

PANELBOARD: L1A-A

LOCATION: ELECTRICAL ROOM 112
SUPPLY FROM: TR1A-A
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208Y/120V,3P,5W,60Hz
MAINS TYPE / LOCATION: MCB/TOP
MCB FRAME / TRIP SIZE: 225 AF/225 AT

INTERRUPTING RATING (KA SYMMETRICAL): 10 KA
MINIMUM BUS RATING: 225 A
NEUTRAL BUS RATING: 200%

CKT NO.	NOTES	DESCRIPTIONS	CIRCUIT SIZE	TRIP AMPS	POLES	PHASE A (VOLT-AMPS)	PHASE B (VOLT-AMPS)	PHASE C (VOLT-AMPS)	POLES	TRIP AMPS	CIRCUIT SIZE	DESCRIPTIONS	NOTES	CKT NO.		
1		HOT WATER PUMP (HWCP-1)	20 A	1		338 VA	720 VA		1	20 A		RCPT - CONF. RM FL BOX		2		
3		RCPT - COFFEE BREWER	20 A	1			500 VA	600 VA		1	20 A	RCPT - OFFICE/CONF. TV		4		
5		RCPT - OFFICE TV	20 A	1				600 VA	1000 VA	1	20 A	RCPT - VENDING MACHINE		6		
7		AHU-1 (RCPT/LTG)	20 A	1		960 VA	1512 VA		1	20 A		EUH-1.2		8		
9		RCPT - MICROWAVE	20 A	1			1200 VA	1200 VA	1	20 A		RCPT - MICROWAVE		10		
11		EXHAUST FAN (EF-1)	20 A	1				1820 VA	600 VA	2	20 A	FURNITURE FEED - OPEN OFFICE	1	12		
13	1	FURNITURE FEED - OPEN OFFICE	--	--	2	600 VA	600 VA		--	2	20 A	--	1	14		
15	1		--	--	--	--	600 VA	600 VA	--	2	20 A	--	1	16		
17	1	FURNITURE FEED - OPEN OFFICE	--	--	20 A	2				--	--	--	1	18		
19	1		--	--	--	600 VA	600 VA			2	20 A	--	1	20		
21	1	FURNITURE FEED - OFFICE	--	--	20 A	2		600 VA	600 VA			--	1	22		
23	1		--	--	--	--	--	600 VA	600 VA	2	20 A	--	1	24		
25	1	FURNITURE FEED - OFFICE	--	--	20 A	2		300 VA	600 VA	--	--	--	1	26		
27	1		--	--	--	--	300 VA	180 VA		1	20 A	RCPT - MEN RR		28		
29		RCPT - WOMENS RR	20 A	1				180 VA	540 VA	1	20 A	RCPT - OFFICE		30		
31		RCPT - JANITORIAL	20 A	1		180 VA	540 VA			1	20 A	RCPT - EXTERIOR S		32		
33		RCPT - GENERAL (OFFICE)	20 A	1			540 VA	720 VA		1	20 A	RCPT - ELEC RM		34		
35		RCPT - OPEN OFFICE	20 A	1				900 VA	750 VA	1	20 A	RCPT - WATER DISPENSER		36		
37		RCPT - ELEC RM	20 A	1		720 VA	750 VA			1	20 A	RCPT - PRINTER		38		
39		RCPT - PRINTER	20 A	1			750 VA	900 VA		1	20 A	RCPT - OPEN OFFICE		40		
41		RCPT - OPEN OFFICE TV	20 A	1				900 VA	900 VA	1	20 A	RCPT - FRIDGE	2	42		
43		RCPT - GENERAL (HALLWAY)	20 A	1		1080 VA	540 VA			1	20 A	RCPT - BREAK RM		44		
45		RCPT - EXTERIOR W	20 A	1			900 VA	1080 VA		1	20 A	RCPT - CONF. RM		46		
47		RCPT - OFFICE	20 A	1				1080 VA	0 VA	1	20 A	--	SPARE	48		
49		RCPT - BREAK RM	20 A	1		1080 VA	0 VA			1	20 A	--	SPARE	50		
51		SPARE	--	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	52		
53		SPARE	--	--	20 A	1				1	20 A	--	SPARE	54		
55		SPARE	--	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	56		
57		SPARE	--	--	20 A	1		0 VA	0 VA	1	20 A	--	SPARE	58		
59		SPARE	--	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	60
61		SPACE	--	--	1		--	--		1	--	--	SPACE	62		
63		SPACE	--	--	1		--	--		1	--	--	SPACE	64		
65		SPACE	--	--	1			--	--	1	--	--	SPACE	66		
67		SPACE	--	--	1	--	0 VA			3	30 A	--	SPD	68		
69		SPACE	--	--	1			--	0 VA	--	--	--	SPACE	70		
71		SPACE	--	--	1			--	0 VA	--	--	--	SPACE	72		

TOTAL CONNECTED LOAD / PHASE

11636 VA

11139 VA

11617 VA

TOTAL CONNECTED AMPS/PHASE

98 A

93 A

97 A

LOAD CLASSIFICATIONS	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	LOAD (KVA)	CURRENT (AMPS)
Facility - HVAC	3432 VA	85.00%	2917 VA	34.4 KVA	95.5 A
Receptacle	39025 VA	66.33%	25812 VA	23.5 KVA	66.2 A
Facility - Motor	338 VA	75.00%	253 VA	253 VA	
				ESTIMATED DEMAND FACTOR: 68.27%	

PANELBOARD: L1A-C

LOCATION: ELECTRICAL ROOM 131
SUPPLY FROM: TR1A-C
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208Y/120V,3P,4W,60Hz
MAINS TYPE / LOCATION: MCB/TOP
MCB FRAME / TRIP SIZE: 225 AF/225 AT

INTERRUPTING RATING (KA SYMMETRICAL): 10 KA
MINIMUM BUS RATING: 225 A
NEUTRAL BUS RATING: 100%

CKT NO.	NOTES	DESCRIPTIONS	CIRCUIT SIZE	TRIP AMPS	POLES	PHASE A (VOLT-AMPS)	PHASE B (VOLT-AMPS)	PHASE C (VOLT-AMPS)	POLES	TRIP AMPS	CIRCUIT SIZE	DESCRIPTIONS	NOTES	CKT NO.
1		X-RAY SYSTEM	4#1,1#10G,1-1/4"	60 A	3	5038 VA	3598 VA		3	50 A	4#6,1#10G,1"	HEAT TRACE PANEL		2
3		--	--	--	--		5038 VA	3598 VA		--	--			4
5		--	--	--	--			5038 VA	3598 VA		--			6
7		RCPT - PUMP SKID		20 A	1	180 VA	540 VA		1	20 A		RCPT - GENERAL (CARBON LINER)		8
9		RCPT - EXTERIOR N		20 A	1		360 VA	1080 VA		1	20 A	RCPT - EXTERIOR NE		10
11		RCPT - GENERAL (CARBON LINER)		20 A	1			360 VA	680 VA	1	20 A	RCPT - RECEIVING DESK		12
13		AHU-3 (RCPT/LTG)	2#10,1#10G,3/4"	20 A	1	960 VA	2080 VA		2	30 A		SSCU-6		14
15		RCPT - ENERGETIC (WORK BENCH)		20 A	1		600 VA	2080 VA		--	--			16
17		RCPT - EXTERIOR E		20 A	1			720 VA	900 VA	1	20 A	RCPT - ELEC RM		18
19		RCPT - ENERGETIC (WORK BENCH)		20 A	1	600 VA	600 VA		1	20 A		RCPT - ENERGETIC (WORK BENCH)		20
21		RCPT - ENERGETIC (WORK BENCH)		20 A	1		600 VA	720 VA		1	20 A	RCPT - GENERAL (ENERGETIC)		22
23		RCPT - CASE CURE/ANGEL WAY		20 A	1			1080 VA	600 VA	1	20 A	RCPT - ENERGETIC (WORK BENCH)		24
25		RCPT - GENERAL (ENERGETIC)		20 A	1	720 VA	720 VA		1	20 A		RCPT - GENERAL (CAST BAY)		26
27		RCPT - GENERAL (CAST BAY)		20 A	1		720 VA	540 VA		1	20 A	RCPT - GENERAL (ENERGETIC)		28
29		RCPT - ENERGETIC (WORK BENCH)		20 A	1			600 VA	720 VA	1	20 A	RCPT - GENERAL (ENERGETIC)		30
31		RCPT - EXTERIOR N		20 A	1	900 VA	960 VA		1	20 A	2#10,1#10G,3/4"	AHU-4 (RCPT/LTG)		32
33		AHU-5 (RCPT/LTG)	2#10,1#10G,3/4"	20 A	1		960 VA	1440 VA		1	20 A	RCPT - BATCH TEST/WASTE		34
35		RCPT - GENERAL (ENERGETIC)		20 A	1			720 VA	900 VA	1	20 A	RCPT - GENERAL (RECEIVING)		36
37		PNEUMATIC DOCK LEVELER		20 A	1	1440 VA	1080 VA		1	20 A		RCPT - EXTERIOR NE		38
39		SPACE		--	--	--	--	--	--	--	--	SPACE		40
41		AHU-6 (RCPT/LTG)	2#10,1#10G,3/4"	20 A	1			960 VA	1440 VA	1	20 A	RCPT/LTG - CHILLER-1,2,3		42
43		RCPT - DEDICATED (ENERGETIC)		20 A	1	180 VA	--		1	--	--	SPACE		44
45		RCPT - DEDICATED (ENERGETIC)		20 A	1		180 VA	--	--	--	--	SPACE		46
47		SPACE	--	--	1			--	--	--	--	SPACE		48
49		SPACE	--	--	1		--	--	--	--	--	SPACE		50
51		SPACE	--	--	1		--	--	--	--	--	SPACE		52
53		SPACE	--	--	1		--	--	--	--	--	SPACE		54
55		SPACE	--	--	1	--	0 VA	--	3	30 A	--	SPD		56
57		SPACE	--	--	1			--	--	--	--	SPACE		58
59		SPACE	--	--	1			--	0 VA	--	--	SPACE		60

TOTAL CONNECTED LOAD / PHASE

19483 VA

17804 VA

18204 VA

TOTAL CONNECTED AMPS/PHASE

163 A

148 A

152 A

LOAD CLASSIFICATIONS	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	LOAD (KVA)	CURRENT (AMPS)
Facility - HVAC	14955 VA	85.00%	12712 VA		
Receptacle	24011 VA	70.82%	17006 VA	55.5 KVA	154.0 A
Process - Equipment	15113 VA	85.00%	12845 VA	43.6 KVA	121.1 A
Facility - Motor	1440 VA	75.00%	1080 VA	1080 VA	
				ESTIMATED DEMAND FACTOR: 78.61%	

PANELBOARD: L1C-B

LOCATION: ELECTRICAL ROOM 120
SUPPLY FROM: TR1C-B
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208Y/120V,3P,4W,60Hz
MAINS TYPE / LOCATION: MCB/TOP
MCB FRAME / TRIP SIZE: 150 AF/150 AT

INTERRUPTING RATING (KA SYMMETRICAL): 10 KA
MINIMUM BUS RATING: 150 A
NEUTRAL BUS RATING: 100%

CKT NO.	NOTES	DESCRIPTIONS	CIRCUIT SIZE	TRIP AMPS	POLES	PHASE A (VOLT-AMPS)	PHASE B (VOLT-AMPS)	PHASE C (VOLT-AMPS)	POLES	TRIP AMPS	CIRCUIT SIZE	DESCRIPTIONS	NOTES	CKT NO.
1		LTG - INERT	2#10,1#10G,3/4"	30 A	2	1548 VA	1712 VA		2	30 A	2#10,1#10G,3/4"	LTG - INERT/UTILITY		2
3			--	--	--	--	1548 VA	1712 VA		--	--	--		4
5		SPARE	--	30 A	2	0 VA	2119 VA	0 VA	2119 VA	2	30 A	2#10,1#10G,3/4"	LTG - INERT	6
7			--	--	--	--	--	--	--	--	--	--		8
9		LTG - INERT	2#10,1#10G,3/4"	30 A	2	0 VA	2119 VA	0 VA	2	30 A	2#10,1#10G,3/4"	SPARE		10
11			--	--	--	--	--	2119 VA	0 VA	--	--	--		12
13		SPARE	--	30 A	2	0 VA	0 VA		2	30 A	--	SPARE		14
15			--	--	--	--	0 VA	0 VA		--	--	--		16
17		SPARE	--	30 A	2			0 VA	0 VA	2	30 A	SPARE		18
19			--	--	--	0 VA	0 VA		--	--	--	--		20
21		SPARE	--	20 A	1		0 VA	0 VA		1	20 A	SPARE		22
23		LTG - ELEC/IDF	--	20 A	1			177 VA	0 VA	1	20 A	SPARE		24
25		SPARE	--	20 A	1	0 VA	0 VA			1	20 A	SPARE		26
27		SPARE	--	20 A	1		0 VA	0 VA		1	20 A	SPARE		28
29		LIGHTING RELAY PANEL	--	20 A	1			250 VA	0 VA	1	20 A	SPARE		30
31		SPACE	--	1		--	--		1	--	--	SPACE		32
33		SPACE	--	1		--	--		1	--	--	SPACE		34
35		SPACE	--	1		--	--	--	1	--	--	SPACE		36
37		SPACE	--	1	--	0 VA			3	30 A	--	SPD		38
39		SPACE	--	1			--	0 VA		--	--	SPACE		40
41		SPACE	--	1				--	0 VA	--	--	--		42

TOTAL CONNECTED LOAD / PHASE

5379 VA

5379 VA

4665 VA

TOTAL CONNECTED AMPS/PHASE

46 A

46 A

39 A

LOAD CLASSIFICATIONS	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	LOAD (KVA)	CURRENT (AMPS)
Lighting	15173 VA	90.00%	13655 VA		
Facility - Equipment	250 VA	90.00%	225 VA	15.4 KVA	42.8 A
				ESTIMATED DEMAND LOAD: 13.9 KVA	38.5 A
				ESTIMATED DEMAND FACTOR: 90.00%	

PANELBOARD NOTES: ALL WIRING 2#12,1#12G,3/4" UON.

PANELBOARD: L1A-B

LOCATION: ELECTRICAL ROOM 120
SUPPLY FROM: TR1A-B
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208Y/120V,3P,4W,60Hz
MAINS TYPE / LOCATION: MCB/TOP
MCB FRAME / TRIP SIZE: 150 AF/150 AT