


LAMPIRAN - LAMPIRAN

Lampiran 1 : *Name Plate* Trafo 1
Lampiran 2 : *Name Plate* Trafo 2

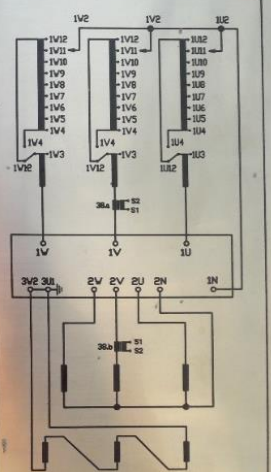
Lampiran 1



PAWEL TRAFU

POWER TRANSFORMER

TAP	VOLT	AMPERE	MVA	CONNECTION TAP CHANGER
1	165000	209.9	60	2 - 12
2	163125	212.4	60	2 - 11
3	161250	214.8	60	2 - 10
4	159375	217.4	60	2 - 9
5	157500	219.9	60	2 - 8
6	155625	222.6	60	2 - 7
7	153750	225.3	60	2 - 6
8	151875	228.1	60	2 - 5
9A	150000	230.9	60	2 - 4
9B	150000	230.9	60	2 - 3
9C	150000	230.9	60	2 - 12
10	148125	233.9	60	2 - 11
11	146250	236.9	60	2 - 10
12	144375	239.9	60	2 - 9
13	142500	243.1	60	2 - 8
14	140625	246.3	60	2 - 7
15	138750	249.7	60	2 - 6
16	136875	253.1	60	2 - 5
17	135000	256.6	60	2 - 4



LOW VOLTAGE-TERMINALS : 2N-2U-2V-2W

VOLT	AMPERE	MVA
20000	1732.0	50

TERTIARY-TERMINALS : 3U1-3V2

VOLT	AMPERE	MVA
10000	666.7√3	20

SHORT CIRCUIT CURRENT CAPACITY (2 Second)

HV: 40 kA	LV: 25 kA
165000	20000
150000	20000
135000	20000

CT FOR VTI

3B.a	350/2A, CL. 1 20 VA
3B.b	2400/2A, CL. 1 20 VA

PHASES : 3

CONNECTION SYMBOL : YNyn0+d

TAP CHANGER : MR VM III 300Y-72.5kV-10193W + ED100



Notice :
Overload capability at max. hot spot temp 120°C, ambient 30°C

60 MVA → 90 MVA → 60 MVA
0 → 3 hour

1677/E0835/A

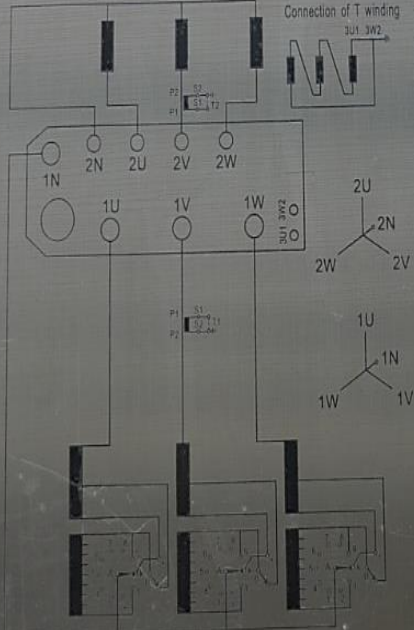
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Lampiran 2


 ELIN Transformer Guangzhou Co.Ltd
 

Three-phase Power Transformer with OLTC

Type	SFZ - 60000 / 150		Serial number	
Specification No.	IEC 60076		Year of manufacture	
Rated frequency Hz	50	Type of cooling	ONAN/ONAF	Kind
Insulation level kV	HV: LI650 AC275-LI95 AC38	kV	LV: LI125 AC50	Connection symbol
Rated power	kVA 42 000 / 60 000			
Rated voltage	1	165 750		
	8	150 000	V	20 000
	18	127 500		
Rated current	A	161.7 / 230.9	A	1212.5 / 1732.1
Symmetrical short-circuit current	kA		kA	
On-load tap-changer	Type	MR - V III 350 Y - 76/B - 10181 G		Serial number
	Current A	271.7		Insulation level kV
				LI95 AC38



Connection of T winding
3U1, 3U2

Position	Voltage(V)	Current (A)		Connection
		ONAN	ONAF	
HV Terminal: 0-A-B-C				
1	165 750	146.3	209.0	1
2	163 500	148.3	211.9	2
3	161 250	150.4	214.8	3
4	159 000	152.5	217.9	4
5	156 750	154.7	221.0	5
6	154 500	157.0	224.2	6
7	152 250	159.3	227.5	7
8	150 000	161.7	230.9	8
9	147 750	164.1	234.5	9
10	145 500	166.7	238.1	k
11	143 250	169.3	241.8	1
12	141 000	172.0	245.7	2
13	138 750	174.8	249.7	3
14	136 500	177.7	253.8	4
15	134 250	180.6	258.0	5
16	132 000	183.7	262.4	6
17	129 750	186.9	267.0	7
18	127 500	190.2	271.7	8

LV Terminal: 0-b-a	
20 000	1212.5 1732.1

Current transformer	Terminal	Rated ratio	A	Output	VA	Accuracy	Total mass	t	89.1
T1	S1-S2	231/1.5		15		3.0	Transportation mass	t	61.6
T2	S1-S2	1732/1.5		15		3.0	Active mass	t	54.5
							Mass of insulation of t		20.0
							Insulation oil type		

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