

# 3 Phase oil immersed transformers, 50-200 kVA, 22 kV

By winding the transformer core instead of stacking sheets of metal, **Hexaformer** has developed an innovative closed symmetrical cage core for its transformers. This patented triangle-shaped core gives exceptional properties, requires less material and reduces the amount of loss produced, making these products environmental friendly.

## Features:

- Low loss
- Small size
- Low weight
- Robust
- Less vibrations
- Low noise level
- Smaller EM stray field
- Low in-rush current
- Low third harmonic



## Characteristics

Compliant to standard IEC60076-1  
 Frequency : 50 Hz  
 Vector Group: Dyn11 standard, others on request  
 Impedance voltage (Uk 75 °C): 4,0 %  
 Temperature class: A (105°C)  
 Ambient temperature: -40 to + 40 °C  
 Temperature rise Wd/Oil: 65/60 °K  
 BIL HV, LI/AC: 125/50 kV  
 BIL LV, AC: 5 kV  
 Off circuit tap changer :  $\pm 2 \times 2.5\%$

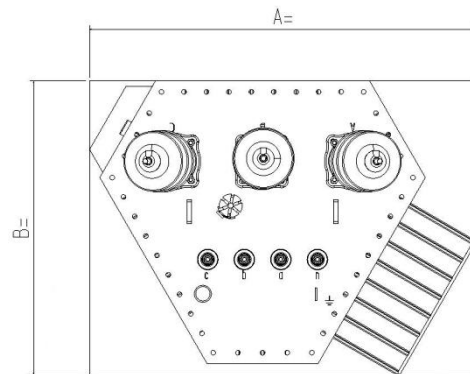
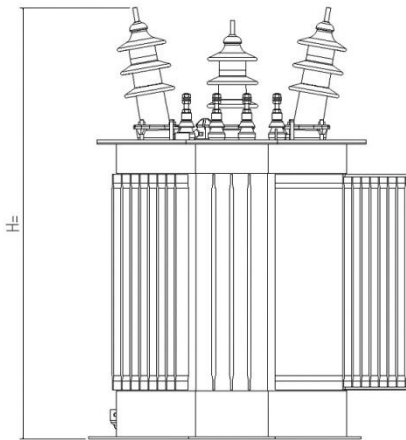
Double isolated copper windings  
 Noise level < 54 dB(A) for all models  
 Hermetically sealed tank  
 ONAN Cooling  
 Mineral oil as standard, synthetical or biological ester oil as option (see part number)  
 Porcelain or elastimold bushings (see part number)  
 Galvanised tank with fin walls  
 Drain valve for oil sampling  
 Lifting lugs on the cover of the tank

Part number	Rated Power (kVA)	Voltages (kV)	No load losses Po(W)	Load losses Pk(W)	Dimensions			Oil weight kg	Total Weight kg
					A(mm)	B(mm)	H(mm)		
5022T3PM	50	22/0.42	125	1050	850	625	1125	120	400
5022T1PM	50	22/0.42	110	950	850	625	1125	110	450
5022T2PM	50	22/0.42	95	900	850	625	1125	130	500
10022T3PM	100	22/0.42	220	1850	910	690	1225	165	550
10022T1PM	100	22/0.42	170	1600	910	690	1225	150	610
10022T2PM	100	22/0.42	145	1500	910	690	1225	160	670
20022T3PM	200	22/0.42	305	3420	1030	720	1360	230	870
20022T1PM	200	22/0.42	290	2550	1030	720	1360	205	1025
20022T2PM	200	22/0.42	240	2400	1030	720	1360	210	1070

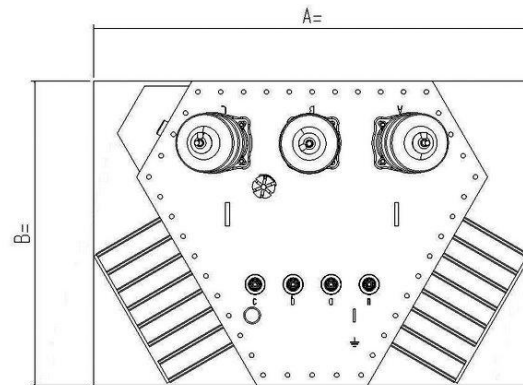
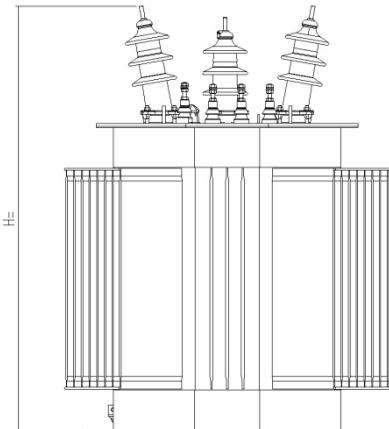


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## Mechanical Drawing for 50 kVA and 100 kVA



## Mechanical Drawing for 200kVA



### Ordering code:

**10022XYZ**

X= Loss level as in table

Y = P for Porcelaine (see table for height)

Q for elastimold (new height dimensions)

Z = M for mineral oil NYNAS 10XN or similar

E for synthetic ester oil MIDEL 7131

G for biological ester oil COOPER FR3

Västervik, Version 4.1, 2011-05-20

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**Hexaformer**<sup>TM</sup>  
Evolution in Energy Transformation

