Notes:

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

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

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**RELAY ORDER CODE:** NATBBB2FFE1BNN1XF

**Single Line Diagram (Typical)**

Bus 1

**Bus 2**

**Bus 3**
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

FT-1 SWITCHES ARRANGEMENT

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

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AUTOCAD 2014

FT-1/TS1
(CB 52(1) BINARY I/O ) AND
BUS 1 GROUND POTENTIAL)

FT-1/TS2
(CT(2) CURRENTS AND TRANSFORMER
NEUTRAL CURRENT)

FT-1/TS3
(CB 52(3) BINARY I/O)

FT-1/TS4
(CT(1) CURRENTS AND BUS 1 PHASE
POTENTIALS)

FT-1/TS5
(CB 52(2) BINARY I/O AND
POWER SUPPLY)

FT-1/TS6
(CB 52(3) BINARY I/O)
* 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.
NOTE:
Connections shown are for a 30°.
ANSI standard autotransformer.
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 close.
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**Title:** CONNECTION DIAGRAM - RELAY

**Relay Order Code:** NATBBB2FFE1BNN1XF