

Quadro de Demanda (QGBT)			
Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Uso específico	0.62	100	0.62
Motores	1.59	100	1.59
Iluminação e TUG's (Escolas e semelhantes)	12.00	86	10.32
	12.57	50	6.29
Condicionador de Ar tipo janela (não residencial)	73.98	82	60.66
Chuveiros, ferros elétricos, aquecedores de água (não residencial)	10.80	92	9.94
		TOTAL	89.42

Quadro de Cargas (QGBT)																
Circuito	Esquema	V (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
QD1	3F+N+T	220 / 127 V	33632	28732	R+S+T	9233	9633	9865	1.00	78.8	25	117.0	80.0	2.83	2.83	Ok
QD2	3F+N+T	220 / 127 V	43377	39370	R+S+T	12550	13200	13620	1.00	124.0	35	144.0	125.0	2.33	2.33	Ok
QD3	3F+N+T	220 / 127 V	34558	31302	R+S+T	10400	9928	10974	1.00	105.1	35	144.0	125.0	3.33	3.33	Ok
TOTAL			111567	99404	R+S+T	32183	32761	34459								

Quadro de Cargas (QD1)																
Circuito	Esquema	V (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
1	F+N	127 V	920	920	T			920	0.65	7.2	2.5	24.0	10.0	1.06	3.89	Ok
2	F+N	127 V	552	552	T			552	0.70	3.1	2.5	24.0	10.0	0.65	3.49	Ok
3	F+N+T	127 V	1111	1000	T			1000	0.65	6.2	2.5	24.0	16.0	0.70	3.53	Ok
4	F+N	127 V	360	360	T			360	0.70	4.0	2.5	24.0	10.0	2.87	4.70	Ok
5	F+N+T	127 V	556	500	T			500	0.70	3.7	2.5	24.0	10.0	0.36	3.19	Ok
6	F+N+T	127 V	889	800	T			800	0.65	5.0	2.5	24.0	16.0	0.63	3.47	Ok
9	3F	220 V	7536	5500	R+S+T	1833	1833	1833	1.00	0.0	4	28.0	25.0		2.83	Ok
10	F+F+T	220 V	2889	2600	S+T		1300	1300	0.70	18.8	4	32.0	25.0	1.02	3.85	Ok
11	F+F+T	220 V	2889	2600	S+T		1300	1300	0.70	18.8	4	32.0	25.0	0.79	3.62	Ok
12	F+F+T	220 V	2889	2600	S+T		1300	1300	0.65	20.2	4	32.0	25.0	0.63	3.46	Ok
13	F+F+T	220 V	2889	2600	R+S	1300	1300		0.65	20.2	4	32.0	25.0	0.86	3.70	Ok
14	F+F+T	220 V	2889	2600	R+S	1300	1300		0.65	20.2	4	32.0	25.0	1.11	3.94	Ok
15	F+F+T	220 V	2889	2600	R+S	1300	1300		0.65	20.2	4	32.0	25.0	1.34	4.18	Ok
16	F+N+T	127 V	625	500	R	500			0.70	7.0	2.5	24.0	16.0	2.33	4.16	Ok
17	F+N+T	127 V	1250	1000	R	1000			0.65	15.1	2.5	24.0	16.0	2.59	4.42	Ok
18	F+N+T	127 V	1250	1000	R	1000			0.65	14.1	2.5	24.0	16.0	2.44	4.28	Ok
19	F+N+T	127 V	1250	1000	R	1000			0.65	15.1	2.5	24.0	16.0	3.17	4.00	Ok
TOTAL			33632	28732	R+S+T	9233	9633	9865								

Quadro de Cargas (QD2)																
Circuito	Esquema	V (V)	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
1	F+N	127 V	828	828	T			828	0.70	8.1	2.5	24.0	10.0	1.57	3.90	Ok
2	F+N	127 V	414	414	T			414	0.70	4.7	2.5	24.0	10.0	1.16	3.49	Ok
3	F+N	127 V	678	678	T			678	0.70	7.6	2.5	24.0	10.0	0.87	3.20	Ok
4	F+N+T	127 V	444	400	T			400	0.80	4.4	2.5	24.0	16.0	0.84	3.17	Ok
5	F+N+T	127 V	889	800	T			800	0.70	5.0	2.5	24.0	16.0	0.80	3.13	Ok
6	F+N+T	127 V	1194	1000	T			1000	0.70	13.4	2.5	24.0	16.0	0.71	3.04	Ok
7	F+N+T	127 V	1333	1200	T			1200	0.70	15.0	2.5	24.0	16.0	1.35	3.68	Ok
8	F+N+T	127 V	972	800	T			800	0.70	10.9	2.5	24.0	16.0	1.32	3.65	Ok
9	F+N+T	127 V	1361	1100	T			1100	0.70	15.3	2.5	24.0	16.0	2.51	4.84	Ok
10	F+N+T	127 V	1333	1200	T			1200	0.70	7.5	2.5	24.0	10.0		2.33	Ok
11	F+F+T	220 V	2889	2600	S+T		1300	1300	0.65	20.2	4	32.0	25.0	1.48	3.81	Ok
12	F+F+T	220 V	2889	2600	S+T		1300	1300	0.65	20.2	4	32.0	25.0	1.25	3.68	Ok
13	F+F+T	220 V	2889	2600	R+T	1300		1300	0.65	20.2	4	32.0	25.0	1.01	3.33	Ok
14	F+F+T	220 V	2889	2600	S+T		1300	1300	0.65	20.2	4	32.0	25.0	0.77	3.10	Ok
15	F+F+T	220 V	2889	2600	R+S	1300	1300		0.65	20.2	4	32.0	25.0	0.64	2.97	Ok
16	F+F+T	220 V	2889	2600	R+S	1300	1300		0.65	20.2	4	32.0	25.0	0.90	3.23	Ok
17	F+F+T	220 V	2889	2600	R+S	1300	1300		0.65	20.2	4	32.0	25.0	1.07	3.40	Ok
18	F+N+T	127 V	1316	1200	R	1200			0.70	9.8	2.5	24.0	16.0	2.06	4.39	Ok
19	F+N+T	127 V	1591	750	R	750			0.65	19.3	2.5	24.0	16.0	2.51	4.84	Ok
20	F+F+T	220 V	5400	5400	R+S	2700	2700		0.80	30.7	4	32.0	32.0	0.69	3.02	Ok
21	F+F+T	220 V	5400	5400	R+S	2700	2700		0.80	30.7	4	32.0	32.0	0.71	3.04	Ok
TOTAL			43377	39370	R+S+T	12550	13200	13620								

Quadro de Cargas (QD3)																
Circuito	Esquema	V	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
1	F+N	127 V	828	828	S		828		0.70	6.2	2.5	24.0	10.0	0.71	4.05	Ok
2	F+N	127 V	552	552	T			552	0.70	6.2	2.5	24.0	10.0	1.49	4.82	Ok
3	F+N	127 V	622	622	T			622	1.00	4.9	2.5	24.0	10.0	2.91	4.25	Ok
4	F+N+T	127 V	1111	1000	T			1000	0.70	6.6	2.5	24.0	16.0	0.81	4.14	Ok
5	F+N+T	127 V	889	800	T			800	0.70	10.0	2.5	24.0	16.0	1.78	4.12	Ok
6	F+N+T	127 V	1111	1000	T			1000	0.70	8.7	2.5	24.0	16.0	1.29	4.63	Ok
7	F+N+T	127 V	556	500	T			500	0.70	3.7	2.5	24.0	10.0	0.53	3.87	Ok
8	F+F+T	220 V	2889	2600	R+T	1300		1300	0.50	26.3	4	32.0	25.0	1.97	4.30	Ok
9	F+F+T	220 V	2889	2600	S+T		1300	1300	0.50	26.3	4	32.0	25.0	1.73	4.07	Ok
10	F+F+T	220 V	2889	2600	R+T	1300		1300	0.50	26.3	4	32.0	25.0	1.49	4.82	Ok
11	F+F+T	220 V	2889	2600	S+T		1300	1300	0.50	26.3	4	32.0	25.0	1.25	4.59	Ok
12	F+F+T	220 V	2889	2600	R+T	1300		1300	0.50	26.3	4	32.0	25.0	1.01	4.34	Ok
13	F+F+T	220 V	2889	2600	R+S	1300	1300		0.50	26.3	4	32.0	25.0	0.78	4.11	Ok
14	F+F+T	220 V	2889	2600	R+S	1300	1300		0.50	26.3	4	32.0	25.0	0.53	3.87	Ok
15	F+F+T	220 V	2889	2600	R+S	1300	1300		0.50	26.3	4	32.0	25.0	0.55	3.88	Ok
16	F+F+T	220 V	2889	2600	R+S	1300	1300		0.50	26.3	4	32.0	25.0	0.79	4.12	Ok
17	F+F+T	220 V	2889	2600	R+S	1300	1300		0.50	26.3	4	32.0	25.0	1.02	4.36	Ok
TOTAL			34558	31302	R+S+T	10400	9928	10974								



PREFEITURA MUNICIPAL DE VÁRZEA GRANDE

Av. Castelo Branco, Espaço Municipal, 2500 - Centro Sul, Várzea Grande/MT

CEP 78125-700 - Fone/Fax: 65 3688 8000

PROJETO:

ELÉTRICO - 127/220

LOCALIZAÇÃO:

Rua Valter Fontana, S/Nº, Bairro Alameda

OBRA:

REFORMA EMEB APOLÔNIO FRUTUOSO

ASSUNTO:

Projeto - Elétrico

UNIDADE:

METRO

AUTOR DO PROJETO:

PEDRO HENRIQUE FRANÇA ROCHA
ENGENHEIRO CIVIL
CREA-MT 046214

ESCALA:

SEM ESCALA

DATA:

JAN/2021

FOLHA Nº

03/03