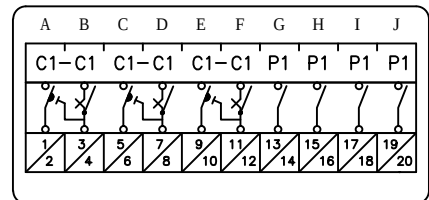
(RELAY 1 CURRENTS AND
POWER SUPPLY)

52-1_EXE_CL (PO1)
86_94-1_TRIP/52-1_EXE_OP (PO3)
50BF-1_TRBU/50BF-2_TRBU (SO1)
CB1_POSITION_CLOSE (IN7)
CB1_POSITION_OPEN (IN8)
52-2_EXE_CL (PO2)
86_94-2_TRIP/52-2_EXE_OP (PO4)
CB2_POSITION_CLOSE (IN5)
CB2_POSITION_OPEN (IN6)



(RELAY 1 ← BINARY I/O → RELAY 2)

PHASE CURRENT
■ IA (2)
PHASE CURRENT
■ IB (2)
PHASE CURRENT
■ IC (2)

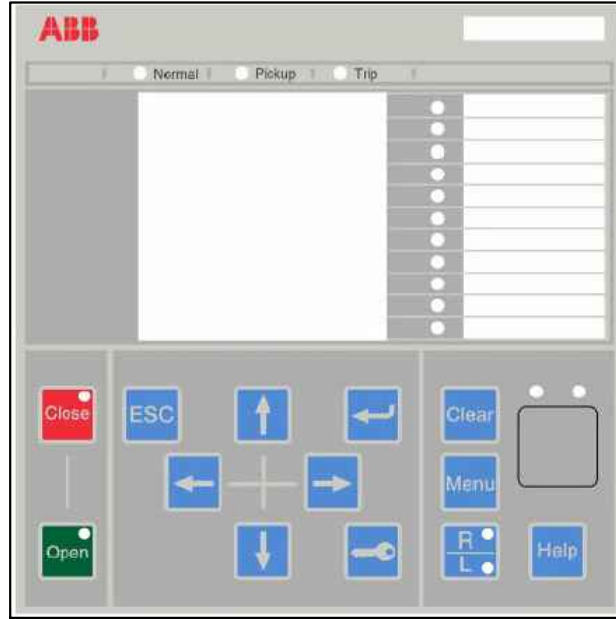


(RELAY 2 CURRENTS)

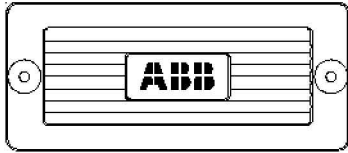
General Notes:

- Style and code numbers for FT-1 switches provide black covers and handles, screw terminals and standard depth. Poles selection follows arrangement shown in this drawing set. For custom designs, different selection options can be made by using FT-1 configurator at ft1switch.com
- Refer to 615 series ANSI Installation Manual for relay and cutout dimensions (Document ID: 1MACCO51065-MB, Revision: D, Product version 4.0)

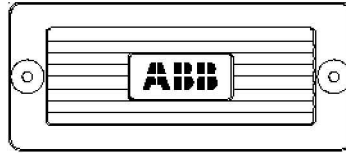
REF615_HAFBBABAFFE1BCN1XE (TRANSFORMER APPLICATION)



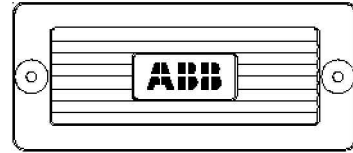
FT-1/TS1
Style No: 837A407G01
CODE No: 083



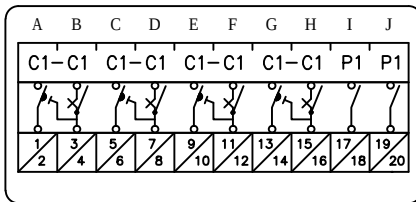
FT-1/TS2
Style No: 129A501G01
Code No: 001



FT-1/TS3
Style No: 774B430G20
Code No: 171

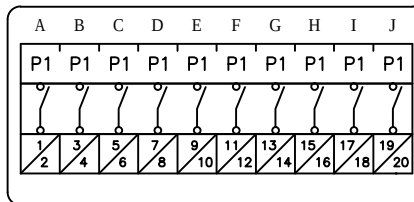


PHASE CURRENT
■ IA (1)
PHASE CURRENT
■ IB (1)
PHASE CURRENT
■ IC (1)
GROUND CURRENT
■ IG
RELAY POS. V DC
RELAY NEG. V DC



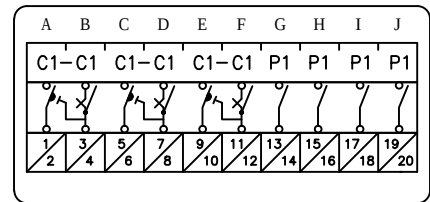
(RELAY 1 CURRENTS, TRANSFORMER
NEUTRAL CURRENT AND
POWER SUPPLY)

52-1_EXE_CL (PO1)
86_94-1_TRIP/52-1_EXE_OP (PO3)
50BF-1_TRBU/50BF-2_TRBU (SO1)
86_94-1_TRIP/86T (SO2)
CB1_POSITION_CLOSE (IN7)
CB1_POSITION_OPEN (IN8)
52-2_EXE_CL (PO2)
86_94-2_TRIP/52-2_EXE_OP (PO4)
CB2_POSITION_CLOSE (IN5)
CB2_POSITION_OPEN (IN6)



(RELAY 1 ← BINARY I/O → RELAY 2)

PHASE CURRENT
■ IA (2)
PHASE CURRENT
■ IB (2)
PHASE CURRENT
■ IC (2)

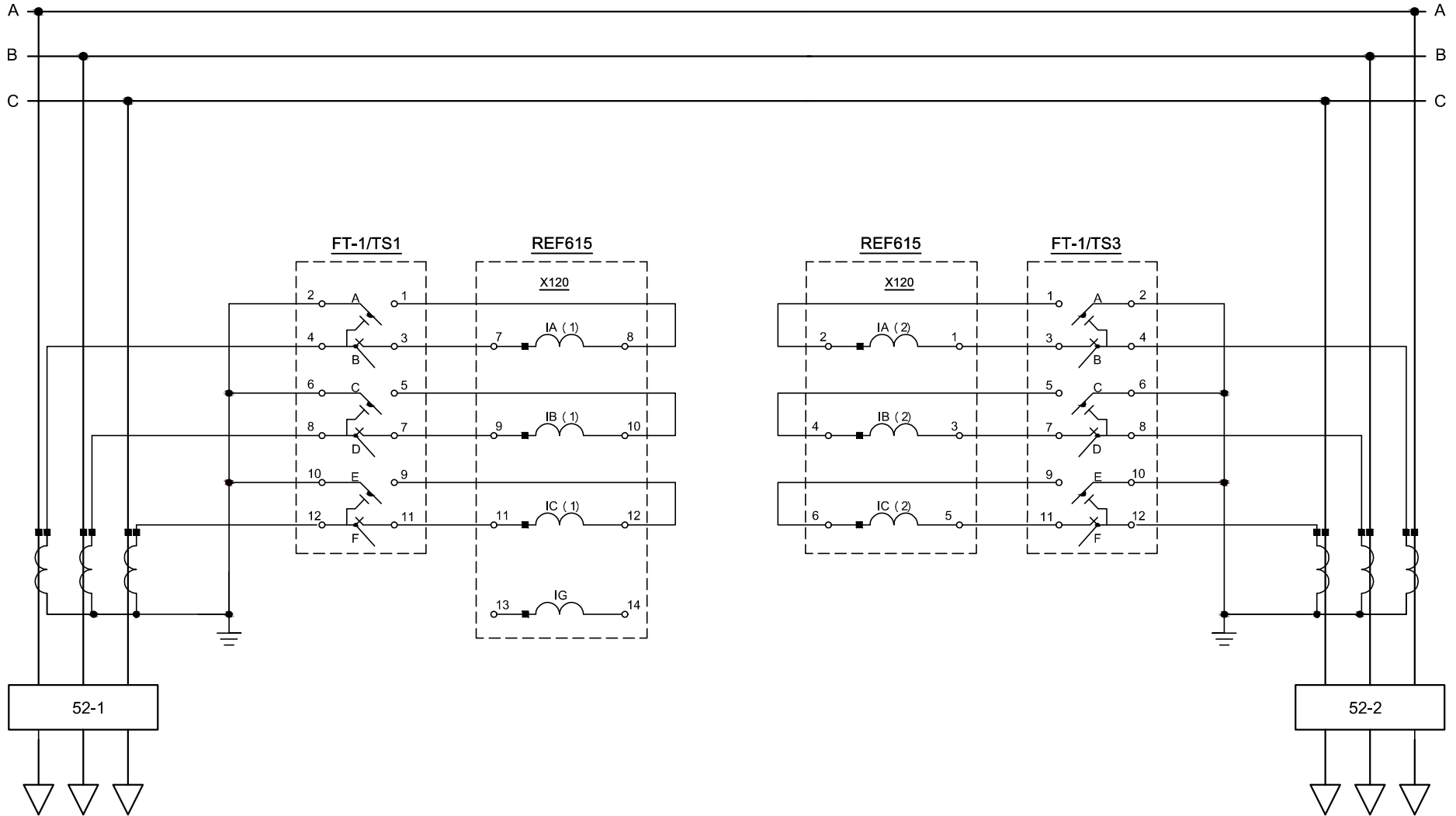


(RELAY 2 CURRENTS)

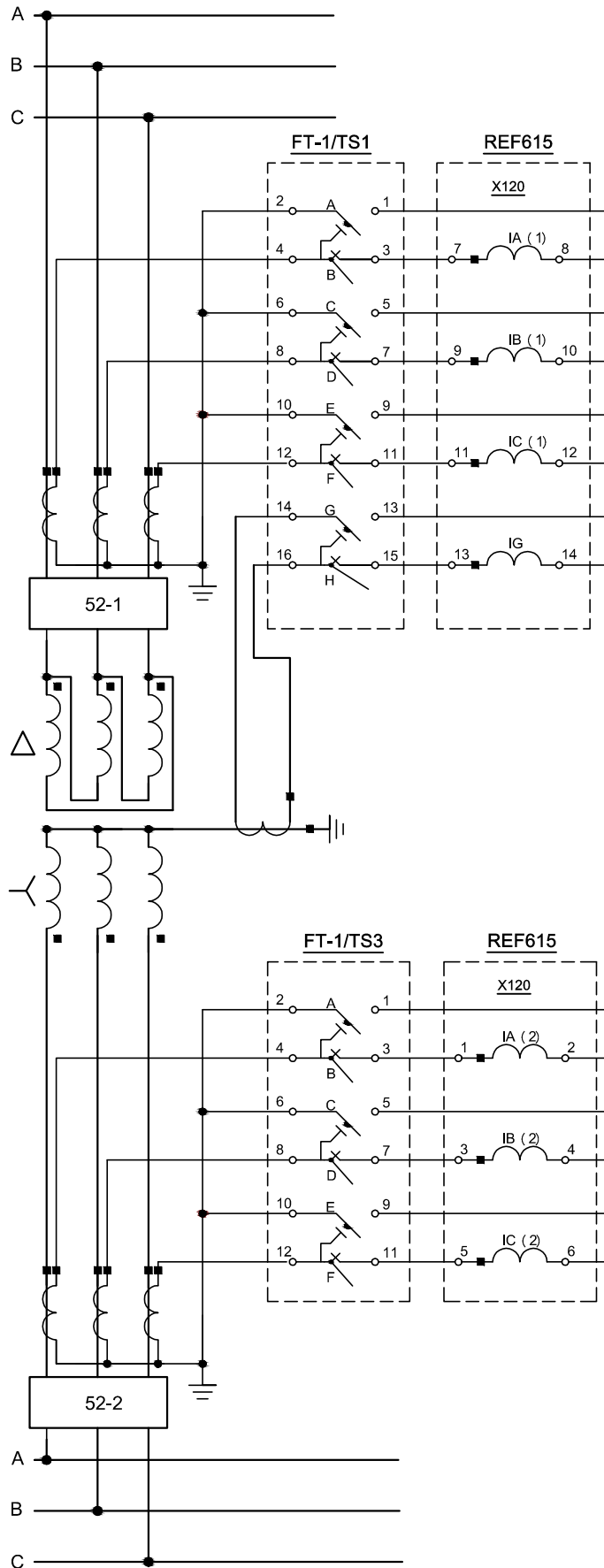
General Notes:

- Style and code numbers for FT-1 switches provide black covers and handles, screw terminals and standard depth. Poles selection follows arrangement shown in this drawing set. For custom designs, different selection options can be made by using FT-1 configurator at ft1switch.com
- Refer to 615 series ANSI Installation Manual for relay and cutout dimensions (Document ID: 1MACCO51065-MB, Revision: D, Product version 4.0)

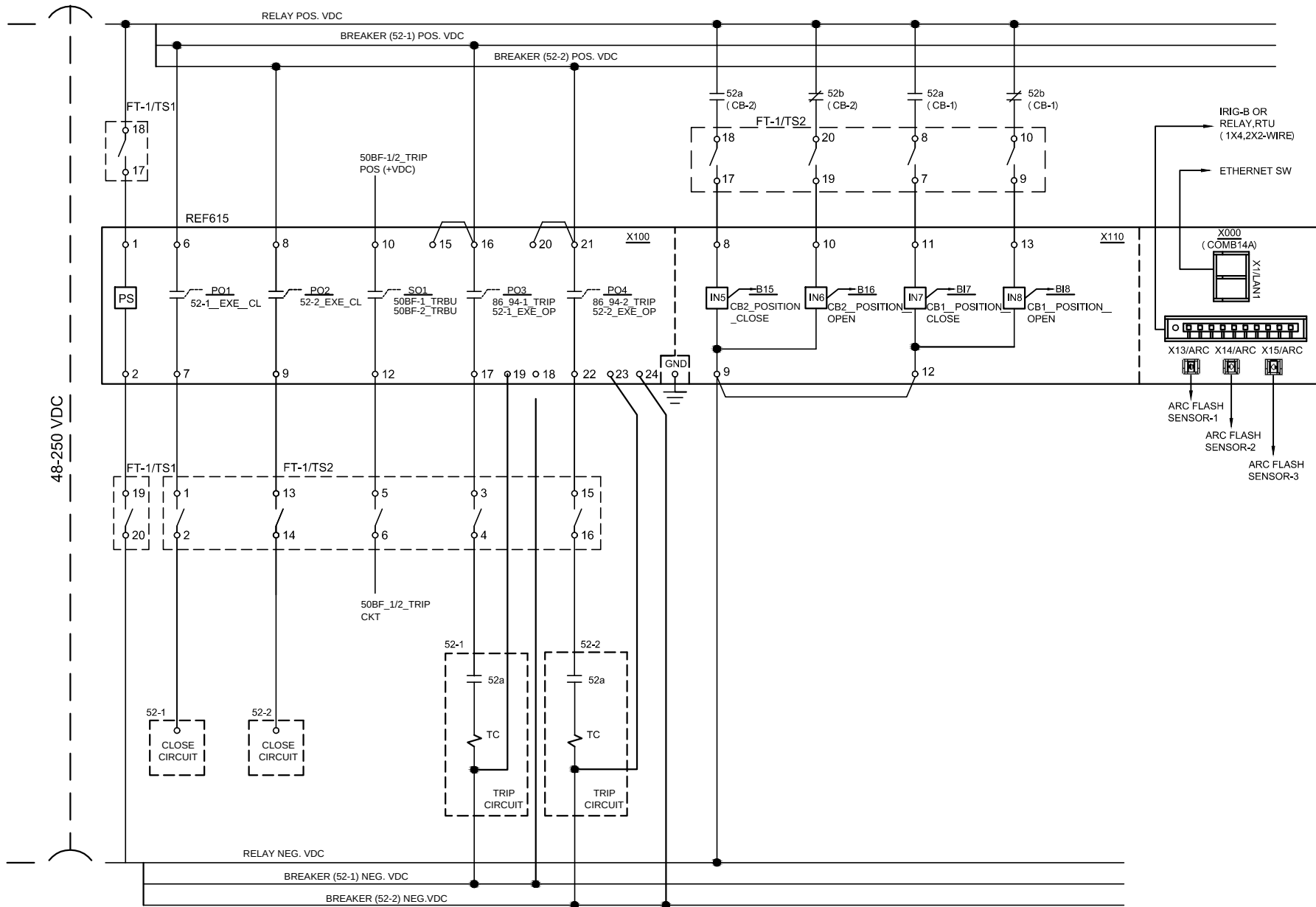
REF615_HAFBBABAFFE1BBN1XE (FEEDER APPLICATION)



REF615_HAFBBABAF1BBN1XE (TRANSFORMER APPLICATION)



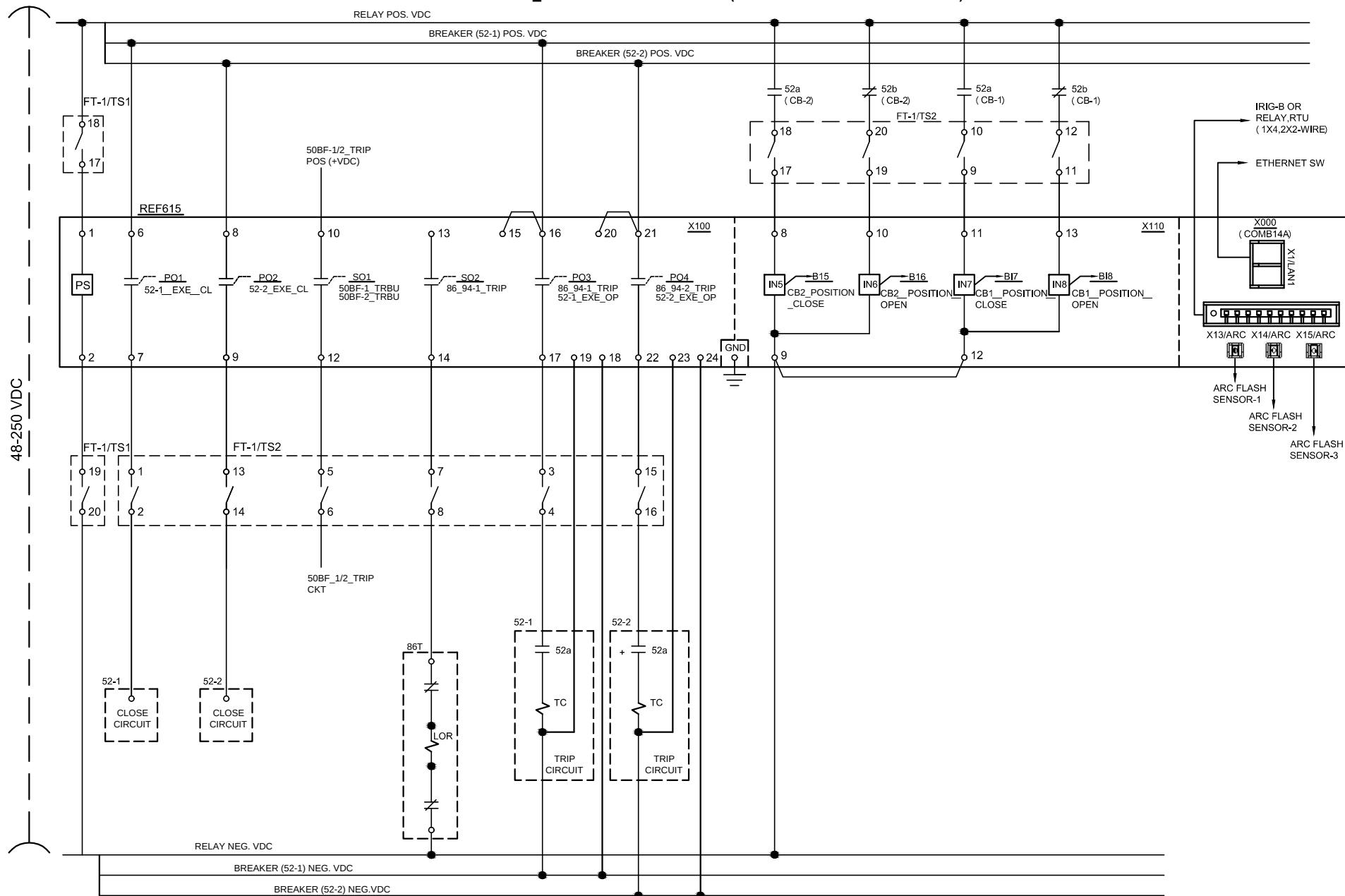
REF615_HAFBBABAF1BBN1XE (FEEDER APPLICATION)



General Notes:

Binary I/O shown is from default PCM600 Application Configuration Tool (ACT) .
Connections shown are typical though more connections may be needed for specific application.

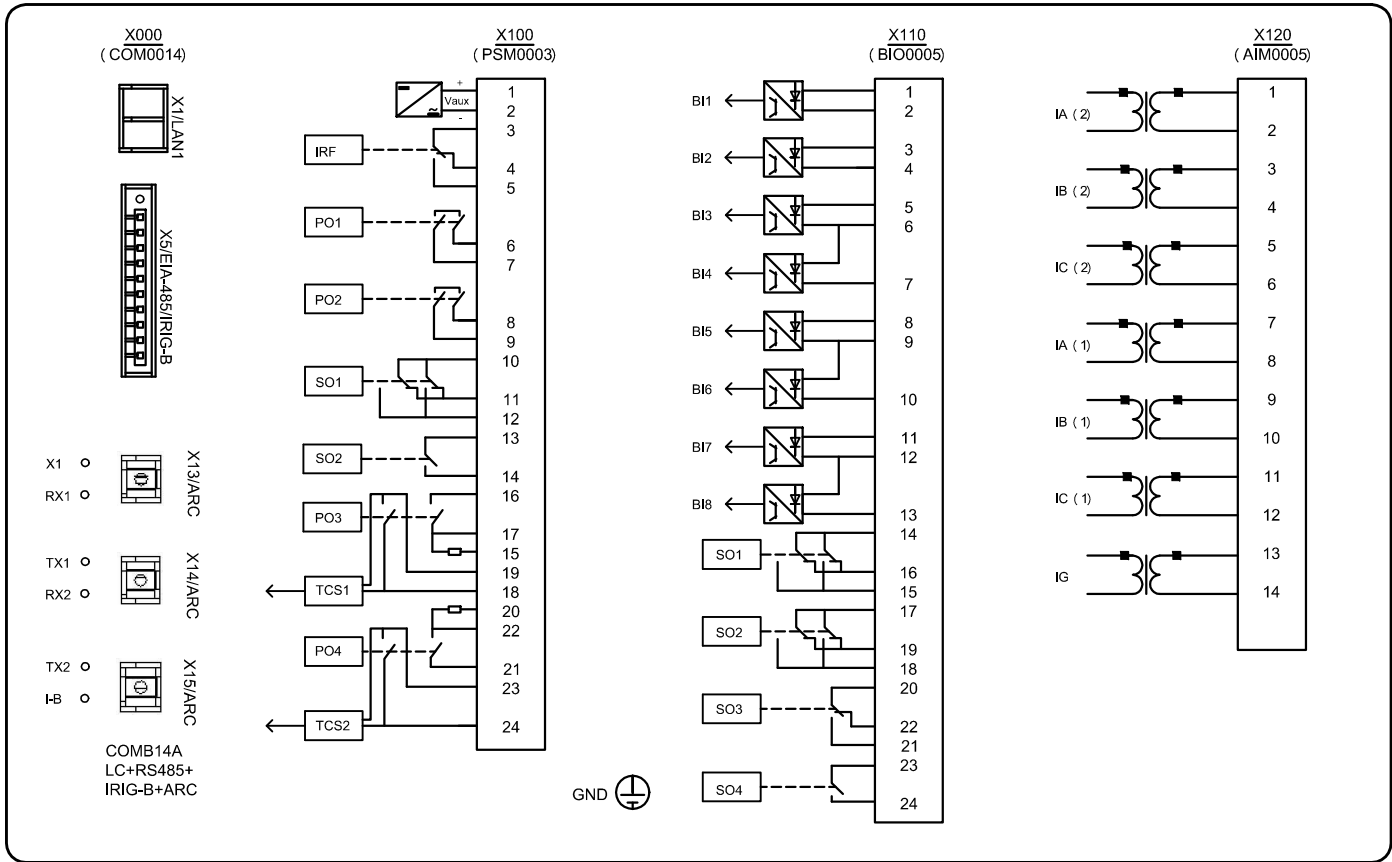
REF615_HAFBBABAFFE1BBN1XE (TRANSFORMER APPLICATION)



General Notes:

Binary I/O shown is from default PCM600 Application Configuration Tool (ACT) .
Connections shown are typical though more connections may be needed for specific application.

REF615_HAFBBABAFFE1BBN1XE (FEEDER APPLICATION)



RR
REF615

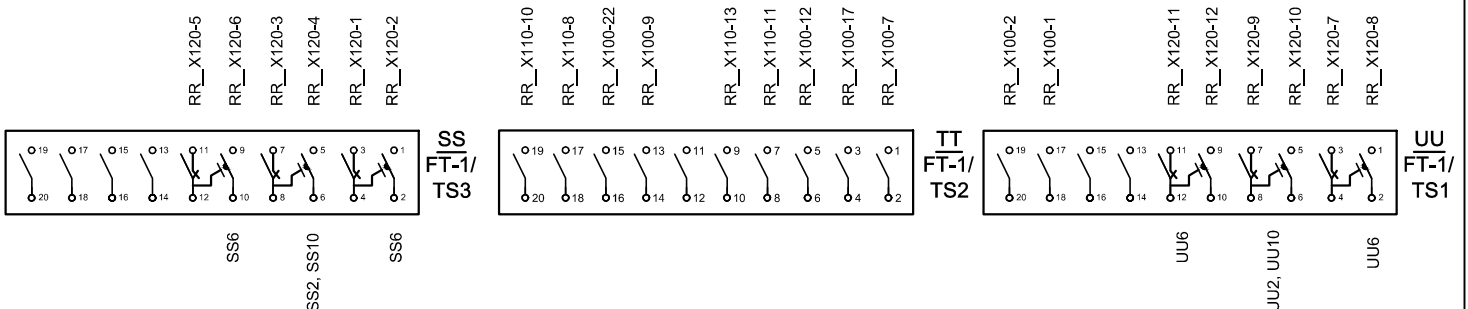
X000-X1:
X000-X5:
X000-X13:
X000-X14:
X000-X15:

X100-1: UU17
X100-2: UU19
X100-3:
X100-4:
X100-5:
X100-6:
X100-7: TT1
X100-8:
X100-9: TT13
X100-10:
X100-11:
X100-12: TT5
X100-13:
X100-14:
X100-15: X100-16
X100-16: X100-15
X100-17: TT3
X100-18:
X100-19:
X100-20: X100-21
X100-21: X100-20
X100-22: TT15
X100-23:
X100-24:

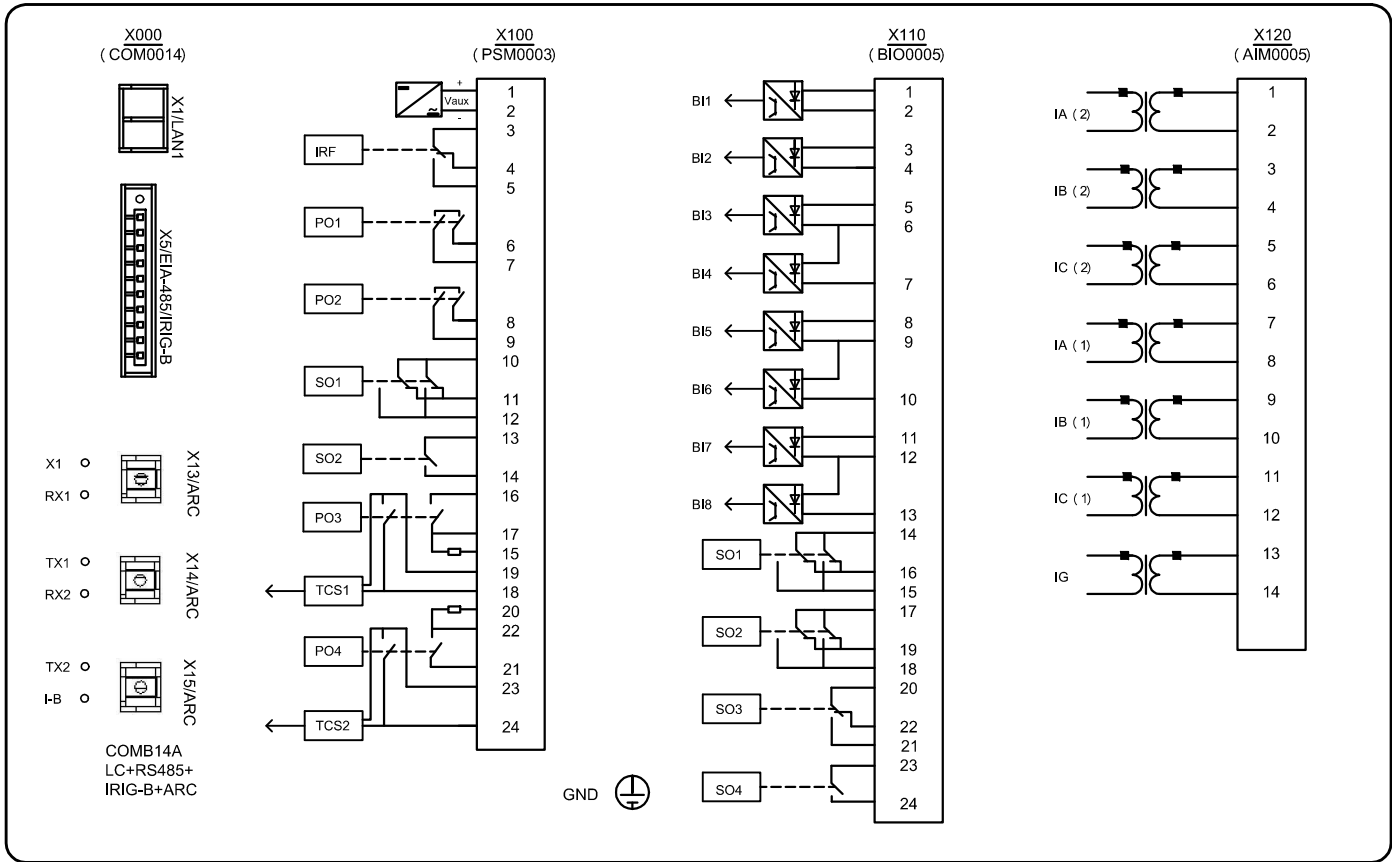
X110-1:
X110-2:
X110-3:
X110-4:
X110-5:
X110-6:
X110-7:
X110-8: TT17
X110-9: X110-12
X110-10: TT19
X110-11: TT7
X110-12: X110-9
X110-13: TT9
X110-14:
X110-15:
X110-16:
X110-17:
X110-18:
X110-19:
X110-20:
X110-21:
X110-22:
X110-23:
X110-24:

X120-1: SS3
X120-2: SS1
X120-3: SS7
X120-4: SS5
X120-5: SS11
X120-6: SS9
X120-7: UU3
X120-8: UU1
X120-9: UU7
X120-10: UU5
X120-11: UU11
X120-12: UU9
X120-13:
X120-14:

GND:



REF615_HAFBBABAFFE1BBN1XE (TRANSFORMER APPLICATION)



RR
REF615

X000-X1:
X000-X5:
X000-X13:
X000-X14:
X000-X15:

X100-1: UU17
X100-2: UU19
X100-3:
X100-4:
X100-5:
X100-6:
X100-7: TT1
X100-8:
X100-9: TT13
X100-10:
X100-11:
X100-12: TT5
X100-13:
X100-14: TT7
X100-15: X100-16
X100-16: X100-15
X100-17: TT3
X100-18:
X100-19:
X100-20: X100-21
X100-21: X100-20
X100-22: TT15
X100-23:
X100-24:

X110-1:
X110-2:
X110-3:
X110-4:
X110-5:
X110-6:
X110-7:
X110-8: TT17
X110-9: X110-12
X110-10: TT19
X110-11: TT9
X110-12: X110-9
X110-13: TT11
X110-14:
X110-15:
X110-16:
X110-17:
X110-18:
X110-19:
X110-20:
X110-21:
X110-22:
X110-23:
X110-24:

X120-1: SS3
X120-2: SS1
X120-3: SS7
X120-4: SS5
X120-5: SS11
X120-6: SS9
X120-7: UU3
X120-8: UU1
X120-9: UU7
X120-10: UU5
X120-11: UU11
X120-12: UU9
X120-13: UU15
X120-14: UU13

GND:

