

Asia Trafo Co., Ltd

SPECIFICATION OF OIL IMMERSED TRANSFORMER

TRANSFORMER SPECIFICATION

1500 kVA. 3Ph. 50 Hz.

22000 - 400/230 V. Dyn 11

HERMETICALLY SEAL TYPE

88/99 หมู่ 12 ซ. สุนทรวิภาค ถ.บางพลี - ตำหรุ ต.บางปลา อ.บางพลี จ.สมุทรปราการ 10540 Tel. (02) 346-0980-7 Fax. (02) 346-0978-9 88/99 Moo.12 Soi sunthonwipark Bangplee -tumroo Road Bangpra Bangplee samuthprakarn 10540 Tel. (02) 346-0980-7 Fax. (02) 346-0978-9

SPEC NO. S-TR1500-22000-400/230 Page 1/4



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SPECIFICATION OF OIL IMMERSED TRANSFORMER

TECHNICAL DATA FOR 1500 kVA, 22000-400 V. Dyn11

		Description	Unit		ed Value	
1	Manufacture's name		-	ASIA TRAFO CO.,LTD.		
2	Country of origin		-	Thai	land	
3	Applied standard		-	IEC 6	0076	
4	Type of Transformer		-	Hermetically seal ty	ype (Corrugate fins)	
5	Rated power		kVA	15	00	
6	Number of phase		-	3		
7	Rated frequency		Hz	50		
8	Rated high voltage		V	220	000	
9	Rated low voltage		V	40	00	
10	Conection symbol		-	Dyr	n11	
11	Rated high current		A	39.36		
12	Rated low current		A	2165.06		
13	Primary tapping :		-	Off-circuit t	Off-circuit tap changer	
14	Number of steps of high	voltage tapping	Step	4 Steps 5	Position	
15	Percent of rated voltage	of each tapping	%	±2 x	2.5%	
16	Type of oil preservation :	system	-	Completely	oil fill system	
17	Operation duty		-	Continuous	s operation	
18	Cooling System		-	ON	ONAN	
19	Ambient		°C	40		
20	Max. temperature rise of	winding, at full load	°C	65		
21	Max. temperature rise of	top oil, at full load	°C	60		
22	Class of insulation		-	A (105°C)		
23	Noise level		dB(A)	≤ 60		
24	No-load current & Tolera	nce	% & %	3.00 % & +30%		
25	Short-circuit impedence	at 75°C & Tolerance	% & %	6.00 & ±10		
26	No-load loss		W	2200		
27	Load loss at 75°C		W	19000		
		: Full load unity power fac	tor %	°C 6 - A (10 dB(A) ≤ 6 & % 3.00 % 6 & % 6.00 8 W 22 W 190 % 98 % 98 % 98 % 98 % 98 % 98	3.61	
		: Full load 0.8 power facto		98.	98.26	
28	Efficiency at 75°C	: 3/4 load unity power fac	tor %	60 A (105°C)	87	
20	Efficiency at 15 c	: 3/4 load 0.8 power facto	r %		59	
		: 1/2 load unity power fac	% & % % & % % & % W W Dower factor wer factor ower factor ver factor ower factor wer factor % tor %	.08		
		: 1/2 load 0.8 power facto	r %	98.	85	
29	: Unity power factor		%	1.4	14	
		: 0.8 power factor	%			
	Winding			HV.Winding	LV.Winding	
	Material of winding		-	Copper	Copper	
30	Insulation material of wir		-	Polyvinyl formal	Kraft paper	
	·		kV, peak	125	30	
		: 0.8 power factor % ing rial of winding - stion material of wire - Po vave impulse withstand voltage, or BIL kV, peak r-frequency test voltage, 1 min kV, r.m.s	50	10		
	Construction of winding		-	Layer winding	Layer winding	
31	Core					
	Core silicon steel grade - Cold			Cold rolled grain oriented electrical steel		
	Rev Date	Prepared by	Checked by	Approved by	Signature	
	02 3/8/2563	วรกานต	กิตติ	กิตติ		
CD	EC NO.	S-TR1	.500-22000-400/230		Page 2/4	



Asia Trafo Co., Ltd

SPECIFICATION OF OIL IMMERSED TRANSFORMER

TECHNICAL DATA FOR 1500 kVA, 22000-400 V. Dyn11

No.	Description	Unit	Guaranteed Value	
	Transformer oil	-		
32	Type of oil	-	Mineral oil (None PCB)	
	Oil dielectric breakdown	kV	≥55	
	Bushings		HV.Bushing	LV.Bushing
	Applied standard	-	DIN 42531	DIN 42530
	Rated current	A	250	3150
	Full-wave impulse withstand voltage, or BIL	kV, peak	125	30
33	Low-frequency dry 1-minute test voltage	kV, r.m.s.	50	10
	Low-frequency wet 10 second test voltage	kV, r.m.s.	50	10
	Protection class	-	20NF	1N
	Color of glazing	-	Brown	Brown
	Stud thread size (Dia)	mm.	12	48
	Terminal connectors		HV.Terminal	LV.Terminal
34	Diameter range	mm.	Clamp (7.5-12.6)	PAD 48 mm.
	Number of circuit	-	1(35.95 mm ²)	4
	Pressure relief value		•	
35	Operating pressure	kg/cm2	0.45	
	Flow rate at 1.03 Kg/cm2	cc / sec	165200	
36	Color of tank	-	Gray (RAL 7036)	

Accessories

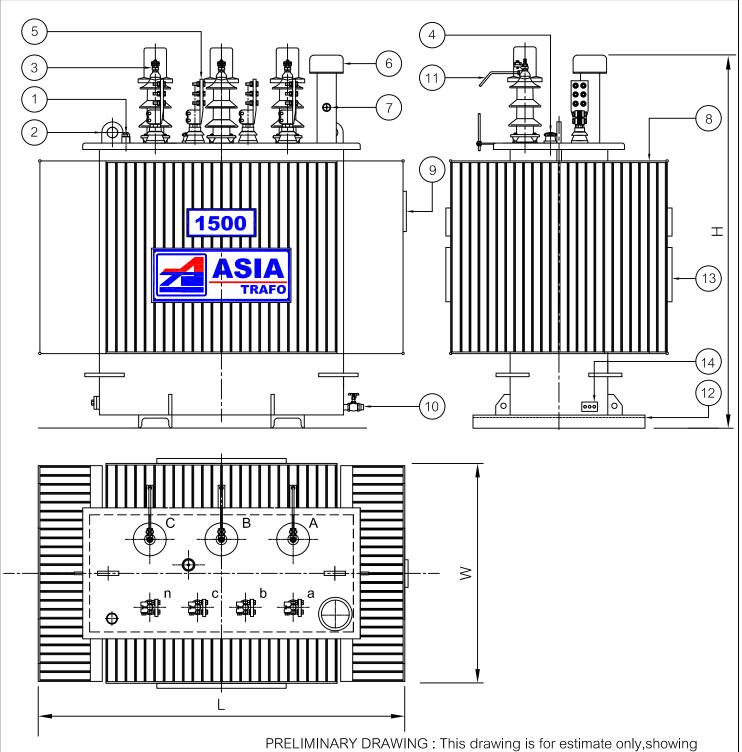
- HV & LV Bushing with terminal connectors
- Name plate with connection diagram
- Arcing horn
- Bird guard cap
- Off-circuit tap changer
- Thermometer pocket
- lacksquare Oil drain and sampling valve
- Earthing terminal
- Lifting eyes on the cover
- Lifting lugs
- Oil level gauge
- Pressure relief device
- ☐ Buchholz relay with alarm&trip contacts
- ☐ Dehydrating breather with silica gel
- Other ... Factory standard

Routine test

- Measurement of voltage ratio and check of phase displacement
- Insulation resistance test
- Measurement of winding resistance
- Separated source voltage withstand test
- \blacksquare Induce over voltage with stand test
- Measurement of no-load loss and exciting current
- Measurement of short circuit impedance and load loss
- Oil dielectric strength test

■ with □ without

Rev	Date	Prepared by	Checked by	Approved by	Signature	
02	3/8/2563	วรกานต	กิตติ	กิตติ		
SPEC NO.	S-TR1500-22000-400/230 Page 3					



approximate dimensions. It should not be referred to as the final drawing.

	LIST OF PART				
No.	PART NAME				
1.	Thermometer pocket	1			
2.	Lifting eye for cover	2			
3.	HV.Bushing with terminal connectors	3			
4.	Off load tap changer	1			
5.	LV.Bushing with terminal connectors	4			
6.	Pressure relief device	1			
7.	Oil level	1			
8.	Corrugated fins	4			
9.	Nameplate with connection diagram	1			
10.	Oil drain valve	1			
11.	Arcing Horn	3			
12.	Sub base	2			
13.	Manufactory plate	1			
14.	Earth terminal	1			

ASIA TRAFO CO.,LTD.							
Project :							
Tilte : OUTLINE DRAWING OIL IMMERSED TRANSFORMER							
1500 kVA 3Ph 50Hz 22000 - 400/230 V.							
Dimensio	Dimension in millimeters				Oil		
Н	L		W	kgs	Litres		
1950	220	00	1350	4600	1480		
SPEC NO. S-TR1500-22000-400/230							
	Signature				Date		
Drawn	Ву						
Checked	Ву						
Approved	Ву						
S-TR1500-22.Rev02							