



Dateiname : ''
Datum : 09.03.2005 15:16:27

Bezeichnung : Orbit 30/12 (HP 355/30/B12 P10)
Seriennummer : 01
Prüfnummer : 090205
Besonderes : future 18.129f

Versuchsaufbau	Messparameter
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Grundlast : 5 %	Strom von : 10 A bis : 50 A
Hebelarmlänge : 65 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]
10.2	9.7	6454.0	99.7	77.3	77.49	11.4	23.0
10.2	10.9	6397.0	111.7	88.8	79.52	13.3	23.0
10.2	11.9	6354.0	121.5	98.0	80.68	14.7	23.0
10.2	12.9	6312.0	131.3	107.2	81.67	16.2	23.0
10.2	14.0	6266.0	142.1	117.4	82.63	17.9	23.0
10.1	15.0	6225.0	152.0	126.5	83.23	19.4	23.0
10.1	16.0	6184.0	161.9	135.5	83.72	20.9	23.0
10.1	17.0	6144.0	171.6	144.4	84.13	22.4	23.0
10.1	18.1	6101.0	182.1	153.9	84.56	24.1	23.0
10.1	18.9	6066.0	190.4	161.4	84.76	25.4	23.0
10.0	20.0	6024.0	200.9	170.7	84.98	27.1	23.0
10.0	21.1	5983.0	211.2	179.9	85.17	28.7	23.0
10.0	22.1	5942.0	221.5	188.8	85.24	30.3	23.0
10.0	23.1	5903.0	231.1	197.1	85.28	31.9	23.0
10.0	23.9	5871.0	238.8	203.8	85.33	33.1	23.0
10.0	25.2	5826.0	250.5	213.6	85.28	35.0	23.0
9.9	26.1	5788.0	259.6	221.3	85.24	36.5	23.0
9.9	27.2	5746.0	270.3	230.1	85.11	38.2	23.0
9.9	28.1	5713.0	278.5	236.8	85.05	39.6	23.0
9.9	29.2	5673.0	288.6	244.9	84.85	41.2	23.0
9.9	30.1	5640.0	296.8	251.5	84.72	42.6	23.0
9.9	31.1	5602.0	306.4	259.1	84.56	44.2	23.0
9.8	32.3	5557.0	317.7	267.9	84.33	46.0	23.0
9.8	33.2	5521.0	326.4	274.7	84.16	47.5	23.0
9.8	34.0	5491.0	333.7	280.1	83.95	48.7	23.0
9.8	35.3	5444.0	345.5	288.9	83.63	50.7	23.0
9.8	36.1	5413.0	352.9	294.4	83.43	51.9	23.0
9.8	37.3	5369.0	364.2	302.6	83.10	53.8	23.0
9.7	37.8	5349.0	368.5	305.5	82.91	54.5	23.0
9.7	39.0	5304.0	379.4	313.3	82.58	56.4	23.0
9.7	39.7	5279.0	385.5	317.5	82.36	57.4	23.0
9.7	41.3	5224.0	400.0	327.0	81.75	59.8	23.0
9.7	42.0	5193.0	406.4	331.6	81.60	61.0	23.0
9.7	43.2	5149.0	416.9	338.6	81.22	62.8	23.0
9.6	44.2	5112.0	426.1	344.6	80.88	64.4	23.0
9.6	44.8	5086.0	431.8	348.1	80.60	65.4	23.0
9.6	46.1	5037.0	443.5	355.4	80.12	67.4	23.0
9.6	47.2	4996.0	453.0	361.1	79.71	69.0	23.0
9.6	48.1	4960.0	461.2	365.9	79.35	70.5	23.0
9.6	49.2	4922.0	470.1	371.0	78.92	72.0	23.0
9.5	50.3	4878.0	480.0	376.6	78.45	73.7	23.0

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Dateiname       : ''
Datum           : 09.03.2005 15:18:15

Bezeichnung     : Orbit 30/12 (HP 355/30/B12 P10)
Seriennummer   : 01
Prüfnummer     : 090205
Besonderes     : future 18.129f

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Versuchsaufbau                               Messparameter
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Grundlast      : 5 %                          Strom von : 10 A bis : 50 A
Hebelarmlänge : 65 mm                       Schrittweite : 1.0 A
Waagezelle     : 50 N                        Reglerausgang : 100 %
Dämpfungsfaktor : 5
Regelzeit      : 100 ms

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Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
12.8	9.9	8064.0	127.2	101.4	79.72	12.0	23.0
12.8	11.0	8012.0	140.1	113.8	81.21	13.6	23.0
12.8	11.9	7965.0	152.0	125.2	82.35	15.0	23.0
12.7	12.9	7917.0	164.6	137.2	83.35	16.5	23.0
12.7	13.9	7871.0	176.9	148.7	84.05	18.0	23.0
12.7	15.0	7821.0	190.6	161.7	84.83	19.7	23.0
12.7	16.0	7773.0	203.3	173.5	85.35	21.3	23.0
12.7	17.1	7727.0	216.3	185.5	85.78	22.9	23.0
12.6	18.0	7686.0	227.4	195.8	86.10	24.3	23.0
12.6	19.0	7641.0	239.8	207.2	86.39	25.9	23.0
12.6	20.0	7598.0	251.6	218.0	86.63	27.4	23.0
12.6	21.0	7552.0	264.5	229.7	86.82	29.0	23.0
12.6	22.1	7508.0	277.2	240.9	86.89	30.6	23.0
12.5	23.1	7464.0	289.3	251.7	87.00	32.2	23.0
12.5	24.1	7421.0	301.3	262.3	87.03	33.7	23.0
12.5	25.2	7374.0	314.8	274.1	87.06	35.5	23.0
12.5	25.8	7348.0	321.6	280.2	87.12	36.4	23.0
12.5	27.0	7297.0	336.2	292.7	87.06	38.3	23.0
12.4	28.2	7248.0	350.5	304.8	86.96	40.2	23.0
12.4	29.1	7210.0	361.1	313.7	86.89	41.6	23.0
12.4	30.1	7168.0	372.8	323.4	86.76	43.1	23.0
12.4	31.1	7127.0	384.7	333.3	86.63	44.7	23.0
12.4	32.2	7080.0	398.1	344.2	86.46	46.4	23.0
12.3	33.2	7040.0	409.4	353.4	86.32	47.9	23.0
12.3	34.2	7000.0	420.9	362.5	86.12	49.4	23.0
12.3	35.2	6958.0	433.0	372.1	85.93	51.1	23.0
12.3	36.1	6921.0	443.2	380.2	85.79	52.5	23.0
12.3	37.3	6872.0	457.3	391.1	85.52	54.3	23.0
12.2	38.2	6832.0	468.3	399.5	85.32	55.8	23.0
12.2	38.7	6810.0	473.9	403.6	85.17	56.6	23.0
12.2	40.2	6753.0	490.5	415.9	84.79	58.8	23.0
12.2	41.2	6713.0	501.5	424.1	84.56	60.3	23.0
12.2	42.3	6668.0	514.3	433.2	84.22	62.0	23.0
12.2	43.1	6634.0	523.3	439.8	84.04	63.3	23.0
12.1	44.1	6591.0	535.1	448.0	83.73	64.9	23.0
12.1	45.1	6549.0	546.7	456.1	83.42	66.5	23.0
12.1	46.1	6508.0	557.5	463.4	83.13	68.0	23.0
12.1	46.9	6474.0	566.7	469.6	82.87	69.3	23.0
12.1	47.8	6437.0	576.4	475.9	82.57	70.6	23.0
12.0	49.2	6381.0	591.7	486.1	82.15	72.7	23.0
12.0	50.2	6337.0	603.6	493.7	81.79	74.4	23.0



Dateiname : ''
Datum : 09.03.2005 15:18:33

Bezeichnung : Orbit 30/12 (HP 355/30/B12 P10)
Seriennummer : 01
Prüfnummer : 121004
Besonderes : future 18.129f

Versuchsaufbau

Messparameter

Grundlast : 5 %
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]
15.3	9.9	9685.0	150.5	113.3	75.29	11.2	26.0
15.2	10.9	9624.0	166.7	129.2	77.50	12.8	26.0
15.2	12.0	9565.0	182.8	145.0	79.30	14.5	26.0
15.2	13.0	9511.0	197.7	159.3	80.60	16.0	26.0
15.2	13.9	9466.0	210.4	171.9	81.68	17.3	26.0
15.1	14.9	9412.0	225.4	187.2	83.07	19.0	26.0
15.1	15.9	9361.0	240.1	200.1	83.33	20.4	26.0
15.1	17.0	9303.0	256.9	216.2	84.14	22.2	26.0
15.1	18.1	9249.0	272.6	230.8	84.67	23.8	26.0
15.0	18.8	9210.0	283.5	241.2	85.06	25.0	26.0
15.0	20.0	9152.0	300.8	256.8	85.38	26.8	26.0
15.0	21.2	9096.0	317.2	272.0	85.76	28.6	26.0
15.0	22.1	9051.0	330.6	284.2	85.99	30.0	26.0
15.0	23.0	9007.0	343.7	296.1	86.15	31.4	26.0
14.9	24.1	8953.0	360.0	310.9	86.35	33.2	26.0
14.9	25.0	8907.0	373.3	322.7	86.43	34.6	26.0
14.9	26.1	8858.0	388.1	335.8	86.53	36.2	26.0
14.9	27.0	8813.0	401.8	348.0	86.60	37.7	26.0
14.8	28.1	8765.0	416.5	360.5	86.55	39.3	26.0
14.8	29.1	8717.0	431.0	373.2	86.59	40.9	26.0
14.8	30.1	8672.0	444.7	385.0	86.57	42.4	26.0
14.8	31.2	8617.0	461.5	399.4	86.53	44.3	26.0
14.8	32.1	8576.0	473.9	409.8	86.47	45.6	26.0
14.7	33.2	8527.0	489.0	422.4	86.39	47.3	26.0
14.7	34.1	8487.0	501.2	432.4	86.26	48.6	26.0
14.7	35.1	8438.0	515.9	444.8	86.22	50.3	26.0
14.7	36.2	8388.0	531.4	457.6	86.11	52.1	26.0
14.6	37.2	8345.0	544.1	467.9	86.00	53.5	26.0
14.6	38.1	8302.0	557.1	478.2	85.84	55.0	26.0
14.6	39.1	8256.0	571.3	489.4	85.66	56.6	26.0
14.6	40.1	8210.0	584.7	499.9	85.50	58.1	26.0
14.6	41.2	8160.0	600.1	511.9	85.29	59.9	26.0
14.5	41.8	8133.0	607.6	517.6	85.18	60.8	26.0
14.5	43.3	8068.0	628.3	533.0	84.83	63.1	26.0
14.5	44.3	8020.0	641.7	543.5	84.70	64.7	26.0
14.5	45.3	7979.0	655.0	552.4	84.34	66.1	26.0
14.4	46.3	7927.0	669.0	563.1	84.17	67.8	26.0
14.4	47.3	7882.0	682.7	572.9	83.91	69.4	26.0
14.4	48.1	7843.0	693.6	580.7	83.72	70.7	26.0
14.4	49.2	7791.0	707.7	590.3	83.41	72.3	26.0
14.4	50.3	7749.0	722.2	600.1	83.10	74.0	26.0

Dateiname : ''
Datum : 09.03.2005 15:18:51

Bezeichnung : Orbit 30/12 (HP 355/30/B12 P10)
Seriennummer : 01
Prüfnummer : 070205
Besonderes : future 32.55

Versuchsaufbau

Messparameter

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Grundlast      : 20 %           Strom von : 15 A   bis : 60 A
Hebelarmlänge : 65 mm          Schrittweite : 1.0 A
Waagezelle    : 50 N           Reglerausgang : 100 %
Dämpfungsfaktor: 5
Regelzeit     : 100 ms

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Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
17.7	14.7	10757.0	261.0	213.9	81.95	19.0	24.0
17.7	15.9	10685.0	280.8	232.7	82.88	20.8	24.0
17.6	16.9	10625.0	297.9	249.0	83.58	22.4	24.0
17.6	17.9	10569.0	314.3	264.7	84.21	23.9	24.0
17.6	19.0	10508.0	333.0	282.0	84.67	25.6	24.0
17.5	20.1	10446.0	352.2	300.0	85.18	27.4	24.0
17.5	21.0	10395.0	367.6	314.0	85.43	28.8	24.0
17.5	22.0	10340.0	385.0	329.7	85.63	30.4	24.0
17.4	22.9	10294.0	399.6	343.3	85.90	31.8	24.0
17.4	24.1	10232.0	419.6	361.6	86.17	33.7	24.0
17.4	25.1	10180.0	436.2	376.1	86.20	35.3	24.0
17.4	26.0	10131.0	452.3	390.2	86.28	36.8	24.0
17.3	27.2	10071.0	472.0	407.7	86.37	38.7	24.0
17.3	27.8	10039.0	481.8	416.4	86.44	39.6	24.0
17.3	29.1	9976.0	503.4	435.2	86.46	41.7	24.0
17.3	30.3	9919.0	522.6	452.0	86.50	43.5	24.0
17.2	30.9	9886.0	532.7	460.3	86.41	44.5	24.0
17.2	32.1	9828.0	553.0	477.8	86.41	46.4	24.0
17.2	32.8	9790.0	564.1	487.1	86.35	47.5	24.0
17.2	33.8	9743.0	581.2	501.5	86.29	49.2	24.0
17.2	34.8	9699.0	596.0	513.8	86.21	50.6	24.0
17.1	35.6	9656.0	610.5	525.5	86.09	52.0	24.0
17.1	37.2	9583.0	635.9	546.3	85.90	54.4	24.0
17.1	37.7	9554.0	644.4	553.4	85.87	55.3	24.0
17.0	39.1	9487.0	667.3	571.6	85.66	57.5	24.0
17.0	40.2	9434.0	685.0	585.5	85.48	59.3	24.0
17.0	41.1	9390.0	698.7	596.1	85.31	60.6	24.0
17.0	41.7	9359.0	708.2	603.3	85.19	61.6	24.0
17.0	43.2	9287.0	732.9	622.5	84.93	64.0	24.0
16.9	44.2	9238.0	748.1	634.0	84.74	65.5	24.0
16.9	44.6	9217.0	753.5	637.9	84.66	66.1	24.0
16.9	45.5	9171.0	767.9	648.3	84.43	67.5	24.0
16.9	46.7	9110.0	787.7	663.2	84.20	69.5	24.0
16.8	48.0	9049.0	807.9	677.7	83.88	71.5	24.0
16.8	49.2	8992.0	826.1	690.7	83.62	73.4	24.0
16.8	49.7	8962.0	834.7	696.6	83.46	74.2	24.0
16.8	51.5	8879.0	862.2	716.0	83.05	77.0	24.0
16.7	52.6	8824.0	879.6	727.7	82.74	78.8	24.0
16.7	53.3	8782.0	891.1	735.2	82.51	79.9	24.0
16.7	53.8	8757.0	897.9	740.0	82.41	80.7	24.0
16.7	55.3	8684.0	920.9	755.0	81.98	83.0	24.0
16.6	56.1	8635.0	933.7	763.6	81.79	84.4	24.0
16.6	57.1	8585.0	949.1	771.9	81.33	85.9	24.0
16.6	58.3	8525.0	967.2	782.7	80.92	87.7	24.0
16.6	58.6	8502.0	972.0	785.0	80.76	88.2	24.0
16.6	59.5	8457.0	984.9	792.2	80.43	89.5	24.0



Dateiname : ''
Datum : 09.03.2005 15:19:13

Bezeichnung : Orbit 30/12 (HP 355/30/B12 P10)
Seriennummer : 01
Prüfnummer : 070205
Besonderes : future 32.55

Versuchsaufbau		Messparameter	
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Grundlast	: 20 %	Strom von	: 15 A bis : 60 A
Hebelarmlänge	: 65 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]
19.2	15.2	11624.0	291.1	243.5	83.63	20.0	24.0
19.1	16.0	11558.0	304.9	256.7	84.19	21.2	24.0
19.1	17.0	11486.0	323.2	274.0	84.79	22.8	24.0
19.0	17.8	11419.0	338.8	289.0	85.29	24.2	24.0
19.0	18.9	11342.0	358.2	307.2	85.75	25.9	24.0
18.9	19.8	11267.0	374.8	322.7	86.10	27.4	24.0
18.8	21.0	11176.0	395.3	341.8	86.45	29.2	24.0
18.8	21.9	11108.0	411.5	356.7	86.68	30.7	24.0
18.7	22.8	11047.0	427.1	370.9	86.83	32.1	24.0
18.7	23.8	10985.0	443.6	386.2	87.05	33.6	24.0
18.6	25.0	10904.0	466.2	406.4	87.17	35.6	24.0
18.6	25.9	10858.0	481.2	419.9	87.26	36.9	24.0
18.6	26.6	10829.0	494.5	431.7	87.30	38.1	24.0
18.5	28.0	10753.0	518.8	453.2	87.36	40.2	24.0
18.5	29.0	10700.0	536.7	469.0	87.37	41.9	24.0
18.5	29.9	10646.0	553.1	483.1	87.34	43.3	24.0
18.5	30.9	10593.0	569.8	497.7	87.35	44.9	24.0
18.5	31.6	10562.0	583.9	509.7	87.30	46.1	24.0
18.4	32.9	10455.0	604.0	526.5	87.17	48.1	24.0
18.3	33.6	10425.0	615.3	536.0	87.12	49.1	24.0
18.3	35.0	10343.0	639.9	556.9	87.02	51.4	24.0
18.3	36.3	10287.0	662.7	575.5	86.84	53.4	24.0
18.3	36.8	10280.0	672.4	583.4	86.76	54.2	24.0
18.3	38.1	10210.0	696.2	603.0	86.61	56.4	24.0
18.2	38.7	10183.0	706.5	611.0	86.48	57.3	24.0
18.2	40.0	10111.0	729.0	629.0	86.29	59.4	24.0
18.2	41.0	10064.0	746.3	642.6	86.10	61.0	24.0
18.1	42.1	10006.0	764.4	656.6	85.90	62.7	24.0
18.1	43.1	9949.0	780.7	669.1	85.71	64.2	24.0
18.1	44.1	9897.0	797.6	682.3	85.54	65.8	24.0
18.1	45.6	9841.0	823.0	701.3	85.21	68.1	24.0
18.0	46.5	9790.0	838.4	712.8	85.02	69.5	24.0
18.1	46.4	9793.0	838.9	713.3	85.03	69.6	24.0
18.0	48.4	9706.0	872.1	738.0	84.62	72.6	24.0
18.0	49.7	9640.0	893.5	753.2	84.29	74.6	24.0
18.0	50.2	9622.0	902.4	759.2	84.13	75.3	24.0
18.0	50.7	9589.0	909.8	765.6	84.15	76.2	24.0
17.9	52.2	9523.0	935.9	784.5	83.82	78.7	24.0
17.9	53.4	9462.0	956.7	798.6	83.47	80.6	24.0
17.9	54.3	9413.0	972.1	808.2	83.14	82.0	24.0
17.9	55.3	9360.0	987.6	817.7	82.80	83.4	24.0
17.8	55.6	9336.0	993.3	820.7	82.63	83.9	24.0
17.8	56.9	9261.0	1013.0	832.5	82.18	85.8	24.0
17.7	59.1	9142.0	1048.6	855.0	81.54	89.3	24.0
17.7	58.8	9152.0	1044.1	851.3	81.54	88.8	24.0
17.7	59.3	9123.0	1050.8	854.7	81.34	89.5	24.0



Dateiname : ''
Datum : 09.03.2005 15:19:32

Bezeichnung : Orbit 30/12 (HP 355/30/B12 P10)
Seriennummer : 01
Prüfnummer : 070205
Besonderes : future 32.55

Versuchsaufbau	Messparameter
-----	-----
Grundlast : 20 %	Strom von : 15 A bis : 60 A
Hebelarmlänge : 65 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]
21.0	14.8	12752.0	311.0	251.5	80.85	18.8	24.0
21.0	15.9	12671.0	333.0	272.7	81.89	20.6	24.0
20.9	17.0	12589.0	354.4	293.1	82.71	22.2	24.0
20.9	17.9	12517.0	373.8	311.6	83.36	23.8	24.0
20.8	18.8	12454.0	391.1	328.2	83.91	25.2	24.0
20.8	19.8	12386.0	410.1	346.1	84.38	26.7	24.0
20.7	20.8	12315.0	430.2	364.8	84.79	28.3	24.0
20.7	21.8	12235.0	451.1	384.3	85.18	30.0	24.0
20.6	22.8	12158.0	469.9	401.6	85.47	31.5	24.0
20.6	23.7	12100.0	486.2	416.6	85.68	32.9	24.0
20.5	24.9	12016.0	510.5	438.8	85.96	34.9	24.0
20.5	25.7	11965.0	526.7	453.6	86.13	36.2	24.0
20.4	27.0	11882.0	550.7	475.1	86.26	38.2	24.0
20.4	28.0	11820.0	570.2	492.7	86.40	39.8	24.0
20.3	28.7	11777.0	583.2	504.1	86.43	40.9	24.0
20.3	30.2	11685.0	612.3	529.7	86.52	43.3	24.0
20.3	31.2	11635.0	631.0	546.2	86.56	44.8	24.0
20.2	32.2	11576.0	651.6	564.2	86.58	46.5	24.0
20.2	32.7	11546.0	661.2	572.4	86.57	47.3	24.0
20.2	34.1	11471.0	687.3	594.7	86.52	49.5	24.0
20.1	35.0	11424.0	705.3	610.2	86.51	51.0	24.0
20.1	36.1	11363.0	725.6	627.1	86.43	52.7	24.0
20.1	36.6	11332.0	736.5	636.3	86.39	53.6	24.0
20.0	38.1	11246.0	764.4	659.5	86.29	56.0	24.0
20.0	38.7	11210.0	775.3	673.2	86.83	57.3	24.0
20.0	40.1	11129.0	800.8	695.3	86.83	59.7	24.0
20.1	41.0	11150.0	821.5	711.9	86.66	61.0	24.0
19.9	42.3	10999.0	841.6	726.4	86.30	63.1	24.0
19.9	43.5	10970.0	866.1	742.0	85.67	64.6	24.0
19.9	43.7	10975.0	871.5	747.3	85.75	65.0	24.0
19.9	44.9	10911.0	893.7	764.5	85.55	66.9	24.0
19.9	45.4	10875.0	902.5	770.6	85.39	67.7	24.0
19.8	47.8	10727.0	944.3	800.1	84.73	71.2	24.0
19.8	48.2	10705.0	951.5	804.9	84.59	71.8	24.0
19.7	48.6	10674.0	958.0	810.2	84.57	72.5	24.0
19.7	50.5	10566.0	993.1	835.6	84.13	75.5	24.0
19.6	50.7	10548.0	997.0	838.2	84.07	75.9	24.0
19.5	52.2	10427.0	1019.2	854.4	83.83	78.2	24.0
19.6	53.5	10398.0	1047.9	874.9	83.49	80.4	24.0
19.5	54.2	10349.0	1057.8	880.8	83.27	81.3	24.0
19.5	55.2	10268.0	1075.0	891.6	82.94	82.9	24.0
19.4	56.2	10203.0	1091.7	902.8	82.70	84.5	24.0
19.4	57.2	10141.0	1107.9	912.4	82.35	85.9	24.0
19.3	58.4	10075.0	1129.3	925.5	81.95	87.7	24.0
19.3	58.5	10052.0	1131.5	926.0	81.84	88.0	24.0
19.3	60.2	9967.0	1161.2	945.3	81.41	90.6	24.0

Dateiname : ''
Datum : 09.03.2005 15:19:48

Bezeichnung : Orbit 30/12 (HP 355/30/B12 P10)
Seriennummer : 01
Prüfnummer : 070205
Besonderes : future 32.55

Versuchsaufbau

Messparameter

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-----
Grundlast      : 20 %
Hebelarmlänge : 65 mm
Waagezelle     : 50 N
Dämpfungsfaktor : 5
Regelzeit      : 100 ms

Strom von      : 15 A bis : 60 A
Schrittweite   : 1.0 A
Reglerausgang  : 100 %

```

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
23.5	15.1	14193.0	355.3	284.8	80.17	19.2	24.0
23.5	16.1	14128.0	376.7	305.5	81.10	20.7	24.0
23.4	17.1	14054.0	399.3	327.0	81.89	22.2	24.0
23.4	17.9	13991.0	418.0	345.0	82.55	23.5	24.0
23.3	18.9	13909.0	440.6	366.8	83.24	25.2	24.0
23.2	19.9	13835.0	462.2	387.1	83.77	26.7	24.0
23.2	20.8	13773.0	481.7	405.5	84.17	28.1	24.0
23.2	21.8	13699.0	505.5	427.9	84.65	29.8	24.0
23.1	22.8	13625.0	526.7	447.6	84.98	31.4	24.0
23.1	24.0	13570.0	553.2	472.3	85.37	33.2	24.0
23.1	24.8	13516.0	570.8	488.3	85.55	34.5	24.0
23.0	25.7	13454.0	591.2	507.0	85.75	36.0	24.0
23.0	26.9	13366.0	618.1	531.6	86.00	38.0	24.0
22.9	28.0	13288.0	641.3	552.6	86.18	39.7	24.0
22.9	28.7	13239.0	656.5	566.6	86.31	40.9	24.0
22.8	30.0	13149.0	685.0	591.9	86.40	43.0	24.0
22.8	31.0	13089.0	705.5	610.3	86.51	44.5	24.0
22.7	32.0	13018.0	727.6	629.8	86.57	46.2	24.0
22.6	32.8	12934.0	742.8	643.2	86.60	47.5	24.0
22.6	33.8	12869.0	762.1	660.0	86.60	49.0	24.0
22.5	34.7	12802.0	780.8	676.5	86.64	50.5	24.0
22.5	36.0	12725.0	809.8	701.3	86.60	52.6	24.0
22.4	37.1	12660.0	831.3	719.8	86.59	54.3	24.0
22.4	38.0	12598.0	851.5	736.7	86.52	55.8	24.0
22.4	39.0	12547.0	871.3	753.3	86.45	57.3	24.0
22.4	39.7	12538.0	888.2	767.7	86.44	58.5	24.0
22.3	41.0	12450.0	916.5	791.7	86.38	60.7	24.0
22.3	42.2	12376.0	938.7	809.5	86.23	62.5	24.0
22.3	42.8	12343.0	952.7	819.7	86.04	63.4	24.0
22.2	44.0	12265.0	977.8	840.0	85.91	65.4	24.0
22.2	45.1	12198.0	999.4	857.3	85.78	67.1	24.0
22.1	45.6	12161.0	1010.4	864.4	85.56	67.9	24.0
22.1	47.3	12053.0	1043.6	891.0	85.38	70.6	24.0
22.0	47.6	12034.0	1048.5	895.3	85.39	71.0	24.0
22.0	49.2	11945.0	1083.3	915.9	84.55	73.2	24.0
22.0	50.2	11890.0	1102.4	931.9	84.53	74.8	24.0
21.9	50.7	11852.0	1113.4	938.3	84.27	75.6	24.0
21.9	52.2	11771.0	1142.0	957.1	83.81	77.6	24.0
21.9	52.6	11748.0	1150.3	963.7	83.78	78.3	24.0
21.8	54.2	11652.0	1182.1	990.0	83.75	81.1	24.0
21.8	55.1	11591.0	1199.9	1005.5	83.81	82.8	24.0
21.8	56.2	11527.0	1221.4	1017.7	83.32	84.3	24.0
21.7	57.1	11470.0	1240.6	1030.7	83.08	85.8	24.0
21.7	57.5	11440.0	1248.8	1036.7	83.01	86.5	24.0
21.7	59.3	11345.0	1285.4	1059.4	82.42	89.2	24.0
21.7	59.5	11326.0	1288.8	1061.9	82.39	89.5	24.0



Dateiname : ''
Datum : 09.03.2005 15:20:07

Bezeichnung : Orbit 30/12 (HP 355/30/B12 P10)
Seriennummer : 01
Prüfnummer : 070205
Besonderes : future 32.55

Versuchsaufbau	Messparameter
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Grundlast : 20 %	Strom von : 15 A bis : 60 A
Hebelarmlänge : 65 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]
25.3	15.0	15280.0	381.0	313.5	82.27	19.6	25.0
25.3	15.9	15211.0	402.5	329.6	81.87	20.7	25.0
25.2	17.0	15124.0	429.6	353.0	82.17	22.3	25.0
25.2	18.0	15052.0	452.7	373.2	82.45	23.7	25.0
25.1	19.0	14980.0	476.2	395.0	82.94	25.2	25.0
25.1	19.8	14937.0	496.9	414.5	83.42	26.5	25.0
25.1	21.0	14860.0	525.4	441.3	83.99	28.4	25.0
25.0	21.9	14790.0	547.4	462.3	84.45	29.8	25.0
25.0	22.8	14721.0	570.5	484.1	84.86	31.4	25.0
24.9	23.8	14654.0	592.9	504.8	85.15	32.9	25.0
24.9	24.7	14586.0	615.2	525.8	85.47	34.4	25.0
24.8	25.7	14519.0	639.5	548.4	85.75	36.1	25.0
24.8	26.9	14437.0	667.7	574.6	86.06	38.0	25.0
24.8	27.8	14376.0	688.7	594.3	86.29	39.5	25.0
24.7	28.8	14310.0	711.9	615.7	86.48	41.1	25.0
24.7	29.6	14255.0	729.9	632.5	86.67	42.4	25.0
24.6	30.9	14170.0	759.8	659.7	86.83	44.5	25.0
24.6	31.8	14111.0	780.5	678.2	86.89	45.9	25.0
24.5	33.0	14032.0	809.0	702.7	86.86	47.8	25.0
24.5	34.0	13962.0	833.5	723.8	86.83	49.5	25.0
24.4	35.1	13895.0	857.3	744.8	86.88	51.2	25.0
24.4	36.1	13833.0	880.4	764.5	86.84	52.8	25.0
24.4	36.9	13781.0	898.6	780.3	86.83	54.1	25.0
24.3	37.6	13728.0	916.0	795.4	86.83	55.3	25.0
24.3	39.0	13632.0	946.7	820.6	86.69	57.5	25.0
24.2	40.0	13569.0	970.3	839.7	86.55	59.1	25.0
24.2	41.2	13498.0	995.4	860.6	86.46	60.9	25.0
24.2	41.6	13461.0	1004.9	868.9	86.46	61.6	25.0
24.1	43.3	13355.0	1042.8	899.2	86.24	64.3	25.0
24.1	43.8	13320.0	1054.5	908.9	86.19	65.2	25.0
24.0	45.1	13243.0	1083.2	931.3	85.97	67.2	25.0
24.0	46.2	13173.0	1108.1	950.7	85.80	68.9	25.0
24.0	46.5	13152.0	1114.9	957.0	85.84	69.5	25.0
23.9	48.0	13059.0	1148.3	980.6	85.40	71.7	25.0
23.9	49.2	12988.0	1173.4	998.0	85.05	73.4	25.0
23.8	49.8	12945.0	1187.8	1010.5	85.07	74.5	25.0
23.8	51.4	12849.0	1222.0	1036.1	84.79	77.0	25.0
23.8	51.6	12828.0	1226.7	1039.5	84.74	77.4	25.0
23.7	53.1	12737.0	1259.2	1058.1	84.03	79.3	25.0
23.7	53.5	12709.0	1267.8	1066.8	84.15	80.2	25.0
23.6	55.2	12610.0	1302.6	1085.3	83.32	82.2	25.0
23.6	55.7	12575.0	1314.3	1093.8	83.23	83.1	25.0
23.5	57.2	12482.0	1346.4	1117.8	83.02	85.5	25.0
23.5	57.6	12448.0	1355.5	1128.4	83.25	86.6	25.0
23.5	59.3	12344.0	1390.9	1156.8	83.17	89.5	25.0
23.4	59.8	12305.0	1399.9	1164.2	83.17	90.4	25.0

Dateiname : ''
Datum : 09.03.2005 15:20:25

Bezeichnung : Orbit 30/12 (HP 355/30/B12 P10)
Seriennummer : 01
Prüfnummer : 121004
Besonderes : future 32.55

Versuchsaufbau

Messparameter

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-----
Grundlast      : 20 %           Strom von : 15 A   bis : 60 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]
27.7	14.8	16816.0	408.6	328.6	80.42	18.7	25.0
27.6	16.0	16714.0	442.4	361.7	81.75	20.7	25.0
27.6	17.0	16637.0	468.1	386.4	82.54	22.2	25.0
27.5	18.0	16555.0	496.2	413.6	83.35	23.9	25.0
27.5	19.0	16484.0	521.2	438.1	84.05	25.4	25.0
27.4	19.9	16415.0	545.5	461.0	84.52	26.8	25.0
27.4	21.0	16338.0	573.9	487.8	85.00	28.5	25.0
27.3	22.0	16266.0	600.5	513.7	85.55	30.2	25.0
27.3	22.9	16199.0	625.9	537.8	85.93	31.7	25.0
27.3	23.9	16132.0	650.7	561.1	86.24	33.2	25.0
27.2	24.8	16062.0	676.8	585.7	86.55	34.8	25.0
27.2	25.8	15997.0	701.7	609.1	86.80	36.4	25.0
27.2	26.8	15929.0	728.2	633.5	87.00	38.0	25.0
27.1	27.8	15867.0	753.9	655.6	86.96	39.5	25.0
27.1	28.8	15795.0	780.5	681.6	87.33	41.2	25.0
27.1	29.8	15731.0	805.9	705.1	87.49	42.8	25.0
27.0	31.1	15646.0	839.2	735.5	87.65	44.9	25.0
27.0	31.8	15602.0	856.7	750.7	87.62	45.9	25.0
27.0	32.7	15539.0	881.3	773.3	87.74	47.5	25.0
26.9	34.0	15459.0	913.8	802.5	87.82	49.6	25.0
26.9	34.8	15405.0	934.5	821.0	87.85	50.9	25.0
26.8	36.0	15327.0	966.6	849.2	87.85	52.9	25.0
26.8	37.0	15262.0	992.4	871.3	87.80	54.5	25.0
26.8	37.7	15218.0	1009.3	886.4	87.82	55.6	25.0
26.7	39.2	15127.0	1046.3	918.5	87.79	58.0	25.0
26.7	39.7	15092.0	1059.6	930.1	87.77	58.8	25.0
26.7	41.0	15009.0	1093.8	960.0	87.77	61.1	25.0
26.6	41.7	14963.0	1111.1	974.6	87.71	62.2	25.0
26.6	43.2	14875.0	1148.2	1006.2	87.63	64.6	25.0
26.6	44.1	14815.0	1170.9	1025.6	87.59	66.1	25.0
26.5	44.6	14781.0	1183.1	1035.1	87.50	66.9	25.0
26.5	46.0	14694.0	1218.6	1064.5	87.35	69.2	25.0
26.5	46.9	14636.0	1241.5	1082.7	87.21	70.6	25.0
26.4	48.1	14562.0	1271.0	1106.4	87.05	72.6	25.0
26.4	49.1	14505.0	1296.2	1127.7	87.00	74.2	25.0
26.4	49.6	14464.0	1308.6	1137.8	86.95	75.1	25.0
26.3	51.1	14377.0	1343.7	1165.8	86.76	77.4	25.0
26.3	52.1	14310.0	1368.9	1185.2	86.58	79.1	25.0
26.3	52.6	14279.0	1379.6	1193.2	86.49	79.8	25.0
26.2	54.2	14178.0	1421.0	1225.6	86.25	82.5	25.0
26.2	54.6	14148.0	1429.4	1231.9	86.18	83.1	25.0
26.1	56.2	14054.0	1467.9	1260.4	85.87	85.6	25.0
26.1	57.1	13993.0	1490.5	1277.1	85.69	87.2	25.0
26.1	58.2	13922.0	1517.6	1295.7	85.38	88.9	25.0
26.0	59.2	13859.0	1540.6	1312.1	85.17	90.4	25.0
26.0	60.2	13791.0	1565.7	1330.4	84.97	92.1	25.0

Dateiname : ''
Datum : 09.03.2005 15:20:39

Bezeichnung : Orbit 30/12 (HP 355/30/B12 P10)
Seriennummer : 01
Prüfnummer : 121004
Besonderes : future 32.55

Versuchsaufbau	Messparameter
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Grundlast : 20 %	Strom von : 15 A bis : 60 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]
28.9	15.1	17509.0	436.5	341.3	78.17	18.6	26.0
28.8	16.1	17427.0	463.4	367.7	79.34	20.1	26.0
28.8	17.0	17353.0	488.0	391.6	80.26	21.6	26.0
28.7	18.0	17266.0	518.2	421.1	81.27	23.3	26.0
28.7	19.1	17187.0	546.9	448.6	82.02	24.9	26.0
28.7	20.0	17116.0	573.1	474.0	82.72	26.4	26.0
28.6	21.0	17042.0	600.3	500.1	83.30	28.0	26.0
28.6	21.8	16979.0	623.0	522.3	83.84	29.4	26.0
28.5	23.0	16895.0	656.0	553.1	84.31	31.3	26.0
28.5	23.9	16831.0	680.8	576.8	84.72	32.7	26.0
28.5	24.9	16759.0	708.4	602.5	85.06	34.3	26.0
28.4	25.9	16689.0	735.6	628.1	85.39	35.9	26.0
28.4	26.9	16616.0	764.4	655.0	85.70	37.6	26.0
28.3	27.9	16548.0	791.7	680.2	85.92	39.3	26.0
28.3	28.8	16488.0	815.1	702.2	86.15	40.7	26.0
28.3	29.8	16419.0	842.3	727.1	86.32	42.3	26.0
28.2	30.7	16356.0	868.1	750.4	86.44	43.8	26.0
28.2	31.7	16291.0	894.1	774.0	86.57	45.4	26.0
28.2	33.0	16207.0	928.5	805.9	86.80	47.5	26.0
28.1	33.7	16157.0	948.0	823.5	86.87	48.7	26.0
28.1	35.0	16071.0	983.9	855.3	86.93	50.8	26.0
28.1	35.7	16023.0	1002.8	872.3	86.99	52.0	26.0
28.0	37.0	15936.0	1037.8	903.6	87.06	54.1	26.0
28.0	37.7	15889.0	1056.1	919.9	87.10	55.3	26.0
28.0	38.6	15833.0	1079.2	939.7	87.07	56.7	26.0
27.9	40.0	15747.0	1116.5	971.0	86.97	58.9	26.0
27.9	41.2	15670.0	1147.4	998.2	86.99	60.8	26.0
27.8	41.7	15636.0	1160.7	1009.8	86.99	61.7	26.0
27.8	43.0	15551.0	1196.1	1040.4	86.99	63.9	26.0
27.8	43.7	15505.0	1213.5	1054.9	86.93	65.0	26.0
27.7	45.2	15413.0	1252.7	1087.2	86.79	67.4	26.0
27.7	45.7	15379.0	1266.3	1097.1	86.64	68.1	26.0
27.7	47.0	15294.0	1300.8	1127.6	86.68	70.4	26.0
27.6	47.6	15254.0	1315.4	1140.2	86.68	71.4	26.0
27.6	49.1	15164.0	1353.4	1171.5	86.56	73.8	26.0
27.6	49.5	15131.0	1364.3	1181.2	86.58	74.5	26.0
27.5	51.0	15039.0	1403.6	1213.5	86.45	77.1	27.0
27.5	52.1	14970.0	1430.5	1235.6	86.37	78.8	27.0
27.4	52.6	14932.0	1444.4	1245.9	86.26	79.7	27.0
27.4	54.0	14847.0	1478.8	1272.6	86.06	81.9	27.0
27.4	54.5	14806.0	1493.1	1284.5	86.03	82.8	27.0
27.3	56.2	14705.0	1534.6	1314.6	85.66	85.4	27.0
27.3	56.4	14684.0	1541.1	1318.8	85.58	85.8	27.0
27.3	58.3	14567.0	1589.6	1353.3	85.14	88.7	27.0
27.2	58.6	14541.0	1596.3	1356.2	84.96	89.1	27.0
27.2	60.1	14446.0	1634.7	1385.3	84.74	91.6	27.0



Dateiname : ''
Datum : 09.03.2005 15:21:19

Bezeichnung : Orbit 30/12 (HP 355/30/B12 P10)
Seriennummer : 01
Prüfnummer : 121004
Besonderes : future 32.55

Versuchsaufbau

Messparameter

Grundlast : 20 %
Hebelarmlänge : 120 mm
Waagezelle : 50 N
Dämpfungsfaktor: 5
Regelzeit : 100 ms

Strom von : 15 A bis : 60 A
Schrittweite : 1.0 A
Reglerausgang : 100 %

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
31.4	14.8	19022.0	464.1	362.6	78.13	18.2	25.0
31.3	16.1	18905.0	503.2	400.5	79.60	20.2	25.0
31.3	17.0	18822.0	530.8	427.6	80.56	21.7	25.0
31.2	18.1	18732.0	563.6	459.3	81.48	23.4	25.0
31.2	18.9	18662.0	588.7	484.0	82.22	24.8	25.0
31.1	19.8	18582.0	617.7	511.4	82.78	26.3	25.0
31.1	21.0	18486.0	651.9	545.2	83.64	28.2	26.0
31.0	21.9	18416.0	679.3	571.4	84.11	29.6	26.0
31.0	23.1	18321.0	716.3	606.9	84.72	31.6	26.0
30.9	24.0	18258.0	741.4	629.6	84.91	32.9	26.0
30.9	24.9	18185.0	770.1	659.7	85.67	34.6	26.0
30.9	25.7	18122.0	794.6	680.5	85.64	35.9	26.0
30.8	26.9	18035.0	830.3	713.9	85.98	37.8	26.0
30.8	27.9	17966.0	857.7	738.5	86.10	39.3	26.0
30.7	28.8	17894.0	887.0	765.4	86.29	40.8	26.0
30.7	29.8	17825.0	915.4	792.5	86.57	42.5	26.0
30.7	30.7	17759.0	942.6	817.2	86.70	43.9	26.0
30.6	31.7	17690.0	971.4	843.8	86.87	45.6	26.0
30.6	32.8	17614.0	1002.8	872.5	87.01	47.3	26.0
30.6	33.7	17552.0	1028.8	896.4	87.13	48.8	26.0
30.5	34.7	17477.0	1059.6	924.2	87.22	50.5	26.0
30.5	35.8	17405.0	1089.9	950.8	87.24	52.2	26.0
30.4	36.7	17343.0	1116.3	974.0	87.25	53.6	26.0
30.4	37.8	17268.0	1147.9	999.7	87.09	55.3	26.0
30.4	38.7	17205.0	1174.5	1025.2	87.29	56.9	26.0
30.3	39.6	17142.0	1201.3	1049.1	87.33	58.4	26.0
30.3	41.1	17045.0	1243.1	1086.2	87.37	60.9	26.0
30.2	42.0	16971.0	1269.2	1113.2	87.71	62.6	26.0
30.2	42.8	16928.0	1291.7	1128.7	87.39	63.7	26.0
30.2	44.1	16842.0	1329.5	1160.2	87.27	65.8	26.0
30.1	44.7	16797.0	1347.2	1175.3	87.24	66.8	26.0
30.1	46.1	16704.0	1388.0	1209.7	87.15	69.2	26.0
30.0	47.2	16636.0	1416.8	1228.2	86.69	70.5	26.0
30.0	47.7	16598.0	1431.1	1244.8	86.98	71.6	26.0
30.0	49.2	16502.0	1473.2	1284.5	87.19	74.3	26.0
29.9	49.7	16463.0	1488.2	1288.2	86.57	74.7	26.0
29.9	51.1	16381.0	1527.0	1326.3	86.85	77.3	26.0
29.9	51.7	16330.0	1543.3	1339.0	86.76	78.3	26.0
29.8	53.2	16234.0	1584.8	1372.9	86.63	80.8	27.0
29.8	53.5	16203.0	1594.4	1378.9	86.48	81.3	27.0
29.7	55.2	16097.0	1640.5	1413.9	86.19	83.9	27.0
29.7	56.1	16030.0	1667.3	1439.5	86.34	85.8	27.0
29.7	56.6	15992.0	1680.8	1449.7	86.25	86.6	27.0
29.6	58.4	15883.0	1729.4	1485.0	85.86	89.3	27.0
29.6	58.3	15859.0	1726.5	1490.7	86.34	89.8	27.0
29.6	60.2	15753.0	1780.4	1523.5	85.57	92.4	27.0

Dateiname : ''
Datum : 09.03.2005 15:21:39

Bezeichnung : Orbit 30/12 (HP 355/30/B12 P10)
Seriennummer : 01
Prüfnummer : 121004
Besonderes : future 18.129f

Versuchsaufbau	Messparameter
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Grundlast : 20 %	Strom von : 15 A bis : 60 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]
34.1	15.0	20641.0	511.1	395.8	77.44	18.3	24.0
34.1	15.9	20548.0	542.5	425.8	78.48	19.8	24.0
34.0	17.1	20442.0	581.0	462.9	79.67	21.6	24.0
34.0	17.9	20364.0	609.0	489.5	80.39	23.0	24.0
33.9	19.0	20272.0	643.3	522.5	81.23	24.6	24.0
33.9	20.0	20187.0	675.8	554.3	82.02	26.2	24.0
33.8	20.8	20112.0	705.0	582.6	82.64	27.7	24.0
33.8	21.9	20026.0	739.1	615.3	83.25	29.3	24.0
33.7	23.1	19934.0	777.4	652.3	83.91	31.2	24.0
33.7	23.9	19866.0	804.4	678.5	84.35	32.6	24.0
33.6	25.0	19780.0	839.5	712.1	84.82	34.4	24.0
33.6	26.0	19696.0	874.6	745.7	85.26	36.2	24.0
33.5	26.8	19636.0	899.5	768.9	85.48	37.4	24.0
33.5	28.0	19542.0	938.3	805.0	85.79	39.3	24.0
33.4	29.1	19462.0	972.2	837.6	86.16	41.1	24.0
33.4	29.9	19398.0	997.5	860.7	86.29	42.4	24.0
33.4	30.6	19338.0	1022.4	884.6	86.51	43.7	24.0
33.3	31.9	19246.0	1064.1	923.2	86.75	45.8	24.0
33.3	33.0	19163.0	1099.3	954.8	86.86	47.6	24.0
33.2	34.1	19085.0	1133.0	985.7	87.00	49.3	24.0
33.2	34.8	19030.0	1155.4	1005.6	87.03	50.5	24.0
33.1	35.9	18949.0	1191.2	1041.8	87.45	52.5	24.0
33.1	36.8	18883.0	1219.3	1066.4	87.46	53.9	24.0
33.1	37.8	18814.0	1251.1	1093.7	87.42	55.5	24.0
33.0	39.1	18724.0	1291.2	1129.4	87.47	57.6	24.0
33.0	39.9	18666.0	1315.2	1149.4	87.39	58.8	24.0
32.9	41.1	18578.0	1354.0	1184.6	87.48	60.9	24.0
32.9	42.2	18494.0	1388.7	1212.9	87.34	62.6	24.0
32.8	43.0	18432.0	1413.4	1230.2	87.03	63.7	24.0
32.8	44.2	18354.0	1450.7	1262.3	87.01	65.7	24.0
32.7	45.8	18252.0	1499.3	1298.4	86.60	67.9	24.0
32.7	46.1	18227.0	1508.2	1309.5	86.82	68.6	24.0
32.7	47.0	18162.0	1535.4	1337.7	87.12	70.3	24.0
32.6	48.0	18093.0	1565.7	1363.5	87.08	72.0	24.0
32.6	49.0	18021.0	1596.4	1389.8	87.06	73.6	24.0
32.5	50.3	17935.0	1635.9	1422.4	86.95	75.7	24.0
32.5	51.3	17863.0	1666.6	1447.2	86.83	77.4	24.0
32.5	52.0	17808.0	1689.2	1464.7	86.70	78.5	24.0
32.4	53.2	17726.0	1726.0	1492.2	86.46	80.4	24.0
32.4	54.2	17657.0	1755.5	1518.4	86.49	82.1	24.0
32.4	54.9	17604.0	1776.5	1536.6	86.49	83.4	24.0
32.3	55.8	17542.0	1803.8	1562.5	86.62	85.1	24.0
32.3	57.3	17441.0	1847.9	1582.4	85.63	86.6	24.0
32.2	57.7	17407.0	1860.3	1587.0	85.31	87.1	24.0
32.2	59.2	17306.0	1904.7	1589.3	83.44	87.7	25.0
32.2	59.7	17264.0	1919.3	1617.8	84.29	89.5	25.0