

LATCHED: ØAB Percent Differentl

745 STATUS
RELAY IN SERVICE
BELAY TEST ERROR
TEST MODE
DIFFERENTIAL BLOCKED

SYSTEM STATUS
TRANSFORMER DEENERGIZED
TRANSFORMER OVERLOAD
LOAD LIMIT REDUCED

OUTPUT STATUS
TRIP
ALARM
PICKUP

SETPOINT GROUP 1
SETPOINT GROUP 2
SETPOINT GROUP 3
SETPOINT GROUP 4

PHASE A
PHASE B
PHASE C
GROUND

LOCAL
MESSAGE



745 Transformer Management Relay

5451	✓	7/13/2018	18:13:22.230	Dropout - Percent Differential
5450	✓	7/13/2018	18:13:22.215	None - Auto Trace Trigger
5449	✓	7/13/2018	18:13:22.215	On - Output Relay 3 / Trip 2
5448	✓	7/13/2018	18:13:22.215	On - Output Relay 2 / Trip 1
5447	✓	7/13/2018	18:13:22.215	On - Output Relay 1 / Solid State Trip
5446	✓	7/13/2018	18:13:22.213	Operate - Percent Differential
5445	✓	12/10/2017	10:7:42.792	Dropout - W2 Phase Time OC
5444	✓	12/10/2017	10:7:42.759	None - Auto Trace Trigger

All

None

Select Events

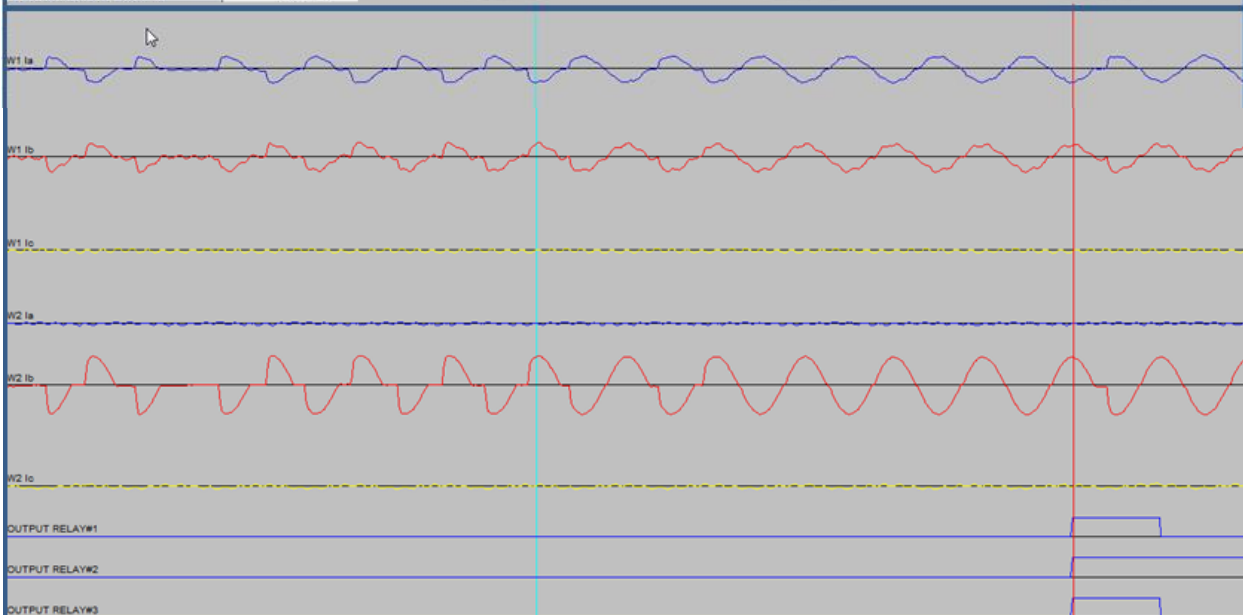
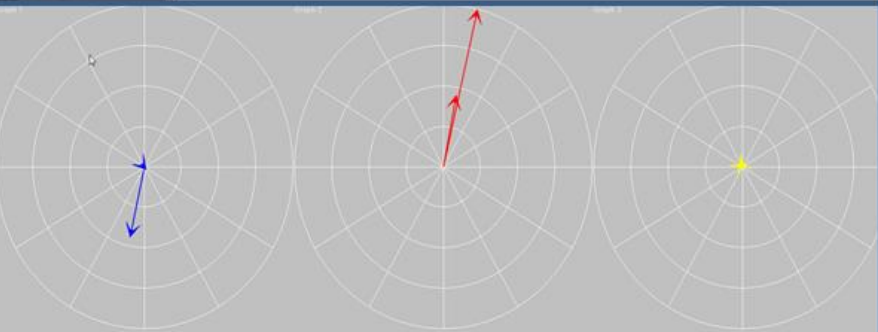
5446

Event Parameter	Value
Winding 2 Phase A 2nd Harmonic	0.0 %fo
Winding 2 Phase B 2nd Harmonic	0.0 %fo
Winding 2 Phase C 2nd Harmonic	0.0 %fo
Winding 2 Phase A 5th Harmonic	0.0 %fo
Winding 2 Phase B 5th Harmonic	1.3 %fo
Winding 2 Phase C 5th Harmonic	0.0 %fo
Phase A Differential Current	0.29 x CT
Phase B Differential Current	0.30 x CT
Phase C Differential Current	0.00 x CT
Phase A Restraint Current	0.15 x CT
Phase B Restraint Current	0.15 x CT
Phase C Restraint Current	0.00 x CT
Event - System Frequency	59.99 Hz
Event - Frequency Decay Rate	0.04 Hz/s
Event - Tap Changer Position	n/a

CHANNEL IDENTIFIER	COLOR	GRAPH	MAGNITUDE / ANGLE
W1 Ia	Blue	Graph 1	0.144 x CT -102.81°
W1 Ib	Red	Graph 2	0.147 x CT -281.14°
W1 Ic	Yellow	Graph 3	0.006 x CT -43.72°
W2 Ia	Blue	Graph 1	0.007 x CT -49.27°
W2 Ib	Red	Graph 2	0.325 x CT -283.38°
W2 Ic	Yellow	Graph 3	0.017 x CT -245.02°

Percent Differential

SETTING	PARAMETER
Percent Differential Function	Enabled
Percent Differential Target	Latched
Percent Differential Pickup	0.30 x CT
Percent Differential Slope 1	25 %
Percent Differential Break Point	2.0 x CT
Percent Differential Slope 2	100 %
Percent Differential Block	Disabled



Event Num	Date of Event	Time of Event	Cause of Event	W1-A Mag	W1-A Ang	W1-B Mag	W1-B Ang	W1-C Mag	W1-C Ang	W2-A Mag	W2-A Ang	W2-B Mag	W2-B Ang	W2-C Mag	W2-C Ang
5453	7/13/2018	'18:13:22.232	Off - Output Relay 3 / Trip 2	56 Amp	0°Lag	56 Amp	177°Lag	0 Amp	0°Lag	0 Amp	0°Lag	312 Amp	180°Lag	0 Amp	0°Lag
5452	7/13/2018	'18:13:22.232	Off - Output Relay 1 / Solid State Trip	56 Amp	0°Lag	56 Amp	177°Lag	0 Amp	0°Lag	0 Amp	0°Lag	312 Amp	180°Lag	0 Amp	0°Lag
5451	7/13/2018	'18:13:22.230	Dropout - Percent Differential	56 Amp	0°Lag	56 Amp	177°Lag	0 Amp	0°Lag	0 Amp	0°Lag	312 Amp	180°Lag	0 Amp	0°Lag
5450	7/13/2018	'18:13:22.215	None - Auto Trace Trigger	58 Amp	0°Lag	60 Amp	179°Lag	0 Amp	0°Lag	0 Amp	0°Lag	335 Amp	181°Lag	0 Amp	0°Lag
5449	7/13/2018	'18:13:22.215	On - Output Relay 3 / Trip 2	58 Amp	0°Lag	60 Amp	179°Lag	0 Amp	0°Lag	0 Amp	0°Lag	335 Amp	181°Lag	0 Amp	0°Lag
5448	7/13/2018	'18:13:22.215	On - Output Relay 2 / Trip 1	58 Amp	0°Lag	60 Amp	179°Lag	0 Amp	0°Lag	0 Amp	0°Lag	335 Amp	181°Lag	0 Amp	0°Lag
5447	7/13/2018	'18:13:22.215	On - Output Relay 1 / Solid State Trip	58 Amp	0°Lag	60 Amp	179°Lag	0 Amp	0°Lag	0 Amp	0°Lag	335 Amp	181°Lag	0 Amp	0°Lag
5446	7/13/2018	'18:13:22.213	Operate - Percent Differential	58 Amp	0°Lag	60 Amp	179°Lag	0 Amp	0°Lag	0 Amp	0°Lag	335 Amp	181°Lag	0 Amp	0°Lag
5445	12/10/2017	'10:7:42.792	Dropout - W2 Phase Time OC	224 Amp	0°Lag	219 Amp	240°Lag	220 Amp	122°Lag	776 Amp	151°Lag	766 Amp	30°Lag	748 Amp	271°Lag