



BEZ TRANSFORMÁTORŤ  
Member of International BEZ Group

## Three - phase oil - filled and hermetically sealed transformers 50 - 3150 kVA, 7.2 - 24 kV, Ecodesign, A<sub>0</sub>B<sub>k</sub> max., Al winding



### Technical data

Standard	IEC 60076, EN 50464 - 1/A1 Ecodesign regulation EU no. 548/2014
Transformer design	Completely oil - filled, hermetically sealed Corrugated tank, cover bolted
Indoor and outdoor use	
Continuous loading	Overload capacity - IEC 60076 - 7
Cooling system	ONAN, mineral oil - EN 60296 *
Ambient temperature	≤ 40°C *, altitude ≤ 1000 m *
Thermal class	105 (A) - temperature rise winding/oil 65/60 K
Corrosion protection	Coating system - class C3 - EN ISO 12944-5 * Standard RAL 7033 *

### Electrical characteristics

Rated power	50 - 3150 kVA *
High voltage (HV)	6 kV, 10 kV, 20 kV, 22 kV *
Tapping range HV	± 2 x 2,5 % * off-circuit
Low voltage (LV)	400/231 V, 420/242 V *
Frequency	50 Hz *
Insulation level	Um 24 kV LI/AC 125/50 Um 12 kV LI/AC 75/28 Um 7,2 kV LI/AC 60/20 Um 1,1 kV LI/AC - /3
Vector group	50 - 3150 kVA Dyn*

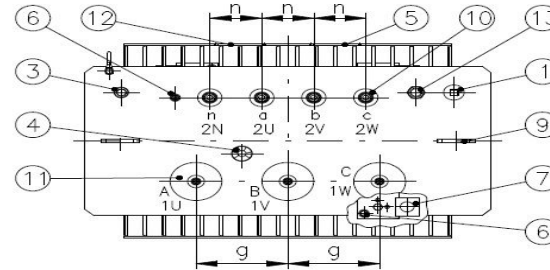
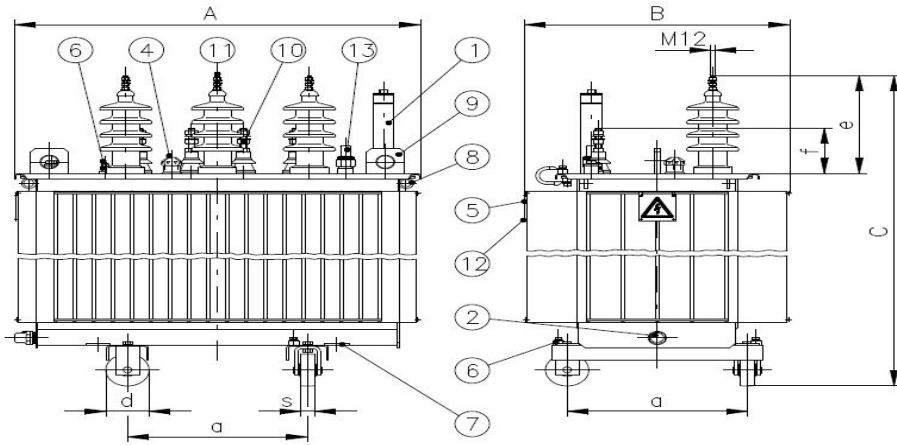


Rated power	kVA	50	100	160	250	400	630	800	1000	1250	1600	2000	2500	3150
Type	aTOHn	269/22	299/22	319/22	339/22	359/22	379/22	389/22	399/22	409/22	419/22	429/22	439/22	449/22
No- load losses A <sub>0</sub> max.	P <sub>0</sub> (W)	90	145	210	300	430	600	650	770	950	1200	1450	1750	2200
No- load current	I <sub>0</sub> (%)	0,60	0,60	0,55	0,45	0,40	0,30	0,25	0,20	0,17	0,15	0,13	0,13	0,13
Load losses B <sub>k</sub> max.	P <sub>k75°C</sub> (W)	1100	1475	2000	2750	3850	5400	7000	9000	11000	14000	18000	22000	27500
Impedance voltage	U <sub>k 75°C</sub> (%)	4	4	4	4	4	4	6	6	6	6	6	6	6
Sound level														
- pressure (0,3 m)	L <sub>pA</sub> dB(A)	30	32	35	38	41	43	44	46	47	48	50	52	55
- power	L <sub>WA</sub> dB(A)	39	41	44	47	50	52	53	55	56	58	60	63	66
Dimensions														
- length (mm)	A	970	970	1090	1150	1185	1300	1500	1555	1700	1925	1920	2050	2225
- width (mm)	B	625	680	700	750	820	850	950	990	965	965	1190	1230	1360
- height (mm)	C (6,10 kV)	1185	1245	1340	1365	1465	1620	1655	1755	1895	2050	2135	2255	2345
	C (20,22 kV)	1300	1360	1455	1480	1580	1735	1770	1770	1940	2060	2145	2255	2345
Weight [ kg ]	Oil	130	165	230	245	290	425	600	620	665	820	940	1130	1320
	Total	640	810	1080	1230	1510	2250	2940	3130	3220	4000	4610	5895	8650

For any alternative requirements (\*) please contact manufacturer.

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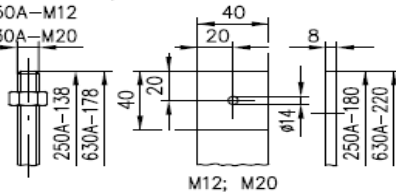
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### Outline drawing

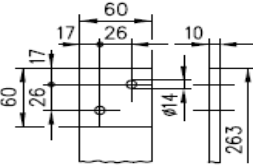
1. Oil filling plug
  - Integrated safety detector ( R.I.S ) \*
  - Pressure relief valve \*
2. Oil drain valve
3. Thermometer pocket
  - thermometer  
(with or without contacts)
4. Tap changer handler
5. Rating plate
6. Earthing terminal
7. Pulling plug
8. Lushing eye
9. Lifting lug
10. LV Bushing EN 50386
11. HV Bushing EN 50180 P2
  - plug - in bushing outer cone \*
12. Trade marke
13. Oil level gauge\*

1/250 - 1/630  
250A-M12  
630A-M20



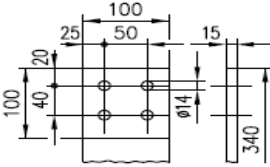
M12; M20  
up to 400kVA

1/1250



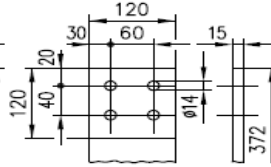
M30x2  
630-800 kVA

1/2000



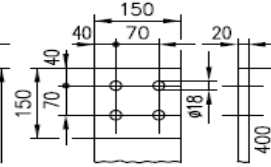
M42x3  
1000-1250 kVA

1/3150



M48x3  
1600-2000 kVA

1/4000



M55x3  
2500 kVA

### Dimensions

Rated power (kVA)	50	100	160	250	400	630	800	1000	1250	1600	2000	2500	3150
Type - aTOHn	269/22	299/22	319/22	339/22	359/22	379/22	389/22	399/22	409/22	419/22	429/22	439/22	449/22
d ( mm )	125	125	125	125	125	125	125	160	160	160	200	200	200
s ( mm )	40	40	40	40	40	40	40	50	50	50	70	70	70
a ( mm )	520	520	520	520	670	670	670	820	820	820	1070	1070	1070
e ( mm )	10 kV	270	270	270	270	270	270	270	270	270	270	270	270
	22 kV	385	385	385	385	385	385	385	385	385	385	385	385
f ( mm )	140	180	180	220	220	263	263	340	340	372	372	400	435
g ( mm )	265	265	265	265	265	265	265	265	265	265	265	265	265
n ( mm )	150	150	150	150	150	150	150	170	170	170	170	170	170

Company reserves the right to modify data without notice.

Shown values serve as guidance only i.e. definitive dimensions and weights are subject to modification according to concrete purchase order.

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