

1 QUADRO DE CARGAS E DEMANDA SEM ESCALA

2 DIAGRAMA UNIFILAR SEM ESCALA

Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Condicionador de ar tipo janela (Não residencial)	30.34	100.00	30.34
Iluminação e TUG's (Escritórios e salas comerciais)	12.00	100.00	12.00
Q03	26.42	80.00	21.14
Uso Específico	1.00	100.00	1.00
TOTAL	69.76	100.00	56.55

Circuito	Descrição	Esquema	Método de inst.	Tensão (V)	Pot. total (VA)	Pot. total (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FP	FCT	FCA	In' (A)	Ip (A)	Seção (mm²)	Ic (A)	Diss (A)	dV parc (%)	dV total (%)	Status
Q05	3F+N+T	B1	220/127 V	19145	17596	R+S+T	6228	5500	5868	0.92	1.00	1.00	44.4	44.4	10	50.0	50	3.18	3.22	OK	
Q06	3F+N+T	B1	220/127 V	13867	12780	R+S+T	3945	4260	4575	0.92	1.00	1.00	45.7	45.7	10	50.0	50	3.25	3.29	OK	
Q02	3F+N+T	B1	220/127 V	20271	18922	R+S+T	6382	6180	6360	0.93	1.00	1.00	45.1	45.1	16	68.0	63	1.59	1.63	OK	
Q03	3F+N+T	B1	220/127 V	16478	15130	R+S+T	5120	4940	5070	0.92	1.00	1.00	51.2	51.2	16	68.0	63	1.81	1.85	OK	
TOTAL				69760	64428	R+S+T	21675	20880	21873												

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Q04	3F+N+T	B1	220/127 V	10802	10042	R+S+T	3282	3300	3480	0.93	1.00	1.00	30.3	30.3	10	50.0	32	0.84	2.47	OK		
8	ILUMINAÇÃO	F+N+T	B1	127 V	1136	1080	S				0.95	1.00	0.65	9.8	9.8	2.5	24.0	10	0.39	2.02	OK	
9	TUGS 1	F+N+T	B1	127 V	1333	1200	S				1.00	0.90	1.00	0.65	16.2	10.5	4	32.0	16	1.26	2.89	OK
10	TUG IMPRESSORA	F+N+T	B1	127 V	1111	1000	T				1.00	0.90	1.00	0.65	13.5	8.7	2.5	24.0	10	1.70	3.33	OK
11	TUGS 2	F+N+T	B1	127 V	1222	1100	R	1100				0.90	1.00	0.65	14.8	9.6	2.5	24.0	10	1.47	3.10	OK
12	TUGS 3	F+N+T	B1	127 V	667	600	S				0.90	1.00	1.00	5.2	5.2	2.5	24.0	10	0.70	2.33	OK	
15	TUGS 6	F+N+T	B1	127 V	1000	900	T				0.90	1.00	0.80	9.8	7.9	2.5	24.0	10	0.69	2.32	OK	
16	Reserva	F+N+T	B1	127 V	1000	1000	T															
17	Reserva	F+N+T	B1	127 V	1000	1000	R	1000														
18	Reserva	F+N+T	B1	127 V	1000	1000	R	1000														
TOTAL					20271	18922	R+S+T	6382	6180	6360												

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19	AR CONDICIONADO 1	F+F+T	B1	220 V	1811	1630	S+T			815	815	0.90	1.00	0.54	15.2	8.2	4	32.0	10	0.39	2.24	OK
20	AR CONDICIONADO 2	F+F+T	B1	220 V	2211	1990	R+S	995		995	995	0.90	1.00	0.54	16.6	10.1	4	32.0	10	0.44	2.20	OK
21	AR CONDICIONADO 3	F+F+T	B1	220 V	1811	1630	R+T	815		815	815	0.90	1.00	0.54	15.2	8.2	4	32.0	10	0.36	2.20	OK
22	AR CONDICIONADO 4	F+F+T	B1	220 V	1811	1630	S+T			815	815	0.90	1.00	0.54	15.2	8.2	4	32.0	10	0.39	2.24	OK
23	AR CONDICIONADO 5	F+F+T	B1	220 V	2211	1990	R+T	995		995	995	0.90	1.00	0.54	16.6	10.1	4	32.0	10	0.60	2.45	OK
24	AR CONDICIONADO 6	F+F+T	B1	220 V	1811	1630	R+T	815		815	815	0.90	1.00	0.54	15.2	8.2	4	32.0	10	0.28	2.13	OK
25	AR CONDICIONADO 7	F+F+T	B1	220 V	1811	1630	S+T			815	815	0.90	1.00	0.54	15.2	8.2	4	32.0	10	0.36	2.21	OK
26	AR CONDICIONADO 8	F+F+T	B1	220 V	0	0	R+S					1.00	1.00	0.0	0.0				0.00	1.85	OK	
27	AR CONDICIONADO 9	F+F+T	B1	220 V	0	0	R+S					1.00	1.00	0.0	0.0				0.00	1.85	OK	
28	Reserva	F+F+T	B1	220 V	1000	1000	R+S	500		500												
29	Reserva	F+F+T	B1	220 V	1000	1000	R+S	500		500												
30	Reserva	F+F+T	B1	220 V	1000	1000	R+S	500		500												
TOTAL					16478	15130	R+S+T	5120	4940	5070												

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31	ILUMINAÇÃO 1	F+N+T	B1	127 V	602	560	T				0.90	0.93	1.00	0.80	3.6	4.7	2.5	24.0	10	0.47	2.94	OK
32	ILUMINAÇÃO 2	F+N+T	B1	127 V	311	282	R	282				0.91	1.00	0.65	3.8	2.5	2.5	24.0	10	0.34	2.81	OK
33	TUGS 1	F+N+T	B1	127 V	889	800	R	800				0.90	1.00	0.80	7.7	7.0	2.5	24.0	10	0.46	2.94	OK
34	TUGS WC	F+N+T	B1	127 V	778	700	R	700				0.90	1.00	0.80	7.7	8.1	2.5	24.0	10	0.47	2.95	OK
39	TUGS WC 1	F+N+T	B1	127 V	1333	1200	T				1.00	1.00	1.00	0.65	16.2	10.5	4	32.0	16	0.84	3.11	OK
40	TUGS WC 2	F+N+T	B1	127 V	1333	1200	S				1.00	1.00	1.00	0.65	16.2	10.5	4	32.0	16	0.76	3.23	OK
41	TUGS COPA 1	F+N+T	B1	127 V	1333	1200	T				1.00	1.00	1.00	0.65	16.2	10.5	4	32.0	16	1.17	3.64	OK
42	TUGS 2 COPA E DML	F+N+T	B1	127 V	1222	1100	S				1.00	1.00	1.00	0.65	14.8	9.6	2.5	24.0	10	1.72	4.19	OK
43	Reserva	F+F+T	B1	220 V	1000	1000	R+S	500		500												
44	Reserva	F+F+T	B1	220 V	1000	1000	R+S	500		500												
45	Reserva	F+F+T	B1	220 V	1000	1000	R+S	500		500												
TOTAL					16478	15130	R+S+T	5120	4940	5070												

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46	ILUMINAÇÃO 1	F+N+T	B1	127 V	871	828	R	828				0.95	1.00	0.70	9.7	6.9	2.5	24.0	10	0.21	3.42	OK
47	ILUMINAÇÃO 2	F+N+T	B1	127 V	496	468	T				0.90	1.00	0.80	4.9	3.9	2.5	24.0	10	0.43	3.64	OK	
48	TUGS 1	F+N+T	B1	127 V	1333	1200	T				1.00	0.90	1.00	0.70	7.5	10.5	2.5	24.0	16	0.80	4.02	OK
49	TUG IMPRESSORA	F+N+T	B1	127 V	1111	1000	T				1.00	0.90	1.00	0.70	12.5	8.7	2.5	24.0	10	1.02	4.23	OK
50	TUG IMPRESSORA	F+N+T	B1	127 V	1111	1000	T				1.00	0.90	1.00	0.70	12.5	8.7	2.5	24.0	10	1.11	4.32	OK
51	TUGS 2	F+N+T	B1	127 V	2222	2000	S				2000	0.90	1.00	0.70	25.0	17.5	4	32.0	20	1.09	4.30	OK
52	TUG IMPRESSORA	F+N+T	B1	127 V	1111	1000	S				1000	0.90	1.00	0.70	12.5	8.7	2.5	24.0	10	1.17	4.39	OK
53	TUG IMPRESSORA	F+N+T	B1	127 V	1111	1000	T				1.00	1.00	1.00	0.70	12.5	8.7	2.5	24.0	10	1.02	4.24	OK
54	TUGS 3	F+N+T	B1	127 V	1333	1200	T				1.00	0.90	1.00	0.80	13.1	10.5	2.5	24.0	16	1.41	4.62	OK
55	TUG IMPRESSORA	F+N+T	B1	127 V	1111	1000	S				1.00	0.90	1.00	0.80	10.9	8.7	2.5	24.0	10	1.30	4.52	OK
56	TUGS 4	F+N+T	B1	127 V	1000	900	T				1.00	0.90	1.00	0.80	9.8	7.9	2.5	24.0	10	0.92	4.14	OK
57	TUG IMPRESSORA	F+N+T	B1	127 V	1111	1000	R	1000				0.90	1.00	0.80	10.9	8.7	2.5	24.0	10	1.17	4.39	OK
58	TUG IMPRESSORA	F+N+T	B1	127 V	1111	1000	R	1000				0.90	1.00	0.80	10.9	8.7	2.5	24.0	10	1.66	4.88	OK
59	TUGS 4	F+N+T	B1	127 V	1111	1000	R	1000				0.90	1.00	0.80	10.							