



Dateiname : ''  
Datum : 08.03.2005 15:05:16

Bezeichnung : Orbit 15/14 (HP 355/15/B14 P10)  
Seriennummer : 0205  
Prüfnummer : 250205  
Besonderes : future 18.129F

Versuchsaufbau	Messparameter
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Grundlast : 5 %	Strom von : 15 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]
11.1	15.0	11249.0	166.0	144.0	86.74	12.2	24.0
11.0	15.9	11177.0	175.8	153.4	87.28	13.1	24.0
11.0	16.9	11105.0	186.4	163.5	87.71	14.1	24.0
11.0	18.1	11026.0	198.6	175.1	88.13	15.2	24.0
11.0	18.9	10971.0	206.6	182.5	88.35	15.9	24.0
10.9	20.1	10893.0	219.3	194.3	88.59	17.0	24.0
10.9	20.9	10838.0	227.9	202.2	88.71	17.8	24.0
10.9	21.8	10779.0	237.3	210.8	88.82	18.7	24.0
10.9	22.8	10716.0	247.4	220.0	88.96	19.6	24.0
10.8	23.8	10652.0	258.0	229.6	89.01	20.6	24.0
10.8	24.8	10587.0	268.8	239.1	88.98	21.6	24.0
10.8	25.7	10530.0	278.1	247.5	88.99	22.4	24.0
10.8	26.9	10458.0	290.2	258.0	88.89	23.6	24.0
10.8	27.9	10396.0	300.8	267.4	88.88	24.6	24.0
10.8	29.0	10332.0	311.7	276.7	88.79	25.6	24.0
10.7	30.0	10271.0	321.9	285.2	88.60	26.5	24.0
10.7	30.9	10218.0	330.7	292.7	88.51	27.4	24.0
10.7	31.9	10157.0	340.9	301.0	88.29	28.3	24.0
10.7	32.8	10099.0	350.7	309.0	88.13	29.2	24.0
10.7	33.8	10044.0	360.1	316.5	87.90	30.1	24.0
10.6	34.8	9982.0	370.2	324.9	87.77	31.1	24.0
10.6	35.8	9920.0	380.5	333.2	87.58	32.1	24.0
10.6	36.8	9863.0	390.2	340.6	87.28	33.0	24.0
10.6	37.8	9804.0	400.5	348.5	87.02	33.9	24.0
10.6	38.5	9756.0	407.5	353.8	86.83	34.6	24.0
10.6	39.5	9697.0	417.2	360.9	86.51	35.5	24.0
10.5	40.8	9619.0	430.3	370.5	86.11	36.8	24.0
10.5	41.7	9568.0	438.8	376.3	85.77	37.6	24.0
10.5	42.6	9508.0	447.9	383.0	85.51	38.5	24.0
10.5	43.6	9447.0	457.7	389.9	85.18	39.4	24.0
10.5	44.6	9389.0	466.9	396.0	84.82	40.3	24.0
10.5	45.6	9324.0	477.1	402.9	84.45	41.3	24.0
10.4	46.6	9265.0	486.5	409.1	84.09	42.2	24.0
10.4	47.4	9216.0	493.6	413.9	83.86	42.9	24.0
10.4	48.5	9148.0	504.3	421.0	83.48	43.9	24.0
10.4	49.5	9081.0	514.5	427.8	83.15	45.0	24.0



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Datum : 08.03.2005 15:05:43

Bezeichnung : Orbit 15/14 (HP 355/15/B14 P10)  
Seriennummer : 0205  
Prüfnummer : 250205  
Besonderes : future 18.129F

Versuchsaufbau	Messparameter
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Grundlast : 5 %	Strom von : 15 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]
13.5	14.8	13715.0	199.5	166.7	83.55	11.6	24.0
13.4	16.3	13602.0	218.8	183.6	83.91	12.9	24.0
13.4	17.0	13538.0	227.7	190.5	83.69	13.4	24.0
13.4	18.0	13459.0	240.7	202.4	84.09	14.4	24.0
13.3	19.2	13373.0	255.7	216.0	84.47	15.4	24.0
13.3	20.1	13306.0	267.3	226.7	84.81	16.3	24.0
13.3	21.1	13232.0	280.3	238.5	85.09	17.2	24.0
13.3	21.9	13170.0	291.0	249.3	85.67	18.1	24.0
13.3	23.0	13097.0	304.7	262.8	86.24	19.2	24.0
13.2	23.8	13042.0	314.5	272.3	86.58	19.9	24.0
13.2	25.1	12952.0	331.6	288.0	86.86	21.2	24.0
13.2	25.9	12896.0	341.9	297.5	87.02	22.0	24.0
13.2	27.1	12820.0	356.2	310.8	87.25	23.1	24.0
13.1	28.0	12758.0	367.6	321.2	87.38	24.0	24.0
13.1	29.0	12690.0	380.4	332.6	87.42	25.0	24.0
13.1	29.9	12628.0	392.1	342.7	87.39	25.9	24.0
13.1	30.9	12565.0	404.3	353.3	87.38	26.8	24.0
13.1	31.9	12500.0	416.3	363.6	87.34	27.8	24.0
13.0	33.0	12426.0	430.3	375.8	87.33	28.9	24.0
13.0	34.0	12359.0	443.0	387.6	87.49	29.9	24.0
13.0	34.8	12304.0	453.0	395.7	87.33	30.7	24.0
13.0	36.0	12228.0	467.4	408.0	87.29	31.9	24.0
13.0	37.0	12162.0	479.6	418.5	87.25	32.9	24.0
12.9	37.9	12102.0	490.8	427.6	87.13	33.7	24.0
12.9	38.8	12042.0	501.7	436.4	86.98	34.6	24.0
12.9	39.9	11973.0	514.4	447.0	86.90	35.7	24.0
12.9	40.9	11909.0	526.5	456.4	86.67	36.6	24.0
12.9	41.7	11852.0	536.6	464.7	86.60	37.4	24.0
12.8	42.8	11780.0	549.8	475.0	86.39	38.5	24.0
12.8	43.8	11714.0	561.7	483.8	86.12	39.4	24.0
12.8	44.7	11657.0	571.7	491.3	85.93	40.2	24.0
12.8	45.6	11593.0	583.0	499.8	85.74	41.2	24.0
12.8	46.7	11525.0	595.2	508.9	85.50	42.2	24.0
12.7	47.7	11456.0	607.4	517.5	85.20	43.1	24.0
12.7	48.7	11388.0	619.4	525.7	84.87	44.1	24.0
12.7	49.8	11315.0	632.4	534.4	84.50	45.1	24.0



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Bezeichnung : Orbit 15/14 (HP 355/15/B14 P10)  
Seriennummer : 0205  
Prüfnummer : 250205  
Besonderes : future 18.129F

Versuchsaufbau

Messparameter

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

Strom von      : 10 A bis : 55 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]
14.8	10.3	15273.0	151.8	108.2	71.23	6.8	24.0
14.8	10.9	15208.0	161.6	118.4	73.28	7.4	24.0
14.7	12.1	15111.0	178.3	135.2	75.84	8.5	24.0
14.7	13.1	15029.0	192.6	149.7	77.71	9.5	24.0
14.7	14.1	14946.0	206.6	163.7	79.23	10.5	24.0
14.6	15.1	14867.0	221.1	178.1	80.57	11.4	24.0
14.6	16.1	14786.0	235.7	192.3	81.58	12.4	24.0
14.6	17.2	14707.0	250.2	206.4	82.52	13.4	24.0
14.6	18.2	14625.0	265.6	221.1	83.26	14.4	24.0
14.5	18.8	14574.0	273.9	229.2	83.68	15.0	24.0
14.5	20.0	14493.0	289.6	244.2	84.32	16.1	24.0
14.5	20.9	14423.0	302.9	256.9	84.81	17.0	24.0
14.5	21.8	14355.0	315.6	269.1	85.25	17.9	24.0
14.4	22.9	14279.0	330.5	283.5	85.79	19.0	24.0
14.4	24.0	14200.0	346.1	297.7	86.04	20.0	24.0
14.4	25.0	14129.0	360.0	310.2	86.16	21.0	24.0
14.4	25.8	14074.0	370.7	319.8	86.25	21.7	24.0
14.3	26.9	13999.0	385.6	333.2	86.40	22.7	24.0
14.3	28.0	13920.0	401.2	347.5	86.62	23.8	24.0
14.3	28.9	13861.0	412.8	358.2	86.78	24.7	24.0
14.3	30.0	13787.0	427.9	372.0	86.93	25.8	24.0
14.3	31.2	13705.0	444.2	386.1	86.92	26.9	24.0
14.2	31.9	13652.0	454.6	396.0	87.11	27.7	24.0
14.2	32.9	13586.0	467.7	407.4	87.09	28.6	24.0
14.2	33.6	13538.0	476.8	415.4	87.12	29.3	24.0
14.2	35.0	13446.0	495.6	431.3	87.03	30.6	24.0
14.1	35.9	13381.0	508.1	441.3	86.86	31.5	24.0
14.1	37.0	13310.0	521.9	453.8	86.94	32.6	24.0
14.1	37.9	13246.0	534.5	464.1	86.83	33.5	24.0
14.1	38.8	13187.0	546.0	473.8	86.78	34.3	24.0
14.1	39.7	13123.0	558.1	483.5	86.63	35.2	24.0
14.0	40.8	13046.0	573.4	496.2	86.53	36.3	24.0
14.0	41.8	12980.0	586.1	506.2	86.36	37.2	24.0
14.0	42.6	12916.0	596.7	514.8	86.28	38.1	24.0
14.0	43.7	12850.0	611.0	525.9	86.07	39.1	24.0
14.0	44.7	12784.0	623.5	535.3	85.85	40.0	24.0
13.9	45.6	12719.0	635.9	544.7	85.66	40.9	24.0
13.9	46.7	12649.0	649.1	554.4	85.41	41.9	24.0
13.9	47.5	12593.0	659.4	562.3	85.29	42.6	24.0
13.9	48.5	12519.0	672.9	571.9	84.99	43.6	24.0
13.8	49.7	12440.0	688.0	582.9	84.72	44.7	24.0
13.8	50.6	12377.0	699.4	590.9	84.48	45.6	24.0
13.8	51.9	12289.0	716.3	602.2	84.07	46.8	24.0
13.8	52.6	12235.0	725.1	608.0	83.86	47.5	24.0
13.8	53.5	12170.0	736.5	615.6	83.58	48.3	24.0
13.7	54.6	12093.0	750.5	624.4	83.20	49.3	24.0



Dateiname : ''  
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Bezeichnung : Orbit 15/14 (HP 355/15/B14 P10)  
Seriennummer : 0205  
Prüfnummer : 250205  
Besonderes : future 18.129F

Versuchsaufbau	Messparameter
-----	
Grundlast : 5 %	Strom von : 10 A bis : 55 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]
17.3	10.2	17801.0	176.2	117.7	66.78	6.3	24.0
17.3	11.0	17717.0	190.2	132.4	69.60	7.1	24.0
17.2	12.0	17620.0	207.5	150.6	72.56	8.2	24.0
17.2	13.1	17529.0	224.4	167.4	74.59	9.1	24.0
17.2	14.1	17436.0	241.8	184.8	76.43	10.1	24.0
17.1	15.1	17345.0	259.1	202.3	78.06	11.1	24.0
17.1	16.0	17271.0	272.7	216.2	79.27	12.0	24.0
17.1	17.1	17174.0	291.9	235.8	80.76	13.1	24.0
17.0	18.0	17102.0	305.8	249.5	81.60	13.9	24.0
17.0	19.0	17013.0	322.9	266.2	82.44	14.9	24.0
17.0	20.0	16935.0	338.8	281.5	83.11	15.9	24.0
16.9	20.9	16856.0	354.5	296.7	83.69	16.8	24.0
16.9	22.0	16774.0	371.1	313.0	84.35	17.8	24.0
16.9	22.9	16697.0	387.1	327.8	84.70	18.8	24.0
16.9	23.8	16627.0	401.7	341.9	85.13	19.6	24.0
16.8	24.9	16544.0	418.8	358.1	85.50	20.7	24.0
16.8	25.8	16478.0	432.8	371.2	85.75	21.5	24.0
16.8	26.8	16398.0	449.6	386.6	85.98	22.5	24.0
16.8	27.7	16329.0	464.4	400.3	86.21	23.4	24.0
16.7	28.6	16259.0	479.1	413.8	86.39	24.3	24.0
16.7	29.8	16177.0	496.8	429.7	86.50	25.4	24.0
16.7	30.7	16102.0	512.4	443.6	86.59	26.3	24.0
16.6	31.8	16024.0	529.2	458.8	86.70	27.3	24.0
16.6	33.0	15934.0	549.0	476.7	86.82	28.6	24.0
16.6	34.1	15859.0	566.0	490.4	86.64	29.5	24.0
16.6	34.7	15811.0	574.9	499.2	86.83	30.2	24.0
16.5	35.9	15727.0	593.6	515.3	86.81	31.3	24.0
16.5	36.9	15650.0	609.2	529.2	86.87	32.3	24.0
16.5	37.8	15586.0	622.9	541.3	86.89	33.2	24.0
16.5	38.8	15507.0	639.7	555.4	86.82	34.2	24.0
16.4	39.9	15429.0	656.1	569.3	86.78	35.2	24.0
16.4	40.9	15359.0	671.0	581.7	86.69	36.2	24.0
16.4	41.9	15284.0	686.7	594.4	86.56	37.1	24.0
16.4	42.9	15207.0	702.7	607.5	86.45	38.1	24.0
16.3	44.0	15129.0	719.4	620.8	86.30	39.2	24.0
16.3	44.8	15072.0	731.0	629.9	86.17	39.9	24.0
16.3	45.9	14994.0	747.3	642.7	86.00	40.9	24.0
16.3	46.9	14918.0	763.2	655.3	85.86	41.9	24.0
16.2	47.8	14847.0	777.2	665.7	85.66	42.8	24.0
16.2	48.5	14795.0	787.3	673.3	85.52	43.5	24.0
16.2	49.8	14703.0	806.2	687.6	85.28	44.7	24.0
16.2	50.6	14642.0	818.2	696.2	85.09	45.4	24.0
16.1	52.0	14542.0	838.8	711.3	84.80	46.7	24.0
16.1	52.8	14479.0	851.0	720.0	84.61	47.5	24.0
16.1	53.7	14410.0	864.2	729.4	84.40	48.3	24.0
16.1	54.7	14336.0	878.9	739.5	84.14	49.3	24.0