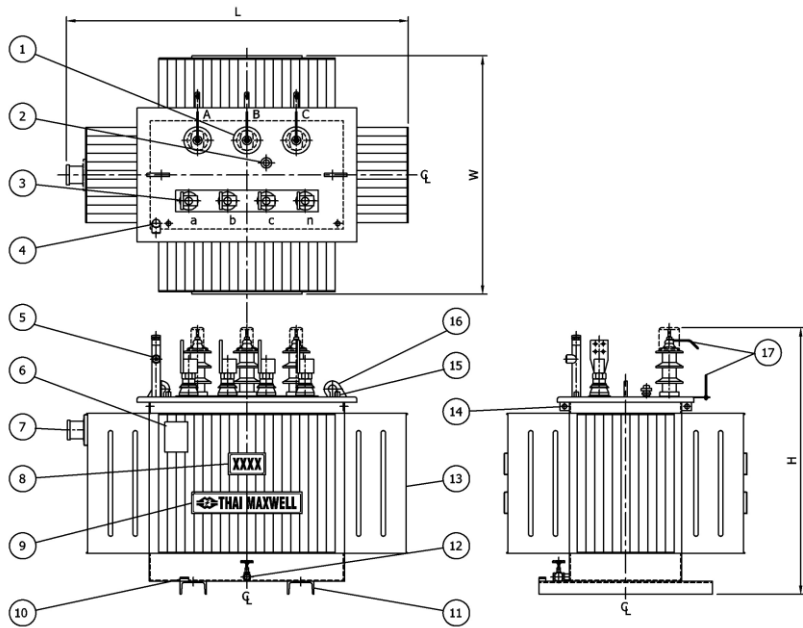


## TECHNICAL DATA OF OIL-IMMERSED HERMETICALLY SEALED THREE PHASE TRANSFORMER



NO.	DESCRIPTION
1	HV BUSHING with INSULATION CAP
2	OFF-LOAD TAP CHANGER
3	LV BUSHING
4	PRESSURE RELIEF VALVE
5	OIL LEVEL GAUGE
6	NAME PLATE
7	DIAL TYPE OIL THERMOMETER
8	CAPACITY PLATE
9	TRADE MARK with COMPANY PLATE
10	EARTH TERMINAL
11	FOUNDATION
12	OIL DRAN VALVE with PLUG
13	CORRUGATED FIN
14	LIFTING LUGS FOR TANK ONLY
15	THERMOMETER POCKET
16	LIFTING EYES
17	ARCHING HORN

**Rated primary voltage : 24kV, 22kV, 12kV, 6.6kV or below**

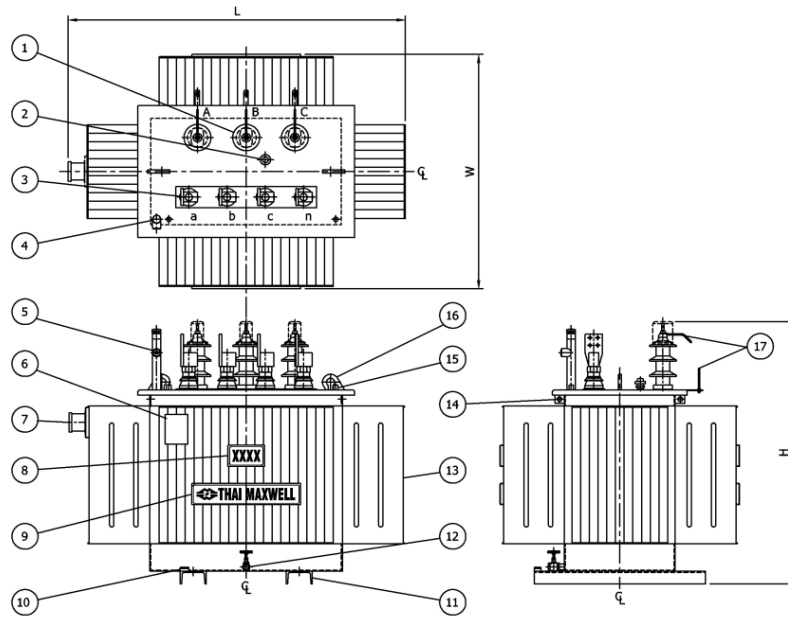
CAPACITY (kVA)	NO-LOAD LOSSES (Watt)	LOAD LOSSES AT 75 °C (Watt)	TOTAL LOSSES AT 75 °C (Watt)	IMPEDANCE AT 75 °C (%)	EFFICIENCY (P.F.=1)		VOLTAGE REGULATION AT FULL LOAD (P.F.=1) (%)	NOISE LEVEL dB (A) : 0.3 m	OUTLINE DIMENSION Approx.(mm.)			OIL QTY. (lt)	TOTAL WEIGHT Approx. (kg)
					½ Load (%)	Full Load (%)			W	L	H		
50	160	950	1110	4.0	98.43	97.83	1.96	48	710	920	890	85	335
100	250	1550	1800	4.0	98.74	98.23	1.62	51	705	1085	930	95	500
160	360	2100	2460	4.0	98.91	98.49	1.38	55	755	1270	1000	145	720
250	600	2950	3550	4.0	98.94	98.60	1.25	55	800	1030	1130	235	1090
315	800	3900	4700	4.0	98.89	98.53	1.31	56	935	1465	1040	195	1060
400	960	4600	5560	4.0	98.96	98.63	1.22	56	990	1500	1130	280	1260
500	1150	5500	6650	4.0	99.00	98.69	1.17	56	980	1565	1330	425	1680
630	1350	6500	7850	4.0	99.06	98.77	1.11	57	940	1560	1590	430	1955
750	1450	9000	10450	6.0	99.02	98.63	1.37	58	1230	1875	1670	555	2360
800	1400	10500	11900	6.0	99.00	98.53	1.48	58	1230	1840	1700	580	2350
1000	1600	12500	14100	6.0	99.06	98.61	1.42	58	1270	2100	1545	765	2900
1250	1850	14500	16350	6.0	99.13	98.71	1.33	60	1300	2150	1730	780	3270
1500	2050	18000	20050	6.0	99.13	98.68	1.37	60	1285	2110	1920	890	3825
1600	2350	19000	21350	6.0	99.12	98.68	1.36	61	1360	2200	1850	1065	4430
2000	2650	22500	25150	6.0	99.18	98.76	1.30	61	1390	2320	1920	1220	5115
2500	3000	25500	28500	7.0	99.26	98.87	1.26	62	1420	3320	2150	1250	5570
3000	3800	33000	36800	7.0	99.20	98.79	1.34	63	1450	2400	2150	1430	6600

**Note :**

1. The transformer is designed to operate under the following conditions
  - Altitude : Up to 1000 m above sea level
  - Ambient air temperature : 40 °C maximum
2. Limits of temperature rise (top oil) : not exceeding 60 °C  
 (winding) : not exceeding 65 °C
3. Insulation class : A
4. Connection symbol : Dyn 11
5. Reference standard : IEC 60076
6. Special vector group and other primary voltage available upon request

The contents and specifications of this datasheet are subject to change without prior notice. No part of this data may be reproduced without the prior approval of Thai Maxwell Electric.

## TECHNICAL DATA OF OIL-IMMERSED HERMETICALLY SEALED THREE PHASE TRANSFORMER



NO.	DESCRIPTION
1	HV BUSHING with INSULATION CAP
2	OFF-LOAD TAP CHANGER
3	LV BUSHING
4	PRESSURE RELIEF VALVE
5	OIL LEVEL GAUGE
6	NAME PLATE
7	DIAL TYPE OIL THERMOMETER
8	CAPACITY PLATE
9	TRADE MARK with COMPANY PLATE
10	EARTH TERMINAL
11	FOUNDATION
12	OIL DRAN VALVE with PLUG
13	CORRUGATED FIN
14	LIFTING LUGS FOR TANK ONLY
15	THERMOMETER POCKET
16	LIFTING EYES
17	ARCHING HORN

### Rated primary voltage : 24kV, 12/24kV

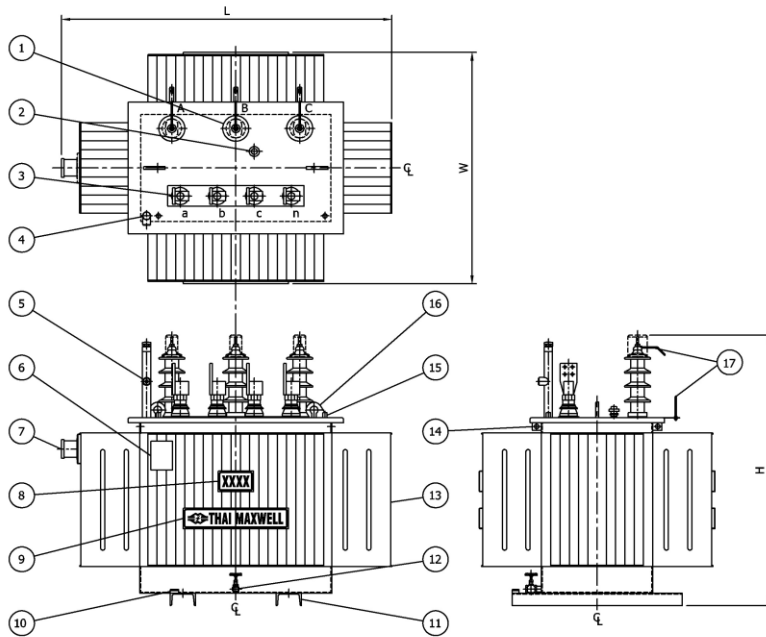
CAPACITY	NO-LOAD LOSSES	LOAD LOSSES AT 75 °C	TOTAL LOSSES AT 75 °C	IMPEDANCE AT 75 °C	EFFICIENCY (P.F.=1)		VOLTAGE REGULATION AT FULL LOAD (P.F.=1)	NOISE LEVEL dB (A) : 0.3 m	OUTLINE DIMENSION Approx.(mm.)			OIL QTY. (lt)	TOTAL WEIGHT Approx. (kg)
					½ Load (%)	Full Load (%)			W	L	H		
50	210	1050	1260	4.0	98.15	97.54	2.16	48	730	960	975	140	500
100	340	1750	2090	4.0	98.47	97.95	1.81	51	630	940	1260	175	680
160	480	2350	2830	4.0	98.68	98.26	1.54	55	630	995	1275	200	760
250	670	3250	3920	4.0	98.83	98.46	1.37	55	760	1100	1350	265	1060
315	800	3900	4700	4.0	98.89	98.53	1.31	56	750	1105	1460	320	1240
400	960	4600	5560	4.0	98.96	98.63	1.22	56	840	1480	1500	362	1500
500	1150	5500	6650	4.0	99.00	98.69	1.17	56	840	1430	1590	400	1680
630	1350	6500	7850	4.0	99.06	98.77	1.11	57	920	1520	1670	455	1980
750	1450	9000	10450	6.0	99.02	98.63	1.37	58	1250	1900	1680	600	2455
800	1400	10500	11900	6.0	99.00	98.53	1.48	58	1200	1830	1730	610	2620
1000	1600	12500	14100	6.0	99.06	98.61	1.42	58	1270	1975	1790	755	2940
1250	1850	14500	16350	6.0	99.13	98.71	1.33	60	1290	2020	1880	860	3450
1500	2050	18000	20050	6.0	99.13	98.68	1.37	60	1285	2005	1930	925	3910
2000	2650	22500	25150	6.0	99.18	98.76	1.30	61	1440	2210	1980	1170	4985

**Note :**

1. The transformer is designed to operate under the following conditions
  - Altitude : Up to 1000 m above sea level
  - Ambient air temperature : 40 °C maximum
2. Limits of temperature rise
  - (top oil) : not exceeding 60 °C
  - (winding) : not exceeding 65 °C
3. Insulation class : A
4. Connection symbol : Dyn 11 or Dyn 1
5. Reference standard : IEC 60076
6. Special vector group and other primary voltage available upon request

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## TECHNICAL DATA OF OIL-IMMERSED HERMETICALLY SEALED THREE PHASE TRANSFORMER



NO.	DESCRIPTION
1	HV BUSHING with INSULATION CAP
2	OFF-LOAD TAP CHANGER
3	LV BUSHING
4	PRESSURE RELIEF VALVE
5	OIL LEVEL GAUGE
6	NAME PLATE
7	DIAL TYPE OIL THERMOMETER
8	CAPACITY PLATE
9	TRADE MARK with COMPANY PLATE
10	EARTH TERMINAL
11	FOUNDATION
12	OIL DRAN VALVE with PLUG
13	CORRUGATED FIN
14	LIFTING LUGS FOR TANK ONLY
15	THERMOMETER POCKET
16	LIFTING EYES
17	ARCHING HORN

### Rated primary voltage : 33kV

CAPACITY (kVA)	NO-LOAD LOSSES (Watt)	LOAD LOSSES AT 75 °C (Watt)	TOTAL LOSSES AT 75 °C (Watt)	IMPEDANCE AT 75 °C (%)	EFFICIENCY (P.F.=1)		VOLTAGE REGULATION AT FULL LOAD (P.F.=1) (%)	NOISE LEVEL dB (A) : 0.3 m	OUTLINE DIMENSION Approx.(mm.)			OIL QTY. (lt)	TOTAL WEIGHT Approx. (kg)
					½ Load (%)	Full Load (%)			W	L	H		
50	170	950	1120	4.0	98.40	97.81	1.96	48	270	920	1040	108	395
100	260	1550	1810	4.0	98.72	98.22	1.62	51	770	1260	1120	155	615
160	370	2100	2470	4.0	98.89	98.48	1.38	55	700	1220	1250	210	900
250	520	2950	3470	4.0	99.00	98.63	1.25	55	770	1280	1270	250	1165
315	850	3900	4750	4.0	98.85	98.51	1.31	56	1000	1420	1275	275	1135
400	1000	4600	5600	4.0	98.94	98.62	1.22	56	1010	1490	1405	340	1475
500	1200	5500	6700	4.0	98.98	98.68	1.17	56	910	1540	1630	405	1735
630	1400	6500	7900	4.0	99.05	98.76	1.11	57	920	1550	1740	460	2030
750	1450	9000	10450	6.0	99.02	98.63	1.37	58	1080	1780	1740	545	2265
800	1450	10500	11950	6.0	98.99	98.53	1.48	58	1340	1860	1705	665	2550
1000	1650	12500	14150	6.0	99.05	98.60	1.42	58	1270	2090	1810	705	2890
1250	1900	14500	16400	6.0	99.12	98.70	1.33	60	1290	2130	1940	830	3420
1500	2100	18000	20100	6.0	99.13	98.68	1.37	60	1310	2165	2065	1040	4475
1600	2400	19000	21400	6.0	99.11	98.68	1.36	61	1330	2170	2140	1135	4700
2000	2700	22500	25200	6.0	99.17	98.76	1.30	61	1370	2280	2100	1235	5020
2500	3150	25500	28650	7.0	99.24	98.87	1.26	62	1440	2350	2140	1250	5450
3000	3900	33000	36900	7.0	99.20	98.78	1.34	63	1450	2400	2160	1440	6490

**Note :**

1. The transformer is designed to operate under the following conditions
  - Altitude : Up to 1000 m above sea level
  - Ambient air temperature : 40 °C maximum
2. Limits of temperature rise (top oil) : not exceeding 60 °C  
 (winding) : not exceeding 65 °C
3. Insulation class : A
4. Connection symbol : Dyn 11
5. Reference standard : IEC 60076
6. Special vector group and other primary voltage available upon request

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