

```

/=====
| EMCOTEC GmbH      www.emcotec.de |
\=====

```



```

Dateiname   : ''
Datum       : 01.03.2005 12:02:40

```

```

Bezeichnung : Orbit 30/14 (HP 355/30/B14 P10)
Seriennummer : 01
Prüfnummer  : 151104
Besonderes  : future 32.55

```

```

Versuchsaufbau                               Messparameter
-----
Grundlast      : 17 %                         Strom von : 10 A bis : 50 A
Hebelarmlänge : 120 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]
12.6	9.9	6513.0	124.3	98.5	79.20	14.4	26.0
12.5	11.1	6453.0	138.4	112.1	80.96	16.6	26.0
12.5	12.1	6403.0	151.3	124.3	82.15	18.5	26.0
12.5	12.9	6366.0	160.3	132.6	82.71	19.9	26.0
12.4	14.0	6312.0	174.7	145.8	83.45	22.1	26.0
12.4	15.0	6267.0	186.8	156.7	83.92	23.9	26.0
12.4	16.1	6219.0	199.4	168.3	84.43	25.8	26.0
12.4	17.0	6178.0	210.4	178.3	84.75	27.6	26.0
12.3	18.1	6131.0	223.6	189.8	84.87	29.6	26.0
12.3	18.9	6096.0	232.8	197.9	85.01	31.0	26.0
12.3	20.1	6045.0	247.3	210.3	85.07	33.2	26.0
12.3	21.0	6005.0	257.9	219.7	85.16	34.9	26.0
12.3	22.1	5960.0	270.7	230.2	85.05	36.9	26.0
12.2	23.1	5916.0	283.1	240.7	85.04	38.9	26.0
12.2	24.0	5877.0	293.7	249.3	84.85	40.5	26.0
12.2	25.2	5830.0	307.2	260.7	84.85	42.7	26.0
12.2	26.1	5792.0	317.6	268.5	84.54	44.3	26.0
12.2	27.2	5745.0	330.8	279.2	84.43	46.4	26.0
12.1	28.2	5705.0	341.6	288.3	84.38	48.3	26.0
12.1	29.2	5664.0	353.3	296.4	83.91	50.0	26.0
12.1	30.1	5623.0	364.2	305.0	83.73	51.8	26.0
12.1	31.2	5579.0	376.3	314.1	83.47	53.8	26.0
12.1	32.1	5540.0	386.8	321.8	83.19	55.5	26.0
12.0	33.2	5496.0	398.9	330.5	82.87	57.4	26.0
12.0	34.2	5454.0	410.2	338.0	82.40	59.2	26.0
12.0	35.1	5413.0	421.2	346.3	82.22	61.1	26.0
12.0	36.2	5368.0	433.3	354.6	81.83	63.1	26.0
12.0	37.2	5326.0	444.3	361.8	81.44	64.9	26.0
11.9	38.0	5288.0	453.9	368.1	81.10	66.5	26.0
11.9	39.1	5244.0	465.6	375.2	80.59	68.3	26.0
11.9	40.1	5200.0	477.0	382.7	80.22	70.3	26.0
11.9	41.1	5156.0	488.3	389.4	79.75	72.1	26.0
11.9	42.2	5112.0	499.7	395.6	79.18	73.9	26.0
11.8	43.1	5071.0	509.8	402.0	78.85	75.7	26.0
11.8	44.1	5027.0	520.5	408.3	78.45	77.6	26.0
11.8	45.1	4979.0	532.3	414.8	77.93	79.6	26.0
11.8	45.7	4951.0	538.5	417.5	77.54	80.5	26.0
11.8	47.2	4885.0	555.0	427.4	77.02	83.6	26.0
11.7	47.9	4853.0	562.2	430.1	76.51	84.6	26.0
11.7	49.0	4802.0	574.5	435.5	75.80	86.6	26.0
11.7	50.1	4755.0	585.5	441.4	75.38	88.6	26.0

```

/=====\
|   EMCOTEC GmbH       www.emcotec.de   |
\=====/

```



Dateiname : ''
Datum : 01.03.2005 12:03:05

Bezeichnung : Orbit 30/14 (HP 355/30/B14 P10)
Seriennummer : 01
Prüfnummer : 151104
Besonderes : future 32.55

Versuchsaufbau

Messparameter

```

-----
Grundlast      : 17 %           Strom von : 10 A   bis : 50 A
Hebelarmlänge  : 120 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	7825.0	149.8	123.1	82.16	15.0	26.0
15.0	10.9	7768.0	164.2	136.9	83.35	16.8	26.0
15.0	12.0	7710.0	180.4	150.9	83.66	18.7	26.0
15.0	13.0	7660.0	194.6	165.6	85.08	20.6	26.0
14.9	14.0	7606.0	210.0	180.1	85.75	22.6	26.0
14.9	15.1	7554.0	224.9	193.8	86.18	24.5	26.0
14.9	16.1	7506.0	239.1	206.8	86.48	26.3	26.0
14.9	17.0	7457.0	253.3	220.0	86.85	28.2	26.0
14.8	18.1	7409.0	267.9	232.9	86.96	30.0	26.0
14.8	19.1	7359.0	283.1	246.6	87.13	32.0	26.0
14.8	20.2	7311.0	297.9	259.8	87.21	33.9	26.0
14.8	21.0	7270.0	310.3	270.7	87.24	35.6	26.0
14.7	22.2	7219.0	326.5	284.6	87.15	37.6	26.0
14.7	22.9	7185.0	336.7	293.4	87.13	39.0	26.0
14.7	24.2	7127.0	355.1	309.2	87.07	41.4	26.0
14.7	25.1	7084.0	368.3	320.0	86.89	43.1	26.0
14.6	25.8	7050.0	378.4	328.6	86.84	44.5	26.0
14.6	26.9	7002.0	393.3	341.0	86.69	46.5	26.0
14.6	28.2	6944.0	411.7	356.0	86.48	49.0	26.0
14.6	29.1	6904.0	423.9	365.6	86.25	50.6	26.0
14.5	30.2	6854.0	439.6	378.3	86.06	52.7	26.0
14.5	31.2	6812.0	452.7	388.7	85.87	54.5	26.0
14.5	32.1	6772.0	464.9	398.1	85.62	56.1	26.0
14.5	33.2	6720.0	480.7	410.4	85.37	58.3	26.0
14.4	34.1	6680.0	493.2	419.7	85.11	60.0	26.0
14.4	35.3	6630.0	508.7	431.2	84.75	62.1	26.0
14.4	36.1	6592.0	519.4	439.3	84.57	63.6	27.0
14.4	37.2	6542.0	534.9	450.3	84.18	65.7	27.0
14.4	38.1	6500.0	547.0	459.4	83.98	67.5	27.0
14.3	39.1	6447.0	560.7	468.8	83.60	69.4	27.0
14.3	40.0	6414.0	572.5	476.5	83.23	70.9	27.0
14.3	40.7	6381.0	581.2	482.8	83.07	72.3	27.0
14.3	42.3	6308.0	603.6	497.6	82.43	75.3	27.0
14.2	42.7	6287.0	608.5	500.3	82.21	76.0	27.0
14.2	43.6	6243.0	620.8	508.4	81.90	77.8	27.0
14.2	44.6	6198.0	633.3	516.2	81.52	79.5	27.0
14.2	46.3	6125.0	655.3	529.9	80.87	82.6	27.0
14.2	46.6	6107.0	659.0	531.1	80.60	83.1	27.0
14.1	47.6	6059.0	672.1	539.1	80.22	85.0	27.0
14.1	49.2	5986.0	693.7	551.5	79.51	88.0	27.0
14.1	49.6	5962.0	698.5	554.0	79.31	88.7	27.0

Dateiname : ''
Datum : 01.03.2005 12:03:46

Bezeichnung : Orbit 30/14 (HP 355/30/B14 P10)
Seriennummer : 01
Prüfnummer : 151104
Besonderes : future 32.55

Versuchsaufbau	Messparameter
-----	-----
Grundlast : 17 %	Strom von : 10 A bis : 50 A
Hebelarmlänge : 120 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]
17.6	10.0	9097.0	175.2	139.4	79.53	14.6	25.0
17.5	10.9	9038.0	191.1	154.7	80.97	16.3	25.0
17.5	12.0	8975.0	209.6	172.2	82.15	18.3	25.0
17.4	12.9	8925.0	225.1	187.1	83.12	20.0	25.0
17.4	14.0	8860.0	244.4	205.3	84.01	22.1	25.0
17.4	15.1	8804.0	261.8	221.7	84.70	24.0	25.0
17.3	16.0	8754.0	277.6	236.4	85.17	25.8	25.0
17.3	17.1	8698.0	295.5	253.0	85.62	27.8	25.0
17.3	18.0	8649.0	311.1	267.6	86.02	29.5	25.0
17.2	18.9	8603.0	325.9	281.0	86.22	31.2	25.0
17.2	20.1	8544.0	346.2	299.7	86.55	33.5	25.0
17.2	21.1	8493.0	363.2	314.6	86.63	35.4	25.0
17.2	22.1	8443.0	379.7	329.3	86.73	37.2	25.0
17.1	23.1	8396.0	395.4	343.1	86.78	39.0	25.0
17.1	24.1	8346.0	412.5	358.1	86.80	41.0	25.0
17.1	25.2	8296.0	429.6	372.9	86.81	42.9	25.0
17.0	26.2	8245.0	447.1	387.9	86.77	44.9	25.0
17.0	27.2	8201.0	461.9	400.6	86.73	46.6	25.0
17.0	28.2	8149.0	479.3	415.5	86.69	48.7	25.0
17.0	29.1	8106.0	494.2	427.7	86.56	50.4	25.0
16.9	30.2	8058.0	510.8	441.6	86.46	52.3	25.0
16.9	31.2	8010.0	527.9	454.9	86.17	54.2	25.0
16.9	32.2	7961.0	543.0	468.3	86.24	56.2	25.0
16.8	33.2	7911.0	559.7	481.3	85.99	58.1	25.0
16.8	34.2	7864.0	575.3	493.9	85.86	60.0	25.0
16.8	35.3	7815.0	592.1	506.9	85.61	61.9	26.0
16.8	36.1	7771.0	606.0	518.0	85.47	63.6	26.0
16.7	37.3	7717.0	624.4	531.7	85.16	65.8	26.0
16.7	38.2	7674.0	638.0	541.8	84.92	67.4	26.0
16.7	39.2	7624.0	654.3	554.0	84.66	69.4	26.0
16.7	40.2	7577.0	669.2	564.9	84.41	71.2	26.0
16.6	41.3	7522.0	687.3	578.0	84.10	73.4	26.0
16.6	42.3	7474.0	702.5	588.7	83.80	75.2	26.0
16.6	43.2	7431.0	715.8	597.7	83.51	76.8	26.0
16.5	44.4	7374.0	733.9	610.3	83.15	79.0	26.0
16.5	45.3	7329.0	747.9	619.6	82.85	80.7	26.0
16.5	45.8	7297.0	756.8	625.1	82.60	81.8	26.0
16.5	46.7	7254.0	769.3	633.2	82.31	83.4	26.0
16.4	48.3	7178.0	794.5	649.2	81.71	86.4	26.0
16.4	48.7	7154.0	799.8	652.4	81.57	87.1	26.0
16.4	50.2	7081.0	823.2	666.4	80.96	89.9	26.0

Dateiname : ''
Datum : 01.03.2005 12:03:56

Bezeichnung : Orbit 30/14 (HP 355/30/B14 P10)
Seriennummer : 01
Prüfnummer : 151104
Besonderes : future 32.55

Versuchsaufbau

Messparameter

Grundlast : 17 %
Hebelarmlänge : 120 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]
18.8	9.9	9720.0	185.5	147.1	79.28	14.4	26.0
18.7	10.8	9669.0	203.0	163.9	80.74	16.2	26.0
18.7	11.9	9595.0	223.3	183.5	82.20	18.3	26.0
18.7	13.1	9529.0	244.0	203.6	83.43	20.4	26.0
18.6	14.0	9473.0	261.0	219.6	84.16	22.1	26.0
18.6	15.1	9413.0	280.3	238.1	84.95	24.2	26.0
18.5	16.1	9359.0	297.9	254.6	85.47	26.0	26.0
18.5	17.1	9305.0	315.9	271.3	85.88	27.8	26.0
18.5	18.1	9248.0	335.0	289.1	86.30	29.9	26.0
18.4	19.0	9202.0	350.5	303.3	86.53	31.5	26.0
18.4	20.1	9146.0	369.6	320.7	86.76	33.5	26.0
18.4	21.1	9095.0	387.4	336.6	86.89	35.3	26.0
18.3	22.2	9040.0	406.5	353.6	86.99	37.4	26.0
18.3	23.1	8992.0	423.3	368.4	87.03	39.1	26.0
18.3	24.2	8936.0	443.2	386.0	87.09	41.2	26.0
18.3	25.2	8890.0	459.1	399.9	87.11	43.0	26.0
18.2	26.1	8843.0	475.8	414.2	87.05	44.7	26.0
18.2	27.1	8792.0	493.3	429.6	87.08	46.7	26.0
18.2	28.2	8741.0	511.8	445.1	86.97	48.6	26.0
18.1	29.1	8694.0	528.4	459.4	86.94	50.5	26.0
18.1	30.2	8640.0	547.1	475.2	86.87	52.5	26.0
18.1	31.2	8593.0	564.1	489.5	86.77	54.4	26.0
18.1	32.1	8545.0	580.3	502.9	86.66	56.2	26.0
18.0	33.3	8492.0	599.4	518.1	86.43	58.3	26.0
18.0	34.2	8444.0	616.0	531.4	86.27	60.1	26.0
18.0	35.2	8395.0	633.0	544.9	86.08	62.0	26.0
17.9	36.2	8345.0	649.9	558.3	85.90	63.9	26.0
17.9	37.2	8297.0	666.5	570.9	85.66	65.7	26.0
17.9	38.2	8247.0	683.3	584.0	85.46	67.6	26.0
17.9	39.2	8196.0	700.6	597.2	85.24	69.6	26.0
17.8	40.4	8142.0	719.4	611.0	84.94	71.7	26.0
17.8	41.1	8102.0	732.0	620.3	84.75	73.1	26.0
17.8	42.3	8045.0	751.8	634.4	84.38	75.3	26.0
17.7	43.0	8000.0	762.4	645.1	84.61	77.0	26.0
17.7	44.2	7949.0	783.0	656.5	83.84	78.9	26.0
17.7	45.2	7898.0	799.6	668.0	83.55	80.8	26.0
17.7	45.8	7867.0	808.6	674.1	83.37	81.8	26.0
17.6	47.2	7796.0	832.4	690.5	82.95	84.6	26.0
17.6	47.7	7768.0	840.0	694.8	82.72	85.4	26.0
17.6	48.6	7721.0	854.2	704.1	82.43	87.1	27.0
17.5	50.4	7633.0	884.9	723.5	81.76	90.5	27.0

Dateiname : ''
Datum : 01.03.2005 12:04:08

Bezeichnung : Orbit 30/14 (HP 355/30/B14 P10)
Seriennummer : 01
Prüfnummer : 151104
Besonderes : future 32.55

Versuchsaufbau

Messparameter

Grundlast : 22 %
Hebelarmlänge : 120 mm
Waagezelle : 50 N
Dämpfungsfaktor: 5
Regelzeit : 150 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]
21.1	10.1	10867.0	212.3	166.9	78.62	14.7	27.0
21.0	11.0	10800.0	231.0	184.8	80.01	16.3	27.0
21.0	12.0	10735.0	250.6	203.8	81.33	18.1	27.0
20.9	13.0	10670.0	272.1	225.0	82.69	20.1	27.0
20.9	14.0	10607.0	292.8	244.7	83.57	22.0	27.0
20.8	15.1	10544.0	314.4	265.9	84.59	24.1	27.0
20.8	15.9	10494.0	330.9	281.4	85.03	25.6	27.0
20.8	17.1	10425.0	355.2	304.3	85.67	27.9	27.0
20.7	17.9	10379.0	371.1	318.9	85.94	29.3	27.0
20.7	19.0	10319.0	392.2	338.4	86.30	31.3	27.0
20.7	19.9	10264.0	411.6	355.7	86.43	33.1	27.0
20.6	21.2	10196.0	436.6	378.2	86.64	35.4	27.0
20.6	22.2	10141.0	456.3	396.6	86.92	37.3	27.0
20.6	23.2	10084.0	476.7	414.8	87.01	39.3	27.0
20.5	23.8	10049.0	488.9	425.1	86.94	40.4	27.0
20.5	24.8	9996.0	507.6	441.5	86.98	42.2	27.0
20.5	25.9	9936.0	529.6	460.7	86.99	44.3	27.0
20.4	26.8	9885.0	548.1	476.6	86.97	46.0	27.0
20.4	28.4	9804.0	578.8	502.4	86.80	48.9	27.0
20.4	29.2	9759.0	595.1	516.3	86.75	50.5	27.0
20.3	30.2	9708.0	613.9	529.7	86.28	52.1	27.0
20.3	30.7	9677.0	623.8	537.4	86.14	53.0	27.0
20.3	32.2	9601.0	652.3	560.1	85.85	55.7	27.0
20.2	33.3	9556.0	673.6	577.7	85.76	57.7	27.0
20.2	33.9	9509.0	685.4	586.6	85.59	58.9	27.0
20.2	34.7	9466.0	700.2	598.7	85.50	60.4	27.0
20.1	35.7	9413.0	718.5	612.7	85.28	62.2	27.0
20.1	36.6	9361.0	736.5	627.2	85.16	64.0	27.0
20.1	37.5	9310.0	753.5	640.2	84.97	65.7	27.0
20.0	39.2	9219.0	784.6	665.0	84.75	68.9	27.0
20.0	39.7	9190.0	794.7	667.8	84.04	69.4	27.0
20.0	40.4	9147.0	808.0	678.7	84.00	70.9	27.0
19.9	41.9	9070.0	835.8	702.8	84.08	74.0	27.0
19.9	43.4	8990.0	863.3	723.5	83.80	76.8	27.0
19.9	43.7	8967.0	869.7	727.7	83.68	77.5	27.0
19.9	44.5	8921.0	884.2	738.0	83.46	79.0	27.0
19.8	45.5	8865.0	902.2	751.1	83.25	80.9	27.0
19.8	47.4	8766.0	937.2	774.6	82.65	84.4	27.0
19.7	48.4	8712.0	955.0	786.6	82.37	86.2	27.0
19.7	48.6	8690.0	959.1	786.9	82.05	86.5	27.0
19.7	49.4	8641.0	974.1	797.7	81.89	88.2	27.0

Dateiname : ''
Datum : 01.03.2005 12:04:16

Bezeichnung : Orbit 30/14 (HP 355/30/B14 P10)
Seriennummer : 01
Prüfnummer : 151104
Besonderes : future 32.55

Versuchsaufbau

Messparameter

Grundlast : 22 %
Hebelarmlänge : 120 mm
Waagezelle : 50 N
Dämpfungsfaktor: 5
Regelzeit : 150 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]
23.6	10.0	12153.0	235.8	183.6	77.83	14.4	26.0
23.6	10.9	12086.0	256.3	204.3	79.71	16.1	26.0
23.5	12.0	12008.0	282.0	229.2	81.29	18.2	26.0
23.5	13.0	11939.0	305.7	251.9	82.39	20.1	26.0
23.4	14.0	11872.0	327.8	273.5	83.41	22.0	26.0
23.4	15.1	11803.0	352.4	296.5	84.14	24.0	26.0
23.3	16.1	11738.0	376.0	318.8	84.78	25.9	26.0
23.3	17.1	11676.0	398.4	339.8	85.30	27.8	26.0
23.2	18.2	11613.0	422.0	361.3	85.62	29.7	26.0
23.2	19.2	11553.0	444.3	382.5	86.10	31.6	26.0
23.2	20.1	11497.0	465.4	401.2	86.21	33.3	26.0
23.1	20.9	11449.0	482.7	417.4	86.46	34.8	26.0
23.1	22.0	11387.0	506.8	439.3	86.67	36.8	26.0
23.1	22.9	11333.0	527.5	458.3	86.88	38.6	26.0
23.0	23.8	11278.0	548.1	477.6	87.13	40.4	26.0
23.0	24.9	11218.0	571.3	498.5	87.25	42.4	26.0
22.9	25.8	11163.0	592.7	518.0	87.40	44.3	26.0
22.9	26.8	11105.0	615.1	538.4	87.52	46.3	26.0
22.9	27.8	11051.0	635.9	556.9	87.57	48.1	26.0
22.8	29.2	10976.0	665.9	582.6	87.49	50.7	26.0
22.8	30.2	10921.0	688.5	601.9	87.42	52.6	26.0
22.8	31.2	10861.0	710.6	620.7	87.35	54.6	26.0
22.7	31.8	10825.0	723.3	631.0	87.25	55.7	27.0
22.7	33.3	10745.0	755.5	658.3	87.12	58.5	27.0
22.6	34.3	10690.0	776.1	675.6	87.04	60.3	27.0
22.6	35.3	10635.0	798.2	693.2	86.84	62.2	27.0
22.6	35.8	10602.0	809.2	701.7	86.72	63.2	27.0
22.6	36.6	10556.0	825.7	715.4	86.64	64.7	27.0
22.5	37.6	10498.0	847.4	733.6	86.58	66.7	27.0
22.5	38.7	10440.0	869.3	751.6	86.46	68.7	27.0
22.4	39.8	10375.0	893.8	770.9	86.25	71.0	27.0
22.4	40.6	10326.0	911.2	784.7	86.12	72.6	27.0
22.4	41.7	10268.0	932.4	801.0	85.91	74.5	27.0
22.3	42.7	10210.0	953.4	816.6	85.66	76.4	27.0
22.3	43.8	10147.0	976.9	834.3	85.40	78.5	27.0
22.3	45.4	10059.0	1010.9	859.8	85.06	81.6	27.0
22.2	45.8	10029.0	1019.2	865.1	84.87	82.4	27.0
22.2	46.5	9983.0	1032.6	875.8	84.81	83.8	27.0
22.2	47.5	9927.0	1053.8	889.9	84.45	85.6	27.0
22.1	48.8	9856.0	1080.5	908.0	84.03	88.0	27.0
22.1	50.4	9774.0	1111.7	929.5	83.61	90.8	27.0

Dateiname : ''
Datum : 01.03.2005 12:04:26

Bezeichnung : Orbit 30/14 (HP 355/30/B14 P10)
Seriennummer : 01
Prüfnummer : 151104
Besonderes : future 32.55

Versuchsaufbau

Grundlast : 22 %
Hebelarmlänge : 120 mm
Waagezelle : 50 N
Dämpfungsfaktor: 5
Regelzeit : 150 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]
24.8	10.1	12741.0	249.3	199.0	79.83	14.9	27.0
24.7	11.0	12662.0	272.0	220.9	81.20	16.7	27.0
24.7	11.9	12597.0	294.4	242.7	82.44	18.4	27.0
24.6	12.9	12529.0	318.2	265.3	83.38	20.2	27.0
24.6	14.0	12455.0	344.8	291.4	84.52	22.3	27.0
24.5	15.2	12380.0	372.0	317.2	85.26	24.5	27.0
24.5	16.0	12324.0	392.3	336.4	85.75	26.1	27.0
24.4	17.1	12257.0	417.3	360.4	86.38	28.1	27.0
24.4	18.0	12196.0	440.2	381.8	86.72	29.9	27.0
24.4	19.1	12132.0	464.6	404.8	87.12	31.9	27.0
24.3	19.9	12081.0	484.1	423.0	87.36	33.4	27.0
24.3	21.0	12016.0	509.0	445.7	87.56	35.4	27.0
24.2	21.9	11959.0	531.3	466.3	87.77	37.2	27.0
24.2	22.8	11902.0	553.0	486.1	87.89	39.0	27.0
24.2	23.9	11839.0	577.5	507.6	87.90	40.9	27.0
24.1	25.2	11762.0	608.2	535.9	88.12	43.5	27.0
24.1	25.8	11723.0	622.8	549.2	88.19	44.7	27.0
24.1	26.9	11664.0	646.1	568.9	88.05	46.6	27.0
24.0	28.3	11584.0	678.4	597.6	88.09	49.3	27.0
24.0	29.2	11530.0	699.2	615.1	87.97	50.9	27.0
23.9	30.3	11468.0	725.1	637.7	87.94	53.1	27.0
23.9	31.3	11408.0	747.2	656.4	87.85	54.9	27.0
23.9	31.8	11373.0	759.5	667.0	87.82	56.0	27.0
23.8	32.9	11312.0	783.6	687.6	87.75	58.0	27.0
23.8	33.7	11262.0	802.3	702.9	87.62	59.6	27.0
23.8	34.7	11205.0	824.3	721.9	87.57	61.5	27.0
23.7	35.6	11150.0	845.2	739.1	87.45	63.3	27.0
23.7	36.7	11087.0	870.1	758.9	87.22	65.4	27.0
23.7	37.8	11026.0	892.8	776.9	87.01	67.3	27.0
23.6	38.7	10969.0	914.8	794.9	86.90	69.2	27.0
23.6	39.7	10916.0	935.4	811.1	86.71	71.0	27.0
23.5	40.6	10861.0	955.5	827.1	86.56	72.7	27.0
23.5	41.5	10803.0	976.3	842.9	86.33	74.5	27.0
23.4	43.5	10692.0	1020.1	874.8	85.76	78.1	27.0
23.4	44.2	10648.0	1036.2	885.3	85.44	79.4	27.0
23.4	45.2	10588.0	1057.9	901.3	85.20	81.3	27.0
23.4	45.7	10555.0	1067.9	911.4	85.34	82.5	27.0
23.3	47.3	10462.0	1102.9	936.3	84.90	85.5	27.0
23.3	48.2	10409.0	1121.4	947.0	84.45	86.9	27.0
23.2	49.3	10341.0	1146.2	965.3	84.22	89.1	28.0
23.2	50.3	10282.0	1167.2	979.8	83.94	91.0	28.0

Dateiname : ''
Datum : 01.03.2005 12:04:34

Bezeichnung : Orbit 30/14 (HP 355/30/B14 P10)
Seriennummer : 01
Prüfnummer : 151104
Besonderes : future 32.55

Versuchsaufbau

Messparameter

Grundlast : 22 %
Hebelarmlänge : 120 mm
Waagezelle : 50 N
Dämpfungsfaktor: 5
Regelzeit : 150 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]
27.3	9.9	14011.0	271.4	208.1	76.68	14.2	27.0
27.2	11.0	13928.0	298.2	234.5	78.65	16.1	27.0
27.2	12.0	13846.0	325.5	261.2	80.24	18.0	27.0
27.1	13.0	13767.0	353.5	288.6	81.63	20.0	27.0
27.1	13.9	13703.0	376.4	310.3	82.44	21.6	27.0
27.0	14.9	13631.0	402.4	335.9	83.47	23.5	27.0
27.0	16.1	13550.0	433.4	365.2	84.27	25.7	27.0
26.9	17.1	13482.0	459.3	389.8	84.88	27.6	27.0
26.9	18.1	13414.0	485.4	414.7	85.43	29.5	27.0
26.8	19.1	13347.0	511.9	438.9	85.74	31.4	27.0
26.8	20.1	13278.0	539.1	464.9	86.22	33.4	27.0
26.7	21.2	13213.0	565.8	490.0	86.60	35.4	27.0
26.7	22.1	13152.0	589.8	511.9	86.79	37.2	27.0
26.6	23.2	13083.0	618.3	537.8	86.97	39.3	27.0
26.6	24.1	13025.0	641.9	559.4	87.15	41.0	27.0
26.6	25.1	12965.0	666.5	581.8	87.30	42.9	27.0
26.5	26.3	12892.0	696.9	609.3	87.43	45.1	27.0
26.5	27.2	12838.0	718.9	629.2	87.52	46.8	27.0
26.4	28.2	12769.0	745.3	652.8	87.58	48.8	27.0
26.4	28.6	12741.0	754.4	660.6	87.57	49.5	27.0
26.4	29.9	12668.0	787.8	689.6	87.53	52.0	27.0
26.3	30.8	12614.0	810.4	709.2	87.51	53.7	27.0
26.3	31.8	12554.0	834.9	731.2	87.58	55.6	27.0
26.2	32.8	12489.0	861.6	754.3	87.54	57.7	27.0
26.2	33.7	12433.0	884.0	773.2	87.47	59.4	28.0
26.2	34.8	12367.0	911.1	796.0	87.37	61.5	28.0
26.1	35.8	12305.0	935.9	816.4	87.24	63.4	28.0
26.1	36.7	12252.0	957.3	834.3	87.16	65.0	28.0
26.1	37.7	12192.0	981.1	853.8	87.03	66.9	28.0
26.0	38.7	12129.0	1006.6	874.6	86.88	68.9	28.0
26.0	39.6	12076.0	1027.6	891.4	86.75	70.5	28.0
25.9	41.3	11973.0	1070.7	926.2	86.51	73.9	28.0
25.9	42.3	11914.0	1093.7	944.9	86.39	75.7	28.0
25.8	43.4	11849.0	1120.1	964.7	86.13	77.7	28.0
25.8	44.3	11791.0	1142.5	981.9	85.94	79.5	28.0
25.8	44.7	11764.0	1151.3	988.4	85.85	80.2	28.0
25.7	45.5	11709.0	1171.4	1003.1	85.63	81.8	28.0
25.7	46.5	11648.0	1194.1	1019.5	85.38	83.6	28.0
25.7	47.6	11582.0	1221.3	1038.9	85.06	85.7	28.0
25.6	49.5	11472.0	1265.8	1072.3	84.71	89.3	28.0
25.6	50.2	11419.0	1283.9	1084.8	84.50	90.7	28.0



Dateiname : ''
Datum : 01.03.2005 12:04:48

Bezeichnung : Orbit 30/14 (HP 355/30/B14 P10)
Seriennummer : 01
Prüfnummer : 151104
Besonderes : future 32.55

Versuchsaufbau

Grundlast : 22 %
Hebelarmlänge : 120 mm
Waagezelle : 50 N
Dämpfungsfaktor: 5
Regelzeit : 150 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]
28.6	10.1	14649.0	288.0	220.9	76.70	14.4	26.0
28.5	11.0	14572.0	313.0	245.2	78.33	16.1	26.0
28.5	12.0	14494.0	341.4	272.7	79.86	18.0	26.0
28.4	13.1	14414.0	371.7	302.1	81.28	20.0	26.0
28.4	14.1	14341.0	399.1	328.5	82.31	21.9	27.0
28.3	15.1	14270.0	427.1	355.6	83.26	23.8	27.0
28.3	15.8	14216.0	448.3	375.9	83.85	25.2	27.0
28.2	17.0	14136.0	480.8	406.4	84.54	27.5	27.0
28.2	18.1	14063.0	510.4	433.7	84.97	29.4	27.0
28.1	19.0	14000.0	535.8	458.3	85.53	31.3	27.0
28.1	20.1	13930.0	565.8	487.2	86.10	33.4	27.0
28.0	21.2	13860.0	594.1	513.6	86.46	35.4	27.0
28.0	22.2	13794.0	621.7	539.4	86.76	37.3	27.0
28.0	23.0	13741.0	643.3	559.8	87.02	38.9	27.0
27.9	24.1	13670.0	673.5	588.2	87.33	41.1	27.0
27.9	25.2	13603.0	702.0	613.7	87.42	43.1	27.0
27.8	26.2	13541.0	728.8	637.4	87.46	45.0	27.0
27.8	27.1	13479.0	754.4	660.6	87.56	46.8	27.0
27.8	28.2	13413.0	782.7	685.8	87.63	48.8	27.0
27.7	29.3	13347.0	810.9	710.6	87.64	50.8	27.0
27.7	30.2	13289.0	835.2	732.3	87.68	52.6	27.0
27.6	31.2	13226.0	862.4	755.6	87.61	54.6	27.0
27.6	32.2	13164.0	888.7	778.2	87.56	56.4	27.0
27.6	33.2	13103.0	914.1	799.9	87.51	58.3	27.0
27.5	34.2	13038.0	942.1	823.3	87.39	60.3	27.0
27.5	35.3	12975.0	968.5	845.7	87.33	62.2	27.0
27.4	36.2	12918.0	992.9	866.2	87.24	64.0	27.0
27.4	37.2	12854.0	1019.5	889.1	87.20	66.0	27.0
27.4	37.8	12817.0	1034.7	901.0	87.08	67.1	27.0
27.3	39.4	12721.0	1076.9	935.0	86.83	70.2	27.0
27.3	39.8	12702.0	1085.4	941.9	86.78	70.8	27.0
27.2	40.7	12638.0	1108.9	960.3	86.60	72.6	27.0
27.2	41.6	12580.0	1132.9	977.8	86.31	74.2	27.0
27.1	43.4	12476.0	1177.1	1012.6	86.03	77.5	27.0
27.1	44.2	12418.0	1199.1	1029.5	85.85	79.2	27.0
27.1	44.6	12387.0	1208.9	1035.1	85.63	79.8	27.0
27.0	45.6	12330.0	1231.7	1052.7	85.47	81.5	27.0
27.0	46.7	12257.0	1261.5	1074.8	85.20	83.7	27.0
27.0	47.5	12204.0	1280.9	1088.4	84.97	85.2	27.0
26.9	48.6	12135.0	1308.3	1111.1	84.92	87.4	27.0
26.9	49.6	12076.0	1331.4	1125.8	84.56	89.0	27.0

Dateiname : ''
Datum : 01.03.2005 12:04:58

Bezeichnung : Orbit 30/14 (HP 355/30/B14 P10)
Seriennummer : 01
Prüfnummer : 151104
Besonderes : future 32.55

Versuchsaufbau

Messparameter

Grundlast : 22 %
Hebelarmlänge : 120 mm
Waagezelle : 50 N
Dämpfungsfaktor: 5
Regelzeit : 150 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]
31.1	10.2	15893.0	317.8	239.3	75.29	14.4	27.0
31.0	11.0	15796.0	342.1	264.4	77.29	16.0	27.0
30.9	12.0	15711.0	370.6	292.0	78.79	17.7	27.0
30.8	12.9	15635.0	397.0	317.7	80.03	19.4	27.0
30.8	13.9	15550.0	428.5	347.6	81.13	21.3	27.0
30.7	15.0	15464.0	461.1	379.7	82.36	23.4	27.0
30.6	16.0	15385.0	491.8	410.1	83.38	25.5	27.0
30.6	17.0	15309.0	521.5	438.4	84.07	27.3	27.0
30.5	17.8	15251.0	545.2	461.3	84.61	28.9	27.0
30.5	19.1	15164.0	581.1	495.4	85.26	31.2	27.0
30.4	20.1	15089.0	612.7	525.2	85.72	33.2	27.0
30.4	21.2	15015.0	643.0	553.4	86.07	35.2	27.0
30.3	22.1	14950.0	670.3	579.2	86.41	37.0	27.0
30.3	23.0	14885.0	698.4	605.3	86.67	38.8	27.0
30.3	24.1	14814.0	728.5	633.7	86.99	40.8	27.0
30.2	24.9	14756.0	752.9	655.5	87.07	42.4	27.0
30.2	25.9	14689.0	781.6	681.7	87.21	44.3	27.0
30.1	26.9	14625.0	809.1	706.5	87.31	46.1	27.0
30.1	27.8	14561.0	837.1	732.5	87.50	48.0	27.0
30.0	29.2	14469.0	877.6	768.6	87.58	50.7	27.0
30.0	29.8	14427.0	895.2	784.3	87.61	51.9	27.0
29.9	31.4	14335.0	938.9	821.6	87.51	54.7	27.0
29.9	31.8	14296.0	951.8	833.0	87.52	55.6	27.0
29.8	33.3	14205.0	993.2	869.3	87.52	58.4	27.0
29.8	34.2	14145.0	1018.7	890.2	87.38	60.1	27.0
29.8	35.2	14077.0	1049.0	915.8	87.30	62.1	27.0
29.7	36.3	14010.0	1078.1	939.8	87.17	64.1	27.0
29.7	37.3	13948.0	1105.6	963.1	87.11	65.9	27.0
29.6	37.8	13908.0	1120.8	977.0	87.17	67.1	27.0
29.6	38.7	13849.0	1145.6	999.3	87.23	68.9	27.0
29.6	39.8	13780.0	1175.5	1023.2	87.05	70.9	27.0
29.5	40.7	13721.0	1200.5	1044.2	86.98	72.7	27.0
29.5	41.8	13652.0	1231.0	1068.8	86.83	74.8	27.0
29.4	42.8	13585.0	1258.6	1091.0	86.69	76.7	27.0
29.4	43.7	13523.0	1283.8	1111.0	86.54	78.5	28.0
29.3	45.5	13415.0	1332.8	1150.0	86.29	81.9	28.0
29.3	46.2	13362.0	1354.0	1166.0	86.11	83.3	28.0
29.3	46.8	13323.0	1367.6	1175.8	85.97	84.3	28.0
29.2	48.4	13220.0	1413.4	1211.6	85.72	87.5	28.0
29.2	49.3	13163.0	1436.6	1228.0	85.48	89.1	28.0
29.1	50.3	13097.0	1463.9	1247.4	85.21	90.9	28.0

Dateiname : ''
Datum : 01.03.2005 12:05:08

Bezeichnung : Orbit 30/14 (HP 355/30/B14 P10)
Seriennummer : 01
Prüfnummer : 151104
Besonderes : future 32.55

Versuchsaufbau

Messparameter

Grundlast : 22 %
Hebelarmlänge : 120 mm
Waagezelle : 50 N
Dämpfungsfaktor: 5
Regelzeit : 150 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]
33.5	10.1	17114.0	337.3	247.1	73.26	13.8	27.0
33.4	11.1	17021.0	369.6	279.6	75.63	15.7	27.0
33.4	12.0	16939.0	399.6	309.9	77.56	17.5	27.0
33.3	13.0	16855.0	431.1	340.8	79.05	19.3	27.0
33.2	14.0	16770.0	463.5	372.4	80.33	21.2	27.0
33.2	14.9	16693.0	494.2	402.3	81.41	23.0	27.0
33.1	16.1	16601.0	531.7	438.7	82.52	25.2	27.0
33.0	17.0	16523.0	563.5	469.7	83.35	27.1	27.0
33.0	18.0	16450.0	593.6	498.0	83.89	28.9	27.0
32.9	19.1	16380.0	628.6	531.3	84.52	31.0	27.0
32.9	20.1	16294.0	660.8	561.9	85.03	32.9	27.0
32.8	21.0	16224.0	691.0	590.2	85.41	34.7	27.0
32.8	22.1	16148.0	724.4	621.8	85.83	36.8	27.0
32.7	23.1	16077.0	755.7	650.7	86.11	38.7	27.0
32.7	24.0	16010.0	784.5	677.6	86.38	40.4	27.0
32.6	25.2	15925.0	823.3	712.8	86.58	42.7	27.0
32.6	26.1	15863.0	851.5	738.4	86.71	44.4	27.0
32.5	27.2	15786.0	886.3	770.9	86.98	46.6	27.0
32.5	28.1	15726.0	913.1	795.2	87.09	48.3	27.0
32.5	29.2	15653.0	946.5	824.8	87.14	50.3	27.0
32.4	29.9	15601.0	969.7	845.9	87.24	51.8	27.0
32.4	31.2	15515.0	1009.1	881.1	87.31	54.2	27.0
32.3	32.2	15442.0	1042.2	910.1	87.32	56.3	27.0
32.3	33.2	15377.0	1072.1	936.8	87.38	58.2	27.0
32.2	34.3	15305.0	1105.3	965.1	87.32	60.2	27.0
32.2	34.9	15263.0	1123.5	980.5	87.27	61.3	27.0
32.1	36.3	15172.0	1166.4	1017.0	87.19	64.0	27.0
32.1	37.3	15104.0	1197.4	1043.9	87.18	66.0	27.0
32.0	38.2	15046.0	1222.9	1065.4	87.12	67.6	27.0
32.0	39.3	14970.0	1258.3	1095.2	87.04	69.9	27.0
32.0	40.4	14907.0	1289.3	1118.9	86.79	71.7	27.0
31.9	41.4	14833.0	1320.4	1146.9	86.86	73.8	27.0
31.9	42.2	14778.0	1343.9	1166.4	86.79	75.4	27.0
31.8	42.7	14739.0	1359.2	1178.5	86.71	76.4	27.0
31.8	43.8	14666.0	1391.8	1204.8	86.56	78.4	27.0
31.7	44.8	14599.0	1421.5	1227.5	86.35	80.3	27.0
31.7	45.8	14532.0	1450.2	1250.0	86.20	82.1	27.0
31.6	47.4	14428.0	1499.0	1288.2	85.94	85.3	27.0
31.6	48.2	14375.0	1520.9	1304.6	85.78	86.7	27.0
31.5	49.4	14294.0	1557.5	1333.0	85.59	89.1	27.0
31.5	50.3	14231.0	1584.7	1352.3	85.34	90.7	28.0