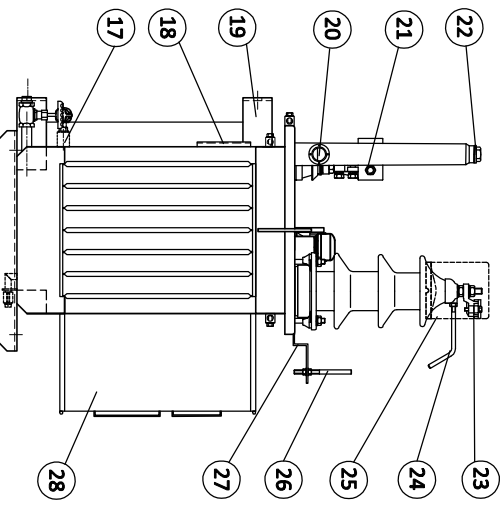
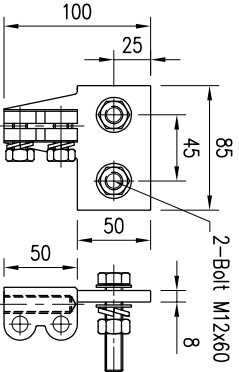
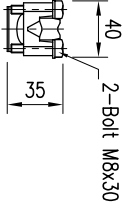
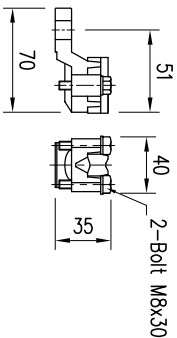
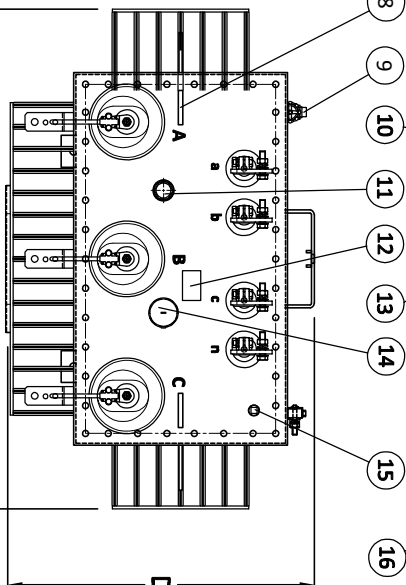
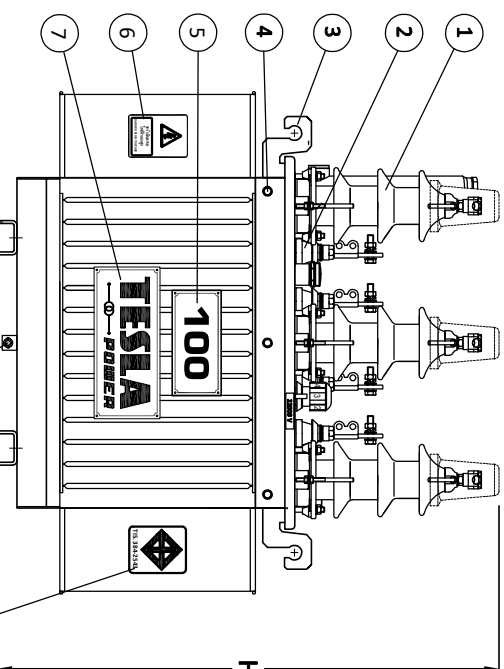


Technical Data of LOW/PD Oil-immersed Transformer Hermetically Sealed Type	
Model (ordering code)	: OTC035-22K-0100K-D
Reference standard	: IEC 60076, TIS 384-2543
<b>Ratings</b>	
Rated power	: 100 (kVA)
Number of phases	: 3 (Ø)
Rated frequency	: 50 (Hz)
Rated primary voltage (± 2x2.5%)	: 22000 (V)
Rated secondary voltage	: 416 / 240 (V)
Rated primary current	: 2.62 (A)
Rated secondary current	: 139 (A)
Insulation class	: A (105) (°C)
Connection symbol	: Dyn11
<b>Service conditions and installation</b>	
Ambient temperature	: ≤ 50 (°C)
Altitude (above sea level)	: ≤ 1000 (m)
Type of cooling	: ONAN
Installation method	: Outdoor
<b>Performance of transformer at 75°C</b>	
No load loss	: ≤ 180 (W)
Load loss	: ≤ 1450 (W)
Short-circuit impedance	: 4.0 (%)
Efficiency at 50% of rated power (P.F. = 1.0)	: 98.93 (%)
Efficiency at 100% of rated power (P.F. = 1.0)	: 98.40 (%)
Voltage regulation at full load (P.F. = 1.0)	: 1.42 (%)
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
<b>Routine tests</b>	
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)	
<b>Type tests</b>	
Partial Discharge (PD) test (IEC 60076-3)	
Lighting impulse (LI) test (IEC 60076-3)	
Temperature-rise test (IEC 60076-2)	



No.	Description	No.	Description
1	High voltage bushing	15	Thermometer pocket
2	Low voltage bushing	16	TIS-384-2543 sign
3	Lifting lugs	17	Earthing terminal
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	Oil drain valve	23	High voltage terminal (see details)
10	Foundations of transformer	24	Aring horn
11	Pressure relief device	25	Bird guard cap
12	Instruction for tap changer	26	Earthing terminal for arcing horn
13	Sludge drain plug	27	Bracket for surge arrester
14	Off-load tap changer	28	Corrugated radiators

Approximate overall dimensions, oil quantity and weight			
W (mm)	D (mm)	H (mm)	Oil quantity (litre)
1035	640	1035	105
			Total weight (kg)
			540



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