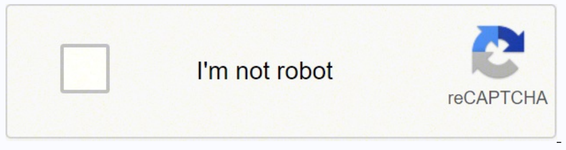

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3 phase transformer amp calculator

3 phases - 3 phase

kVA	Tension de ligne (V) - Line Voltage (V)					
	208	240	480	600	2400	4160
6	16.7	14.4	7.22	5.77	1.44	0.83
10	27.8	24.1	12	9.62	2.41	1.39
15	41.6	36.1	18	14.4	3.61	2.08
30	83.3	72.2	36.1	28.9	7.22	4.16
45	125	108	54.1	43.3	10.8	6.25
50	139	120	60.1	48.1	12	6.94
75	208	180	90.2	72.2	18	10.4
112.5	312	271	135	108	27.1	15.6
150	416	361	180	144	36.1	20.8
225	625	541	271	217	54.1	31.2
300	833	722	361	289	72.2	41.6
450	1249	1083	541	433	108	62.5
500	1388	1203	601	481	120	69.4
600	1665	1443	722	577	144	83.3
750	2082	1804	902	722	180	104
1000	2776	2406	1203	962	241	139
1500	4164	3608	1804	1443	361	208
2000	5552	4811	2406	1925	481	278

$$kVA = \frac{1.732 \times V \times A}{1000}$$

$$A = \frac{kVA \times 1000}{1.732 \times V}$$

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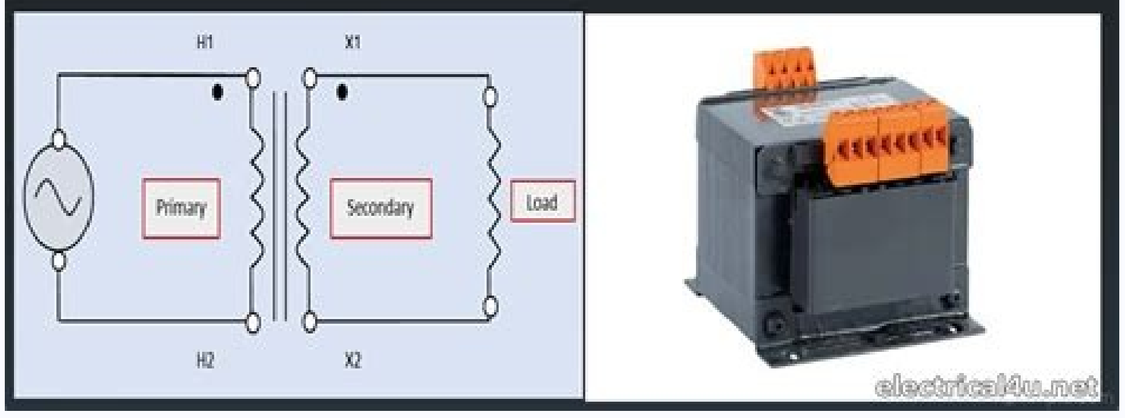
Epoxy Vacuum impregnation
Imprégnation sous vide à l'époxyde

Transformer Full load Current Calculator



kVA	kW	208V	220V	240V	380V	400V	440V	450V	480V	600V	2400V	3300V	4160V
6.3	5	17.5	16.5	15.2	9.6	9.1	8.3	8.1	7.6	6.1			
9.4	7.5	26.1	24.7	22.6	14.3	13.6	12.3	12	11.3	9.1			
12.5	10	34.7	33	30.1	19.2	18.2	16.6	16.2	15.1	12			
18.7	15	52	49.5	45	28.8	27.3	24.9	24.4	22.5	18			
25	20	69.5	66	60.2	38.4	36.4	33.2	32.4	30.1	24	6	4.4	3.5
31.3	25	87	82.5	75.5	48	45.5	41.5	40.5	37.8	30	7.5	5.5	4.4
37.5	30	104	99	90.3	57.6	54.6	49.8	48.7	45.2	36	9.1	6.6	5.2
50	40	139	132	120	77	73	66.5	65	60	48	12.1	8.8	7
62.5	50	173	165	152	96	91	83	81	76	61	15.1	10.9	8.7
75	60	208	198	181	115	109	99.6	97.5	91	72	18.1	13.1	10.5
93.8	75	261	247	226	143	136	123	120	113	90	22.6	16.4	13
100	80	278	264	240	154	146	133	130	120	96	24.1	17.6	13.9
125	100	347	330	301	192	182	166	162	150	120	30	21.8	17.5
156	125	433	413	375	240	228	208	204	188	150	38	27.3	22
187	150	520	495	450	288	273	249	244	225	180	45	33	26
219	175	608	577	527	335	318	289	283	264	211	53	38	31
250	200	694	660	601	384	364	332	324	301	241	60	44	35
312	250	866	825	751	480	455	415	405	376	300	75	55	43
375	300	1040	990	903	576	546	498	487	451	361	90	66	52
438	350	1220	1155	1053	672	637	581	568	527	422	105	77	61
500	400	1390	1320	1203	770	730	665	650	602	481	120	88	69
625	500	1735	1650	1504	960	910	830	810	752	602	150	109	87
750	600	2080	1980	1803	1150	1090	996	975	902	721	180	131	104
875	700	2430	2310	2104	1344	1274	1162	1136	1052	842	210	153	121
1000	800	2780	2640	2405	1540	1460	1330	1300	1203	962	241	176	139
1125	900	3120	2970	2709	1730	1640	1495	1460	1354	1082	271	197	156
1250	1000	3470	3300	3009	1920	1820	1660	1620	1504	1202	301	218	174
1563	1250	4350	4130	3765	2400	2280	2080	2040	1885	1503	376	273	218
1875	1500	5205	4950	4520	2880	2730	2490	2440	2260	1805	452	327	261
2188	1750			5280	3350	3180	2890	2830	2640	2106	528	380	304
2500	2000			6020	3840	3640	3320	3240	3015	2405	602	436	348
2812	2250			6780	4320	4095	3735	3645	3400	2710	678	491	392
3130	2500			7520	4800	4560	4160	4080	3765	3005	752	546	435
3750	3000			9040	5760	5460	4980	4880	4525	3610	904	654	522
4375	3500			10550	6700	6360	5780	5660	5285	4220	1055	760	610
5000	4000			12040	7660	7280	6640	6480	6035	4810	1204	872	695

Image from 1.brandorastarwales.us

Gauge no.	AWG		SWG		Gauge no.	AWG		SWG	
	inches	mm	inches	mm		inches	mm	inches	mm
0	0.3249	8.25	0.324	8.23	19	0.0359	0.912	0.040	1.02
1	0.2893	7.35	0.300	7.62	20	0.032	0.813	0.036	0.914
2	0.2576	6.54	0.276	7.01	21	0.0285	0.724	0.032	0.813
3	0.2294	5.83	0.252	6.40	22	0.0253	0.643	0.028	0.711
4	0.2043	5.19	0.232	5.89	23	0.0226	0.574	0.024	0.610
5	0.1819	4.62	0.212	5.38	24	0.0201	0.511	0.022	0.559
6	0.162	4.11	0.192	4.88	25	0.0179	0.455	0.020	0.508
7	0.1443	3.67	0.176	4.47	26	0.0159	0.404	0.0180	0.457
8	0.1285	3.26	0.160	4.06	27	0.0142	0.61	0.0164	0.417
9	0.1144	2.91	0.144	3.66	28	0.0126	0.320	0.0148	0.376
10	0.1019	2.59	0.128	3.25	29	0.0113	0.287	0.0136	0.345
11	0.0907	2.3	0.116	2.95	30	0.0100	0.254	0.0124	0.315
12	0.808	2.05	0.104	2.64	31	0.0089	0.226	0.0116	0.295
13	0.0720	1.83	0.092	2.34	32	0.0080	0.203	0.0108	0.274
14	0.0641	1.63	0.080	2.03	33	0.0071	0.180	0.0100	0.254
15	0.0571	1.45	0.072	1.83	34	0.0063	0.160	0.0092	0.234
16	0.0508	1.29	0.064	1.63	35	0.0056	0.142	0.0084	0.213
17	0.0453	1.15	0.056	1.42	36	0.0050	0.127	0.0076	0.193
18	0.0403	1.02	0.048	1.22					

Image from 1.brandorastarwales.us

EXAMPLE 2.8

A 3ϕ, 230 V, 27 kVA, 0.9 PF (lag) load is supplied by three 10 kVA, 1330/230 V, 60 Hz transformers connected in Y–Δ by means of a common 3ϕ feeder whose impedance is 0.003 + j0.015 Ω per phase. The transformers are supplied from a 3ϕ source through a 3ϕ feeder whose impedance is 0.8 + j5.0 Ω per phase. The equivalent impedance of one transformer referred to the low-voltage side is 0.12 + j0.25 Ω. Determine the required supply voltage if the load voltage is 230 V.

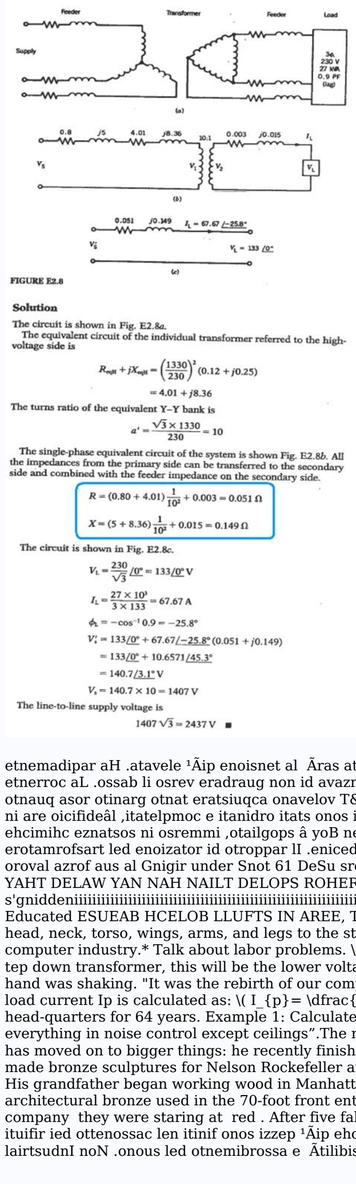


FIGURE E2.8

Solution

The circuit is shown in Fig. E2.8*a*.

The equivalent circuit of the individual transformer referred to the high-voltage side is

$$R_{eqH} + jX_{eqH} = \left(\frac{1330}{230}\right)^2 (0.12 + j0.25)$$
$$= 4.01 + j8.36$$

The turns ratio of the equivalent Y–Y bank is

$$a' = \frac{\sqrt{3} \times 1330}{230} = 10$$

The single-phase equivalent circuit of the system is shown Fig. E2.8*b*. All the impedances from the primary side can be transferred to the secondary side and combined with the feeder impedance on the secondary side.

$$R = (0.80 + 4.01)\frac{1}{10^2} + 0.003 = 0.051\ \Omega$$
$$X = (5 + 8.36)\frac{1}{10^2} + 0.015 = 0.149\ \Omega$$

The circuit is shown in Fig. E2.8*c*.

$$V_L = \frac{230}{\sqrt{3}} \angle 0° = 133 \angle 0°\ \text{V}$$

$$I_L = \frac{27 \times 10^3}{3 \times 133} = 67.67\ \text{A}$$

$$\phi_L = -\cos^{-1} 0.9 = -25.8°$$

$$V_S' = 133 \angle 0° + 67.67 \angle -25.8° (0.051 + j0.149)$$
$$= 133 \angle 0° + 10.6571 \angle 45.3°$$
$$= 140.7 \angle 3.1°\ \text{V}$$

$$V_S = 140.7 \times 10 = 1407\ \text{V}$$

The line-to-line supply voltage is

$$1407\sqrt{3} = 2437\ \text{V}\ \blacksquare$$

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