

```

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

```



Dateiname : ''
Datum : 08.03.2005 16:04:26

Bezeichnung : Orbit 20/18 (HP 355/20/B18 P10)
Seriennummer : 0205
Prüfnummer : 240205
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]
11.5	10.0	6834.0	114.2	94.5	82.79	13.2	24.0
11.4	11.0	6770.0	125.2	104.9	83.79	14.8	24.0
11.4	11.9	6712.0	135.7	114.7	84.52	16.3	24.0
11.4	13.0	6650.0	147.7	125.5	84.98	18.0	24.0
11.4	13.9	6593.0	158.4	135.4	85.44	19.6	24.0
11.3	15.0	6529.0	170.5	146.1	85.69	21.4	24.0
11.3	16.0	6472.0	181.7	156.2	85.93	23.0	24.0
11.3	17.0	6417.0	192.1	165.1	85.93	24.6	24.0
11.3	18.0	6358.0	203.6	175.0	85.96	26.3	24.0
11.3	19.0	6302.0	214.5	184.1	85.83	27.9	24.0
11.2	20.1	6241.0	226.3	193.8	85.67	29.7	24.0
11.2	21.1	6189.0	236.3	202.0	85.49	31.2	24.0
11.2	22.0	6138.0	246.2	210.2	85.38	32.7	24.0
11.2	23.0	6082.0	257.1	218.7	85.08	34.3	24.0
11.2	24.1	6019.0	269.5	228.2	84.70	36.2	24.0
11.1	25.0	5969.0	278.8	235.5	84.45	37.7	24.0
11.1	26.1	5911.0	290.1	243.8	84.02	39.4	24.0
11.1	27.1	5856.0	300.6	251.6	83.68	41.0	24.0
11.1	28.1	5800.0	311.2	258.9	83.19	42.6	24.0
11.1	29.2	5741.0	322.7	266.9	82.71	44.4	24.0
11.1	30.1	5689.0	332.2	273.3	82.27	45.9	24.0
11.0	30.8	5644.0	340.4	278.7	81.89	47.2	24.0
11.0	32.1	5574.0	353.7	287.1	81.19	49.2	24.0
11.0	33.1	5518.0	364.3	293.5	80.55	50.8	24.0
11.0	33.6	5483.0	369.6	296.9	80.31	51.7	24.0
11.0	34.9	5413.0	382.7	304.3	79.53	53.7	24.0
10.9	36.2	5338.0	396.5	311.9	78.67	55.8	24.0
10.9	37.2	5284.0	405.9	317.0	78.10	57.3	24.0
10.9	38.0	5234.0	414.2	321.5	77.62	58.7	24.0
10.9	39.0	5175.0	424.4	326.4	76.90	60.2	24.0
10.9	40.0	5111.0	435.0	331.4	76.18	61.9	24.0

Dateiname : ''
Datum : 08.03.2005 16:04:46

Bezeichnung : Orbit 20/18 (HP 355/20/B18 P10)
Seriennummer : 0205
Prüfnummer : 240205
Besonderes : future 32.55K

Versuchsaufbau

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

Messparameter

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]
12.6	10.0	7521.0	126.2	106.7	84.58	13.5	24.0
12.6	11.0	7457.0	138.2	117.8	85.22	15.1	24.0
12.6	11.9	7397.0	149.9	128.7	85.88	16.6	24.0
12.6	12.9	7337.0	162.1	139.9	86.30	18.2	24.0
12.5	14.0	7273.0	174.9	151.5	86.62	19.9	24.0
12.5	14.8	7221.0	185.5	161.2	86.86	21.3	24.0
12.5	16.1	7144.0	201.5	175.1	86.90	23.4	24.0
12.5	16.8	7103.0	209.7	182.4	86.96	24.5	24.0
12.4	18.0	7032.0	224.5	195.1	86.90	26.5	24.0
12.4	19.0	6976.0	236.3	205.1	86.79	28.1	24.0
12.4	20.1	6917.0	248.8	215.6	86.63	29.8	24.0
12.4	21.0	6860.0	260.5	225.3	86.49	31.4	24.0
12.4	22.0	6803.0	272.5	235.0	86.23	33.0	24.0
12.3	23.0	6748.0	284.2	244.6	86.04	34.6	24.0
12.3	24.0	6691.0	296.0	253.8	85.74	36.2	24.0
12.3	25.0	6634.0	308.0	262.9	85.38	37.8	24.0
12.3	26.0	6580.0	319.2	271.7	85.13	39.4	24.0
12.3	27.1	6518.0	332.0	281.3	84.71	41.2	24.0
12.2	28.1	6461.0	343.7	289.8	84.31	42.8	24.0
12.2	28.8	6419.0	352.2	296.0	84.06	44.0	24.0
12.2	29.5	6377.0	360.5	302.1	83.79	45.2	24.0
12.2	31.2	6283.0	380.4	315.4	82.91	47.9	24.0
12.2	32.1	6230.0	390.8	322.4	82.50	49.4	24.0
12.2	33.1	6172.0	402.1	329.8	82.02	51.0	24.0
12.1	34.2	6107.0	415.5	337.9	81.33	52.8	24.0
12.1	35.1	6056.0	424.9	343.6	80.88	54.2	24.0
12.1	35.8	6010.0	433.3	348.7	80.47	55.4	24.0
12.1	37.0	5937.0	447.6	357.1	79.78	57.4	24.0
12.1	38.0	5876.0	459.0	363.7	79.23	59.1	24.0
12.0	39.1	5814.0	470.7	369.9	78.58	60.8	24.0
12.0	40.1	5754.0	481.8	375.4	77.92	62.3	24.0

```

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

```



```

Dateiname      : ''
Datum          : 08.03.2005 16:05:02

Bezeichnung    : Orbit 20/18 (HP 355/20/B18 P10)
Seriennummer   : 0205
Prüfnummer     : 240205
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]
15.2	9.8	9090.0	149.0	125.9	84.54	13.2	22.0
15.2	11.0	9004.0	166.9	142.8	85.58	15.2	22.0
15.1	12.0	8936.0	181.3	156.5	86.34	16.7	22.0
15.1	13.0	8869.0	195.8	170.3	86.98	18.3	22.0
15.1	13.9	8808.0	209.2	182.8	87.39	19.8	22.0
15.1	14.8	8742.0	223.5	196.4	87.87	21.5	22.0
15.0	16.0	8669.0	239.9	211.3	88.06	23.3	22.0
15.0	16.8	8612.0	252.9	223.0	88.20	24.7	22.0
15.0	18.0	8541.0	269.0	237.6	88.32	26.6	22.0
15.0	19.0	8478.0	283.4	250.5	88.39	28.2	22.0
14.9	20.0	8413.0	298.3	263.5	88.35	29.9	22.0
14.9	21.1	8346.0	314.0	276.9	88.20	31.7	22.0
14.9	22.1	8284.0	328.5	289.3	88.09	33.4	22.0
14.9	23.0	8223.0	342.4	301.1	87.94	35.0	22.0
14.8	24.1	8161.0	356.8	313.0	87.72	36.6	22.0
14.8	25.1	8099.0	371.2	324.7	87.48	38.3	22.0
14.8	26.1	8037.0	385.4	336.2	87.23	39.9	22.0
14.8	27.0	7980.0	398.5	345.9	86.78	41.4	22.0
14.7	28.1	7915.0	413.8	358.1	86.54	43.2	22.0
14.7	29.0	7860.0	426.6	367.9	86.24	44.7	22.0
14.7	30.1	7792.0	442.1	379.8	85.91	46.5	22.0
14.7	31.1	7728.0	456.8	390.6	85.52	48.3	22.0
14.6	32.0	7672.0	469.5	399.6	85.12	49.7	22.0
14.6	33.2	7600.0	485.8	411.4	84.69	51.7	22.0
14.6	34.2	7541.0	498.7	420.2	84.26	53.2	22.0
14.6	35.1	7481.0	511.9	429.0	83.79	54.8	22.0
14.6	36.1	7421.0	525.0	437.7	83.37	56.3	22.0
14.5	36.6	7381.0	533.1	443.2	83.13	57.3	22.0
14.5	38.2	7287.0	554.7	456.8	82.35	59.9	22.0
14.5	38.7	7251.0	561.5	460.6	82.03	60.7	22.0
14.5	40.1	7163.0	580.9	471.7	81.20	62.9	22.0



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

Bezeichnung : Orbit 20/18 (HP 355/20/B18 P10)
Seriennummer : 0205
Prüfnummer : 240205
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]
17.7	9.9	10551.0	175.1	151.3	86.42	13.7	22.0
17.7	11.0	10461.0	194.4	169.5	87.22	15.5	22.0
17.6	12.0	10388.0	210.5	184.8	87.77	17.0	22.0
17.6	12.9	10315.0	227.2	200.3	88.18	18.5	22.0
17.6	13.9	10241.0	244.6	216.8	88.64	20.2	22.0
17.5	14.9	10169.0	261.2	232.1	88.87	21.8	22.0
17.5	15.8	10103.0	277.0	246.9	89.11	23.3	22.0
17.5	16.8	10038.0	293.0	261.2	89.17	24.9	22.0
17.4	17.9	9961.0	312.1	278.6	89.25	26.7	22.0
17.4	18.9	9893.0	329.2	294.1	89.35	28.4	22.0
17.4	20.1	9814.0	349.6	312.3	89.33	30.4	22.0
17.3	21.2	9747.0	367.1	327.5	89.21	32.1	22.0
17.3	22.1	9687.0	382.1	340.9	89.21	33.6	22.0
17.3	22.8	9642.0	393.6	350.9	89.15	34.8	22.0
17.3	24.0	9560.0	415.0	368.9	88.88	36.8	22.0
17.2	25.2	9485.0	433.8	384.9	88.72	38.7	22.0
17.2	26.0	9428.0	448.3	397.0	88.56	40.2	22.0
17.2	27.2	9356.0	466.7	412.3	88.34	42.1	22.0
17.2	28.1	9292.0	482.8	425.4	88.10	43.7	22.0
17.1	29.2	9223.0	500.3	438.9	87.74	45.4	22.0
17.1	30.2	9158.0	516.5	451.6	87.44	47.1	22.0
17.1	31.0	9103.0	530.0	462.2	87.21	48.5	22.0
17.1	32.2	9027.0	548.9	476.3	86.77	50.4	22.0
17.0	33.1	8965.0	563.8	487.8	86.52	52.0	22.0
17.0	34.1	8903.0	579.4	498.8	86.08	53.5	22.0
17.0	35.1	8836.0	595.5	510.4	85.70	55.2	22.0
17.0	35.6	8795.0	604.4	516.9	85.52	56.1	22.0
16.9	37.1	8701.0	628.0	532.8	84.84	58.5	22.0
16.9	38.2	8627.0	645.8	544.4	84.30	60.3	22.0
16.9	39.2	8556.0	662.5	555.1	83.78	62.0	22.0
16.9	40.1	8493.0	676.5	564.1	83.38	63.4	22.0



Dateiname : ''
Datum : 08.03.2005 16:05:33

Bezeichnung : Orbit 20/18 (HP 355/20/B18 P10)
Seriennummer : 0205
Prüfnummer : 240205
Besonderes : future 32.55K

Versuchsaufbau

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

Messparameter

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]
18.9	9.9	11269.0	187.3	155.6	83.08	13.2	22.0
18.9	10.9	11181.0	205.9	173.5	84.25	14.8	22.0
18.8	12.0	11093.0	226.1	192.7	85.23	16.6	23.0
18.8	13.0	11018.0	243.5	210.1	86.27	18.2	23.0
18.8	14.0	10941.0	261.8	228.0	87.07	19.9	23.0
18.7	14.9	10869.0	279.3	244.3	87.48	21.5	23.0
18.7	15.9	10794.0	297.5	260.9	87.70	23.1	23.0
18.7	16.8	10727.0	314.2	276.1	87.89	24.6	23.0
18.6	17.8	10656.0	331.7	292.2	88.07	26.2	23.0
18.6	19.0	10574.0	352.9	311.4	88.25	28.1	23.0
18.6	19.8	10517.0	367.4	324.3	88.25	29.4	23.0
18.5	20.9	10438.0	387.5	342.2	88.30	31.3	23.0
18.5	22.0	10367.0	406.3	358.6	88.27	33.0	23.0
18.5	23.0	10298.0	424.4	374.1	88.16	34.7	23.0
18.4	24.0	10227.0	442.8	390.2	88.12	36.4	23.0
18.4	25.0	10161.0	459.9	405.0	88.07	38.1	23.0
18.4	26.0	10093.0	477.8	419.7	87.84	39.7	23.0
18.4	27.0	10022.0	496.5	435.5	87.72	41.5	23.0
18.3	28.0	9956.0	514.1	450.2	87.58	43.2	23.0
18.3	29.1	9884.0	532.8	466.5	87.54	45.1	23.0
18.3	30.0	9825.0	548.3	478.9	87.34	46.5	23.0
18.3	30.9	9767.0	563.5	490.5	87.04	48.0	23.0
18.2	32.2	9675.0	586.0	508.0	86.69	50.1	23.0
18.2	33.0	9623.0	601.2	519.4	86.41	51.5	23.0
18.2	34.2	9548.0	620.6	533.9	86.04	53.4	23.0
18.1	35.0	9487.0	635.3	544.5	85.70	54.8	23.0
18.1	36.0	9422.0	651.3	555.7	85.32	56.3	23.0
18.1	37.0	9346.0	670.1	568.6	84.84	58.1	23.0
18.1	38.2	9270.0	689.1	581.1	84.33	59.9	23.0
18.0	39.1	9204.0	705.5	591.3	83.82	61.4	23.0
18.0	40.1	9129.0	722.7	602.8	83.41	63.1	23.0

```

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

```



```

Dateiname      : ''
Datum          : 08.03.2005 16:05:55

Bezeichnung    : Orbit 20/18 (HP 355/20/B18 P10)
Seriennummer   : 0205
Prüfnummer    : 240205
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]
21.3	9.8	12699.0	209.0	169.7	81.20	12.8	23.0
21.3	11.0	12588.0	233.0	193.1	82.89	14.7	23.0
21.2	11.9	12501.0	252.2	212.0	84.06	16.2	23.0
21.2	12.8	12412.0	272.1	230.9	84.86	17.8	23.0
21.1	14.0	12311.0	295.2	253.4	85.84	19.7	23.0
21.1	14.9	12226.0	314.3	271.9	86.50	21.2	23.0
21.0	15.9	12145.0	333.8	290.4	87.02	22.8	23.0
21.0	16.9	12062.0	353.8	309.1	87.38	24.5	23.0
20.9	17.9	11992.0	374.8	328.6	87.68	26.2	23.0
20.9	18.8	11932.0	392.9	345.3	87.89	27.6	23.0
20.9	19.8	11859.0	413.0	363.5	88.01	29.3	23.0
20.9	20.8	11786.0	433.2	382.0	88.17	30.9	23.0
20.8	21.8	11707.0	453.9	400.4	88.23	32.7	23.0
20.8	22.8	11628.0	475.1	418.9	88.18	34.4	23.0
20.8	23.7	11563.0	492.9	434.5	88.15	35.9	23.0
20.7	24.9	11481.0	515.4	453.8	88.05	37.7	23.0
20.7	25.7	11423.0	531.1	468.1	88.14	39.1	23.0
20.7	26.9	11333.0	556.6	489.9	88.02	41.3	23.0
20.6	27.6	11281.0	570.1	501.7	87.99	42.5	23.0
20.6	28.9	11193.0	594.6	522.4	87.85	44.6	23.0
20.6	30.0	11107.0	617.2	540.9	87.64	46.5	23.0
20.5	30.6	11065.0	628.7	550.6	87.59	47.5	23.0
20.5	32.0	10967.0	656.4	573.2	87.32	49.9	23.0
20.5	32.7	10919.0	668.8	582.9	87.17	51.0	23.0
20.4	33.9	10838.0	692.4	601.2	86.84	53.0	23.0
20.4	35.0	10757.0	713.3	616.9	86.48	54.8	23.0
20.4	35.9	10688.0	732.0	631.3	86.24	56.4	23.0
20.4	36.9	10614.0	751.5	645.8	85.94	58.1	23.0
20.3	38.0	10540.0	771.3	659.8	85.54	59.8	23.0
20.3	39.1	10457.0	793.1	674.9	85.10	61.6	23.0
20.3	40.0	10390.0	810.3	686.5	84.72	63.1	23.0



Dateiname : ''
Datum : 08.03.2005 16:06:23

Bezeichnung : Orbit 20/18 (HP 355/20/B18 P10)
Seriennummer : 0205
Prüfnummer : 240205
Besonderes : future 32.55K

Versuchsaufbau

Messparameter

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

Strom von : 10 A bis : 45 A
Schrittweite : 1.0 A
Reglerausgang : 100 %

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
23.7	9.9	14074.0	234.3	191.4	81.67	13.0	23.0
23.7	10.9	13977.0	258.4	212.6	82.27	14.5	23.0
23.6	12.0	13885.0	282.5	235.8	83.48	16.2	23.0
23.6	12.9	13801.0	304.2	256.7	84.39	17.8	23.0
23.5	13.9	13716.0	326.7	278.3	85.18	19.4	23.0
23.5	15.0	13623.0	352.1	302.7	85.95	21.2	23.0
23.5	16.0	13539.0	375.5	324.5	86.43	22.9	23.0
23.4	17.0	13458.0	397.6	345.8	86.96	24.5	23.0
23.4	17.9	13385.0	418.5	365.7	87.37	26.1	23.0
23.3	19.0	13300.0	442.6	389.3	87.95	27.9	23.0
23.3	19.9	13225.0	464.3	409.2	88.14	29.6	23.0
23.3	20.9	13146.0	486.9	430.0	88.31	31.2	23.0
23.2	22.0	13061.0	510.1	451.4	88.48	33.0	23.0
23.2	22.9	12983.0	531.0	470.0	88.51	34.6	23.0
23.2	23.7	12926.0	548.6	485.7	88.53	35.9	23.0
23.1	24.8	12841.0	572.8	507.7	88.64	37.8	23.0
23.1	25.7	12769.0	593.4	525.6	88.57	39.3	23.0
23.1	26.6	12694.0	614.1	544.2	88.61	40.9	23.0
23.0	27.6	12619.0	635.9	563.2	88.56	42.6	23.0
23.0	28.8	12526.0	661.4	584.7	88.40	44.6	23.0
22.9	29.9	12437.0	685.3	604.4	88.19	46.4	23.0
22.9	31.0	12357.0	708.2	624.4	88.16	48.3	23.0
22.8	31.9	12285.0	728.3	640.1	87.89	49.8	23.0
22.8	33.0	12202.0	751.5	658.9	87.68	51.6	23.0
22.8	33.9	12130.0	772.3	674.9	87.38	53.1	23.0
22.7	35.0	12048.0	795.3	692.5	87.07	54.9	23.0
22.7	35.6	12002.0	807.9	701.8	86.87	55.8	23.0
22.7	36.9	11901.0	836.4	723.9	86.55	58.1	23.0
22.6	37.9	11823.0	857.8	739.3	86.19	59.7	23.0
22.6	39.0	11735.0	881.6	756.8	85.84	61.6	23.0
22.6	40.3	11646.0	909.3	776.4	85.39	63.7	23.0
22.6	41.1	11596.0	927.8	790.2	85.17	65.1	23.0
22.5	42.0	11526.0	946.3	802.8	84.83	66.5	23.0
22.5	43.2	11436.0	971.0	819.4	84.38	68.4	23.0
22.5	44.1	11357.0	991.8	832.9	83.98	70.0	23.0
22.4	45.2	11274.0	1014.2	847.4	83.55	71.8	23.0



Dateiname : ''
Datum : 08.03.2005 16:06:43

Bezeichnung : Orbit 20/18 (HP 355/20/B18 P10)
Seriennummer : 0205
Prüfnummer : 240205
Besonderes : future 32.55K

Versuchsaufbau

Messparameter

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

Strom von : 10 A bis : 45 A
Schrittweite : 1.0 A
Reglerausgang : 100 %

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
25.0	9.9	14837.0	247.2	192.1	77.73	12.4	23.0
24.9	11.2	14709.0	278.9	223.3	80.05	14.5	23.0
24.9	12.0	14624.0	299.3	243.5	81.36	15.9	23.0
24.8	12.9	14538.0	320.6	264.4	82.50	17.4	23.0
24.8	14.0	14432.0	348.3	291.4	83.67	19.3	23.0
24.7	15.0	14343.0	371.9	313.9	84.40	20.9	23.0
24.7	16.0	14255.0	394.4	335.3	85.03	22.5	23.0
24.6	17.0	14166.0	417.8	357.4	85.54	24.1	23.0
24.6	18.0	14074.0	441.8	379.6	85.93	25.8	23.0
24.6	18.9	13990.0	464.3	400.3	86.21	27.3	23.0
24.5	19.9	13901.0	488.4	422.5	86.50	29.0	23.0
24.5	20.9	13814.0	511.7	443.9	86.74	30.7	23.0
24.4	21.8	13750.0	531.6	462.5	86.99	32.1	23.0
24.4	22.7	13677.0	553.1	481.8	87.11	33.6	23.0
24.4	23.7	13593.0	578.0	505.1	87.38	35.5	23.0
24.3	24.6	13520.0	599.4	525.4	87.66	37.1	23.0
24.3	26.2	13397.0	636.1	557.7	87.67	39.8	23.0
24.2	26.7	13354.0	648.2	568.1	87.65	40.6	23.0
24.2	27.8	13270.0	674.1	590.8	87.64	42.5	23.0
24.2	28.6	13213.0	691.8	605.6	87.54	43.8	23.0
24.1	29.8	13119.0	720.8	630.0	87.40	45.9	23.0
24.1	30.6	13059.0	738.4	644.5	87.28	47.1	23.0
24.1	31.8	12967.0	766.4	667.8	87.13	49.2	23.0
24.0	33.1	12868.0	795.2	691.1	86.91	51.3	23.0
24.0	33.6	12823.0	808.2	701.2	86.76	52.2	23.0
24.0	34.8	12734.0	835.0	722.3	86.50	54.2	23.0
23.9	35.8	12656.0	858.0	739.9	86.24	55.8	23.0
23.9	36.9	12567.0	882.9	760.1	86.09	57.8	23.0
23.9	37.9	12492.0	905.3	775.7	85.69	59.3	23.0
23.8	39.0	12410.0	928.9	793.9	85.46	61.1	23.0
23.8	40.0	12327.0	952.2	810.2	85.09	62.8	23.0
23.8	40.9	12254.0	972.4	824.1	84.75	64.2	23.0
23.7	42.1	12161.0	998.8	842.3	84.33	66.1	23.0
23.7	43.2	12074.0	1023.0	859.0	83.97	67.9	23.0
23.7	43.6	12034.0	1032.7	865.2	83.78	68.7	23.0
23.6	45.0	11926.0	1064.6	885.4	83.17	70.9	23.0



Dateiname : ''
Datum : 08.03.2005 16:06:58

Bezeichnung : Orbit 20/18 (HP 355/20/B18 P10)
Seriennummer : 0205
Prüfnummer : 240205
Besonderes : future 32.55K

Versuchsaufbau

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

Messparameter

Strom von : 10 A bis : 45 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	16188.0	269.3	208.7	77.52	12.3	23.0
27.2	11.2	16035.0	303.9	242.5	79.79	14.4	23.0
27.2	11.9	15961.0	324.2	262.3	80.92	15.7	23.0
27.1	12.9	15870.0	350.0	287.7	82.18	17.3	23.0
27.1	13.8	15779.0	374.7	311.9	83.25	18.9	23.0
27.0	15.0	15670.0	405.0	340.9	84.15	20.8	23.0
27.0	15.9	15586.0	429.4	363.7	84.71	22.3	23.0
27.0	16.9	15500.0	455.2	387.9	85.21	23.9	23.0
26.9	17.8	15422.0	479.2	410.3	85.61	25.4	23.0
26.9	18.9	15325.0	508.7	437.3	85.98	27.3	23.0
26.8	20.0	15236.0	535.6	462.5	86.35	29.0	23.0
26.8	20.8	15164.0	557.5	484.5	86.90	30.5	23.0
26.8	21.8	15080.0	583.3	508.0	87.08	32.2	23.0
26.7	22.7	15004.0	607.4	529.9	87.24	33.7	23.0
26.7	23.8	14908.0	636.1	556.0	87.41	35.6	23.0
26.7	24.7	14837.0	658.3	575.9	87.48	37.1	23.0
26.6	25.6	14757.0	683.3	597.8	87.48	38.7	23.0
26.6	26.6	14676.0	708.2	619.6	87.49	40.3	23.0
26.6	27.9	14571.0	740.4	647.5	87.45	42.4	23.0
26.5	28.6	14509.0	759.5	663.9	87.42	43.7	23.0
26.5	29.6	14427.0	785.5	686.0	87.34	45.4	23.0
26.4	30.8	14332.0	815.2	710.8	87.19	47.4	23.0
26.4	31.6	14274.0	833.6	725.7	87.06	48.6	23.0
26.4	32.5	14191.0	858.1	746.3	86.97	50.2	23.0
26.3	33.9	14080.0	891.8	773.2	86.70	52.4	23.0
26.3	34.9	13990.0	918.7	794.5	86.48	54.2	23.0
26.3	35.6	13937.0	934.5	807.4	86.39	55.3	23.0
26.2	36.9	13832.0	966.7	831.9	86.05	57.4	23.0
26.2	37.6	13766.0	985.8	846.2	85.83	58.7	23.0
26.2	38.8	13666.0	1015.8	868.4	85.49	60.7	23.0
26.1	39.6	13602.0	1033.8	881.6	85.28	61.9	23.0
26.1	40.5	13528.0	1056.3	898.4	85.06	63.4	23.0
26.0	41.8	13417.0	1089.5	922.6	84.68	65.7	23.0
26.0	42.8	13329.0	1113.8	939.8	84.38	67.3	23.0
26.0	43.8	13245.0	1137.5	956.1	84.06	68.9	23.0
25.9	44.9	13149.0	1164.9	974.0	83.61	70.7	23.0



Dateiname : ''
Datum : 08.03.2005 16:07:12

Bezeichnung : Orbit 20/18 (HP 355/20/B18 P10)
Seriennummer : 0205
Prüfnummer : 240205
Besonderes : future 32.55K

Versuchsaufbau

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

Messparameter

Strom von : 10 A bis : 45 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	9.8	17638.0	292.7	220.6	75.39	11.9	24.0
29.7	11.1	17488.0	330.2	257.4	77.97	14.1	24.0
29.7	12.0	17389.0	355.7	283.5	79.70	15.6	24.0
29.6	13.0	17288.0	383.9	311.8	81.21	17.2	24.0
29.6	13.9	17189.0	411.6	339.4	82.47	18.9	24.0
29.5	14.8	17094.0	438.5	367.4	83.80	20.5	24.0
29.5	15.9	16994.0	468.1	396.8	84.76	22.3	24.0
29.4	16.8	16901.0	495.5	423.3	85.43	23.9	24.0
29.4	18.0	16790.0	528.7	455.2	86.10	25.9	24.0
29.3	19.0	16692.0	557.8	482.7	86.53	27.6	24.0
29.3	19.9	16606.0	584.0	507.0	86.82	29.2	24.0
29.3	21.0	16509.0	613.2	534.0	87.09	30.9	24.0
29.2	21.9	16424.0	639.8	558.6	87.30	32.5	24.0
29.2	22.9	16332.0	668.6	585.4	87.56	34.2	24.0
29.1	23.9	16247.0	695.4	610.1	87.74	35.9	24.0
29.1	24.8	16163.0	722.4	635.0	87.90	37.5	24.0
29.1	25.8	16080.0	749.1	659.0	87.98	39.1	24.0
29.0	26.7	15997.0	775.7	682.3	87.96	40.7	24.0
29.0	27.7	15912.0	803.4	706.8	87.98	42.4	24.0
28.9	28.6	15835.0	827.6	728.7	88.05	43.9	24.0
28.9	29.6	15754.0	854.9	751.5	87.91	45.6	24.0
28.9	30.6	15668.0	882.6	775.1	87.82	47.2	24.0
28.8	31.5	15589.0	908.6	797.0	87.72	48.8	24.0
28.8	32.6	15494.0	939.5	822.3	87.53	50.7	24.0
28.8	33.6	15408.0	966.6	844.1	87.33	52.3	24.0
28.7	34.6	15328.0	992.1	864.9	87.18	53.9	24.0
28.7	35.8	15222.0	1026.3	892.5	86.97	56.0	24.0
28.6	36.8	15133.0	1054.0	914.5	86.77	57.7	24.0
28.6	37.5	15076.0	1072.0	928.6	86.63	58.8	24.0
28.5	39.4	14917.0	1122.5	967.4	86.19	61.9	24.0
28.5	39.8	14870.0	1135.8	976.7	85.99	62.7	24.0
28.5	40.6	14807.0	1155.7	991.6	85.80	63.9	24.0
28.4	42.0	14691.0	1193.3	1019.1	85.40	66.2	24.0
28.4	42.6	14635.0	1208.5	1029.8	85.22	67.2	24.0
28.4	43.9	14521.0	1244.3	1055.0	84.78	69.4	24.0
28.3	44.8	14438.0	1268.1	1071.7	84.51	70.9	24.0