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Underwriters
Laboratories

Performance Test Results Sheet.

Date: 04/11/10 - 05/11/10
Model AET-TE² S-100A-3Phase
Serial no. AET-3ph-281010-1

3-phase balanced inductive load performance test

Reference	Voltage readings	Reaings without TE ² S			Readings with TE ² S				Amps saving	PF Improvement
		Current	Power factor	Total (Apparent) Power	Voltage readings	Current	Power factor	Total (Apparent) Power		
	Volts	Amps	PF	VA	Volts	Amps	PF	VA	%	%
1-R	230.4	29.6	0.745	6820	231.8	18.97	0.97	4397	35.91	30.20
1-Y	230.9	28.8	0.766	6650	232	23.19	0.97	5380	19.48	26.63
1-B	233.4	25.62	0.755	5980	234.5	19.88	0.982	4662	22.40	30.07
2-R	230.6	47.3	0.73	10907	233.3	35.6	0.991	8305	24.74	35.75
2-Y	231.1	46	0.74	10631	234.1	35.3	0.988	8264	23.26	33.51
2-B	232.6	46.6	0.743	10839	235.6	35.9	0.988	8458	22.96	32.97
3-R	232.3	77	0.729	17887	236.1	46.7	0.989	11026	39.35	35.67
3-Y	233.9	76.6	0.73	17917	237.6	43	0.991	10217	43.86	35.75
3-B	235.8	77	0.744	18157	239.5	58.8	0.988	14083	23.64	32.80
4-R	231.6	110	0.74	25476	238.4	88	0.976	20979	20.00	31.89
4-Y	233.3	110.4	0.74	25756	236.6	85.7	0.972	20277	22.37	31.35
4-B	235	111.8	0.764	26273	235.5	84.2	0.974	19829	24.69	27.49
5-R	230.8	23.78	0.678	5488	231.8	13.23	0.983	3067	44.37	44.99
5-Y	230.9	26.91	0.678	6214	234.1	19.25	0.967	4506	28.47	42.63
5-B	233.3	23.07	0.667	5382	234.9	15.85	0.985	3723	31.30	47.68
6-R	232.3	45.4	0.66	10546	237.4	33.74	0.987	8010	25.68	49.55
6-Y	233.3	45.1	0.656	10522	235.7	30.87	0.984	7276	31.55	50.00
6-B	234.6	47.6	0.686	11167	234.9	31.3	0.986	7352	34.24	43.73
7-R	230.4	75.6	0.572	17418	237.2	48.8	0.962	11575	35.45	68.18
7-Y	231.6	76.3	0.589	17671	234.5	48.1	0.968	11279	36.96	64.35
7-B	233.4	76.4	0.597	17832	234.5	47.4	0.961	11115	37.96	60.97
8-R	231	104.6	0.645	24163	235.5	71.5	0.973	16838	31.64	50.85
8-Y	232.4	106.1	0.645	24658	236.8	73.1	0.969	17310	31.10	50.23
8-B	234.7	104.4	0.648	24503	239.2	71.8	0.968	17175	31.23	49.38
3-phase unbalanced inductive load performance test										
9-R	236.5	28.79	0.612	6809	238.5	19.19	0.957	4577	33.34	56.37
9-Y	235.5	45.9	0.532	10809	237.2	26.13	0.967	6198	43.07	81.77
9-B	233.1	75.4	0.6	17576	237.1	48.3	0.966	11452	35.94	61.00
10-R	234.9	44.5	0.725	10453	237.6	33.38	0.985	7931	24.99	35.86
10-Y	234.1	67.3	0.735	15755	235.7	51.8	0.971	12209	23.03	32.11
10-B	231.2	107.7	0.531	24900	236.5	64.9	0.947	15349	39.74	78.34
3-phase balanced inductive load, high current test										
11-R	230.1	109.8	0.521	25265	235.9	64.4	0.973	15192	41.35	86.76
11-Y	231.4	107.6	0.546	24899	236.3	66.2	0.943	15643	38.48	72.71
11-B	233.9	107.7	0.554	25191	238.2	66.9	0.928	15936	37.88	67.51
3-phase unbalanced inductive load, high current test										
12-R	230.1	109.8	0.521	25265	235.9	64.4	0.973	15192	41.35	86.76
12-Y	231.7	101.9	0.681	23610	235.1	74	0.958	17397	27.38	40.68
12-B	233	110.8	0.775	25816	236.5	87.4	0.979	20670	21.12	26.32
3-phase unbalanced inductive load, low voltage test										
12a-R	222.7	100.3	0.798	22337	226.4	63.5	0.942	14376	36.69	18.05
12a-Y	220.9	93.1	0.709	20566	225.8	71.1	0.958	16054	23.63	35.12
12a-B	220.8	100.5	0.572	22190	227	82.9	0.979	18818	17.51	71.15
3-phase unbalanced inductive load, high voltage test										
12b-R	250.9	114.6	0.577	28753	255.5	71.6	0.953	18294	37.52	65.16
12b-Y	251.2	105.5	0.715	26502	255	79.7	0.966	20324	24.45	35.10
12b-B	254.3	112.9	0.804	28710	257.4	92.6	0.988	23835	17.98	22.89

Yours faithfully,



John Fisher
Associate Engineer Senior.