



ENERGOREMONT PRODUCTS

RAILWAY TRANSFORMER

Single-phase transformer used in railways for transformation of the primary 27kV voltage to some desired secondary voltage that supplies heating of the railroad switches, signalization and other local needs for electrical energy.



All technical characteristics listed below can be adjusted to the particular customer's needs.

TECHNICAL DATA

Manufacturer			ENERGOREMONT, Belgrade				
Transformer type			REL 20-27,5	REL 50-27,5	REL 100-27,5	REL 200-27,5	REL 315-27,5
Transformer kind			Hermetically sealed				
Standard			IEC 60076				
Electrical characteristics and guaranteed values							
1.	Rated power	[kVA]	20	50	100	200	315
2.	Number of phases		1				
3.	Rated frequency	[Hz]	50				
4.	Highest voltage level of the equipment	[kV]	27.5				
5.	Rated insulating level	[kV]	LI 170 AC70/LI0 AC 5				
6.	Rated primary voltage	[kV]	27.5				
7.	Rated secondary voltage	[kV]	0.4				
8.	Regulation		NA				
9.	Tapping range	[%]	NA				
10.	Connection symbol		li 0				
11.	No-load losses	[W]	125	160	225	360	520
12.	Load losses at 75 °C	[W]	500	950	1475	2100	3250
13.	Impedance voltage at 75 °C	[%]	4				
Temperature rises, conditions of use and installation							
15.	Maximal ambient temperature	[C]	40				
16.	Maximal temperature rise of conductor	[K]	65				
17.	Maximal temperature rise of oil	[K]	60				
18.	Thermal class of insulation		A				
19.	Type of cooling		ONAN				
20.	Installation height (above sea level)	[m]	<1000				

21.	Type of terminal connection		HV : DIN 42531 LV : DIN 42530				
22.	Place of installation		Outdoor/Pole mounted				
Maximal dimensions and masses							
23.	Maximal dimensions of the transformer:						
	a) length	[mm]	647	811	827	1064	1116
	b) wide	[mm]	756	737	821	904	917
	c) height	[mm]	1305	1421	1503	1613	1804
24.	Approximate mass of the transformer oil	[kg]	100	135	180	230	300
25.	Approximate mass of the transformer	[kg]	360	505	790	1150	1550