

## CAIDA DE TENSION

TIPO DE INSTALACION : CANALIZACIONES

LIMITE DE CAIDA DE TENSION: 3.5 %

No. DE FASES: 1

CAIDA DE VOLTAJE=  $(\sqrt{3} \times (R \cos \phi + X \sin \phi) \times I) / (\text{No de conductores por fase} \times 1000) \times \text{Longitud de la Linea}$

$$R \cos \phi + X \sin \phi = (I_9 \times K_6) + (I_8 \times K_7) = 0.3616$$

TENSION: 7690

MATERIAL: 2/0

COS(φ): 0.8

sen(φ): 0.6

REACTANCIA : 0.144

RESISTENCIA: 0.344

TENSION: 220 V

MATERIAL: 2 THHN

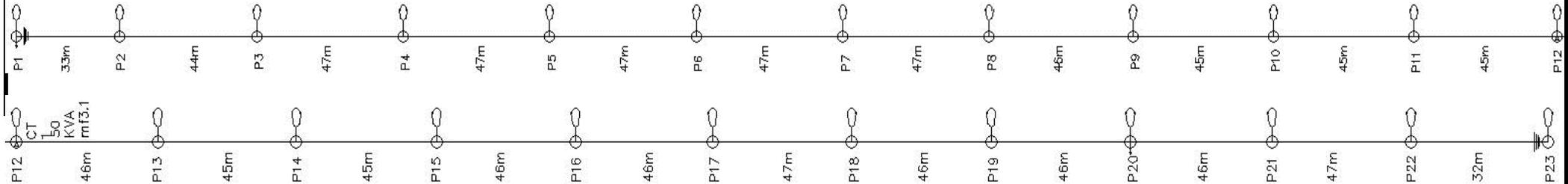
COS(φ): 0.8

sen(φ): 0.6

REACTANCIA : 0.148

RESISTENCIA: 0.656

### ESQUEMA:



ESQUEMA			LINEA				COMPUTO			
TRAMO	CENT TRAM	CARGA	CARGA	AMPERAJE	CONDUCTOR		AV (%)			
DESINA.	LON(K-M)	No.	TOT. KVA	TOT. KW		CAIDA DE VOLTAJE	VOLTAJE FINAL	PARCIAL	TOTAL	
P1-P2	0.033	2/0	31.752	28.35	161.0795455	1.92213	218.07787	0.008737	0.8737	
P2-P3	0.044	2/0	31.584	28.2	160.2272727	2.54928	217.45072	0.011588	1.1588	
P3-P4	0.047	2/0	31.416	28.05	159.375	2.70861	217.29139	0.012312	1.2312	
P4-P5	0.047	2/0	31.248	27.9	158.5227273	2.694125455	217.30587	0.012246	1.2246	
P5-P6	0.047	2/0	31.08	27.75	157.6704545	2.679640909	217.32036	0.012180	1.2180	
P6-P7	0.047	2/0	30.912	27.6	156.8181818	2.665156364	217.33484	0.012114	1.2114	
P7-P8	0.047	2/0	30.744	27.45	155.9659091	2.650671818	217.34933	0.012049	1.2049	
P8-P9	0.046	2/0	30.576	27.3	155.1136364	2.580098182	217.41990	0.011728	1.1728	
P9-P10	0.045	2/0	30.408	27.15	154.2613636	2.510140909	217.48986	0.011410	1.1410	
P10-P11	0.045	2/0	30.408	27.15	154.2613636	2.510140909	217.48986	0.011410	1.1410	
P11-P12	0.045	2/0	30.576	27.3	155.1136364	2.524009091	217.47599	0.011473	1.1473	
P12-P13	0.046	2/0	30.744	27.45	155.9659091	2.594274545	217.40573	0.011792	1.1792	
P13-P14	0.045	2/0	30.912	27.6	156.8181818	2.551745455	217.44825	0.011599	1.1599	
P14-P15	0.045	2/0	31.08	27.75	157.6704545	2.565613636	217.43439	0.011662	1.1662	
P15-P16	0.046	2/0	31.248	27.9	158.5227273	2.636803636	217.36320	0.011985	1.1985	
P16-P17	0.046	2/0	31.416	28.05	159.375	2.65098	217.34902	0.012050	1.2050	
P17-P18	0.047	2/0	31.584	28.2	160.2272727	2.723094545	217.27691	0.012378	1.2378	

P18-P19	0.046	2/0	31.752	28.35	161.0795455	2.679332727	217.32067	0.012179	1.2179	<b>1.2179</b>
P19-P20	0.046	2/0	31.92	28.5	161.9318182	2.693509091	217.30649	0.012243	1.2243	<b>1.2243</b>
P20-P21	0.046	2/0	32.088	28.65	162.7840909	2.707685455	217.29231	0.012308	1.2308	<b>1.2308</b>
P21-P22	0.047	2/0	32.256	28.8	163.6363636	2.781032727	217.21897	0.012641	1.2641	<b>1.2641</b>
P22-P23	0.032	2/0	32.424	28.95	164.4886364	1.903330909	218.09667	0.008652	0.8652	<b>0.8652</b>
		TR1				0				
	0.629									



P37-P38	0.040									
P38-P39	0.040									
P39-P40	0.040									
P40-P41	0.040									
P41-P42	0.040									
P42-P43	0.040									
P43-P44	0.040									
P44-P45	0.040									
P45-P46	0.039									
P										
	0.931	TR1				0				







P86-P87	0.038									
P87-P88	0.038									
P88-P89	0.039									
P89-P90	0.039									
P90-P91	0.039									
P91-P92	0.039									
		TR1				0				
	0.521									









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No. DE FASES: 1

CAIDA DE VOLTAJE=  $(\sqrt{3} \times (R \cos \Phi + X \sin \Phi) \times I) / (\text{No de conductores por fase} \times 1000) \times \text{Longitud de la Linea}$

$$R \cos \Phi + X \sin \Phi = (19 \times K6) + (18 \times K7) = 0.3616$$

TENSION: 7690

MATERIAL: 1/0,2/0

cos(ϕ): 0.8

sen(ϕ): 0.6

REACTANCIA : 0.144

RESISTENCIA: 0.344

TENSION: 220 V

MATERIAL: 2 THHN

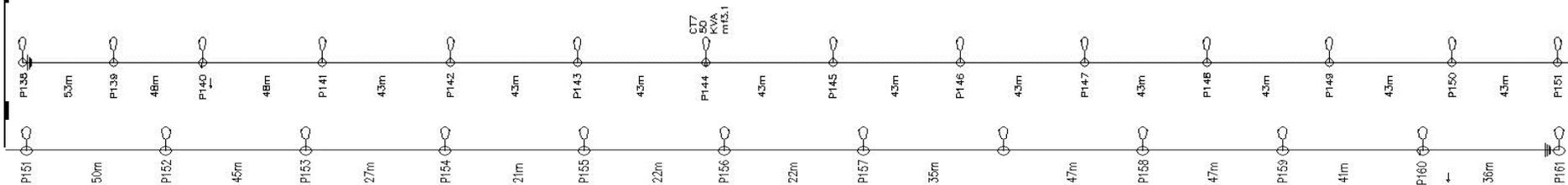
cos(ϕ): 0.8

sen(ϕ): 0.6

REACTANCIA : 0.148

RESISTENCIA: 0.656

### ESQUEMA:



ESQUEMA			CARGA		LINEA			COMPUTO		
TRAMO		CENT TRAN	CARGA	CARGA	AMPERAJE	CONDUCTOR			AV (%)	
DESINA.	LON(K-M)	No.	TOT. KVA	TOT. KW	CAIDA DE VOLTAJE		VOLTAJE FINAL		PARCIAL	TOTAL
P138-P139	0.053	2	24.64	22	72.16878365	2.3956	217.60440		0.010889	1.0889
P139-P140	0.048	1/0	24.64	22	72.16878365	2.1696	217.83040		0.009862	0.9862
P140-P141	0.048									
P141-P142	0.043									
P142-P143	0.043									
P143-P144	0.043									
P144-P145	0.043									
P145-P146	0.043									
P146-P147	0.043									
P147-P148	0.043									
P148-P149	0.043									
P149-P150	0.043									
P150-P151	0.043									
P151-P152	0.050									
P152-P153	0.045									
P153-P154	0.027									





