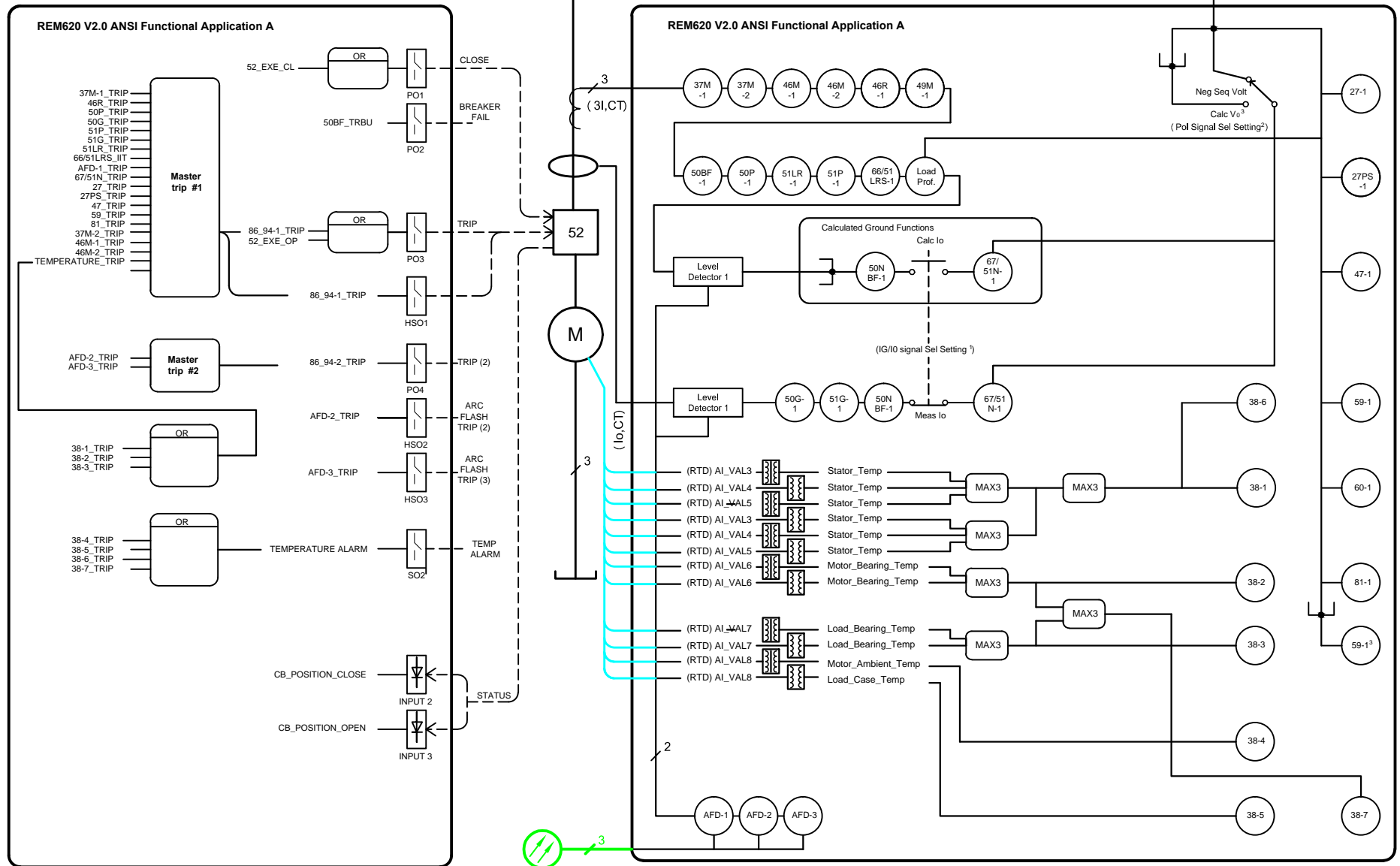


REM620\_NAMAAA2FFxxxNx1xx



Notes:

1. Latched pushbutton switch emulates drop down menu for "IG/I0 signal Sel" parameter in PCM600.  
Switch position shown for default setting (Meas Io).  
Position can be set individually for each function.

2. Rotary switch emulates drop down menu for "Pol Signal Sel" parameter setting in PCM600.  
Switch position shown for default setting (Neg Seq Volt).

3. "Pol Signal Sel" parameter setting Calc Vo, and 59N-1 function not applicable for open delta connected VTs.

TITLE: SINGLE LINE DIAGRAM (TYPICAL)

RELAY ORDER CODE: NAMAAA2FFxxxNx1xx

SOFTWARE TYPE:

AUTOCAD 2014

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SIZE DWG. NO.

A

1MAC609948-DR

REV.

A

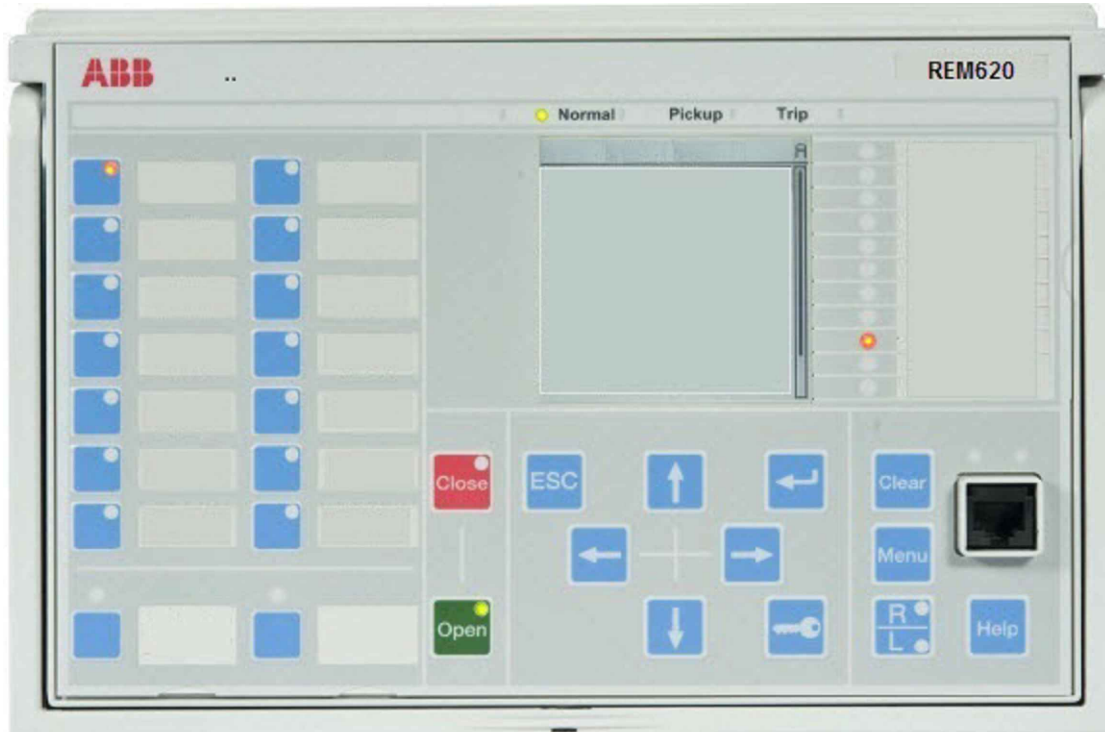
ABB

ABB Protective Relays and Switches, Coral Springs Fl, U.S.A.

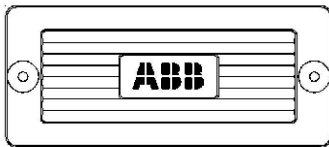
SCALE:

SHEET 1 OF 7

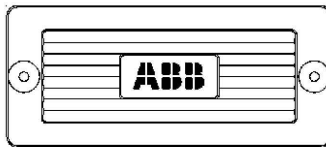
REM620\_NAMAAA2FFxxxNx1xx



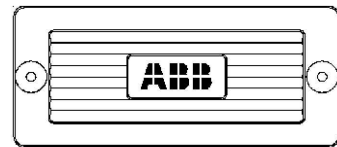
**FT-1/TS1**  
Style No: 837A407G01  
Code No: 083



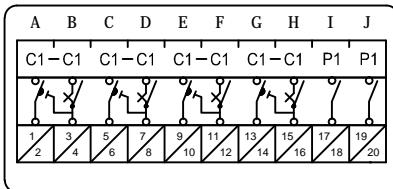
**FT-1/TS2**  
Style No: 129A501G01  
Code No: 001



**FT-1/TS3**  
Style No: 129A501G01  
Code No: 001

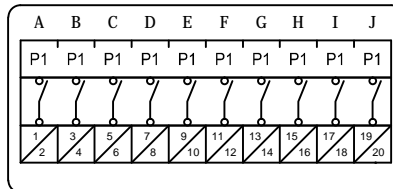


PHASE CURRENT ■ IA  
PHASE CURRENT ■ IB  
PHASE CURRENT ■ IC  
GROUND CURRENT ■ IG  
RELAY POS. VDC  
RELAY NEG. VDC



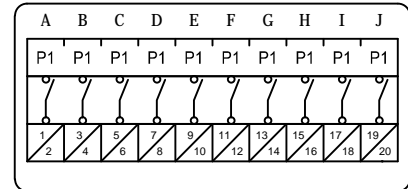
(CURRENTS AND POWER SUPPLY)

52\_EXE\_CL\_ (PO1)  
50BF\_TRBU (PO2)  
86\_94-1\_TRIP/52\_EXE\_OP (PO3)  
86\_94-2\_TRIP (PO4)  
TEMPERATURE\_ALARM (SO2)  
86\_94-1\_TRIP (HSO1)  
AFD-2\_TRIP (HSO2)  
AFD-3\_TRIP (HSO3)  
CB\_POSITION\_CLOSE (IN2)  
CB\_POSITION\_OPEN (IN3)



(BINARY I/O AND HIGH SPEED OUTPUTS)

PHASE VOLTAGE ■ VA  
PHASE VOLTAGE ■ VB  
PHASE VOLTAGE ■ VC

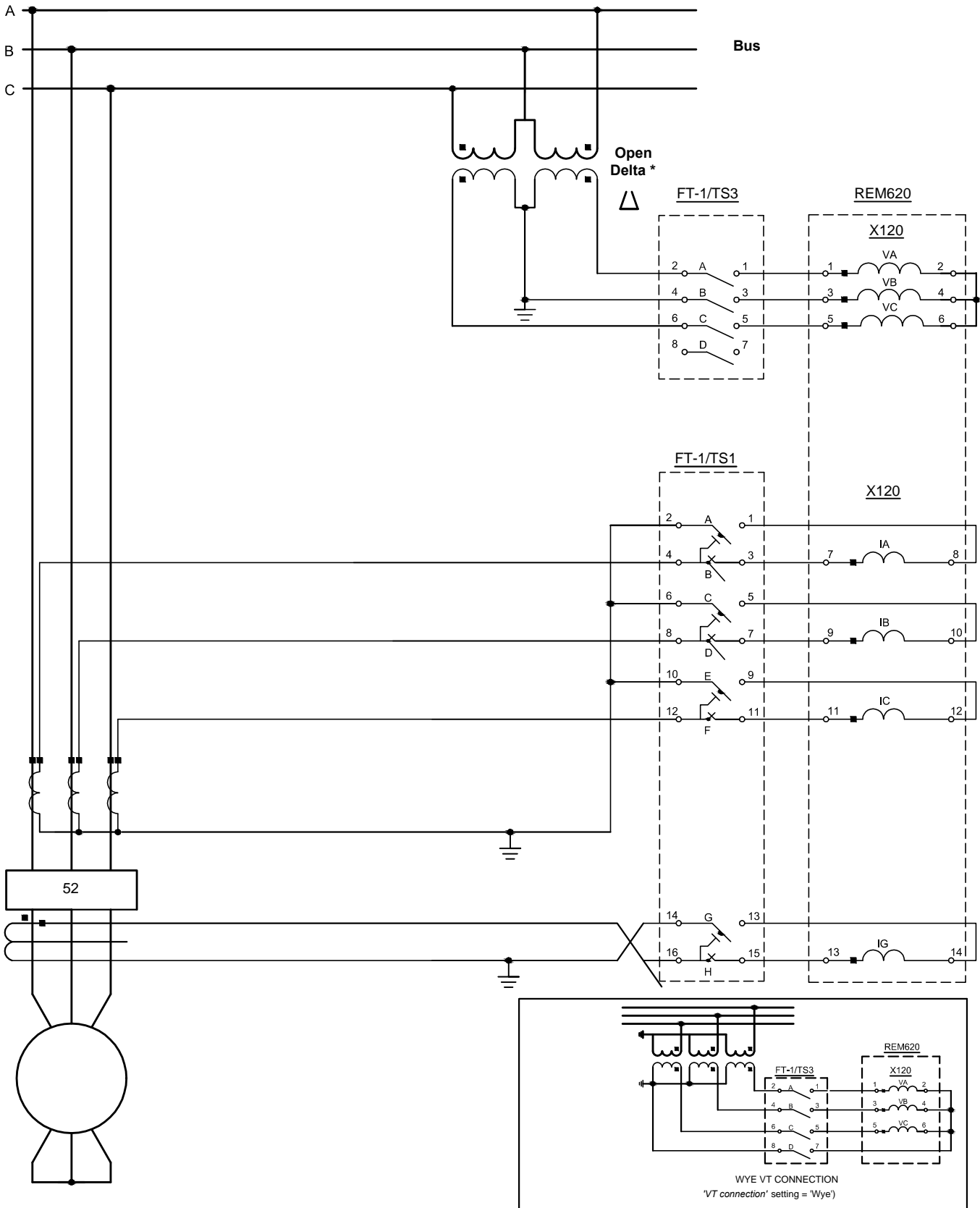


(POTENTIALS)

**General Notes:**

1. 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](http://ft1switch.com)
2. Refer to 615 series ANSI Installation Manual for relay and cutout dimensions ( Document ID: 1MAC457436-iB, Revision: A, Product version 2.0)

REM620\_NAMAAAA2FFxxxNx1xx



\* For relay voltage connections shown set Analog input Voltage 'VT connection' setting to 'Wye' for metering to work correctly. Refer to application manual for alternate connections to relay for open delta connections using 'Delta' VT connection setting.

Neutral Point

TITLE: AC SCHEMATIC (TYPICAL)

SOFTWARE TYPE:  
AUTOCAD 2014

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SIZE DWG. NO.  
A

1MAC609948-DR

REV.  
A

ABB

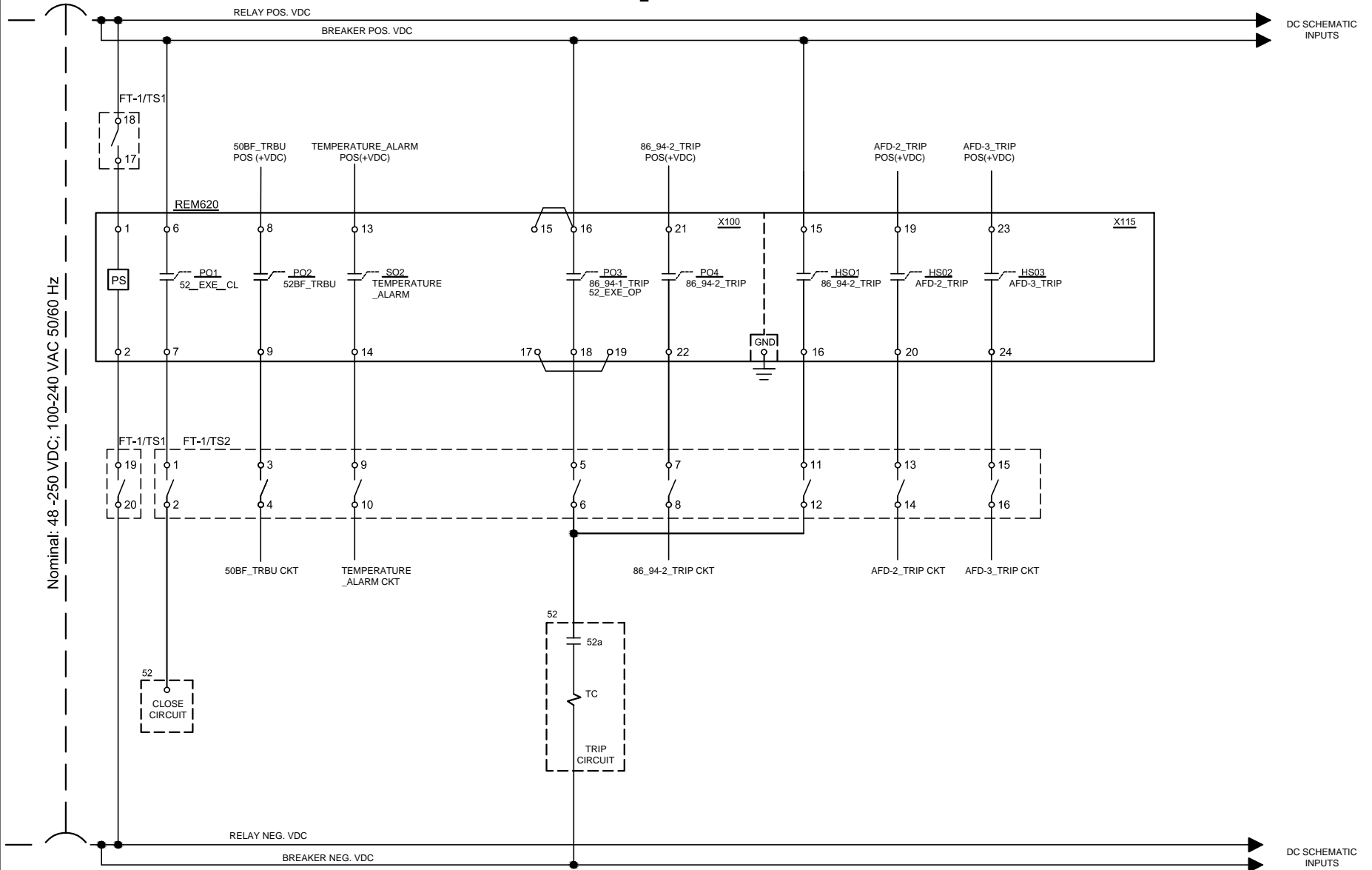
RELAY ORDER CODE: NAMAAAA2FFxxxNx1xx

ABB Protective Relays and Switches, Coral Springs FL, U.S.A.

SCALE:

SHEET 3 OF 7

REM620\_NAMAAA2FFxxxNx1xx



**General Notes:**

1. 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.
2. Connections are for Trip Circuit Supervision without an external resistor. For this application the Trip Circuit Monitoring function is blocked when the circuit breaker is open. Refer to technical manual for connections with an external resistor to monitor trip coil when breaker is open or closed.

TITLE: DC SCHEMATIC - OUTPUTS, PS (TYPICAL)

RELAY ORDER CODE: NAMAAA2FFxxxNx1xx

SOFTWARE TYPE:  
AUTOCAD 2014

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SIZE DWG. NO.  
A

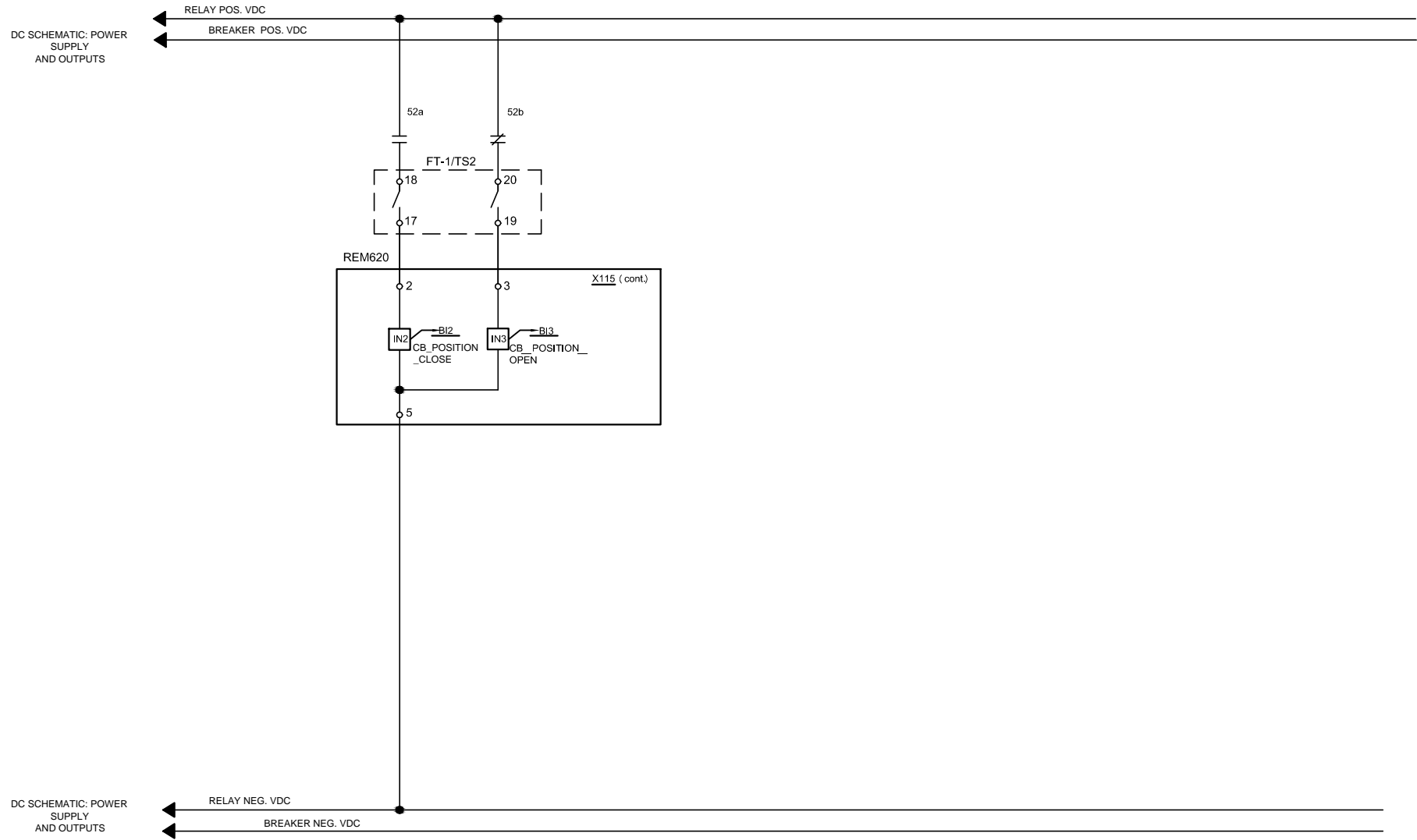
1MAC609948-DR

REV.  
B



SHEET 4 OF 7

REM620\_NAMAAA2FFxxNx1xx



TITLE: DC SCHEMATIC - INPUTS (TYPICAL)

RELAY ORDER CODE: NAMAAA2FFxxNx1xx

SOFTWARE TYPE:  
AUTOCAD 2014

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SIZE DWG. NO.  
A

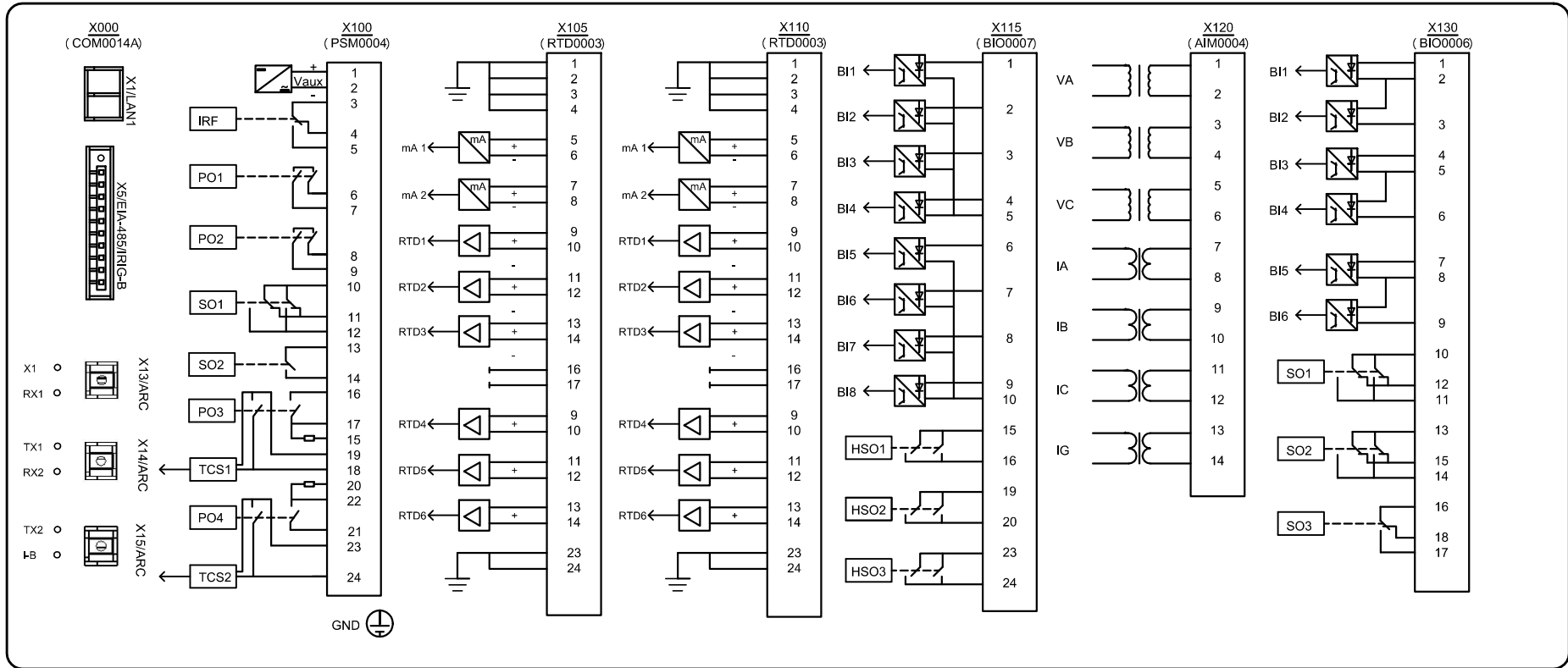
1MAC609948-DR

REV.  
B



SHEET 5 OF 7

REM620\_NAMAAA2FFxxxNx1xx



RR  
REM620

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: TT3  
X100-10:  
X100-11:  
X100-12:  
X100-13:  
X100-14: TT9  
X100-15: X100-16  
X100-16: X100-15  
X100-17: X100-19  
X100-18: TT5  
X100-19: X100-17  
X100-20:  
X100-21:  
X100-22: TT7  
X100-23:  
X100-24:

X105-1:  
X105-2:  
X105-3:  
X105-4:  
X105-5:  
X105-6:  
X105-7:  
X105-8:  
X105-9:  
X105-10:  
X105-11:  
X105-12:  
X105-13:  
X105-14:  
X105-15:  
X105-16:  
X105-17:  
X105-18:  
X105-19:  
X105-20:  
X105-21:  
X105-22:  
X105-23:  
X105-24:

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

X115-1:  
X115-2: TT17  
X115-3: TT19  
X115-4:  
X115-5:  
X115-6:  
X115-7:  
X115-8:  
X115-9:  
X115-10:  
X115-11:  
X115-12:  
X115-13:  
X115-14:  
X115-15:  
X115-16: TT11  
X115-17:  
X115-18:  
X115-19:  
X115-20: TT13  
X115-21:  
X115-22:  
X115-23:  
X115-24: TT15

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

X130-1:  
X130-2:  
X130-3:  
X130-4:  
X130-5:  
X130-6:  
X130-7:  
X130-8:  
X130-9:  
X130-10:  
X130-11:  
X130-12:  
X130-13:  
X130-14:  
X130-15:  
X130-16:  
X130-17:  
X130-18:

GND:

REM620\_NAMAAA2FFxxxNx1xx

