BT 161A 09/29/2003 01:00:57 PM

G1 ID FAN 1A1

Voltage

	Fund RMS	Tot RMS	C.F	THD
Voltage 1-2	6635.91	6652.90	1.51	4.17
Voltage 2-3	6644.08	6661.21	1.50	4.23
Voltage 1-3	6643.35	6665.85	1.53	4.15
Average	6642.95	6659.99		
% Imbalance	0.11	0.11	HVF	0.01
%NEMA Derating	100.00	%NEMA	Derating	100.00

Voltage 1	3834.66	3844.44	1.54	4.14
Voltage 2	3831.90	3841.76	1.54	4.21
Voltage 3	3839.37	3849.24	1.56	4.20
Average	3835.31	3845.14		
% Imbalance	0.11	0.11		

Power

	kW	kVar	kVA	Pf
Phase 1	537.62	598.10	804.21	0.70
Phase 2	504.97	598.12	782.78	0.68
Phase 3	536.24	593.38	799.78	0.70
Total	1578.83	1789.60	2386.78	0.69
Power Sequence	1578.83	1642.00	2277.91	0.69

Efficiency

Efficiency	184.21
HP Output	3901.01
kW Output	2908.44

Current

Current 1	200.31	209.19	1.68	27.26
Current 2	194.84	203.76	1.72	27.60
Current 3	198.85	207.78	1.66	27.38
Average	198.00	206.91		
% Imbalance	1.59	1.52		
% FLA	40.41	42.23		

Sequence

	Positive	Negative	Zero
Volt Phase-Phase	6642.95	7.56	0.00
Volt Phase-Neutral	3835.31	4.36	0.00
Current	197.98	3.20	1.05

	Self	Angle	Mutual	Angle
Zero	19.37	46.14	19.37	286.14
Positive	0.32	224.64	0.33	338.59
Negative	0.22	340.47	0.22	340.44

Phase Configuration	Phase to Phase
Phase Rotation	Clockwise

Impedance

	Real	Magnitude	Angle
Phase 1	13.40	19.14	45.58
Phase 2	13.30	19.67	47.44
Phase 3	13.56	19.31	45.38
% Imbalance	1.05		

IP7_025723

BT 161B 09/29/2003 12:59:38 PM

01 ID FAN 1A2

Voltage

	Fund RMS	Tot RMS	C.F.	THD
Voltage 1-2	6630.30	6643.46	1 50	4.16
Voltage 2-3	6639.88	6653.12	1 52	4.21
Voltage 1-3	6646.23	6663.52	1 53	4.13
Average	6638.46	6656.70		
% Imbalance	0.12	0 12	HVF	0.01
%NEMA Derating	100.00	%NEMA	Derating	100.00

Voltage 1	3831 92	3842 43	1 53	4 12
Voltage 2	3828 81	3839.31	1.53	4 20
Voltage 3	3837.42	3848.00	1.56	4 17
Average	3832 72	3843.25		
% Imbalance	0.12	0.12		

Power

	kW	kVar	kVA	Pf
Phase 1	549 33	576.83	796 55	0 72
Phase 2	515 03	574 36	771 46	0.70
Phase 3	547.60	572 62	792.31	0 72
Total	1611.96	1723.81	2360.32	0 72
Power Sequence	1611.96	1573.18	2252.40	0 72

Efficiency

Efficiency	184 21
HP Output	3982.86
kW Output	2969.46

Current

Current 1	198 63	207 30	2.01	26.64
Current 2	192.21	200.94	1.52	27.35
Current 3	196 90	205 90	1 47	27.24
Average	195 91	204.71		
% Imbalance	1.89	1.85		
% FLA	39 98	41.78		

Sequence

	Positive	Negative	Zero
Volt Phase-Phase	6638.46	8 73	0 00
Volt Phase-Neutral	3832 72	5 04	0 00
Current	195 89	3.39	1 07

	Self	Angle	Mutual	Angle
Zero	19 56	44 33	19 56	284.33
Positive	0.34	218 34	0.36	332 06
Negative	0.22	331 54	0 22	331.51

Phase Configuration	Phase to Phase
Phase Rotation	Clockwise

Impedance

	Real	Magnitude	Angle
Phase 1	13.92	19.29	43 80
Phase 2	13.94	19.92	45.59
Phase 3	14.12	19.49	43 55
% Imbalance	0.92		

IP7_025724

U1 10 FAN 1B1

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Voltage

	Fund RMS	Tot RMS	C.F	THD
Voltage 1-2	6625.31	6643.24	1 51	4 13
Voltage 2-3	6633.36	6651.39	1 52	4 19
Voltage 1-3	6645.78	6666.71	1 54	4 13
Average	6635.81	6653.78		
% Imbalance	0.20	0 19	HVF	0.01
%NEMA Derating	100.00	%NEMA	Derating	100.00

Voltage 1	3832.62	3842 95	1.54	4 11
Voltage 2	3823 70	3834 09	1 53	4 17
Voltage 3	3837.25	3847 65	1 54	4 17
Average	3831 19	3841.56		
% Imbalance	0 20	0.19		

Power

	kW	kVar	kVA	Pf
Phase 1	608.85	614 97	865 38	0 74
Phase 2	580 15	608.68	840.87	0.72
Phase 3	611.68	616 57	868 51	0.74
Total	1800.68	1840.23	2574.77	0.73
Power Sequence	1800.68	1671 10	2456.63	0 73

Efficiency

Efficiency	184.21
HP Output	4449.15
kW Output	3317.10

Current

Current 1	215.61	225.19	1.72	26.31
Current 2	209.82	219.31	1 66	27.53
Current 3	215.81	225.73	1 80	27.15
Average	213 75	223.41		
% Imbalance	1 84	1.83		
% FLA	43 62	45.59		

Sequence

	Positive	Negative	Zero
Volt Phase-Phase	6635 81	13.78	0 00
Volt Phase-Neutral	3831.19	7.95	0.00
Current	213 74	2 73	0.97

	Self	Angle	Mutual	Angle
Zero	17.93	42.88	17 93	282 88
Positive	0.21	201.62	0 27	315 01
Negative	0 18	326.43	0 19	326.42

Phase Configuration	Phase to Phase
Phase Rotation	Clockwise

Impedance

	Real	Magnitude	Angle
Phase 1	13 10	17.78	42 54
Phase 2	13 18	18.22	43.69
Phase 3	13.13	17.78	42.38
% Imbalance	0.32		

IP7_025725

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U1 ID FAN 1B2

Voltage

	Fund RMS	Tot RMS	C.F.	THD
Voltage 1-2	6641.70	6659.33	1.50	3.85
Voltage 2-3	6634.03	6651.54	1 53	3 89
Voltage 1-3	6659.99	6677.46	1.51	3.89
Average	6645.24	6662.33		
% Imbalance	0 22	0.22	HVF	0 01
%NEMA Derating	100.00	%NEMA	Derating	100 00

Voltage 1	3843.10	3853.19	1 52	3.86
Voltage 2	3828.11	3838.39	1.52	3 87
Voltage 3	3838.68	3848.87	1.54	3 90
Average	3836 63	3846.81		
% Imbalance	0.22	0.22		

Power

	kW	kVar	kVA	Pf
Phase 1	611 77	605.54	860 78	0.74
Phase 2	591 15	593.89	837 95	0.74
Phase 3	612 57	608 86	863.69	0 74
Total	1815.50	1808.29	2562 42	0 74
Power Sequence	1815.50	1642 86	2448 47	0 74

Efficiency

Efficiency	184 21
HP Output	4485.76
kW Output	3344 40

Current

Current 1	214 17	223 39	1.45	26.69
Current 2	208.93	218.31	1 46	27.32
Current 3	215.07	224 40	1 44	26.73
Average	212 72	222.03		
% Imbalance	1 78	1 68		
% FLA	43.41	45 31		

Sequence

	Positive	Negative	Zero
Volt Phase-Phase	6645.23	15.40	0 00
Volt Phase-Neutral	3836 63	8.89	0 00
Current	212 72	2.03	0.86

	Self	Angle	Mutual	Angle
Zero	18.04	42.15	18 04	282 15
Positive	0 13	164 07	0 19	299 59
Negative	0.16	303.48	0 16	303.61

Phase Configuration	Phase to Phase
Phase Rotation	Clockwise

Imperdance

	Real	Magnitude	Angle
Phase 1	13.34	17.94	41 99
Phase 2	13 54	18 32	42.34
Phase 3	13 24	17.85	42 10
% Imbalance	1 25		

IP7_025726

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U1 FD FAN 1A

Voltage

	Fund RMS	Tot RMS	C.F.	THD
Voltage 1-2	6644 84	6662.40	1 53	*4.03*
Voltage 2-3	6631 86	6649 54	1 54	*4 10*
Voltage 1-3	6657 91	6675 75	1.52	*4.11*
Average	6644.87	6662.56		
% Imbalance	0.20	0 20	HVF	0.01
%NEMA Derating	100.00	%NEMA	Derating	100 00

Voltage 1	3843 93	3854.14	1.54	*4 06*
Voltage 2	3828 88	3839 01	1 53	*4.05*
Voltage 3	3836 44	3846 74	1 54	*4.13*
Average	3836.42	3846 63		
% Imbalance	0.20	0 20		

Current

Current 1	198 79	199.42	*2.35*	4 29
Current 2	197 86	198 54	1.52	4 05
Current 3	199 26	199 95	*2.46*	4.25
Average	198 64	199.30		
% Imbalance	0.39	0.38		
% FLA	72 23	72.47		

Impedance

	Real	Magnitude	Angle
Phase 1	9 64	19.34	60.09
Phase 2	9 21	19.35	61 56
Phase 3	9.06	19.25	61.94
% Imbalance	3.62		

Power

	kW	kVar	kVA	Pf
Phase 1	381 02	667.51	768 60	0 50
Phase 2	360 76	671 40	762.18	0 48
Phase 3	359 60	679 91	769 14	0 47
Total	1101 37	2018.81	2299 92	0.48
Power Sequence	1101 37	2003.15	2285 96	0 48

Efficiency

Efficiency	73 39
HP Output	1084.18
kW Output	808.32

Sequence

	Positive	Negative	Zero
Volt Phase-Phase	6644 86	15 04	0.00
Volt Phase-Neutral	3836 41	8 68	0.00
Current	198 62	1.41	1.12

	Self	Angle	Mutual	Angle
Zero	19 31	61 20	19.31	301.20
Positive	0 16	347.70	0 16	80 83
Negative	0.22	324 35	0 22	324.33

Phase Configuration	Phase to Phase
Phase Rotation	Clockwise

IP7_025727

BT199 HIGH 09/29/2003 12:52:25 PM

U1 PA FAN 2A

Voltage

	Fund RMS	Tot RMS	C.F	THD
Voltage 1-2	6637.11	6655 90	1.53	3.93
Voltage 2-3	6648 16	6666.71	1 52	3.89
Voltage 1-3	6659 55	6678.21	1.51	3 89
Average	6648 28	6666.94		
% Imbalance	0.17	0.17	HVF	0.01
%NEMA Derating	100 00	%NEMA	Derating	100.00

Voltage 1	3838.46	3849 30	1.53	3 91
Voltage 2	3831 87	3842 65	1.54	3.92
Voltage 3	3844 82	3855 53	1 53	3.88
Average	3838.38	3849.16		
% Imbalance	0.17	0.17		

Power

	kW	kVar	kVA	Pf
Phase 1	1061.14	585.14	1211 78	0.88
Phase 2	1048.20	576.91	1196.47	0 88
Phase 3	1076 65	594.09	1229.68	0 88
Total	3185 98	1756.14	3637 92	0.88
Power Sequence	3185.98	1724 94	3622.97	0.88

Efficiency

Efficiency	68.39
HP Output	2922.44
kW Output	2178.85

Current

Current 1	314.40	314.80	1 44	2.12
Current 2	310.94	311 37	1 47	2.08
Current 3	318 52	318.94	1.44	2 10
Average	314 62	315.04		
% Imbalance	1.24	1 24		
% FLA	71 50	71.60		

Sequence

	Positive	Negative	Zero
Volt Phase-Phase	6648.27	12.96	0.00
Volt Phase-Neutral	3838.38	7 48	0 00
Current	314.62	2.54	0.59

	Self	Angle	Mutual	Angle
Zero	12 20	28.43	12 20	268.43
Positive	0 07	112.15	0.11	245.05
Negative	0.07	298.01	0 07	297 77

Phase Configuration	Phase to Phase
Phase Rotation	Clockwise

Impedance

	Real	Magnitude	Angle
Phase 1	10 73	12.21	28.44
Phase 2	10.84	12 32	28.39
Phase 3	10.61	12 07	28.46
% Imbalance	1 09		

IP7_025728

SUS1A11 09/29/2003 12:49:07 PM

01 SUS1A11

Voltage

	Fund RMS	Tot RMS	C.F.	THD
Voltage 1-2	6658.40	6676.79	1.49	4.07
Voltage 2-3	6652.80	6671.53	1.49	4.14
Voltage 1-3	6657.34	6675.71	1.55	4.08
Average	6656.18	6674.68		
% Imbalance	0.05	0.05	HVF	0.01
%NEMA Derating	100.00	%NEMA	Derating	100.00

Voltage 1	3844.90	3855.44	1.53	4.05
Voltage 2	3842.27	3853.03	1.52	4.11
Voltage 3	3841.67	3852.41	1.54	4.12
Average	3842.95	3853.63		
% Imbalance	0.05	0.05		

Power

	kW	kVar	kVA	Pf
Phase 1	432.55	253.06	501.13	0.87
Phase 2	417.49	254.61	489.00	0.86
Phase 3	425.94	255.51	496.70	0.86
Total	1275.97	763.17	1486.83	0.86
Power Sequence	1275.97	750.26	1480.21	0.86

Efficiency

Efficiency	117.58
HP Output	2012.31
kW Output	1500.30

Current

Current 1	129.78	129.98	1.48	1.81
Current 2	126.68	126.91	1.53	1.84
Current 3	128.72	128.93	1.51	1.75
Average	128.39	128.61		
% Imbalance	1.33	1.32		
% FLA	26.75	26.79		

Sequence

	Positive	Negative	Zero
Volt Phase-Phase	6656.18	3.43	0.00
Volt Phase-Neutral	3842.95	1.98	0.00
Current	128.39	0.99	0.99

	Self	Angle	Mutual	Angle
Zero	29.93	30.46	29.93	270.46
Positive	0.22	211.58	0.24	335.63
Negative	0.30	282.62	0.30	282.64

Phase Configuration	Phase to Phase
Phase Rotation	Clockwise

Impedance

	Real	Magnitude	Angle
Phase 1	25.68	29.63	29.91
Phase 2	26.01	30.33	30.94
Phase 3	25.71	29.85	30.53
% Imbalance	0.82		

IP7_025729

U1 CONDENSATE PUMP 1C

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Voltage

	Fund RMS	Tot RMS	C.F.	THD
Voltage 1-2	6661 19	6680 13	1 51	*4.12*
Voltage 2-3	6646 61	6665.74	1 53	*4 13*
Voltage 1-3	6672.29	6691 34	1.54	*4 15*
Average	6660 03	6679.07		
% Imbalance	0.20	0 20	HVF	0 01
%NEMA Derating	100.00	%NEMA	Derating	100.00

Voltage 1	3852.91	3863 85	1 51	*4 14*
Voltage 2	3838.09	3849 08	1.52	*4.12*
Voltage 3	3844 51	3855.56	1.55	*4.14*
Average	3845.17	3856 16		
% Imbalance	0.20	0.20		

Power

	kW	kVar	kVA	Pf
Phase 1	405 14	206.10	454 55	0.89
Phase 2	395.29	204.24	444.94	0.89
Phase 3	406 12	212 35	458.29	0 89
Total	1206 55	622.69	1357 77	0.89
Power Sequence	1206.55	610.35	1352.14	0.89

Efficiency

Efficiency	97.30
HP Output	1574.64
kW Output	1173.99

Current

Current 1	117.49	117.64	1 45	2.42
Current 2	115 45	115 60	1 47	2 22
Current 3	118 71	118.86	1.46	2.43
Average	117 22	117 37		
% Imbalance	1.51	1 51		
% FLA	88.80	88 91		

Sequence

	Positive	Negative	Zero
Volt Phase-Phase	6660 02	14 87	0.00
Volt Phase-Neutral	3845.17	8 58	0 00
Current	117.22	0.66	1.06

	Self	Angle	Mutual	Angle
Zero	32.81	26 83	32.81	266 83
Positive	0.16	102.87	0 17	268 74
Negative	0 35	288 04	0 35	288 09

Phase Configuration	Phase to Phase
Phase Rotation	Clockwise

Impedance

	Real	Magnitude	Angle
Phase 1	29 35	32.79	26.50
Phase 2	29.66	33.25	26.86
Phase 3	28 82	32.39	27.14
% Imbalance	1.56		

IP7_025730

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U1 CIRC WATER PUMP 1A

Voltage

	Fund RMS	Tot RMS	C.F.	THD
Voltage 1-2	6551 77	6572.01	1.55	4.19
Voltage 2-3	6550 32	6570 43	1 56	4.13
Voltage 1-3	6576.08	6596 12	1 55	4 18
Average	6559 39	6579.52		
% Imbalance	0 25	0.25	HVF	0.01
%NEMA Derating	100.00	%NEMA	Derating	100.00

Voltage 1	3792.31	3803.94	1 55	4 20
Voltage 2	3777.42	3789 09	1.55	4 16
Voltage 3	3791 47	3803.03	1.56	4.14
Average	3787.06	3798.69		
% Imbalance	0.25	0 25		

Current

Current 1	178.15	178 32	1 45	1.51
Current 2	182.86	183.05	1.46	1 50
Current 3	182 37	182.55	1 48	1.44
Average	181.13	181 31		
% Imbalance	1.64	1.65		
% FLA	101.19	101.29		

Impedance

	Real	Magnitude	Angle
Phase 1	16.98	21 29	37 07
Phase 2	16.27	20.66	38 02
Phase 3	16 26	20 79	38.56
% Imbalance	2 91		

Power

	kW	kVar	kVA	Pf
Phase 1	539 05	411 74	678 31	0.80
Phase 2	544 15	430.09	693 60	0.79
Phase 3	540 69	435.48	694 26	0 78
Total	1623 90	1277.31	2066 16	0.79
Power Sequence	1623.90	1263 76	2057 70	0 79

Efficiency

Efficiency	84.05
HP Output	1830 75
kW Output	1364.94

Sequence

	Positive	Negative	Zero
Volt Phase-Phase	6559.38	16.72	0 00
Volt Phase-Neutral	3787.06	9.65	0 00
Current	181.12	2.23	0 81

	Self	Angle	Mutual	Angle
Zero	20 91	37 88	20 91	277.88
Positive	0 31	0.30	0.22	115.88
Negative	0.17	357.41	0.17	357 55

Phase Configuration	Phase to Phase
Phase Rotation	Clockwise

IP7_025731

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U1 FLY ASH COMP 1A

Voltage

	Fund RMS	Tot RMS	C.F.	THD
Voltage 1-2	6653 54	6672.74	1 52	4.10
Voltage 2-3	6660.01	6679 43	1.54	4.12
Voltage 1-3	6662.74	6681 85	1.52	4.01
Average	6658 76	6678 00		
% Imbalance	0.08	0.08	HVF	0 01
%NEMA Derating	100.00	%NEMA	Derating	100.00

Voltage 1	3843.72	3854 73	1 54	4.03
Voltage 2	3842 14	3853 33	1.52	4.14
Voltage 3	3847.45	3858.59	1.56	4.05
Average	3844.44	3855.55		
% Imbalance	0.08	0 08		

Power

	kW	kVar	kVA	Pf
Phase 1	154.99	67 16	168 92	0 92
Phase 2	152.85	68 21	167.38	0 92
Phase 3	157 63	70.56	172 70	0.92
Total	465.47	205.93	508 99	0.92
Power Sequence	465 47	200 30	506.74	0.92

Efficiency

Efficiency	100.74
HP Output	628 91
kW Output	468.89

Current

Current 1	43.76	43 82	1.47	2.81
Current 2	43 37	43 44	1.46	2 98
Current 3	44 69	44 76	1.47	2.87
Average	43.94	44.00		
% Imbalance	1.71	1.71		
% FLA	86.15	86.28		

Sequence

	Positive	Negative	Zero
Volt Phase-Phase	6658 76	5.45	0 00
Volt Phase-Neutral	3844 44	3 15	0 00
Current	43 94	0.26	1 21

	Self	Angle	Mutual	Angle
Zero	87 51	23.28	87 51	263.28
Positive	0.44	86.34	0 53	215 60
Negative	1.06	300 41	1 06	300 38

Phase Configuration	Phase to Phase
Phase Rotation	Clockwise

Impedance

	Real	Magnitude	Angle
Phase 1	80.95	87.84	22 85
Phase 2	81.27	88.60	23.46
Phase 3	78.93	86.10	23 54
% Imbalance	1.81		

IP7_025732

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U1 BBFP 2B

Voltage

	Fund RMS	Tot RMS	C.F.	THD
Voltage 1-2	6643.03	6659.80	1.50	3.93
Voltage 2-3	6653 18	6670 05	1.50	3.92
Voltage 1-3	6666 19	6682 98	1 49	3.89
Average	6654 13	6670.95		
% Imbalance	0.18	0 18	HVF	0 01
%NEMA Derating	100.00	%NEMA	Derating	100.00

Voltage 1	3842.32	3852 00	1.50	3.91
Voltage 2	3834.80	3844 52	1.52	3.93
Voltage 3	3848.17	3857 90	1 52	3.90
Average	3841.77	3851.47		
% Imbalance	0.18	0.18		

Power

	kW	kVar	kVA	Pf
Phase 1	140.89	61.00	153.53	0 92
Phase 2	138.95	63.52	152.78	0.91
Phase 3	143.41	64.28	157 16	0 92
Total	423.25	188.80	463.46	0.92
Power Sequence	423.25	184.05	461 53	0.92

Efficiency

Efficiency	95.73
HP Output	543 45
kW Output	405 17

Current

Current 1	39 80	39.86	1 49	2.41
Current 2	39 67	39.74	1.51	2.60
Current 3	40.67	40 74	1.48	2.40
Average	40.05	40.11		
% Imbalance	1.56	1.56		
% FLA	87.06	87.20		

Impedance

	Real	Magnitude	Angle
Phase 1	88 96	96 55	22.87
Phase 2	88.29	96.66	24.03
Phase 3	86 70	94.62	23.61
% Imbalance	1.46		

Sequence

	Positive	Negative	Zero
Volt Phase-Phase	6654.13	13.41	0.00
Volt Phase-Neutral	3841 76	7.74	0.00
Current	40.04	0.12	1.28

	Self	Angle	Mutual	Angle
Zero	95 94	23.50	95.94	263.50
Positive	0.11	54 51	0.35	249.03
Negative	1.23	317.87	1.23	317 82

Phase Configuration	Phase to Phase
Phase Rotation	Clockwise

IP7_025733