



Three Phase Transformer Type TDQ-126L55D9K-99

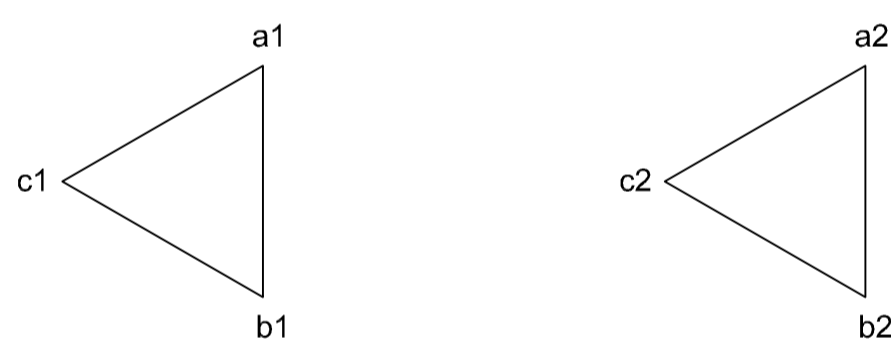
Impedance HV/LV at 910 MVA	
tap 17	
tap 11	
tap 1	
No-load loss	
Load loss at tap 11	

Masses / Volumes (referred to 25°C)		
Fully assembled transformer with oil	485400 kg	
Fully assembled transformer without oil	370100 kg	
Conservator with oil	9300 kg	
Shipping mass (dry-air filled)	343000 kg	
Shipping mass(oil-filled)	450000 kg	
Core and coils (without residual oil)	289000 kg	
Oil total	131500 l	115300 kg
Oil in tank	122000 l	107000 kg
Oil in cooling plant	4000 l	3500 kg
Oil in tap changer diverter compartment, associated pipe work and conservator	800 l	700 kg
Oil in conservator	4700 l	4100 kg

TRANSFORMER WILL WITHSTAND
FULL VACUUM AT SEA LEVEL

THE TRANSFORMER IS
CAPABLE OF LOADING
ABOVE RATED POWER IN
ACCORDANCE WITH IEC 60354

910 MVA							
Terminals	Insulation Level BL (kV)	Tapping Switch Pos.	Selector Switch Position	Diverter Switch Position	Volts [kV]	Amps [A]	
A	1550	17	0 to +	9	459.4	1143.7	
		16		8	452.8	1160.2	
		15		7	446.3	1177.3	
		14		6	439.7	1194.9	
		13		5	433.1	1213.0	
		12		4	426.6	1231.6	
		11		3	420.0	1250.9	
		10		2	413.4	1270.7	
		B		9	K	406.9	1291.2
				C	8	8	400.3
7	7		393.8		1334.3		
6	6		387.2		1356.9		
5	5		380.6		1380.3		
4	4		374.1		1404.5		
3	3	367.5	1429.6				
2	2	360.9	1455.6				
1	1	354.4	1482.5				
YN	150						
a1a2- b1b2- c1c2	200				22	23881	



The diagram illustrates the power distribution system for the test facility. It features a main power bus with three distinct sections: OLTC (On-Load Tap Changer), YN (Neutral Grounding), and Control Cabinet. The OLTC section includes terminals a1, a2, b1, b2, c1, and c2. The YN section includes terminals YN1, YN2, and YN3. The Control Cabinet section includes terminals YN4, YN5, and YN6. The Motor Drive Cabinets are connected to the bus through a series of components: a transformer, a circuit breaker, and a reactor. The Motor Drive Cabinets are labeled A, B, and C.

Terminals	Manufacturer	Type Number
A, B, C	MICAFIL	RTKF 420-1675/2000 KSIT
a1, a2, b1, b2, c1, c2	MICAFIL	RTXF-36-24 Cu spez.
YN	MICAFIL	RTKF 36-200/2000 KSIT

Hersteller	Typennummer
MR Reinhausen	3x RI 2402-72.5/C-10193WR

CT	Terminals	Application	Output VA	Class	ALF	Ip or Ratio A-N-N	Turns ratio N-N-N	R _s	kA /Sec
1YN	1YNS1 - 1YNS2	R.E.F.	30	5P20		1600/1	1600/1		
2YN	2YNS1 - 2YNS2	R.E.F.	1600/0.05	PX	20	1600/1	1600/1	<6Q	
1B	1BS1 - 1BS2	R.E.F.	30	0.2		1600/1	1600/1		
2B	2BS1 - 2BS2	R.E.F.	10	3		1482/1.5	1482/1.5		

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Siemens Transformers Austria - Weiz

Transformer Type	TDO-12BL55DK9-99	TDO-12BL55DK9-99	TDO-12BL55DK9-99	TDO-12BL55DK9-99	TDO-12BL55DK9-99	TDO-12BL55DK9-99	TDO-12BL55DK9-99
Year of Manufacture	2009						
Manufacturer's Serial No.	1741523	1741524	1741525	1741526	1741527	1741528	1741529
Manufacturer's Contract No.	66906	66907	66908	66909	66910	66911	66912
Impedance in % at tap 17	17.66						
Impedance in % at tap 11	16.37						
Impedance in % at tap 1	15.15						
No load loss in kW	239.4						
Load loss in kW at tap 11	2155.1						

Schildgröße: 420mm x 841mm
Lochabstand: 380mm x 801mm
Lochdurchmesser: 5.8mm
Ausführung: Zeichnung und Schrift schwarz, vertieft
Grund: Blank
Material: Rostbeständiges Stahlblech; 2mm dick

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