

Technical Specification and Drawing

500KVA-11/0.4KV

DISTRIBUTION TRANSFORMER

No.2014016

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 distribution transformer
4	Installation		Outdoor
5	Altitude	M	≤ 1000
6	Rated power	KVA	500
7	Primary voltage	KV	11
8	Secondary voltage	KV	0.4
9	Vector group		Dyn11
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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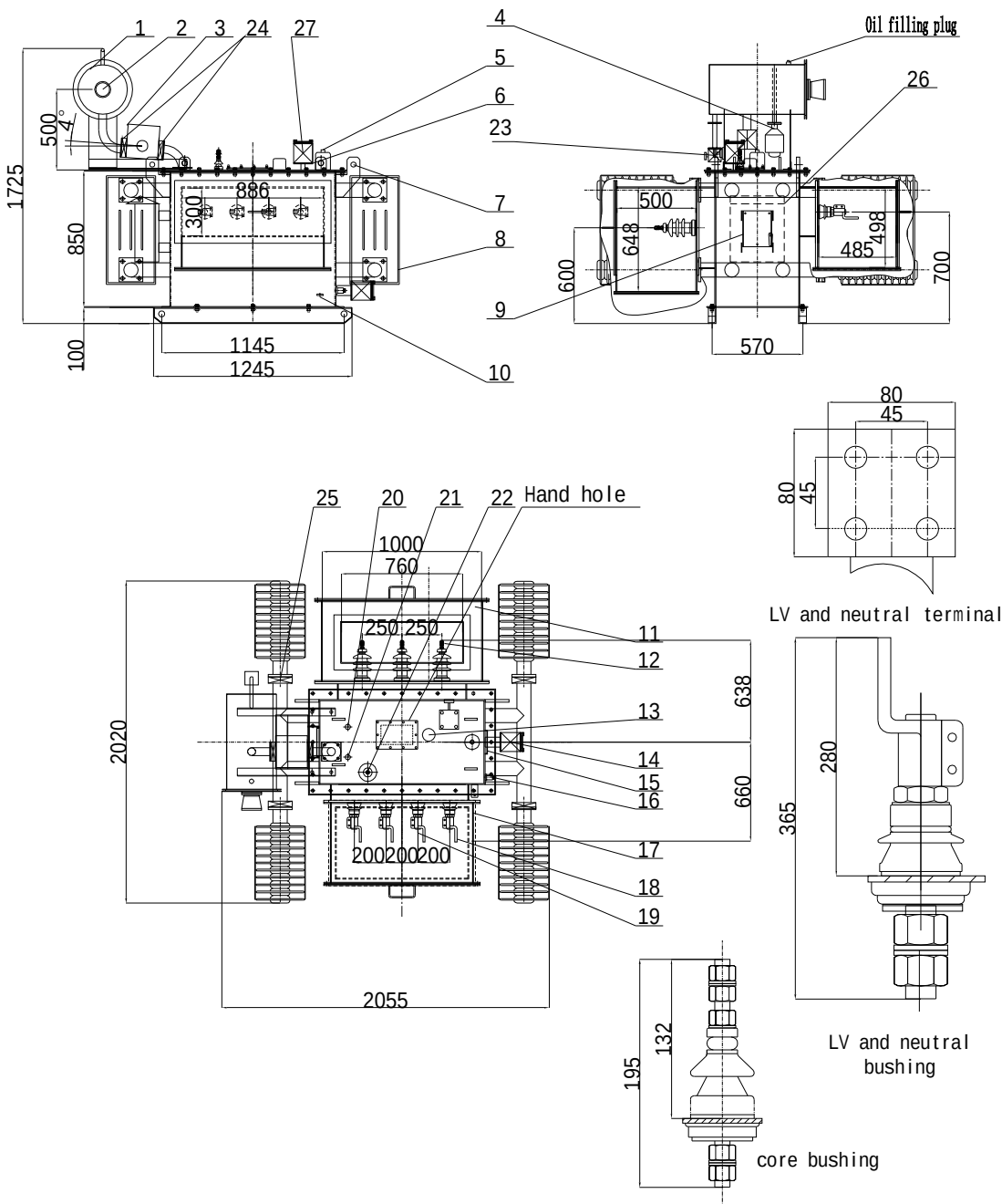
16	Impedance	%	4.5
17	No-load loss	KW	1.1
18	On load loss	KW	5.4
19	Basic insulation level		
19.1	Basic impulse lighting withstand voltage- primary side(BIL)	KV	75
19.2	Power Frequency withstand voltage- primary side	KV	28
19.3	Basic impulse lighting withstand voltage- secondary side(BIL)	KV	N/A
19.4	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 cable box
22.2	Location of LV bushings		Mounted on side of tank inside cable box
22.3	Location of Neutral bushings		Mounted on side of tank inside cable box
23	Accessories	QTY	Remarks
23.1	Hot dip galvanized radiator	1	/
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
1055	330	1740

27	The filter valve	1	ø25 Valve			
26	Terminal box	1	Steel			
25	Radiator Valve	8	ø80Valve			
24	Isolation valve	2	ø50Valve			
23	Conservator oil drain valve	1	ø25 Valve			
22	Core earthing bushing	1	BF-1/315			
21	Thermometer tube	1				
20	Thermometer tube	1				
19	LV bushing	3	BF-1/800			
18	Neutral bushing	1	BF-1/800			
17	LV cable box	1				
16	Oil sample valve	1				
15	Rating plate base board	1				
14	Tank Oil drain valve	1	ø25 Valve			
13	No-load tap changer	1	WSP11-30/10-6*5			
12	HV bushing	3	BJL-10/315			
11	HV cable box	1				
10	Earthing steel plate	1				
9	Temp.controller base	1	BWY802AG (TH)			
8	Radiator	4	PC-500-9/310			
7	Lifting hook	4				
6	Lifting lugs	4				
5	Pressure relief valve	1	YSF4-35/50			
4	Silica gel breather	1	0.5KG			
3	Gas relay	1	QJ1-50A			
2	Oil level indicator	1	YSF2-140			
1	Conservator	1	ø310*600			

500KVA-11/0.4KV
Dyn11
Transformer

Jiangshan Scottech
Electrical Co.,Ltd.