



**DISTRIBUTION TRANSFORMERS
CATALOGUE**

www.artrans.com.ar



COMPANY INFORMATION

ARTRANS S.A. started off as a small factory in April 2, 1982 located in Mendoza, Argentina. Now, three decades later it is a globally recognized manufacturer of distribution, transmission, oil field and special application transformers with certification to ISO9001-2008 quality standards. We manufacture all types of transformers ranging from 63 kVA to 100 MVA with voltages up to 138 KV and are present in many of the countries of the world ourselves or as the transformer vendor to other associated equipment manufacturers.

We have a predominant position as supplier of Electricity Companies in Argentina and neighboring countries. Our scope of work includes:

Manufacturing of power transformers up to 100000 kVA with voltages of 66, 69, 132 and 138 kV, with On-Load tap changer.

Manufacturing of distribution transformers up to 2500 kVA with voltages of 3.3, 6.6, 11, 13.8 and 33 kV.

Manufacturing of Neutral reactors.

Repair and maintenance of distribution and power transformers

Mounting supervision

Technical assistance

After-sales service.

Our experience of manufacturing transformers for oil production in the North Africa and Middle East regions includes Step Down and Step Up systems, normally rated for 55C to 60C ambient temperatures used with:

ESP Variable Frequency Drives with 6, 12, 18 and 24 pulse secondary windings

ESP fixed frequency step down to switchboard

ESP hazardous location IP66 / Class1 Div2 Hazardous

ESP off shore stainless steel, corrosion resistant

ESP phase shifting transformers for multi-pulse VFD

ESP high temperature designs for up to 65C ambient

PCP / Beam Pump VFD step down transformers

Our standard oilfield type transformer has a multi-tap winding system with 28 taps between delta/wye. It is supplied with a full complement of gauges for user monitoring of performance and is designed to be very strong and rugged with the ability to withstand being transported to the least approachable geographical locations in the world with a minimum of reliability issues due to transportation damage. Our long experience of applying our transformers in the oil fields of the world has allowed us to develop or system design to heighten reliability.

We manufacture transformers for the major ESP manufacturers. These products are specially designed to meet the exacting specifications developed by particular customers based upon years of experience of providing skidded products to the international ESP and oil companies. These include extra mechanical bracing on the core assembly, higher ambient temperature ratings with an increased cooling capacity, special internal wiring that better withstands shipping vibration along with other smaller details such as double or lock nutting.



MANUFACTURING AND TESTING CAPABILITY

Our facilities have all of the necessary manufacturing and testing equipment required to produce the highest quality products. Our high voltage test laboratory is one of only five in Argentina that allows testing not only our products, but also our competitors'. In addition we have signed agreements with two main Universities in Argentina in order to develop research activities.

ARTRANS S.A. main goal is to supply the Transformers market with the highest available technology and workmanship, in order to produce high quality products that fulfill our customer requirements. For that reason, ARTRANS S.A. has a group highly trained and experienced Engineers and Technicians of recognized international reputation, capable of producing high quality products. These capabilities have allowed ARTRANS S.A. to produce more than 2.5 Million KVA with our own brand that complies with International Quality Standards.



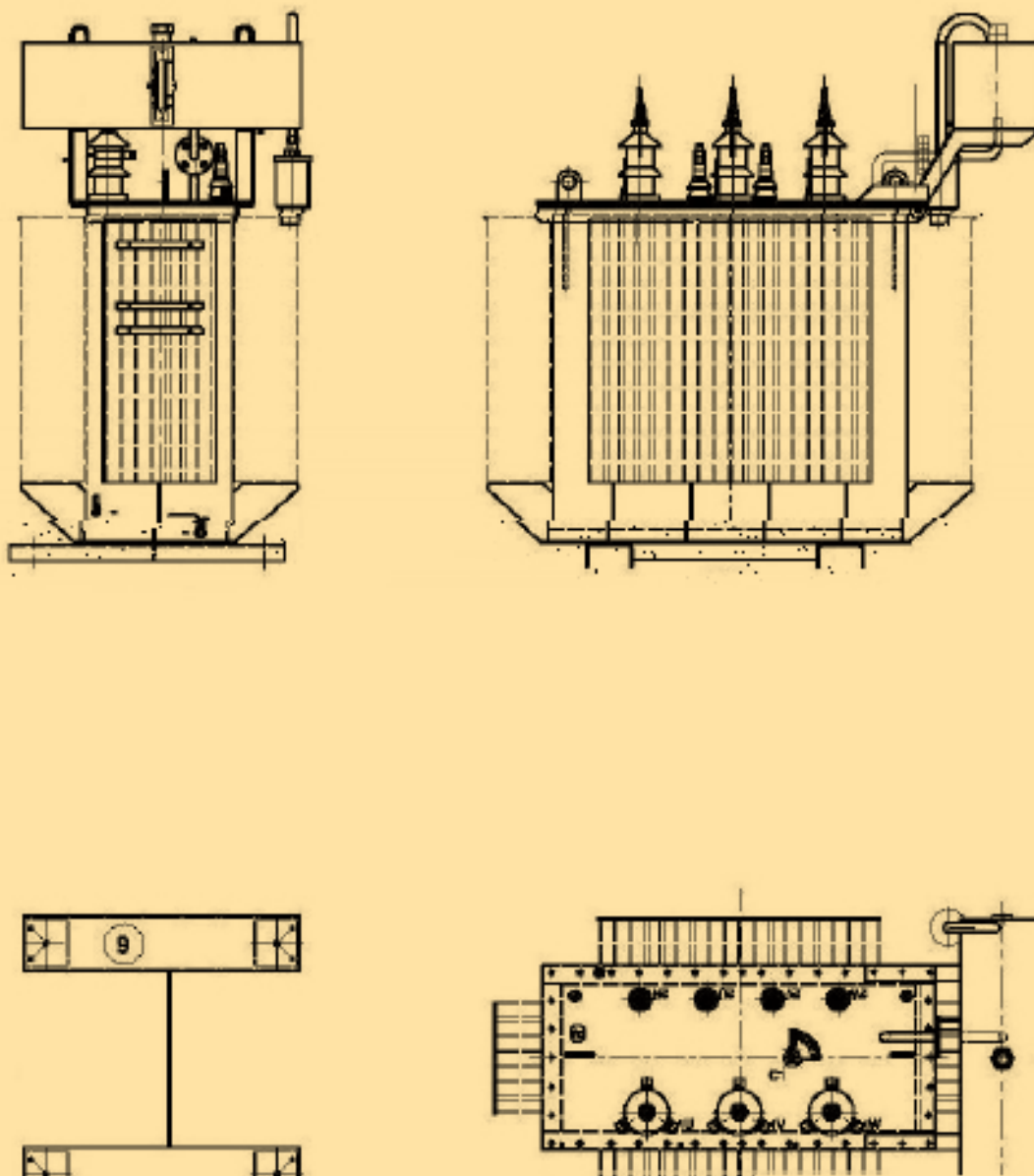
DISTRIBUTION TRANSFORMER 13.2 KV CONSERVATOR TYPE

500 kVA Transformer– 13.2/0.4-0.231 kV

Maximum dimensions for Distribution Transformers @13,2 kV Primary Voltage.

TRANSFORMER	RATED S_r (Power kVA)	LENGTH	WIDTH	HEIGHT
13.2 kV Conservator Type	$S_r \leq 315$	1650	1100	1800
	500	1700	1100	1900
	630	1900	1200	2000
	800	2100	1400	2100
	1000	2300	1550	2300
	1250	2350	1800	2400
	1600	2400	2200	2500
	2000	2500	2550	2600
	2500	2800	2600	2700

DISTRIBUTION TRANSFORMER 13.2 KV CONSERVATOR TYPE



Distribution Transformer - 13.2/0.4-0.231 kV Conservor Type

DISTRIBUTION TRANSFORMER 13.2 KV CONSERVATOR TYPE

TECHNICAL DATA SHEET

MANUFACTURER	ARTRANS																	
Type	T/D/13/	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500
Manufacture Standard		IEC 60076																
Insulation Liquid		MINERAL OIL																
Connection Group		Dy11																
Rated Power [KVA]		63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500
Primary Voltage [KV]		13,2																
Tapping [% Un]		+5, +2,5, 0, -2,5, -5																
Secondary Voltage [kV]		0.400/0.231																
Temperature Rise		As per applicable standard																
Windings [°C]		65																
Insulation Liquid [°C]		60																
Load Losses @75 °C [W]		1350	1500	1750	2100	2500	3000	3500	4250	4900	6000	7250	8750	10500	13800	17000	21500	24800
No Load Losses @75 °C [W]		270	300	350	420	500	600	700	850	920	1200	1450	1750	2100	2300	2700	3000	3300
Core [Kg]		160	190	215	260	320	370	430	540	600	750	912	964	1100	1282	1332	1851	2141
MV Windings [Kg.]		34	42	54	60	66	78	97	108	130	160	194	236	254	292	383	404	471
LV Windings [Kg.]		24	30	36	37	44	52	64	74	90	100	124	156	190	191	216	277	818
Core and Coils [Kg.]		218	262	305	357	430	500	591	722	820	101	123	135	1544	2088	2281	3011	3993
Tank and Accessories [Kg.]		180	200	210	245	300	350	400	450	490	520	560	660	780	932	1199	1440	1484
Insulation Liquid [Lts.]		120	125	135	140	173	200	230	290	310	380	460	490	600	813	841	1052	1158
Total Weight [Kg.]		518	587	650	742	903	1050	1221	1462	1620	1910	2250	2506	2924	3834	4321	5503	6635
Winding Materials		Cooper																

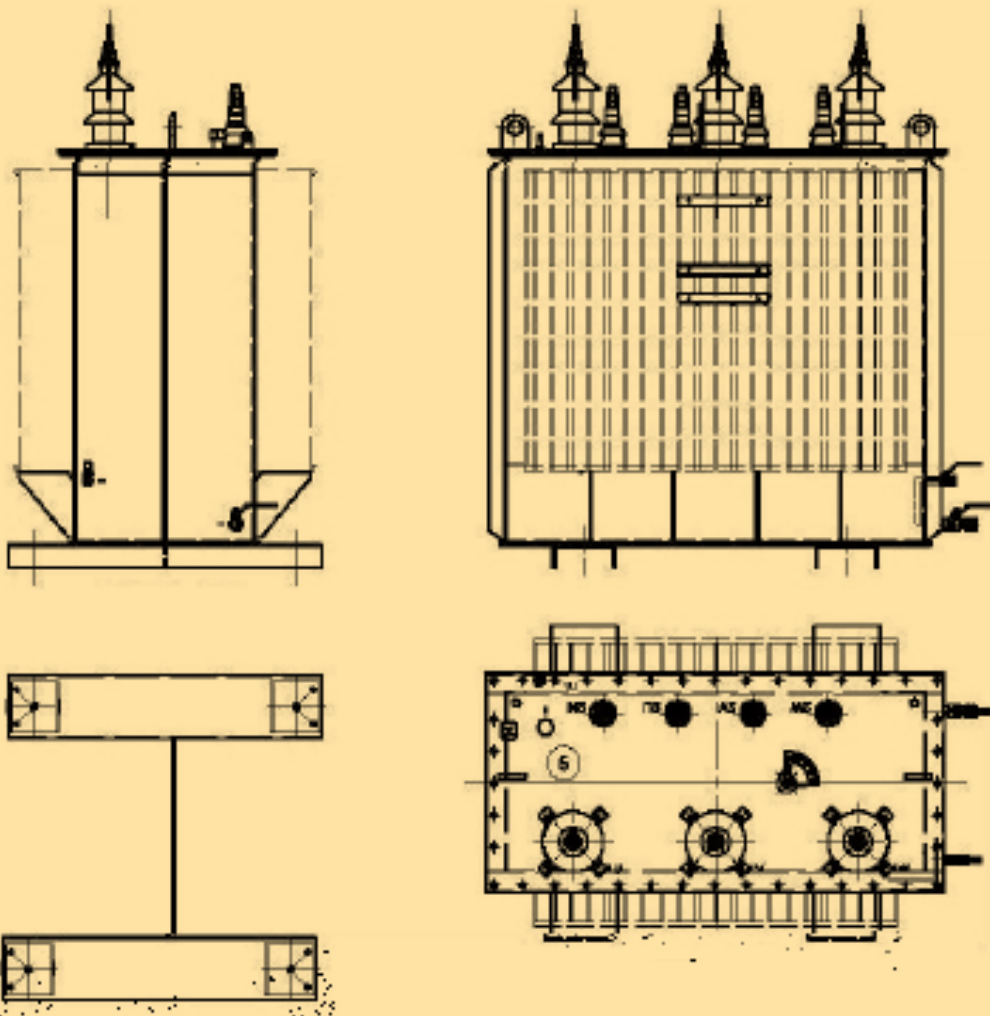
DISTRIBUTION TRANSFORMER 13.2 KV SEALED TYPE

250 kVA Transformer– 13.2/0.4-0.231 kV

Maximum dimensions for Distribution Transformers @13,2 kV Primary Voltage

TRANSFORMER	RATED S_r (PowerkVA)	LENGTH	WIDTH	HEIGHT
13.2 kV Sealed Type (Bushings Exposed)	$S_r \leq 315$	1650	1100	1800
	500	1700	1100	1900
	630	1900	1200	2000
	800	2100	1400	2100
	1000	2300	1550	2300
	1250	2350	1800	2400
	1600	2400	2200	2500
	2000	2500	2550	2600
	2500	2800	2600	2700

DISTRIBUTION TRANSFORMER 13.2 KV SEALED TYPE



Distribution Transformer 13.2 kV Sealed Type - 13.2/0.4-0.231 kV

DISTRIBUTION TRANSFORMER 13.2 KV SEALED TYPE

TECHNICAL DATA SHEET

MANUFACTURER	ARTRANS																	
Type	T/D/13/	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500
Manufacture Standard	IEC 60076 - ANSI C.57.12.00																	
Insulation Liquid	MINERAL OIL																	
Connection Group	Dy11																	
Rated Power [KVA]	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	
Primary Voltage [KV]	13,2																	
Tapping [% Un]	+5, +2,5, 0, -2,5, -5																	
Secondary Voltage [kV]	0.400/0.231																	
Temperature Rise	As per applicable standard																	
Windings [°C]	65																	
Insulation Liquid [°C]	60																	
Load Losses @75 °C [W]	1350	1500	1750	2100	2500	3000	3500	4250	4900	6000	7250	8750	10500	13800	17000	21500	24800	
No Load Losses @75 °C [W]	270	300	350	420	500	600	700	850	920	1200	1450	1750	2100	2300	2700	3000	3300	
Core [Kg]	160	190	215	260	320	370	430	540	600	750	912	964	1100	1282	1332	1851	2141	
MV Windings [Kg.]	34	42	54	60	66	78	97	108	130	160	194	236	254	292	383	404	471	
LV Windings [Kg.]	24	30	36	37	44	52	64	74	90	100	124	156	190	191	216	277	818	
Core and Coils [Kg.]	218	262	305	357	430	500	591	722	820	101	123	135	1544	2088	2281	3011	3993	
Tank and Accessories [Kg.]	180	200	210	245	300	350	400	450	490	520	560	660	780	932	1199	1440	1484	
Insulation Liquid [Lts.]	120	125	135	140	173	200	230	290	310	380	460	490	600	813	841	1052	1158	
Total Weight [Kg.]	518	587	650	742	903	1050	1221	1462	1620	1910	2250	2506	2924	3834	4321	5503	6635	
Winding Materials	Cooper																	

DISTRIBUTION TRANSFORMER 33 KV CONSERVATOR TYPE

400 kVA Transformer– 33/0.4-0.231 kV

Maximum dimensions for Distribution Transformers @33 kV Primary Voltage.

TRANSFORMER	RATED S_r (PowerkVA)	LENGTH	WIDTH	HEIGHT
33 kV Conservator Type	$S_r \leq 315$	1850	1250	2250
	500	2000	1400	2300
	630	2150	1450	2400
	800	2200	1600	2450
	1000	2350	1650	2500
	1250	2500	2000	2600
	1600	2700	2400	2750
	2000	2900	2600	2900
	2500	3100	2800	3100



DISTRIBUTION TRANSFORMER 33 KV CONSERVATOR TYPE



Distribution Transformer - 33/0.4-0.231 kV Conservator Type



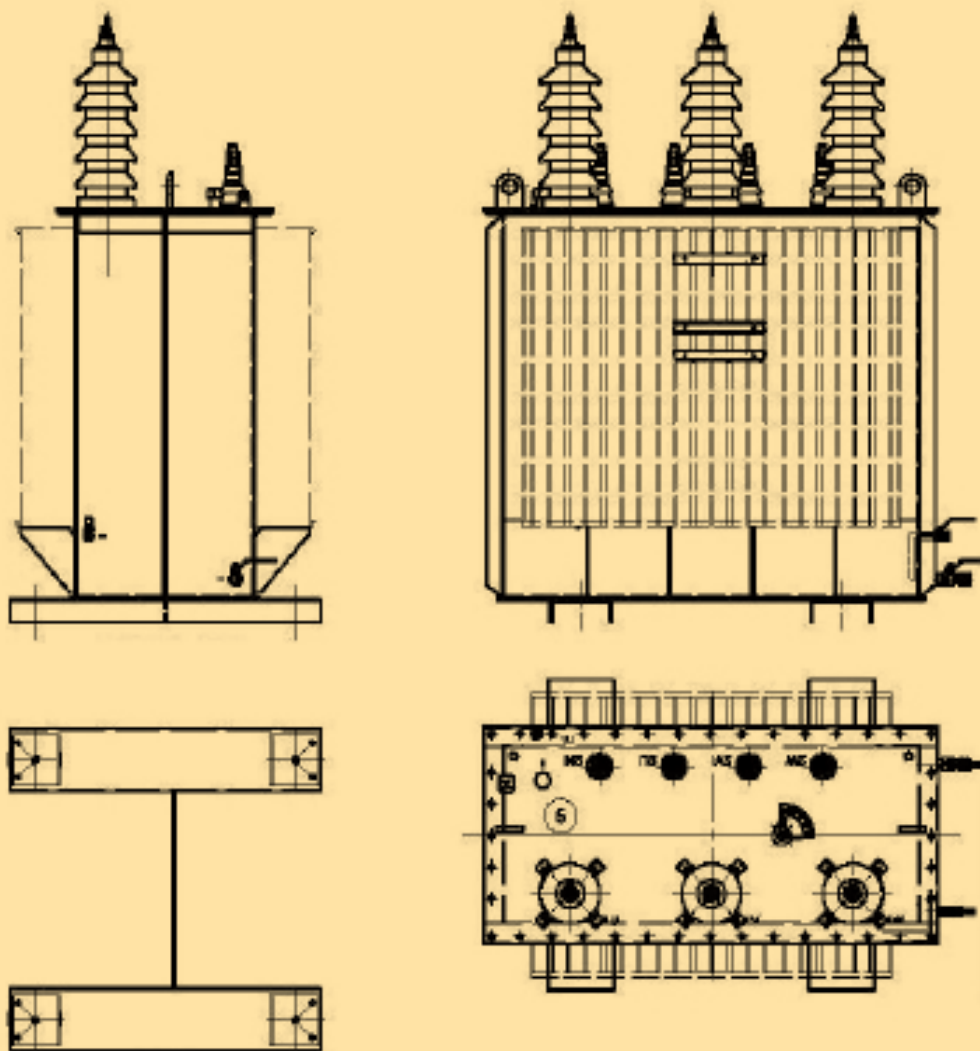
DISTRIBUTION TRANSFORMER 33 KV SEALED TYPE

250 kVA Transformer– 33/0.4-0.231 kV

Maximum dimensions for Distribution Transformers @33 kV Primary Voltage.

TRANSFORMER	RATED S_r (PowerkVA)	LENGTH	WIDTH	HEIGHT
33 kV Sealed Type (Bushings Exposed)	$S_r \leq 315$	1850	1250	2250
	500	2000	1400	2300
	630	2150	1450	2400
	800	2200	1600	2450
	1000	2350	1650	2500
	1250	2500	2000	2600
	1600	2700	2400	2750
	2000	2900	2600	2900
	2500	3100	2800	3100

DISTRIBUTION TRANSFORMER 33 KV SEALED TYPE



Distribution Transformer 33kV Sealed Type 33/0.4-0.231 kV

DISTRIBUTION TRANSFORMER 33 KV SEALED TYPE

TECHNICAL DATA SHEET

MANUFACTURER	ARTRANS																	
Type	T/D/3/3/	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500
Manufacture Standard	IEC 60076 - ANSI C.57.12.00																	
Insulation Liquid	MINERAL OIL																	
Connection Group	Dy11																	
Rated Power [KVA]	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	
Primary Voltage [KV]	13,2																	
Tapping [% Un]	+5, +2,5, 0, -2,5, -5																	
Secondary Voltage [kV]	0.400/0.231																	
Temperature Rise	As per applicable																	
Windings [°C]	65																	
Insulation Liquid [°C]	60																	
Load Losses @75 °C [W]	1500	1850	2100	2500	3000	3600	4250	5100	6450	6600	8000	9500	11500	14200	17800	22000	26000	
No Load Losses @75 °C [W]	320	370	420	500	600	720	850	1020	1250	1350	1600	1900	2300	2500	2900	3200	3600	
Core [Kg]	210	250	270	320	370	430	510	580	690	840	1030	1300	1450	1580	1760	2590	2702	
MV Windings [Kg.]	38	43	53	64	70	82	97	112	130	158	190	250	326	340	350	455	634	
LV Windings [Kg.]	25	30	34	40	47	55	65	74	86	107	132	160	206	215	230	280	332	
Core and Coils [Kg.]	273	323	357	424	487	567	672	766	906	1105	1352	1710	1982	2135	2340	3325	3668	
Tank and Accessories [Kg.]	260	280	295	310	320	330	340	360	460	580	680	800	940	950	966	1120	1316	
Insulation Liquid [Lts.]	285	320	330	340	350	380	410	450	490	510	530	670	780	980	1084	1090	1096	
Total Weight [Kg.]	818	923	982	1074	1157	1277	1422	1576	1856	2195	2562	3180	3720	4065	4390	5535	6080	
Winding Materials	Cooper																	



ARTRANS
TRANSFORMERS

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