

Technical Specification and Drawing
1600KVA-22/0.4KV
DISTRIBUTION TRANSFORMER
No.2014015

JIANGSHAN SCOTECH ELECTRICAL CO., LTD

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Technical Data Sheet

No.	Basic information	Unit	Guaranteed
1	Manufacturer		Jiangshan Scotech Electrical Co.,Ltd
2	Standard		IEC60076
3	Type		Oil immersed power transformer
4	Installation		Outdoor
5	Altitude	M	≤ 1000
6	Rated power	KVA	1600
7	Primary voltage	KV	22
8	Secondary voltage	KV	0.4
9	Vector group		Yyn0
10	Rated Frequency	HZ	50
11	Cooling		ONAN
12	Number of windings		2
13	Number of phases		3
14	Type of tap Changer		NLTC
15	Tapping range		$\pm 2*2.5\%$ @primary side

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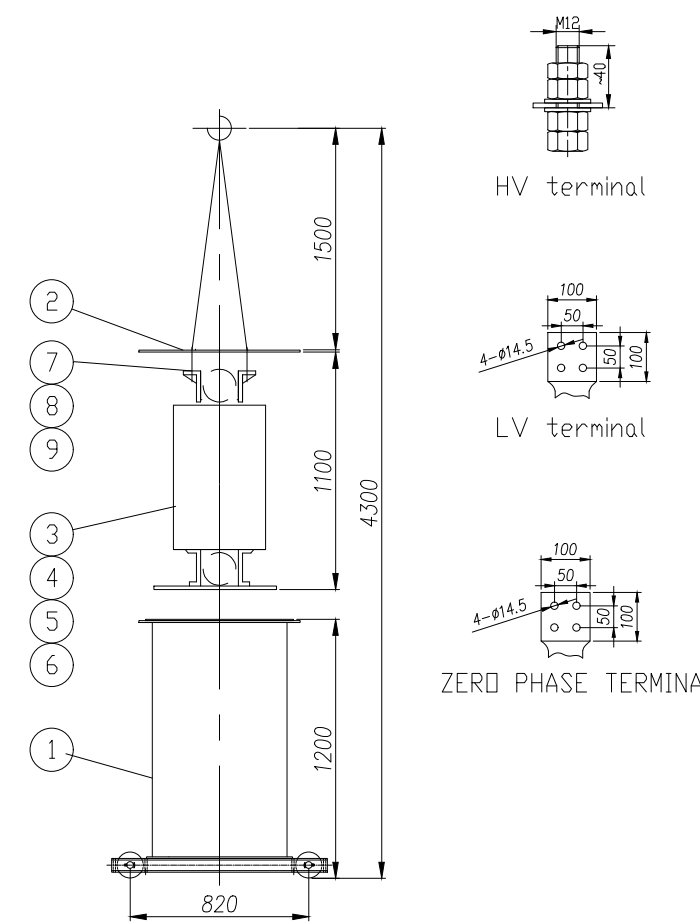
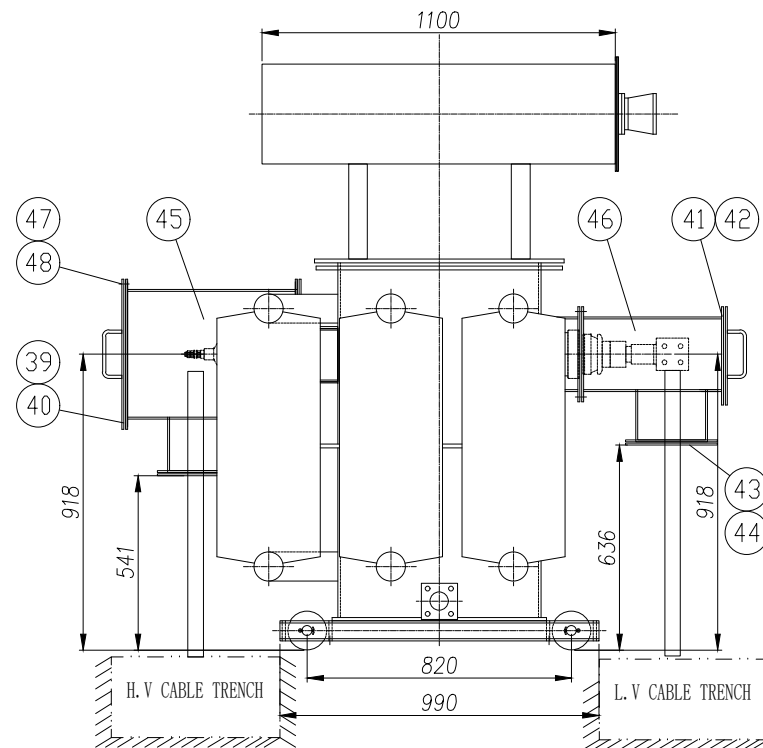
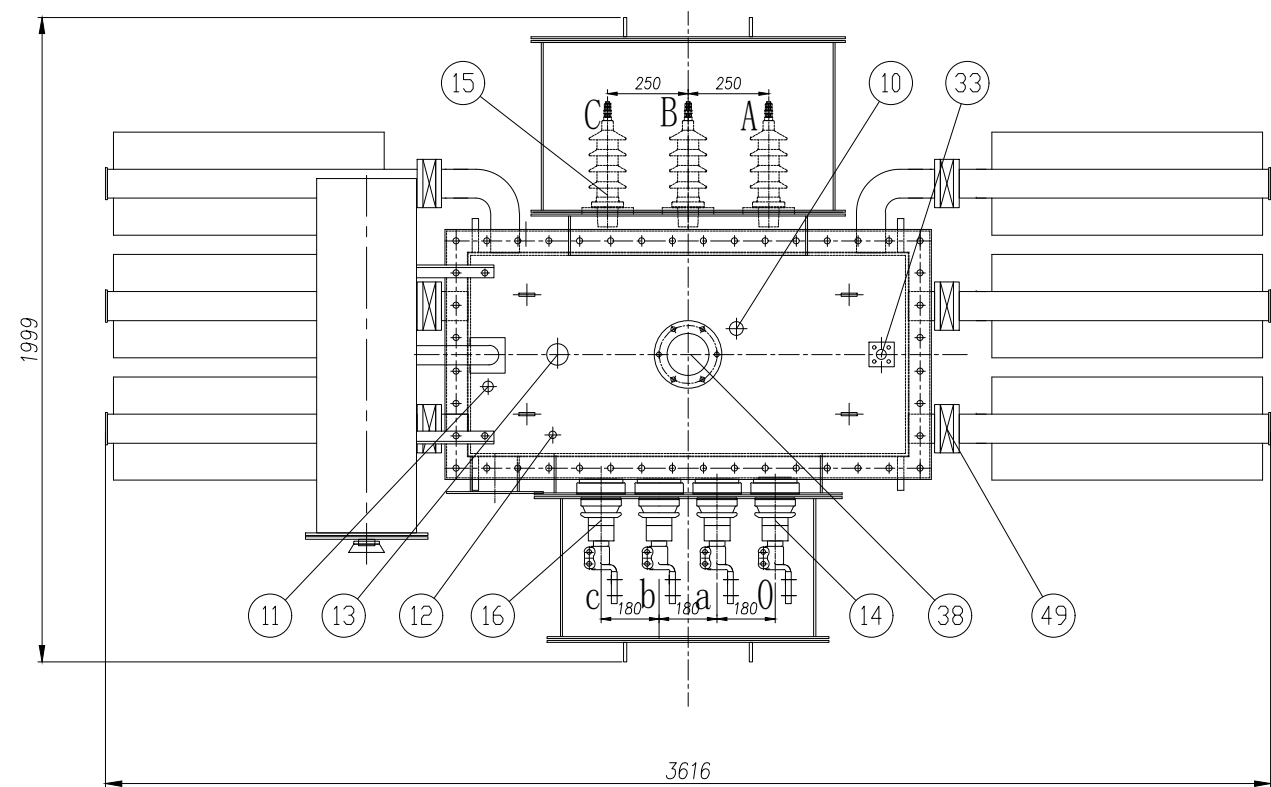
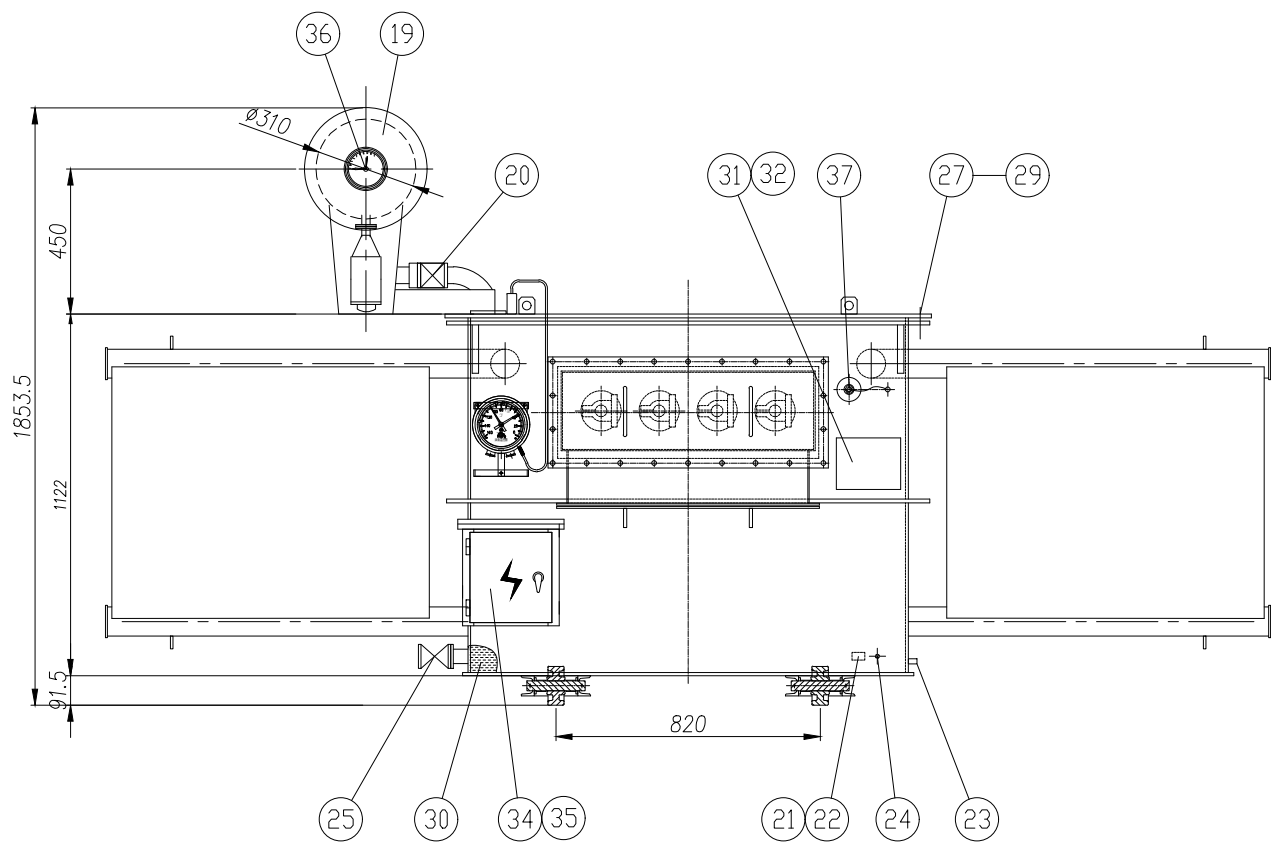
16	Impedance	%	5.5
17	No-load loss	KW	2.75
18	On load loss	KW	13.5
19	Basic insulation level		
19.1	Basic impulse lighting withstand voltage- primary side(BIL)	KV	75
19.2	Power Frequency withstand voltage- primary side	KV	28
19.3	Basic impulse lighting withstand voltage- secondary side(BIL)	KV	/
19.4	Power Frequency withstand voltage- secondary side	KV	5
19.5	Oil temperature rise @ rated service condition	K	50
19.6	Winding temperature rise @ rated service condition	K	55
20	Material		
20.1	Winding material		Cu
20.2	Core material		Grain oriented silicon steel sheet
20.3	Coolant material		PCB free transformer mineral oil
20.4	HV bushing material		Porcelain
20.5	Neutral bushing material		Porcelain
20.6	LV bushing material		Porcelain

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21	Dimension and weight		
21.1	Transport Dimension(L*W*H)	mm	As per drawing
21.2	Transport Weight	kg	As per drawing
21.3	Overall Dimension(L*W*H)	mm	As per drawing
21.4	Total Weight	kg	As per drawing
22	Others		
22.1	Location of HV bushings		Mounted on side of tank inside HV cable box
22.2	Location of LV bushings		Mounted on side of tank inside LV cable box
22.3	Location of Neutral bushings		Mounted on side of tank inside LV cable box
23	Accessories	QTY	Remarks
23.1	Hot dipped galvanized plate type detachable radiator	1 lot	/
23.2	Oil temperature indicator with alarm and trip contacts	1	/
23.3	Pressure relief valve	1	/
23.4	Oil level indicator	1	/
23.5	Buchholz relay with alarm and trip contacts	1	/
23.6	Oil conservator	1	/
23.7	Breather	1	/

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23.8	Oil sample valve	1	/
23.9	Oil drain valve	1	/
23.10	Oil filling valve	1	/
23.12	Earthing terminal	1	/
23.13	Terminal box	1	Stainless steel
23.14	Lifting lugs	4	For top cover and whole unit
23.15	Skid base	1	/
23.16	No load tap changer	1	/



weight kg

active part	Oil	Total	Transport
2550	810	4960	3310

48	GB/T6170-2000	nut M12	100	stainless steel			
47	GB/T5782-2000	bolt M12x55	100	stainless steel			
46	5SD 011 11044	LV cable box	1				
45	5SD 010 11044	HV cable box	1				
44	8SD 009 11044	sealing gasket	2				
43	8SD 008 11044	gland plate	2				
42	8SD 007 11044	sealing gasket	2				
41	8SD 006 11044	cover plate	1				
40	8SD 005 11044	sealing gasket	2				
39	8SD 004 11044	cover plate	1				
38	8SD 002 11044	hand hole cover	1				
37	BF -1/300	core earthing bushing	1				
36	YZF -140	oil level indicator	1				
35	8SD 003 11044	terminal connection diagram	1				
34		terminal box	1				
33	10SD 601 001	oil filter valve 2#	1				
32	GB/T67-2000	bolt M4X8	4				
31	1SD 001 11028MP	Rating plate	1				
30		oil 25#	810kg				
29	GB/T6170-2000	nut M16	44	stainless steel			
28	GB/T5782-2000	bolt M16x55	44	stainless steel			
27		sealing gasket Ø16	1				
26		breather 0.5kg	1				
25		oil drain valve 50	1				
24		earthing nut	2				
23		oil sampling valve	1				
22	GB/T867-1986	rivet Ø3x5	22				
21		word plate	8				
20		gas realy QJ1-50	1				
19	Ø310x1100	conservator	1				
18							
17	PC800-20/320	radiator(hot dipped galvanized)	6				
16	BF -1/3000	LV bushing	3				
15	BLQ1 -20/315	HV bushing	3				
14	BF -1/3000	Zero phase bushing	1				
13	YSF8-55/50	pressure relief valve	1				
12		mercury thermometer base	1				
11	BWY-802	temperature indicator	1				
10	WSP 1125-20/4x3	off-circuit tap changer	1				
9	GB97.1-2000	gasket M12	4				
8		locknut M12	4				
7		lockbolt M12x45	4				
6	5SD 801 11044	LV leads	1				
5	5SD 701 11044	HV leads	1				
4	5SD 401 11044	Insulation assemble	1				
3	5SD 301 11044	core assemble	1				
2	5SD 201 11044	tank cover welding	1				
1	5SD 101 11044	tank welding	1				

No	Code	Name	QTY	Material	Remark
		1600KVA-11/0.525KV		1SD 001 11044	
		Transformer			

