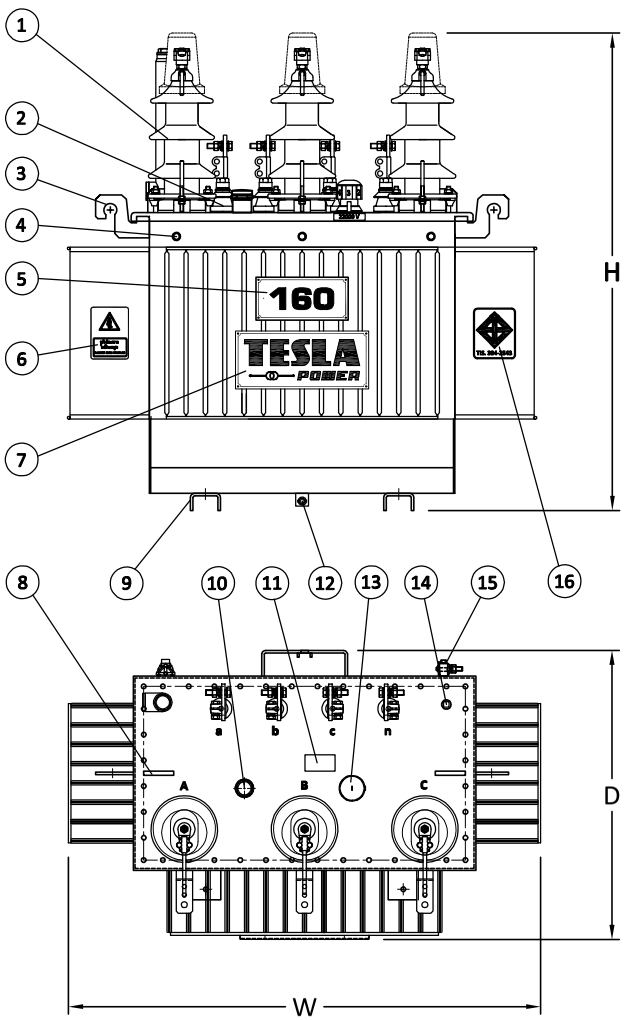
Technical Data of LOW PD Oil-immersed Transformer Hermetically Sealed Type			
Model (ordering code)	:	OTCO35-22K-0160K-B	
Reference standard	:	IEC 60076 , TIS 384-2543	
Ratings			
Rated power	:	160	(kVA)
Number of phases	:	3	(Ø)
Rated frequency	:	50	(Hz)
Rated primary voltage (± 2x2.5%)	:	22000	(V)
Rated secondary voltage	:	416 / 240	(V)
Rated primary current	:	4.20	(A)
Rated secondary current	:	222	(A)
Insulation class	:	A (105)	(°C)
Connection symbol	:	Dyn11	
Service conditions and installation			
Ambient temperature	:	≤ 50	(°C)
Altitude (above sea level)	:	≤ 1000	(m)
Type of cooling	:	ONAN	
Installation method	:	Outdoor	
Performance of transformer at 75°C			
No load loss	:	≤ 260	(W)
Load loss	:	≤ 2000	(W)
Short-circuit impedance	:	4.0	(%)
Efficiency at 50% of rated power (P.F.= 1.0)	:	99.06	(%)
Efficiency at 100% of rated power (P.F.= 1.0)	:	98.61	(%)
Voltage regulation at full load (P.F.= 1.0)	:	1.20	(%)
Sound level	:	51	(dB(A))
Max. Temperature rise of top oil at full load	:	50	(K)
Max. Temperature rise of winding at full load	:	55	(K)
Material of winding conductor	:	Copper	
Type of insulating liquid	:	Mineral oil	

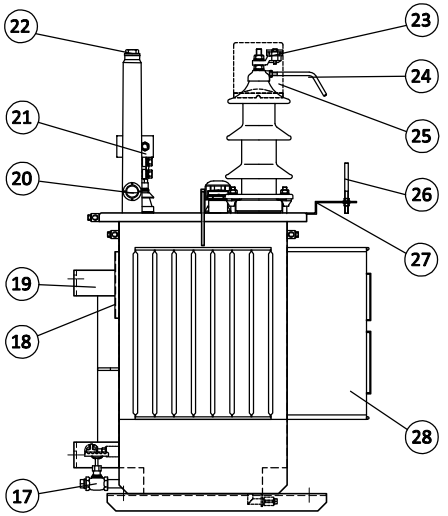
Routine tests

Measurement of insulation resistance
Measurement of winding resistance (IEC 60076-1)
Measurement of voltage ratio and check of phase displacement (IEC 60076-1)
Measurement of no-load loss and no-load current (IEC 60076-1)
Measurement of load loss (IEC 60076-1)
Measurement of short-circuit impedance (IEC 60076-1)
Induced overvoltage withstand test (IEC 60076-1) and (IEC 60076-3)
Applied voltage test (IEC 60076-1) and (IEC 60076-3)
Oil dielectric Breakdown voltage test (IEC 60156)
Physical leakage test (with overpressure 5 psi)

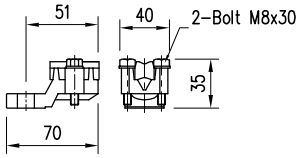
Type tests

Partial Discharge (PD) test (IEC 60076-3)
Lightning impulse (LI) test (IEC 60076-3)
Temperature-rise test (IEC 60076-2)

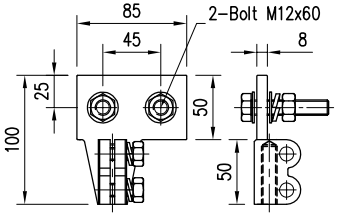




No.	Description	No.	Description
1	High voltage bushing	15	Earthing terminal
2	Low voltage bushing	16	TIS. 384-2543 sign
3	Lifting lugs	17	Oil drain valve
4	Earthing terminal for surge arrester	18	Nameplate
5	Capacity sign	19	Support lugs (spacing 400 mm.)
6	Danger high voltage sign	20	Oil level gauge
7	Trade mark sign	21	Low voltage terminal (see details)
8	Lifting eyes	22	Oil filling plug
9	Foundations of transformer	23	High voltage terminal (see details)
10	Pressure relief device	24	Arcing horn
11	Instruction for tap changer	25	Bird guard cap
12	Sludge drain plug	26	Earthing terminal for arcing horn
13	Off-load tap changer	27	Bracket for surge arrester
14	Thermometer pocket	28	Corrugated radiators



High voltage terminal



Low voltage terminal

Approximate overall dimensions, oil quantity and weight				
W (mm)	D (mm)	H (mm)	Oil quantity (Litre)	Total weight (kg)
1100	675	1115	130	700

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Dimension in millimeters

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