



Dateiname : ''  
Datum : 08.03.2005 15:51:53

Bezeichnung : Orbit 20/16 (HP 355/20/B16 P10)  
Seriennummer : 0205  
Prüfnummer : 170205  
Besonderes : future 32.55K

Versuchsaufbau	Messparameter
-----	
Grundlast : 5 %	Strom von : 10 A bis : 40 A
Hebelarmlänge : 60 mm	Schrittweite : 1.0 A
Waagezelle : 50 N	Reglerausgang : 100 %
Dämpfungsfaktor: 5	
Regelzeit : 100 ms	

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
10.1	9.8	6819.0	98.7	88.3	89.43	12.4	24.0
10.0	11.0	6750.0	110.2	98.0	88.88	13.9	24.0
10.0	12.0	6695.0	119.8	106.5	88.85	15.2	24.0
10.0	12.9	6643.0	128.9	114.8	89.05	16.5	24.0
10.0	13.9	6586.0	139.1	123.8	88.97	17.9	24.0
10.0	14.9	6534.0	148.6	131.9	88.74	19.3	24.0
10.0	16.0	6475.0	159.6	141.3	88.53	20.8	24.0
9.9	17.1	6419.0	170.1	150.4	88.43	22.4	24.0
9.9	18.0	6374.0	178.6	157.3	88.07	23.6	24.0
9.9	18.9	6326.0	187.5	164.7	87.84	24.9	24.0
9.9	20.0	6270.0	198.0	173.6	87.66	26.4	24.0
9.9	21.0	6222.0	207.2	181.2	87.46	27.8	24.0
9.8	22.1	6168.0	217.3	189.4	87.16	29.3	24.0
9.8	23.2	6113.0	227.8	197.7	86.77	30.9	24.0
9.8	24.0	6073.0	235.1	203.7	86.63	32.0	24.0
9.8	25.1	6018.0	245.8	212.1	86.29	33.7	24.0
9.8	25.8	5982.0	252.2	217.3	86.14	34.7	24.0
9.8	27.2	5915.0	265.2	226.3	85.34	36.5	24.0
9.8	28.1	5871.0	273.7	231.7	84.66	37.7	24.0
9.7	28.8	5832.0	280.4	236.1	84.21	38.7	24.0
9.7	30.0	5775.0	291.4	244.7	83.95	40.5	24.0
9.7	31.2	5716.0	302.5	252.2	83.36	42.1	24.0
9.7	32.1	5668.0	311.4	257.9	82.84	43.5	24.0
9.7	33.1	5618.0	320.3	263.6	82.30	44.8	24.0
9.7	34.1	5567.0	329.5	269.6	81.83	46.2	24.0
9.6	35.1	5517.0	338.6	275.1	81.24	47.6	24.0
9.6	36.1	5468.0	347.2	279.9	80.62	48.9	24.0
9.6	37.0	5420.0	355.9	284.7	79.99	50.2	24.0
9.6	38.0	5368.0	365.0	289.9	79.42	51.6	24.0
9.6	39.0	5315.0	373.8	294.7	78.84	53.0	24.0
9.6	40.1	5263.0	383.1	299.4	78.15	54.3	24.0

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Dateiname : ''  
Datum : 08.03.2005 15:52:28

Bezeichnung : Orbit 20/16 (HP 355/20/B16 P10)  
Seriennummer : 0205  
Prüfnummer : 170205  
Besonderes : future 32.55K

Versuchsaufbau

Messparameter

-----  
Grundlast : 5 %  
Hebelarmlänge : 60 mm  
Waagezelle : 50 N  
Dämpfungsfaktor: 5  
Regelzeit : 100 ms

-----  
Strom von : 10 A bis : 40 A  
Schrittweite : 1.0 A  
Reglerausgang : 100 %

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
12.7	9.9	8580.0	125.5	108.4	86.37	12.1	24.0
12.6	10.9	8511.0	137.8	118.4	85.93	13.3	24.0
12.6	12.0	8445.0	150.8	130.8	86.79	14.8	24.0
12.6	12.9	8386.0	162.6	142.4	87.58	16.2	24.0
12.6	13.9	8325.0	174.6	153.2	87.74	17.6	24.0
12.5	14.9	8265.0	186.8	164.0	87.83	19.0	24.0
12.5	16.0	8201.0	200.1	175.8	87.89	20.5	24.0
12.5	16.9	8149.0	210.8	185.9	88.17	21.8	24.0
12.5	17.8	8094.0	222.6	196.2	88.11	23.1	24.0
12.4	19.0	8031.0	236.3	207.7	87.89	24.7	24.0
12.4	20.0	7971.0	248.5	218.6	87.97	26.2	24.0
12.4	21.1	7912.0	261.3	229.1	87.66	27.6	24.0
12.4	22.0	7862.0	272.5	238.1	87.41	28.9	24.0
12.4	23.1	7801.0	285.5	249.5	87.41	30.5	24.0
12.4	24.0	7751.0	296.1	258.5	87.30	31.8	24.0
12.3	25.0	7697.0	307.7	268.1	87.14	33.3	24.0
12.3	26.1	7635.0	321.4	278.8	86.74	34.9	24.0
12.3	27.1	7582.0	332.6	288.2	86.65	36.3	24.0
12.3	28.2	7523.0	345.7	297.9	86.17	37.8	24.0
12.3	29.0	7475.0	355.9	305.3	85.79	39.0	24.0
12.2	30.0	7422.0	367.1	313.1	85.29	40.3	24.0
12.2	30.7	7385.0	375.1	319.0	85.03	41.2	24.0
12.2	32.1	7311.0	391.1	329.7	84.32	43.1	24.0
12.2	33.0	7258.0	402.2	336.6	83.70	44.3	24.0
12.2	34.3	7190.0	416.9	346.5	83.11	46.0	24.0
12.1	35.1	7146.0	425.7	353.6	83.05	47.2	24.0
12.1	36.2	7086.0	438.2	362.0	82.61	48.8	24.0
12.1	37.1	7032.0	449.3	368.6	82.04	50.1	24.0
12.1	38.1	6977.0	460.7	375.0	81.41	51.3	24.0
12.1	38.6	6944.0	466.7	380.3	81.49	52.3	24.0
12.0	40.2	6861.0	484.3	390.2	80.57	54.3	24.0



Dateiname : ''  
Datum : 08.03.2005 15:53:50

Bezeichnung : Orbit 20/16 (HP 355/20/B16 P10)  
Seriennummer : 0205  
Prüfnummer : 180205  
Besonderes : future 32.55K

Versuchsaufbau	Messparameter
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Grundlast : 5 %	Strom von : 10 A bis : 50 A
Hebelarmlänge : 60 mm	Schrittweite : 1.0 A
Waagezelle : 50 N	Reglerausgang : 100 %
Dämpfungsfaktor: 5	
Regelzeit : 100 ms	

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
15.1	9.9	10235.0	149.6	127.3	85.09	11.9	24.0
15.1	11.0	10152.0	166.6	141.3	84.80	13.3	24.0
15.1	12.0	10086.0	180.8	154.9	85.68	14.7	24.0
15.0	12.9	10024.0	194.1	167.9	86.49	16.0	24.0
15.0	13.9	9958.0	209.1	181.7	86.89	17.4	24.0
15.0	14.9	9894.0	223.8	195.7	87.45	18.9	24.0
15.0	16.1	9825.0	240.1	210.2	87.54	20.4	24.0
14.9	16.9	9769.0	252.8	222.4	88.00	21.7	24.0
14.9	17.9	9709.0	267.3	235.3	88.02	23.1	24.0
14.9	18.9	9651.0	280.8	247.2	88.05	24.5	24.0
14.9	19.8	9591.0	295.1	260.0	88.10	25.9	24.0
14.8	20.8	9530.0	309.5	273.3	88.30	27.4	24.0
14.8	21.8	9475.0	322.7	284.8	88.25	28.7	24.0
14.8	22.8	9416.0	336.9	297.4	88.27	30.2	24.0
14.8	23.7	9358.0	350.9	309.3	88.13	31.6	24.0
14.8	25.0	9283.0	368.9	323.8	87.76	33.3	24.0
14.7	25.8	9234.0	380.6	333.8	87.71	34.5	24.0
14.7	27.3	9148.0	401.7	349.7	87.05	36.5	24.0
14.7	28.0	9109.0	410.8	356.7	86.82	37.4	24.0
14.7	28.8	9060.0	422.4	366.4	86.74	38.6	24.0
14.6	30.1	8982.0	441.4	380.3	86.17	40.4	24.0
14.6	30.7	8946.0	449.4	386.9	86.08	41.3	24.0
14.6	32.1	8865.0	469.5	400.9	85.40	43.2	24.0
14.6	33.0	8814.0	481.3	409.7	85.13	44.4	24.0
14.6	33.7	8768.0	491.7	417.9	84.98	45.5	24.0
14.5	35.1	8689.0	510.8	430.8	84.33	47.3	24.0
14.5	36.0	8637.0	522.9	439.1	83.96	48.5	24.0
14.5	37.1	8572.0	538.1	448.4	83.34	50.0	24.0
14.5	38.1	8512.0	551.8	457.1	82.84	51.3	24.0
14.5	39.0	8456.0	564.4	465.6	82.50	52.6	24.0
14.4	39.7	8414.0	573.5	473.4	82.54	53.7	24.0
14.4	41.0	8337.0	591.3	484.7	81.97	55.5	24.0
14.4	41.6	8298.0	599.6	490.6	81.83	56.5	24.0
14.4	43.0	8213.0	619.1	501.7	81.04	58.3	24.0
14.4	43.7	8171.0	627.8	507.5	80.84	59.3	24.0
14.3	45.1	8091.0	646.3	516.8	79.97	61.0	24.0
14.3	46.1	8027.0	660.1	525.0	79.54	62.5	24.0
14.3	47.2	7961.0	674.3	532.3	78.94	63.9	24.0
14.3	47.6	7927.0	679.9	537.7	79.09	64.8	24.0
14.3	49.3	7829.0	702.7	546.5	77.78	66.7	24.0
14.2	50.1	7773.0	713.6	551.3	77.27	67.7	24.0



Dateiname : ''  
Datum : 08.03.2005 15:54:11

Bezeichnung : Orbit 20/16 (HP 355/20/B16 P10)  
Seriennummer : 0205  
Prüfnummer : 180205  
Besonderes : future 32.55K

Versuchsaufbau	Messparameter
-----	-----
Grundlast : 5 %	Strom von : 10 A bis : 50 A
Hebelarmlänge : 60 mm	Schrittweite : 1.0 A
Waagezelle : 50 N	Reglerausgang : 100 %
Dämpfungsfaktor: 5	
Regelzeit : 100 ms	

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
17.5	10.0	11852.0	174.6	131.1	75.11	10.6	24.0
17.5	10.9	11768.0	190.9	147.5	77.27	12.0	24.0
17.4	12.0	11685.0	208.8	164.8	78.96	13.5	24.0
17.4	13.0	11608.0	225.5	181.3	80.40	14.9	24.0
17.4	14.0	11533.0	242.4	197.7	81.54	16.4	24.0
17.3	15.0	11455.0	260.3	215.0	82.58	17.9	24.0
17.3	16.0	11384.0	276.6	230.5	83.34	19.3	24.0
17.3	17.1	11305.0	295.8	248.6	84.05	21.0	24.0
17.2	18.1	11236.0	312.0	264.0	84.60	22.4	24.0
17.2	19.1	11170.0	328.2	279.3	85.11	23.9	24.0
17.2	20.0	11103.0	344.4	294.0	85.38	25.3	24.0
17.1	21.1	11034.0	361.5	309.8	85.71	26.8	24.0
17.1	22.1	10969.0	377.7	324.3	85.87	28.2	24.0
17.1	22.9	10913.0	391.1	336.5	86.04	29.4	24.0
17.1	23.9	10844.0	408.0	351.6	86.17	31.0	24.0
17.0	25.2	10758.0	430.0	370.7	86.20	32.9	24.0
17.0	26.1	10698.0	444.7	383.9	86.31	34.3	24.0
17.0	27.1	10634.0	460.9	397.4	86.21	35.7	24.0
17.0	28.1	10566.0	477.3	411.7	86.25	37.2	24.0
16.9	28.8	10522.0	487.8	420.7	86.25	38.2	24.0
16.9	29.8	10454.0	504.6	435.1	86.22	39.7	24.0
16.9	31.2	10367.0	526.2	452.8	86.04	41.7	24.0
16.9	32.2	10303.0	542.0	465.2	85.83	43.1	24.0
16.8	32.9	10253.0	553.3	474.4	85.74	44.2	24.0
16.8	33.8	10188.0	569.1	486.6	85.51	45.6	24.0
16.8	34.8	10125.0	584.4	498.4	85.29	47.0	24.0
16.8	36.3	10026.0	608.6	517.1	84.97	49.3	24.0
16.7	37.1	9975.0	620.7	525.7	84.68	50.3	24.0
16.7	38.1	9910.0	635.9	536.6	84.39	51.7	24.0
16.7	39.2	9834.0	654.1	549.4	84.00	53.4	24.0
16.6	40.4	9751.0	673.4	562.6	83.55	55.1	24.0
16.6	40.9	9718.0	679.7	567.1	83.43	55.7	24.0
16.6	41.6	9671.0	691.3	575.2	83.20	56.8	24.0
16.6	42.7	9591.0	707.9	585.9	82.76	58.3	24.0
16.5	44.3	9483.0	733.5	602.7	82.18	60.7	24.0
16.5	45.2	9421.0	747.1	611.1	81.79	61.9	24.0
16.5	46.2	9349.0	763.0	620.7	81.36	63.4	24.0
16.5	47.2	9283.0	777.1	629.2	80.97	64.7	24.0
16.5	47.8	9236.0	786.6	635.9	80.84	65.7	24.0
16.4	48.5	9181.0	797.1	642.0	80.54	66.8	24.0
16.4	50.2	9066.0	823.5	657.3	79.81	69.2	24.0



Dateiname : ''  
Datum : 08.03.2005 15:54:25

Bezeichnung : Orbit 20/16 (HP 355/20/B16 P10)  
Seriennummer : 0205  
Prüfnummer : 180205  
Besonderes : future 32.55K

Versuchsaufbau

Messparameter

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-----
Grundlast      : 5 %
Hebelarmlänge : 60 mm
Waagezelle     : 50 N
Dämpfungsfaktor : 5
Regelzeit      : 100 ms

Strom von      : 10 A bis : 50 A
Schrittweite   : 1.0 A
Reglerausgang  : 100 %

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Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
19.3	10.1	13030.0	195.2	154.5	79.13	11.3	24.0
19.2	11.0	12904.0	211.4	170.6	80.70	12.6	24.0
19.1	11.9	12771.0	226.9	186.0	81.97	13.9	24.0
18.9	13.0	12636.0	245.9	204.8	83.31	15.5	24.0
18.9	13.9	12532.0	262.9	221.1	84.09	16.8	24.0
18.8	15.0	12435.0	281.1	238.2	84.76	18.3	24.0
18.7	15.9	12316.0	297.3	253.9	85.41	19.7	24.0
18.6	17.0	12213.0	316.9	272.8	86.09	21.3	24.0
18.6	18.0	12137.0	334.3	289.6	86.62	22.8	24.0
18.5	19.1	12030.0	354.1	309.6	87.44	24.6	24.0
18.5	20.0	11977.0	371.1	324.9	87.56	25.9	24.0
18.5	21.1	11913.0	390.0	341.8	87.63	27.4	24.0
18.4	21.9	11838.0	403.7	354.2	87.75	28.6	24.0
18.5	22.6	11820.0	417.2	366.6	87.86	29.6	24.0
18.4	23.6	11729.0	435.4	383.5	88.07	31.2	24.0
18.5	25.0	11687.0	461.9	406.7	88.06	33.2	24.0
18.4	26.2	11592.0	481.2	423.7	88.04	34.9	24.0
18.4	27.2	11521.0	498.6	438.2	87.89	36.3	24.0
18.3	28.1	11448.0	514.1	451.6	87.86	37.7	24.0
18.3	29.0	11359.0	529.4	464.3	87.71	39.0	24.0
18.3	30.1	11311.0	550.2	481.4	87.49	40.6	24.0
18.2	30.7	11270.0	560.1	489.8	87.45	41.5	24.0
18.2	32.0	11162.0	582.9	508.7	87.27	43.5	24.0
18.3	33.1	11159.0	604.4	526.8	87.17	45.1	24.0
18.2	34.0	11085.0	620.4	539.7	86.99	46.5	24.0
18.2	35.3	10991.0	640.7	555.6	86.72	48.3	24.0
18.1	36.4	10902.0	659.0	569.6	86.45	49.9	24.0
18.1	37.0	10840.0	669.3	577.0	86.21	50.8	24.0
18.0	38.1	10745.0	686.1	589.5	85.91	52.4	24.0
17.9	39.1	10641.0	702.0	601.1	85.62	53.9	24.0
17.9	40.2	10555.0	720.0	614.8	85.38	55.6	24.0
17.9	41.2	10523.0	737.6	627.9	85.13	57.0	24.0
17.9	42.2	10442.0	755.0	640.8	84.88	58.6	24.0
17.9	43.3	10362.0	772.9	652.2	84.37	60.1	24.0
17.8	43.7	10327.0	779.9	657.2	84.27	60.8	24.0
17.8	45.3	10215.0	806.4	673.9	83.57	63.0	24.0
17.7	45.9	10109.0	811.4	675.6	83.27	63.8	24.0
17.6	47.2	10011.0	831.9	689.6	82.89	65.8	24.0
17.6	47.8	9953.0	841.9	695.2	82.58	66.7	24.0
17.5	49.2	9815.0	861.8	705.6	81.87	68.6	24.0
17.4	49.8	9688.0	864.5	704.0	81.44	69.4	24.0

Dateiname : ''  
Datum : 08.03.2005 15:54:42

Bezeichnung : Orbit 20/16 (HP 355/20/B16 P10)  
Seriennummer : 0205  
Prüfnummer : 180205  
Besonderes : future 32.55K

Versuchsaufbau

-----  
Grundlast : 5 %  
Hebelarmlänge : 60 mm  
Waagezelle : 50 N  
Dämpfungsfaktor: 5  
Regelzeit : 100 ms

Messparameter

-----  
Strom von : 10 A bis : 50 A  
Schrittweite : 1.0 A  
Reglerausgang : 100 %

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
21.1	10.0	14272.0	211.0	158.7	75.21	10.6	24.0
21.1	11.0	14166.0	232.7	179.8	77.26	12.1	24.0
21.1	12.0	14104.0	253.9	200.4	78.91	13.6	24.0
21.0	13.0	14008.0	272.8	218.9	80.25	14.9	24.0
21.0	14.1	13954.0	296.3	241.6	81.55	16.5	24.0
21.0	15.1	13894.0	317.7	262.2	82.51	18.0	24.0
21.0	16.0	13815.0	336.0	279.9	83.29	19.3	24.0
21.0	17.1	13729.0	358.9	301.7	84.06	21.0	24.0
20.9	17.9	13645.0	373.2	316.0	84.67	22.1	24.0
20.8	19.1	13536.0	398.2	339.4	85.25	23.9	24.0
20.8	20.1	13456.0	417.9	358.2	85.71	25.4	24.0
20.7	21.0	13383.0	435.6	374.6	85.99	26.7	24.0
20.7	22.1	13288.0	457.5	394.8	86.30	28.4	24.0
20.7	23.1	13212.0	476.3	411.9	86.49	29.8	24.0
20.6	24.2	13112.0	498.9	432.0	86.60	31.5	24.0
20.6	25.2	13034.0	517.1	449.9	87.01	33.0	24.0
20.5	26.1	12937.0	534.0	464.5	86.98	34.3	24.0
20.4	27.2	12828.0	555.2	482.9	86.97	35.9	24.0
20.3	28.4	12720.0	576.2	500.2	86.80	37.5	24.0
20.3	29.1	12662.0	590.6	512.7	86.81	38.7	24.0
20.4	30.3	12655.0	616.8	535.3	86.78	40.4	24.0
20.4	30.9	12630.0	629.2	545.7	86.72	41.3	24.0
20.3	32.1	12529.0	652.9	566.2	86.72	43.2	24.0
20.3	33.2	12444.0	672.4	582.7	86.66	44.7	24.0
20.3	33.9	12387.0	687.2	595.2	86.61	45.9	24.0
20.2	34.9	12310.0	706.4	610.8	86.47	47.4	24.0
20.1	36.4	12130.0	729.1	628.9	86.25	49.5	24.0
20.0	37.2	12039.0	744.2	640.8	86.10	50.8	24.0
20.0	37.8	12008.0	756.5	650.7	86.01	51.7	24.0
19.9	39.2	11908.0	781.1	669.6	85.73	53.7	24.0
19.9	40.2	11838.0	800.8	684.8	85.52	55.2	24.0
19.9	41.1	11774.0	817.9	697.1	85.23	56.5	24.0
19.9	41.9	11706.0	832.1	707.1	84.98	57.7	24.0
19.8	43.2	11605.0	857.0	724.9	84.59	59.7	24.0
19.8	44.2	11538.0	876.1	739.7	84.42	61.2	24.0
19.8	45.3	11464.0	896.2	753.2	84.05	62.7	24.0
19.8	46.1	11410.0	910.4	763.1	83.82	63.9	24.0
19.8	47.4	11331.0	936.9	781.0	83.36	65.8	24.0
19.8	47.8	11328.0	945.6	787.0	83.23	66.3	24.0
19.7	49.6	11181.0	977.5	807.2	82.58	68.9	24.0
19.7	49.6	11184.0	978.5	807.6	82.54	69.0	24.0

Dateiname : ''  
Datum : 08.03.2005 15:55:01

Bezeichnung : Orbit 20/16 (HP 355/20/B16 P10)  
Seriennummer : 0205  
Prüfnummer : 180205  
Besonderes : future 32.55K

Versuchsaufbau

-----  
Grundlast : 5 %  
Hebelarmlänge : 60 mm  
Waagezelle : 50 N  
Dämpfungsfaktor: 5  
Regelzeit : 100 ms

Messparameter

-----  
Strom von : 10 A bis : 50 A  
Schrittweite : 1.0 A  
Reglerausgang : 100 %

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
23.8	9.8	16058.0	233.8	175.7	75.13	10.4	24.0
23.7	11.0	15899.0	261.1	203.6	77.99	12.2	24.0
23.6	11.9	15797.0	281.3	223.9	79.60	13.5	24.0
23.5	13.0	15626.0	306.2	249.4	81.44	15.2	24.0
23.5	14.0	15557.0	328.8	271.3	82.53	16.7	24.0
23.4	14.9	15462.0	349.6	292.0	83.52	18.0	24.0
23.4	15.9	15373.0	371.9	313.6	84.34	19.5	24.0
23.3	17.1	15285.0	400.0	341.1	85.29	21.3	24.0
23.3	18.0	15216.0	419.2	359.6	85.77	22.6	24.0
23.3	18.9	15134.0	440.6	379.9	86.22	24.0	24.0
23.2	19.9	15042.0	461.3	399.7	86.65	25.4	24.0
23.2	21.0	14955.0	486.5	423.4	87.03	27.0	24.0
23.1	21.9	14878.0	507.5	443.2	87.33	28.4	24.0
23.1	22.9	14777.0	527.5	461.7	87.54	29.8	24.0
23.0	24.2	14676.0	555.8	488.0	87.79	31.8	24.0
23.0	24.9	14624.0	572.9	503.4	87.87	32.9	24.0
23.0	26.2	14528.0	602.1	530.3	88.07	34.9	24.0
23.0	26.6	14502.0	610.3	537.1	87.99	35.4	24.0
22.9	28.3	14363.0	647.5	569.9	88.02	37.9	24.0
22.9	28.8	14321.0	659.1	580.3	88.05	38.7	24.0
22.8	30.5	14180.0	693.4	609.5	87.91	41.0	24.0
22.7	30.9	14140.0	701.8	616.8	87.89	41.7	24.0
22.6	32.4	13983.0	733.7	643.3	87.68	43.9	24.0
22.7	33.1	13964.0	749.3	656.7	87.65	44.9	24.0
22.6	34.0	13883.0	769.5	673.1	87.47	46.3	24.0
22.6	35.4	13791.0	799.5	698.0	87.30	48.3	24.0
22.6	35.8	13777.0	809.1	706.4	87.30	49.0	24.0
22.5	37.5	13626.0	844.2	733.5	86.89	51.4	24.0
22.5	37.8	13615.0	850.5	738.3	86.81	51.8	24.0
22.4	39.5	13461.0	885.0	765.9	86.53	54.3	24.0
22.4	39.7	13455.0	890.6	771.2	86.59	54.7	24.0
22.4	41.5	13325.0	927.7	800.0	86.23	57.3	24.0
22.4	41.7	13344.0	935.0	805.6	86.16	57.6	24.0
22.4	43.4	13236.0	972.3	833.7	85.75	60.2	24.0
22.4	43.7	13224.0	980.7	839.0	85.56	60.6	24.0
22.3	45.4	13056.0	1013.7	862.7	85.10	63.1	24.0
22.3	46.2	12995.0	1028.9	872.7	84.82	64.1	24.0
22.3	47.1	12924.0	1049.1	887.1	84.55	65.5	24.0
22.2	48.1	12823.0	1067.5	898.9	84.20	66.9	24.0
22.2	49.2	12740.0	1091.6	914.2	83.75	68.5	24.0
22.2	49.9	12687.0	1104.6	922.7	83.53	69.4	24.0

Dateiname : ''  
Datum : 08.03.2005 15:55:20

Bezeichnung : Orbit 20/16 (HP 355/20/B16 P10)  
Seriennummer : 0205  
Prüfnummer : 180205  
Besonderes : future 32.55K

Versuchsaufbau

Messparameter

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-----
Grundlast      :    5 %           Strom von : 10 A   bis : 50 A
Hebelarmlänge :   60 mm         Schrittweite : 1.0 A
Waagezelle    :   50 N         Reglerausgang : 100 %
Dämpfungsfaktor:    5
Regelzeit     :  100 ms

```

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
24.7	10.1	16597.0	248.9	185.0	74.33	10.6	22.0
24.6	11.1	16491.0	273.7	210.1	76.79	12.2	22.0
24.6	12.0	16397.0	295.4	231.9	78.52	13.5	22.0
24.5	13.1	16290.0	320.1	256.7	80.20	15.0	22.0
24.5	14.0	16200.0	341.3	278.1	81.47	16.4	22.0
24.4	15.0	16096.0	365.3	302.0	82.66	17.9	22.0
24.3	16.0	15988.0	389.9	326.1	83.64	19.5	22.0
24.3	16.9	15902.0	410.9	346.7	84.37	20.8	22.0
24.2	17.8	15819.0	431.7	366.9	84.99	22.1	22.0
24.2	18.9	15713.0	455.9	390.2	85.59	23.7	22.0
24.1	20.1	15602.0	483.7	416.8	86.17	25.5	22.0
24.0	21.0	15510.0	504.9	436.7	86.49	26.9	22.0
24.1	22.0	15490.0	530.9	460.9	86.82	28.4	22.0
24.0	23.0	15401.0	552.5	481.2	87.10	29.8	22.0
24.0	23.9	15319.0	573.4	500.8	87.34	31.2	22.0
23.9	24.7	15241.0	591.3	517.5	87.52	32.4	22.0
23.8	25.9	15121.0	617.1	541.5	87.75	34.2	22.0
23.7	26.8	14996.0	635.4	558.2	87.85	35.5	22.0
23.7	28.0	14882.0	662.5	582.8	87.97	37.4	22.0
23.6	29.0	14795.0	684.4	602.1	87.98	38.9	22.0
23.6	29.7	14732.0	699.9	616.0	88.01	39.9	22.0
23.5	30.7	14636.0	721.9	635.4	88.02	41.5	22.0
23.4	31.9	14529.0	747.6	657.6	87.95	43.2	22.0
23.4	33.0	14436.0	770.7	677.5	87.90	44.8	22.0
23.3	34.0	14354.0	793.5	696.4	87.77	46.3	22.0
23.3	35.1	14262.0	817.3	716.3	87.64	48.0	22.0
23.2	36.0	14191.0	837.2	732.5	87.49	49.3	22.0
23.2	37.3	14070.0	863.2	753.5	87.29	51.1	22.0
23.1	37.8	14027.0	874.9	762.4	87.15	51.9	22.0
23.1	39.3	13902.0	906.9	788.1	86.89	54.1	22.0
23.0	40.2	13836.0	925.1	802.0	86.69	55.4	22.0
23.0	40.8	13780.0	938.9	812.7	86.56	56.3	22.0
22.9	42.2	13664.0	967.5	834.1	86.20	58.3	22.0
23.0	42.4	13679.0	973.0	838.3	86.16	58.5	22.0
22.9	44.6	13500.0	1020.4	876.2	85.87	62.0	22.0
22.8	45.1	13453.0	1030.5	883.6	85.74	62.7	22.0
22.8	46.2	13361.0	1053.1	899.5	85.41	64.3	22.0
22.8	47.2	13275.0	1074.1	913.7	85.06	65.7	22.0
22.7	48.2	13189.0	1093.6	927.1	84.77	67.1	22.0
22.7	49.4	13092.0	1118.4	943.5	84.36	68.8	22.0
22.6	49.7	13055.0	1124.0	946.5	84.21	69.2	22.0



Dateiname : ''  
Datum : 08.03.2005 15:55:35

Bezeichnung : Orbit 20/16 (HP 355/20/B16 P10)  
Seriennummer : 0205  
Prüfnummer : 180205  
Besonderes : future 32.55K

Versuchsaufbau

-----  
Grundlast : 5 %  
Hebelarmlänge : 60 mm  
Waagezelle : 50 N  
Dämpfungsfaktor: 5  
Regelzeit : 100 ms

Messparameter

-----  
Strom von : 10 A bis : 50 A  
Schrittweite : 1.0 A  
Reglerausgang : 100 %

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
27.0	10.0	18130.0	271.2	200.0	73.76	10.5	22.0
27.0	11.0	18066.0	297.1	226.0	76.07	11.9	22.0
26.9	12.1	17940.0	326.8	255.5	78.20	13.6	22.0
26.8	12.9	17835.0	346.4	275.3	79.49	14.7	22.0
26.7	14.0	17685.0	374.5	303.9	81.14	16.4	22.0
26.7	15.2	17577.0	404.2	333.4	82.49	18.1	22.0
26.7	16.1	17508.0	428.8	357.5	83.38	19.5	22.0
26.7	17.1	17492.0	457.5	385.3	84.22	21.0	22.0
26.6	18.0	17351.0	479.2	407.2	84.98	22.4	22.0
26.5	19.1	17203.0	504.6	432.1	85.64	24.0	22.0
26.4	20.2	17097.0	532.1	459.0	86.26	25.6	22.0
26.2	21.3	16923.0	558.5	484.4	86.75	27.3	22.0
26.3	22.3	16900.0	586.5	510.8	87.08	28.9	22.0
26.2	22.8	16833.0	599.2	522.7	87.24	29.7	22.0
26.2	24.0	16755.0	629.9	551.5	87.57	31.4	22.0
26.3	24.8	16755.0	651.7	572.0	87.76	32.6	22.0
26.2	26.2	16620.0	686.8	604.3	87.99	34.7	22.0
26.2	26.9	16543.0	703.7	620.1	88.13	35.8	22.0
26.1	27.9	16437.0	727.4	641.8	88.23	37.3	22.0
26.0	29.1	16325.0	756.3	667.6	88.28	39.1	22.0
26.0	29.7	16263.0	772.0	681.8	88.31	40.0	22.0
25.9	31.0	16144.0	801.4	708.1	88.36	41.9	22.0
25.8	31.8	16070.0	820.9	725.4	88.36	43.1	22.0
25.8	33.3	15933.0	856.5	756.7	88.35	45.4	22.0
25.8	34.2	15916.0	882.5	779.7	88.36	46.8	22.0
25.8	35.4	15816.0	911.8	804.5	88.24	48.6	22.0
25.7	36.3	15743.0	933.2	822.6	88.15	49.9	22.0
25.7	36.7	15682.0	942.1	829.7	88.07	50.5	22.0
25.6	38.0	15575.0	974.5	857.1	87.95	52.5	22.0
25.5	39.2	15466.0	1000.9	878.6	87.78	54.2	22.0
25.5	40.0	15408.0	1022.2	896.0	87.65	55.5	22.0
25.4	41.2	15281.0	1046.2	915.3	87.48	57.2	22.0
25.4	42.1	15196.0	1068.4	932.7	87.30	58.6	22.0
25.3	43.3	15089.0	1096.1	954.1	87.05	60.4	22.0
25.3	44.2	15011.0	1116.5	969.4	86.83	61.7	22.0
25.2	45.3	14919.0	1142.1	989.0	86.60	63.3	22.0
25.2	46.2	14840.0	1162.2	1003.8	86.38	64.6	22.0
25.1	47.2	14751.0	1186.2	1021.4	86.10	66.1	22.0
25.1	47.7	14718.0	1199.0	1030.3	85.93	66.8	22.0
25.1	49.0	14634.0	1231.0	1053.4	85.57	68.7	22.0
25.1	49.7	14583.0	1246.2	1063.8	85.36	69.7	22.0

Dateiname : ''  
Datum : 08.03.2005 15:55:55

Bezeichnung : Orbit 20/16 (HP 355/20/B16 P10)  
Seriennummer : 0205  
Prüfnummer : 180205  
Besonderes : future 32.55K

Versuchsaufbau

Messparameter

```

-----
Grundlast      : 5 %
Hebelarmlänge : 60 mm
Waagezelle     : 50 N
Dämpfungsfaktor : 5
Regelzeit      : 100 ms

Strom von      : 10 A bis : 50 A
Schrittweite   : 1.0 A
Reglerausgang  : 100 %

```

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
29.8	9.9	19934.0	296.2	207.5	70.07	9.9	22.0
29.7	11.0	19784.0	327.2	240.0	73.36	11.6	22.0
29.6	12.0	19668.0	353.8	266.2	75.23	12.9	22.0
29.5	13.0	19530.0	384.3	297.0	77.28	14.5	22.0
29.4	13.9	19423.0	409.5	322.9	78.86	15.9	22.0
29.4	14.9	19302.0	437.7	351.1	80.22	17.4	22.0
29.3	16.0	19164.0	469.2	383.5	81.73	19.1	22.0
29.2	16.8	19056.0	491.3	405.5	82.55	20.3	22.0
29.1	18.0	18911.0	523.1	436.4	83.43	22.0	22.0
29.0	18.9	18799.0	547.4	460.1	84.05	23.4	22.0
28.9	19.9	18688.0	576.4	488.5	84.74	25.0	22.0
28.8	20.9	18576.0	603.7	514.6	85.24	26.5	22.0
28.7	21.9	18428.0	627.5	537.8	85.72	27.9	22.0
28.6	22.8	18326.0	651.0	560.5	86.10	29.2	22.0
28.5	23.9	18200.0	681.5	589.6	86.52	30.9	22.0
28.4	24.9	18090.0	707.5	614.3	86.84	32.4	22.0
28.4	25.8	17993.0	732.2	637.6	87.09	33.8	22.0
28.3	27.0	17881.0	765.4	668.0	87.28	35.7	22.0
28.3	28.0	17790.0	792.4	692.8	87.43	37.2	22.0
28.2	29.1	17687.0	819.6	717.9	87.59	38.8	22.0
28.2	29.9	17618.0	841.0	736.9	87.63	39.9	22.0
28.1	30.8	17536.0	865.2	758.2	87.63	41.3	22.0
28.1	32.1	17447.0	902.0	791.1	87.71	43.3	22.0
28.0	33.2	17325.0	930.1	816.3	87.76	45.0	22.0
28.0	33.7	17268.0	943.5	827.9	87.75	45.8	22.0
27.9	35.0	17137.0	975.4	855.8	87.73	47.7	22.0
27.8	36.0	17039.0	1002.1	879.1	87.73	49.3	22.0
27.8	36.7	16989.0	1021.2	896.0	87.74	50.4	22.0
27.8	37.6	16921.0	1042.4	913.0	87.58	51.5	22.0
27.8	39.1	16888.0	1088.9	951.9	87.42	53.8	22.0
27.8	39.7	16842.0	1104.5	964.9	87.36	54.7	22.0
27.8	41.0	16741.0	1138.5	993.0	87.22	56.6	22.0
27.7	42.2	16642.0	1171.4	1019.7	87.05	58.5	22.0
27.7	42.7	16597.0	1185.0	1030.3	86.95	59.3	22.0
27.7	44.2	16490.0	1224.5	1061.7	86.71	61.5	22.0
27.7	45.0	16426.0	1245.4	1077.7	86.53	62.7	22.0
27.6	46.2	16321.0	1275.4	1101.6	86.37	64.5	22.0
27.6	47.1	16236.0	1297.5	1118.8	86.23	65.8	22.0
27.5	48.3	16131.0	1327.0	1140.7	85.97	67.5	22.0
27.4	49.2	16042.0	1350.6	1157.6	85.71	68.9	22.0
27.4	50.3	15955.0	1377.9	1177.3	85.45	70.5	22.0