



Asia Trafo Co., Ltd.

SPECIFICATION OF OIL IMMersed TRANSFORMER

แบบควบคุม

ฉบับที่...1....

TRANSFORMER SPECIFICATION

1250 kVA. 3Ph. 50 Hz.

22000 - 400/230 V. Dyn 11

HERMETICALLY SEAL TYPE

88/99 หมู่ 12 ซ. สุนทรวีภาด ถ.บางพลี - คำหลุ ค.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-TR1250-22000-400/230

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แบบต้นฉบับ

S-TR1250-22,Rev.02



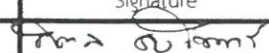
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ฉบับที่...1....

TECHNICAL DATA FOR 1250 kVA, 22000-400 V. Dyn11

No.	Description		Unit	Guaranteed Value		
1	Manufacture's name		-	ASIA TRAF0 CO.,LTD.		
2	Country of origin		-	Thailand		
3	Applied standard		-	IEC 60076		
4	Type of Transformer		-	Hermetically seal type (Corrugate fins)		
5	Rated power		kVA	1250		
6	Number of phase		-	3		
7	Rated frequency		Hz	50		
8	Rated high voltage		V	22000		
9	Rated low voltage		V	400		
10	Conection symbol		-	Dyn11		
11	Rated high current		A	32.80		
12	Rated low current		A	1804.22		
13	Primary tapping :		-	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 operation		
18	Cooling System		-	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)	≤ 59		
24	No-load current & Tolerance		% & %	3.01 % & +30%		
25	Short-circuit impedance at 75°C & Tolerance		% & %	6.00 & ±10		
26	No-load loss		W	1900		
27	Load loss at 75°C		W	16000		
28	Efficiency at 75°C	: Full load unity power factor	%	98.59		
		: Full load 0.8 power factor	%	98.24		
		: 3/4 load unity power factor	%	98.85		
		: 3/4 load 0.8 power factor	%	98.57		
		: 1/2 load unity power factor	%	99.06		
		: 1/2 load 0.8 power factor	%	98.83		
29	Voltage regulation at	: Unity power factor	%	1.45		
		: 0.8 power factor	%	1.13		
30	Winding			HV.Winding	LV.Winding	
	Material of winding		-	Copper	Copper	
	Insulation material of wire		-	Polyvinyl formal	Kraft paper	
	Full-wave impulse withstand voltage, or BIL		kV, peak	125	30	
	Power-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 rolled grain oriented electrical steel		
Rev		Date	Prepared by	Checked by	Approved by	Signature
02		3/8/2563	วรณานต์	กิตติ	กิตติ	
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S-TR1250-22.Rev.02



Asia Trafo Co., Ltd

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แบบควบคุม

ฉบับที่...1.....

TECHNICAL DATA FOR 1250 kVA, 22000-400 V. Dyn11

No.	Description	Unit	Guaranteed Value	
32	Transformer oil	-	Mineral oil (None PCB) ≥55	
	Type of oil	-		
	Oil dielectric breakdown	kV		
33	Bushings		HV.Bushing	LV.Bushing
	Applied standard	-	DIN 42531	DIN 42530
	Rated current	A	250	2000
	Full-wave impulse withstand voltage, or BIL	kV, peak	125	30
	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	42
34	Terminal connectors		HV.Terminal	LV.Terminal
	Diameter range	mm.	Clamp (7.5-12.6)	PAD 42 mm.
	Number of circuit	-	1(35.95 mm ²)	4
35	Pressure relief value			
	Operating pressure	kg / cm ²	0.45	
	Flow rate at 1.03 Kg/cm ²	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
- 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

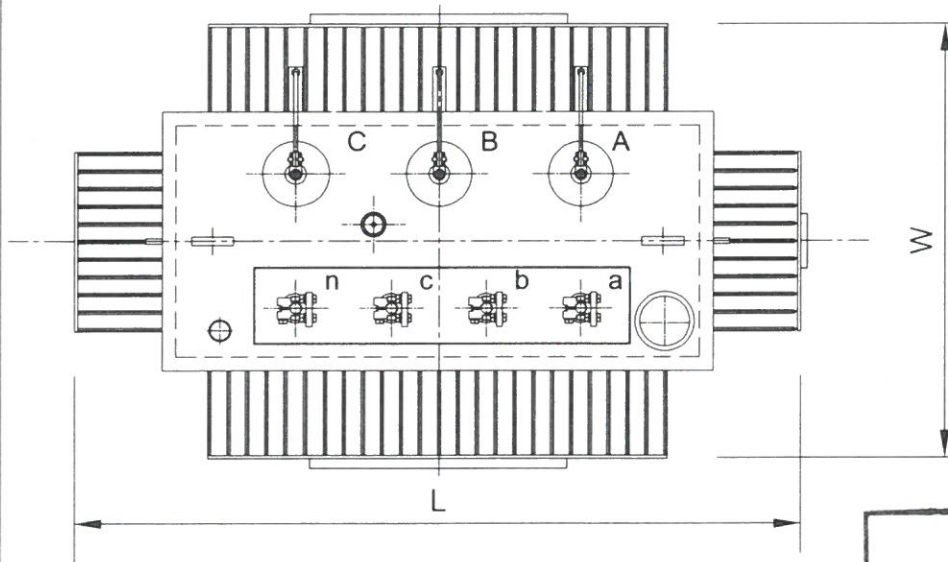
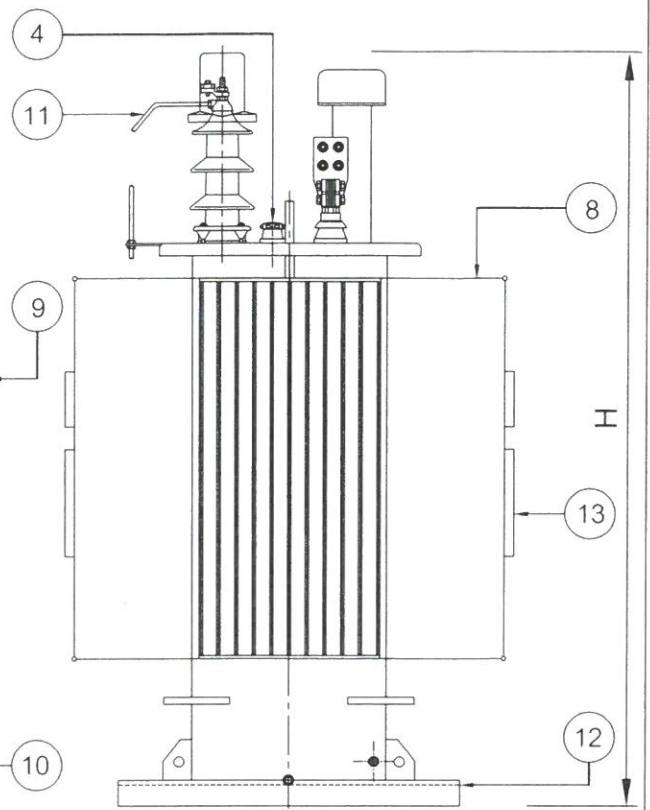
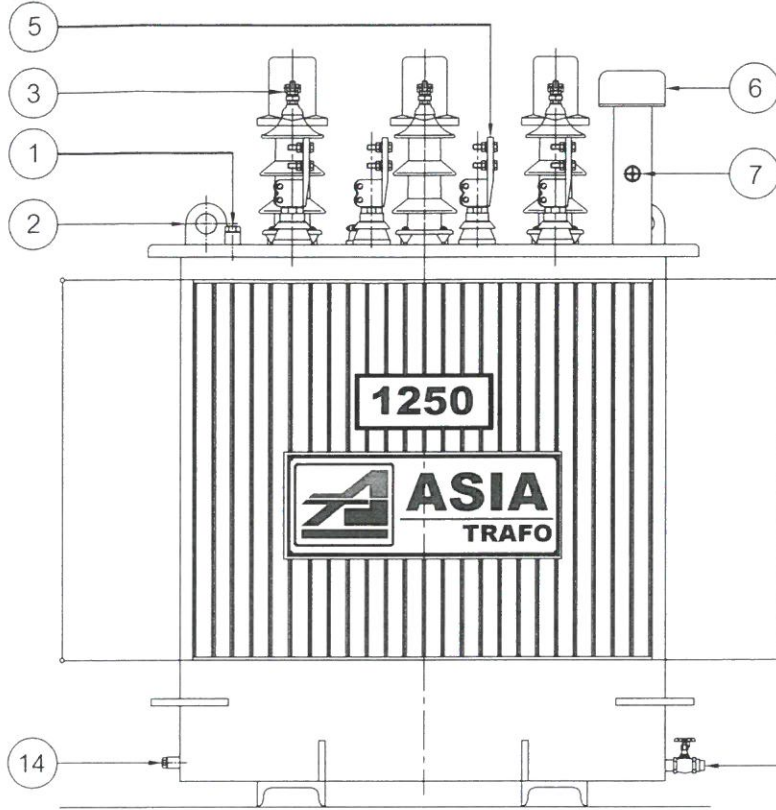
- Measurement of voltage ratio and check of phase displacement
- Insulation resistance test
- Measurement of winding resistance
- Separated source voltage withstand test
- Induce over voltage withstand test
- Measurement of no-load loss and exciting current
- Measurement of short circuit impedance and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

■ with

☐ without

Rev	Date	Prepared by	Checked by	Approved by	Signature
02	3/8/2563	วรกานต์	กิตติ	กิตติ	
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แบบต้นฉบับ



แบบควบคุม
ฉบับที่..... 1

แบบต้นฉบับ

LIST OF PART		
No.	PART NAME	Qty
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 TRAF0 CO.,LTD.				
Project :				
Title :				
OUTLINE DRAWING OIL IMMERSED TRANSFORMER 1250 kVA 3PH 50HZ 22000 - 400/230 V.				
Dimension in millimeters			Weight	Oil
H	L	W	kgs	Litres
1840	2100	1250	3610	860
SPEC NO. S-TR1250-22000-400/230				
Signature			Date	
Drawn	By		4/8/63	
Checked	By		6/9/63	
Approved	By		6/9/63	