

ASSOCIATED TRANSFORMERS PRIVATE LIMITED

Transformer Technical Data

11 KV / 433 V																	
KVA	63	100	160	200	250	315	400	500	630	750	800	1000	1250	1500	1600	2000	
NO LOAD LOSS	200	290	380	580	600	700	800	1100	1200	1300	1300	1500	1800	1900	1900	2200	
LOAD LOSS	1300	1860	2200	3300	3600	4200	5100	6400	6650	8500	8500	10800	12500	17500	19700	22000	
IMPEDECE	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.75	5	5	7.5	8	8	
REGULATION AT	upf. 2.06	1.86	1.38	1.65	1.44	1.4	1.28	1.28	1.05	1.13	1.06	1.08	1.0	1.17	1.23	1.1	
	AT 0.8 pf	4.05	3.95	3.67	3.83	3.71	3.69	3.61	3.61	3.46	3.51	3.63	3.8	3.74	5.38	5.72	5.63
NO LOAD CURRENT	LESS THAN 3% OF FULL LOAD CURRENT																
EFFICIENCY AT	upf. 97.7	97.85	98.28	98.06	98.32	98.37	98.53	98.5	98.75	98.68	98.78	98.77	98.86	98.71	98.65	98.79	
FULL LOAD	0.8 pf. 97.12	97.31	97.85	97.58	97.9	97.96	98.16	98.13	98.44	98.35	98.47	98.46	98.57	98.38	98.31	98.49	
EFFICIENCY AT	upf. 98.03	98.22	98.57	98.38	98.61	98.65	98.78	98.75	98.96	98.91	98.99	98.99	98.06	98.96	98.90	98.02	
75 % LOAD	0.8 pf. 97.54	97.77	98.21	97.98	98.26	98.31	98.49	98.45	98.72	98.64	98.74	98.74	98.83	98.70	98.65	98.78	
EFFICIENCY AT	upf. 98.36	98.49	98.76	98.59	98.80	98.83	98.86	98.92	99.09	99.06	99.14	99.16	99.21	99.16	99.91	99.23	
50% LOAD	0.8 pf. 97.95	98.11	98.45	98.24	98.50	98.55	98.70	98.65	98.86	98.83	98.93	98.95	99.02	98.95	99.89	99.03	
APPX. CORE & WINDING	240	325	410	480	620	670	830	920	1160	1330	1340	1540	1920	2080	2120	2660	
WEIGHT TANK & FITTING	190	220	285	340	400	400	520	630	700	950	950	1290	1410	2080	2080	2300	
IN KG. OIL	115	160	190	215	280	280	365	375	480	580	580	720	845	990	990	1105	
TOTAL	545	705	885	1035	1300	1350	1715	1925	2340	2860	2870	3550	4175	5150	5190	6065	
APPX. QNTY OF OIL IN LTS	135	185	220	245	320	320	420	430	550	670	670	830	970	1140	1140	1270	
OVER ALL LENGTH	810	1170	1170	1440	1620	1620	1440	1440	1540	1890	1980	1980	1980	2340	2340	2430	
DIMENSION BREADTH	810	900	900	990	1170	1170	1170	1350	1440	1440	1800	2250	2250	2520	2520	2880	
IN mm HEIGHT	1260	1440	1440	1530	1620	1620	1800	1800	1890	2250	2340	2340	2340	2880	2880	2970	

22 KV / 433 V										22-11 KV / 433V							
KVA	63	100	200	250	315	500	750	1000	1250	200	250	315	500	750	1000	1250	
NO LOAD LOSS	300	400	580	600	620	1380	1400	1700	1730	650	710	650	1450	1400	1700	1850	
LOAD LOSS	1350	1900	3400	3700	4000	6900	8300	11000	12100	3400	3700	4000	7000	8300	11000	12900	
IMPEDECE	4.85	4.5	4.5	4.5	4.5	4.5	5	5	6	4.5	4.5	4.5	4.5	5	5	6	
REGULATION AT	upf. 2.14	1.9	1.7	1.48	1.27	1.38	1.1	1.1	0.96	1.7	1.48	1.27	1.4	1.1	1.1	1.03	
	AT 0.8 pf	4.08	3.97	3.86	3.73	3.61	3.67	3.81	3.81	4.32	3.86	3.73	3.61	3.69	3.81	3.81	4.37
NO LOAD CURRENT	LESS THAN 3% OF FULL LOAD CURRENT																
EFFICIENCY AT	upf. 97.38	97.70	98.01	98.28	98.53	98.34	98.71	98.73	98.89	97.98	98.24	98.52	98.31	98.71	98.73	98.82	
FULL LOAD	0.8 pf. 96.73	97.13	97.51	97.85	98.17	97.93	98.38	98.41	98.62	97.47	97.79	98.15	97.89	98.38	98.41	98.53	
EFFICIENCY AT	upf. 97.76	98.04	98.34	98.57	98.79	98.59	98.92	95.95	99.09	98.29	98.51	98.77	98.56	98.92	98.95	99.03	
75 % LOAD	0.8 pf. 97.19	97.55	97.93	98.21	98.48	98.25	98.65	98.69	98.86	97.87	98.14	98.47	98.29	98.65	98.69	98.79	
EFFICIENCY AT	upf. 97.97	98.24	98.57	98.78	98.97	98.76	99.07	99.11	99.24	98.5	98.69	98.95	98.72	99.07	99.11	99.19	
50% LOAD	0.8 pf. 97.46	97.80	98.21	98.47	98.71	98.45	98.84	98.89	99.05	98.13	98.36	98.69	98.40	98.84	98.89	98.98	
APPX. CORE & WINDING	255	330	535	600	700	1030	1330	1600	1960	545	600	710	1030	1340	1610	1975	
WEIGHT TANK & FITTING	210	265	380	410	430	680	980	1330	1425	380	420	445	690	1000	1350	140	
IN KG. OIL	1901	210	280	292	325	475	635	770	950	280	320	350	495	645	790	965	
TOTAL	655	805	1195	1305	1455	2185	2945	3700	4335	1205	1340	1505	2215	2985	3750	4390	
APPX. QNTY OF OIL IN LTS	220	240	320	340	375	545	730	890	1090	320	370	400	570	740	910	1110	
OVER ALL LENGTH	900	1260	1530	1620	1620	1740	1890	1980	2070	1530	1620	1620	1740	1890	1980	2070	
DIMENSION BREADTH	900	900	1080	1170	1170	1350	1440	2250	2340	1080	1170	1170	1350	1440	2250	2340	
IN mm HEIGHT	1440	1530	1710	1620	1710	1890	2340	2430	2520	1710	1710	1800	1980	2340	2430	2520	