



CONTACTS	FUNCTION	DRAWING
B10	CRITICAL FAILURE ALARM	139
B3b	48V DC	B3b
B50	POWER SUPPLY	060
B80	SET-A PWR SUPPLY, 125V DC (PP, NP)	THIS
B80	SURGE GROUND (SEE NOTE 1)	THIS
B80	FILTER GROUND	THIS
B80	CH1&2 COMMUNICATION OR DIRECT DIGITAL REQUIRE CLOCK INPUT	THIS
F50	HVCB EHA-CB-003 LINE SIDE POTENTIALS	121
F70	HVCB EHA-CB-003- BUS SIDE CURRENTS	121
F70	5 AMPS INPUTS SHOWN ONLY	THIS
H15	TRIP HVCB EHA-CB-003 (LOCAL OR BY DTT)	143
H20	INITIATE BRKR FAIL FOR 150/162BFX-1 (LOCAL OR BY DTT)	THIS
H30	INITIATE BRKR FAIL FOR 150/162BFX-2 (LOCAL OR BY DTT)	THIS
H40	INITIATE BRKR FAIL FOR 150/162BFX-3 (LOCAL OR BY DTT)	THIS
H50	DIRECT TRIP KEY	THIS
H50	INITIATE BRKR FAIL FOR 150/162BFX-1 (LOCAL OR BY DTT)	THIS
H60	LINE SWITCH STATUS	THIS
H60	STUB BUS PROTECTION	THIS
H70	BREAKER EHA-CB-003 STATUS 52a SEAL	NP843
H80	BREAKER EHA-CB-002 STATUS 52a SEAL	NP842
N10	SURGE GROUND	THIS
N20	TRIP HVCB EHA-CB-003 (LOCAL OR BY DTT)	142
N20	INITIATE BRKR FAIL FOR 150/162BFX-2	THIS
N30	INITIATE BRKR FAIL FOR 150/162BFX-1	THIS
N40	INITIATE BRKR FAIL FOR 150/162BFX-3	THIS
N50	INITIATE BRKR FAIL FOR 150/162BFX-2	THIS
N60	INITIATE BRKR FAIL FOR 150/162BFX-1	THIS
N70	BREAKER EHA-CB-002 STATUS 52a SEAL	NP842
N80	INITIATE BRKR FAIL FOR 150/162BFX-1	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-2	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-3	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-4	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-5	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-6	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-7	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-8	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-9	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-10	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-11	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-12	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-13	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-14	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-15	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-16	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-17	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-18	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-19	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-20	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-21	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-22	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-23	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-24	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-25	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-26	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-27	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-28	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-29	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-30	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-31	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-32	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-33	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-34	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-35	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-36	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-37	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-38	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-39	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-40	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-41	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-42	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-43	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-44	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-45	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-46	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-47	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-48	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-49	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-50	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-51	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-52	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-53	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-54	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-55	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-56	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-57	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-58	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-59	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-60	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-61	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-62	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-63	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-64	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-65	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-66	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-67	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-68	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-69	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-70	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-71	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-72	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-73	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-74	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-75	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-76	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-77	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-78	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-79	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-80	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-81	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-82	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-83	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-84	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-85	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-86	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-87	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-88	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-89	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-90	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-91	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-92	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-93	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-94	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-95	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-96	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-97	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-98	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-99	THIS
N80	INITIATE BRKR FAIL FOR 150/162BFX-100	THIS

CONTACTS	FUNCTION	TS-119	DRAWING
TB1-1	125V DC POWER SUPPLY	2	139
TB1-3	RELAY TROUBLE ALARM	20	139
TB1-5	INITIATES DEV 150/162BFX-1	6	139
TB1-9	MAINTENANCE ALARM	10	139
TB1-11	BREAKER ARC DETECTOR	10	143
TB1-12	BREAKER RETRIP	16	143
TB1-13	BREAKER STATUS	16	143
TB1-14	BREAKER RETRIP	16	143
TB1-15	BREAKER STATUS	16	143
TB1-16	BREAKER RETRIP	16	143
TB1-17	BREAKER STATUS	16	143
TB1-18	TRIP COIL STATUS MONITOR	18	143
TB1-19	TRIP COIL STATUS MONITOR	18	143
TB1-20	INPUTS TO BREAKER FAILURE RELAY	18	143
TB2-1	HVCB EHA-CB-003- BUS SIDE CURRENTS	2	121
TB2-3	HVCB EHA-CB-003- BUS SIDE CURRENTS	2	121
TB2-5	HVCB EHA-CB-003- BUS SIDE CURRENTS	2	121
TB2-8	HVCB EHA-CB-003- BUS SIDE CURRENTS	2	121

CONTACTS	FUNCTION	TS-122	DRAWING
TB1-1	125V DC POWER SUPPLY	2	139
TB1-3	RELAY TROUBLE ALARM	20	139
TB1-5	INITIATES DEV 150/162BFX-2	6	139
TB1-9	MAINTENANCE ALARM	10	139
TB1-11	BREAKER ARC DETECTOR	10	143
TB1-12	BREAKER RETRIP	16	143
TB1-13	BREAKER STATUS	16	143
TB1-14	BREAKER RETRIP	16	143
TB1-15	BREAKER STATUS	16	143
TB1-16	BREAKER RETRIP	16	143
TB1-17	BREAKER STATUS	16	143
TB1-18	TRIP COIL STATUS MONITOR	18	143
TB1-19	TRIP COIL STATUS MONITOR	18	143
TB1-20	INPUTS TO BREAKER FAILURE RELAY	18	143

CONTACTS	DESCRIPTION	FUNCTION	DRAWING
A21	IA	CURRENT INPUT	121
A23	IB	CURRENT INPUT	121
A25	IC	CURRENT INPUT	121
H13	POWER SUPPLY	SET-B PWR SUPPLY, 125V DC (PP, NP)	THIS
A7	OPTO INPUT	INITIATE INTERTRIP	THIS
A9	OPTO INPUT	RESET OR STUB BUS	THIS
A10	OPTO INPUT	STUB BUS PROTECTION (122, 123, 222 MODEL)	THIS
A12	OPTO INPUT	TIME SYNC	THIS
56/64	Kbps	CH1 FIBEROPTIC COMMUNICATION	THIS
56/64	Kbps	CH2 FIBEROPTIC COMMUNICATION	THIS
F17	TRIP A1	TRIP HVCB EHA-CB-003	143
F18	TRIP A2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
F19	TRIP A3	TRIP HVCB EHA-CB-002	142
F20	TRIP A4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
F21	TRIP B1	TRIP HVCB EHA-CB-003	143
F22	TRIP B2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
F23	TRIP B3	TRIP HVCB EHA-CB-002	142
F24	TRIP B4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
F25	TRIP C1	TRIP HVCB EHA-CB-003	143
F26	TRIP C2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
F27	TRIP C3	TRIP HVCB EHA-CB-002	142
F28	TRIP C4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G29	TRIP D1	TRIP HVCB EHA-CB-003	143
G30	TRIP D2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G31	TRIP D3	TRIP HVCB EHA-CB-002	142
G32	TRIP D4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G33	TRIP E1	TRIP HVCB EHA-CB-003	143
G34	TRIP E2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G35	TRIP E3	TRIP HVCB EHA-CB-002	142
G36	TRIP E4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G37	TRIP F1	TRIP HVCB EHA-CB-003	143
G38	TRIP F2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G39	TRIP F3	TRIP HVCB EHA-CB-002	142
G40	TRIP F4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G41	TRIP G1	TRIP HVCB EHA-CB-003	143
G42	TRIP G2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G43	TRIP G3	TRIP HVCB EHA-CB-002	142
G44	TRIP G4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G45	TRIP H1	TRIP HVCB EHA-CB-003	143
G46	TRIP H2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G47	TRIP H3	TRIP HVCB EHA-CB-002	142
G48	TRIP H4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G49	TRIP I1	TRIP HVCB EHA-CB-003	143
G50	TRIP I2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G51	TRIP I3	TRIP HVCB EHA-CB-002	142
G52	TRIP I4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G53	TRIP J1	TRIP HVCB EHA-CB-003	143
G54	TRIP J2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G55	TRIP J3	TRIP HVCB EHA-CB-002	142
G56	TRIP J4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G57	TRIP K1	TRIP HVCB EHA-CB-003	143
G58	TRIP K2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G59	TRIP K3	TRIP HVCB EHA-CB-002	142
G60	TRIP K4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G61	TRIP L1	TRIP HVCB EHA-CB-003	143
G62	TRIP L2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G63	TRIP L3	TRIP HVCB EHA-CB-002	142
G64	TRIP L4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G65	TRIP M1	TRIP HVCB EHA-CB-003	143
G66	TRIP M2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G67	TRIP M3	TRIP HVCB EHA-CB-002	142
G68	TRIP M4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G69	TRIP N1	TRIP HVCB EHA-CB-003	143
G70	TRIP N2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G71	TRIP N3	TRIP HVCB EHA-CB-002	142
G72	TRIP N4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G73	TRIP O1	TRIP HVCB EHA-CB-003	143
G74	TRIP O2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G75	TRIP O3	TRIP HVCB EHA-CB-002	142
G76	TRIP O4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G77	TRIP P1	TRIP HVCB EHA-CB-003	143
G78	TRIP P2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G79	TRIP P3	TRIP HVCB EHA-CB-002	142
G80	TRIP P4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G81	TRIP Q1	TRIP HVCB EHA-CB-003	143
G82	TRIP Q2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G83	TRIP Q3	TRIP HVCB EHA-CB-002	142
G84	TRIP Q4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G85	TRIP R1	TRIP HVCB EHA-CB-003	143
G86	TRIP R2	INITIATE BREAKER FAILURE 150/162BF-1	THIS
G87	TRIP R3	TRIP HVCB EHA-CB-002	142
G88	TRIP R4	INITIATE BREAKER FAILURE 150/162BF-2	THIS
G89	TRIP S1	TRIP HVCB EHA-CB-003	143