



## SINGLE LINE DIAGRAM.....DWG NO. FA1-011/63044

[illegible]

ใช้แทนแบบ \_\_\_\_\_

[illegible]

88.9

มาตราส่วน \_\_\_\_\_

แบบเลขที่ FA4-011/63085

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1. 115 KV. IVT RATIO	$\frac{115,000}{\sqrt{3}}$	:	$\frac{115}{\sqrt{3}}$	/	115	//	$\frac{115}{\sqrt{3}}$	/	115	V
115 KV. CVT RATIO	$\frac{115,000}{\sqrt{3}}$	:	$\frac{115}{\sqrt{3}}$	/	115	//	$\frac{115}{\sqrt{3}}$	/	115	V
2. 115 KV. CT RATIO	1800/1500/1200/900/600/300	:	1/1/1/1	A.	-	FOR TRANSFORMER BAY				
	1800/1500/1200/900/600/300	:	1/1/1/1	A.	-	FOR LINE BAY				
	500/200/100	:	1	A.	-	FOR HIGH SIDE TRANSFORMER BUSHING CT.				
3. 22 KV. VT. RATIO	$\frac{22000}{\sqrt{3}}$	:	$\frac{110}{\sqrt{3}}$	/	$\frac{110}{\sqrt{3}}$	V				
4 22 KV. CT. RATIO	1800/1500/900	:	1/1/1/1	A	-	FOR INCOMING BREAKER				
	1800/1500/900	:	1/1	A	-	FOR TIE BREAKER				
	1800/1500/900	:	1/1	A	-	FOR TRANSFORMER BUS LOW SIDE				
	1800/1500/900	:	1/1	A	-	FOR NEUTRAL BUSHING				
	600/300	:	1/1	A	-	FOR OUTGOING 22 KV.				
	600/300	:	1/1	A	-	FOR CAPACITOR BANK				

50VA/0.2/1.5VF , 50VA/3P/1.5VF  
SIMULTANEOUS BURDEN=100 VA.

200VA/0.5/1.5VF , 200VA/3P/1.5VF

20VA/5P20 , 20VA/0.5FS5 , 20VA/5P20 , 20VA/5P20  
20VA/600/1A/5P20 , 20VA/0.5FS5 , 20VA/5P20 , 20VA/5P20  
20VA/5P20

50VA/0.5/1.9VF , 50 VA/3P/1.9VF

20VA/5P20 , 20VA/0.5FS5 , 20VA/5P20 , 20VA/5P20  
20VA/5P20 , 20VA/0.5FS5  
20VA/5P20 , 20VA/0.5FS5

20VA/5P20 , 20VA/5P20  
20VA/0.5FS5 , 20VA/5P20  
20VA/0.5FS5 , 20VA/5P20

5. THE NEUTRAL GROUNDING RESISTORS (NGR) ARE INDICATED FOR FUTURE INSTALLATION.
6. SYNCHRONIZING SCHEMATIC
  - 6.1. -YP-0- SHOWN THUS, REFER TO INCOMING CVT/IVT DESIGNATIONS.
  - 6.2. BYP-01 SHOWN THUS REFERS TO RUNNING BUS CVT
  - 6.3. ØB ONLY ✓ SHOWN THUS, REFERS TO THE SECONDARY WINDING OF CVT/IVT FOR PHASE"B" AND USING FULL TAP WINDING 115V FOR SYNCHRONIZING SYSTEM WITH ONE END OF THE WINDING CONNECTED WITH COMMON GROUND BUS.
  - 6.4 MANUAL SYNCHRONIZING BY SYNCHROSCOPE SHALL UTILIZE INCOMING AND RUNNING SECONDARY VOLTAGES OF METERING CORES FROM"PHASE B" FOR BOTH CVT/IVT'S.
  - 6.5 AUTOMATIC SYNCHRONISM VERIFICATION BY SYNCHRO CHECK RELAY (25) SHALL UTILIZE INCOMING AND RUNNING SECONDARY VOLTAGES OF RELAYING CORES FROM"PHASE B" FOR BOTH CVT/IVT'S.
7. FOR 115 kv. NEW SYSTEM PROTECTION, RELAYS SHALL BE DOUBLE MAIN PROTECTION RELAY (MAIN1&2) AND DIFFERENT PRODUCT/MANUFACTURER.