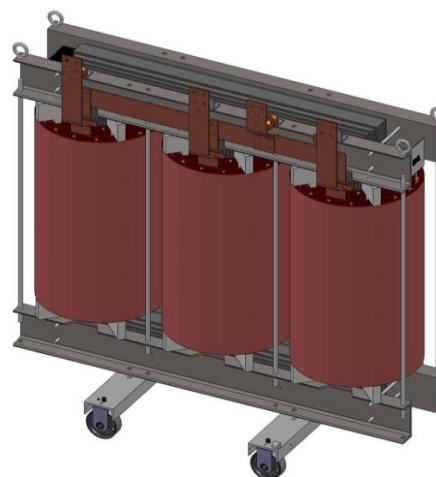


**Three-phase dry type distribution transformers - ENL Series**  
**from 50 up to 1000kVA for rated voltages 10kV/0.420kV (reduced losses)**



**Design and installation characteristics:**

- indoor and outdoor use
- continual operation at full load with ONAN cooling
- 50Hz frequency
- up to 1000m altitude
- maximal ambient temperature of 40°C
- thermal insulation class A

**Applied standards and norms:**

- IEC 60076-11,



<b>Electrical characteristics</b>							
<b>rated power (kVA)</b>	<b>50</b>	<b>100</b>	<b>160</b>	<b>250</b>	<b>400</b>	<b>630</b>	<b>1000</b>
<b>rated voltage (kV)</b> primary	10						
secondary at no-load	0,42						
<b>rated insulation level (kV)</b>	12/1.1 (LI75 AC28/LI0 AC3)						
<b>HV tapping range (off-load)</b>	±2x2.5%						
<b>vector group</b>	Dyn 5						
<b>losses (W)</b> no-load	200	280	400	520	750	1100	1550
load <sup>(1)</sup>	1700	2050	2900	3800	5500	7600	9000
<b>rated impedance voltage (%) <sup>(1)</sup></b>	4					6	

**description**

- conductor material - copper / copper
- magnetic circuit - Step-Lap technology

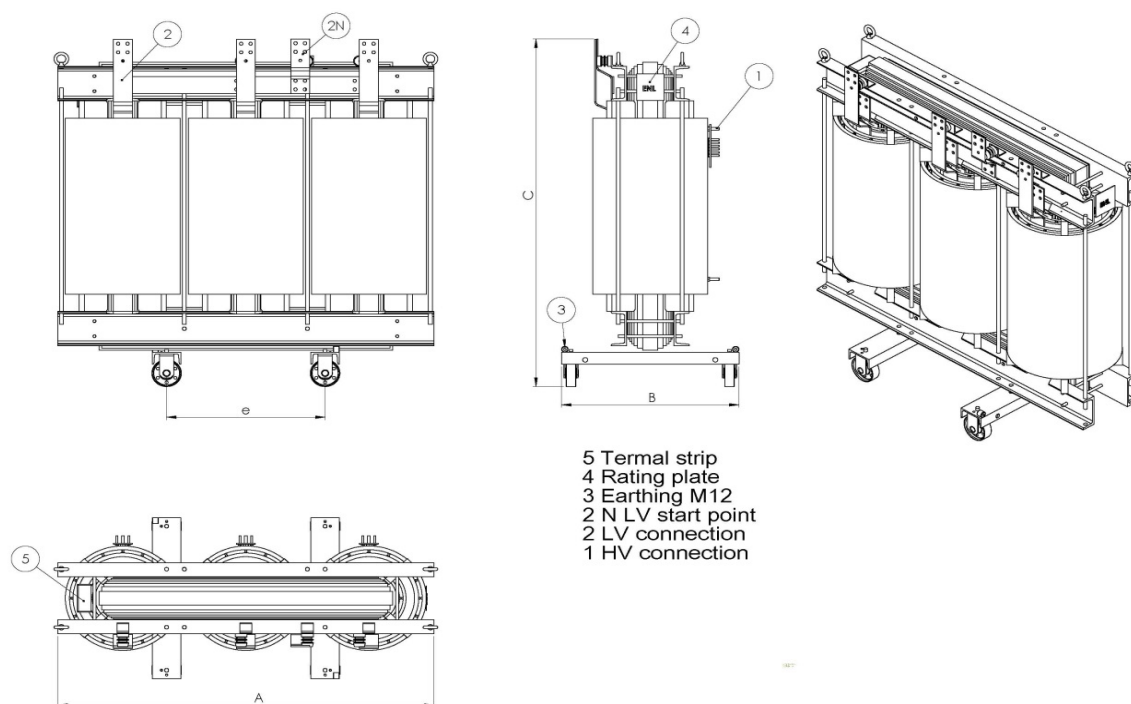
**basic accessories**

- rollers - standard designe
- earthing terminal (3pcs)
- four lifting lugs
- termal strip

In case of special requirements for distribution transformers in accordance with IEC 60076 and EN 50464 beside this catalogue related to rated powers, design, electrical characteristics and accessories please contact us

## Three-phase dry type distribution transformers - ENL Series

from 50 up to 1000kVA for rated voltages 10kV/0.420kV (reduced losses)



Dimensions								
rated power	kVA	<b>50</b>	<b>100</b>	<b>160</b>	<b>250</b>	<b>400</b>	<b>630</b>	<b>1000</b>
A	mm	900	960	1050	1260	1450	1530	1560
B	mm	580	580	580	750	750	750	750
C	mm	1118	1128	1133	1352	1447	1517	1677
e	mm	520			670			
Weights								
Total mass	kg	475	620	850	1250	1650	2100	2600

### Priključci

#### Tests:

##### Routine tests:

- Measurement of winding resistance
- Measurement of voltage ratio and phase displacement
- Measurement of short-circuit impedance and load loss
- Measurement of no-load loss and no-current
- Dielectric routine tests

##### Type tests:

- Temperature-rise test
- Partial discharge test

##### Special tests

- Dielectric special tests
- Determination of capacitances windings to earth, and between windings
- Short-circuit withstand test
- Determination of sound levels
- Measurement of windings insulation resistance to earth and/or measurement of dissipation factor ( $\tan\delta$ ) of the insulation system

**Remark:** It is possible to perform other customer requested testings in accordance with relevant standards and norms.



