

Dateiname : ''
Datum : 08.03.2005 15:40:30

Bezeichnung : Orbit 20/12 (HP 355/20/B12 P10)
Seriennummer : 0205
Prüfnummer : 240205
Besonderes : future 18.129F

Versuchsaufbau

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

Messparameter

Strom von : 15 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]
8.7	14.6	7828.0	126.6	105.0	82.93	12.8	25.0
8.6	15.9	7755.0	137.7	114.7	83.25	14.1	25.0
8.6	16.9	7703.0	145.9	123.3	84.50	15.3	25.0
8.6	17.9	7652.0	154.3	130.7	84.68	16.3	25.0
8.6	18.9	7602.0	162.6	138.1	84.94	17.3	25.0
8.6	19.9	7554.0	170.7	145.4	85.18	18.4	25.0
8.6	20.8	7508.0	178.3	152.5	85.51	19.4	25.0
8.5	21.9	7458.0	186.9	159.7	85.47	20.4	25.0
8.5	22.9	7412.0	194.9	166.7	85.54	21.5	25.0
8.5	23.9	7365.0	202.9	173.9	85.71	22.5	25.0
8.5	24.9	7317.0	211.1	181.0	85.75	23.6	25.0
8.5	25.9	7269.0	219.3	188.0	85.72	24.7	25.0
8.5	26.8	7226.0	226.7	194.6	85.84	25.7	25.0
8.4	28.0	7170.0	236.6	202.8	85.72	27.0	25.0
8.4	28.9	7131.0	243.2	208.5	85.71	27.9	25.0
8.4	29.7	7091.0	249.8	214.3	85.76	28.9	25.0
8.4	31.0	7032.0	260.5	222.5	85.41	30.2	25.0
8.4	31.8	6996.0	266.4	227.7	85.49	31.1	25.0
8.4	33.0	6942.0	275.8	235.2	85.28	32.4	25.0
8.4	33.7	6907.0	281.6	239.9	85.19	33.2	25.0
8.3	35.0	6848.0	291.8	247.5	84.84	34.5	25.0
8.3	35.7	6815.0	297.3	251.9	84.73	35.3	25.0
8.3	36.7	6769.0	305.0	257.9	84.54	36.4	25.0
8.3	38.0	6711.0	315.0	265.5	84.29	37.8	25.0
8.3	38.7	6677.0	320.3	269.5	84.14	38.5	25.0
8.3	39.7	6632.0	328.1	274.7	83.72	39.6	25.0
8.3	40.8	6582.0	336.7	280.7	83.38	40.7	25.0
8.2	41.6	6545.0	342.8	285.0	83.14	41.6	25.0
8.2	42.9	6486.0	352.6	291.5	82.67	42.9	25.0
8.2	43.7	6447.0	359.1	296.2	82.50	43.9	25.0
8.2	44.7	6401.0	366.4	300.8	82.09	44.9	25.0
8.2	45.5	6363.0	372.3	304.8	81.89	45.8	25.0
8.2	46.9	6300.0	383.0	311.7	81.39	47.2	25.0
8.2	47.5	6268.0	387.6	314.8	81.22	48.0	25.0
8.1	49.2	6194.0	400.0	322.1	80.52	49.7	25.0
8.1	49.7	6167.0	403.6	324.1	80.29	50.2	25.0



Dateiname : ''
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Bezeichnung : Orbit 20/12 (HP 355/20/B12 P10)
Seriennummer : 0205
Prüfnummer : 240205
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      : 15 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]
11.2	16.2	10019.0	180.2	148.4	82.37	14.1	25.0
11.1	15.9	10013.0	177.1	146.7	82.82	14.0	25.0
11.1	17.0	9946.0	189.1	158.4	83.79	15.2	25.0
11.1	18.0	9885.0	199.8	168.9	84.54	16.3	25.0
11.1	18.8	9836.0	208.4	177.5	85.17	17.2	25.0
11.0	19.9	9775.0	219.7	188.1	85.62	18.4	25.0
11.0	21.4	9691.0	235.9	203.2	86.12	20.0	25.0
11.0	22.2	9654.0	243.9	210.4	86.26	20.8	25.0
11.0	23.0	9608.0	252.2	218.0	86.43	21.7	25.0
11.0	24.0	9556.0	262.5	226.8	86.39	22.7	25.0
10.9	24.9	9507.0	272.2	236.6	86.91	23.8	25.0
10.9	25.8	9456.0	282.3	245.8	87.07	24.8	25.0
10.9	26.8	9406.0	292.0	254.1	87.04	25.8	25.0
10.9	27.8	9355.0	302.4	263.5	87.15	26.9	25.0
10.9	28.8	9302.0	312.8	272.5	87.11	28.0	25.0
10.8	29.8	9252.0	322.9	281.6	87.22	29.1	25.0
10.8	30.9	9193.0	335.0	291.6	87.05	30.3	25.0
10.8	31.7	9154.0	342.7	298.6	87.12	31.1	25.0
10.8	32.8	9099.0	353.6	308.0	87.09	32.3	25.0
10.8	33.6	9055.0	362.5	315.3	86.97	33.3	25.0
10.8	34.7	9001.0	373.4	324.8	86.97	34.5	25.0
10.7	35.7	8950.0	383.8	333.4	86.86	35.6	25.0
10.7	36.9	8892.0	395.6	342.7	86.63	36.8	25.0
10.7	37.7	8851.0	403.4	349.0	86.51	37.7	25.0
10.7	38.6	8802.0	413.3	357.4	86.47	38.8	25.0
10.7	40.0	8736.0	426.6	367.6	86.18	40.2	25.0
10.7	40.9	8688.0	436.1	375.0	85.98	41.2	25.0
10.6	42.0	8634.0	446.6	383.2	85.79	42.4	25.0
10.6	42.5	8607.0	451.5	386.8	85.67	42.9	25.0
10.6	44.0	8532.0	466.5	398.4	85.40	44.6	25.0
10.6	45.0	8482.0	476.2	405.4	85.12	45.6	25.0
10.6	46.0	8433.0	485.7	412.1	84.84	46.7	25.0
10.6	46.6	8399.0	491.8	416.6	84.72	47.4	25.0
10.5	47.9	8333.0	504.8	425.2	84.24	48.7	25.0
10.5	48.7	8292.0	512.3	430.7	84.08	49.6	25.0
10.5	50.0	8228.0	524.5	439.7	83.83	51.0	25.0



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Bezeichnung : Orbit 20/12 (HP 355/20/B12 P10)
Seriennummer : 0205
Prüfnummer : 240205
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]
13.6	16.6	12183.0	224.9	193.2	85.91	15.1	25.0
13.6	15.9	12200.0	215.2	185.2	86.07	14.5	25.0
13.5	16.9	12128.0	228.3	197.1	86.30	15.5	25.0
13.5	18.0	12054.0	242.8	210.8	86.80	16.7	25.0
13.5	19.1	11987.0	256.9	223.9	87.16	17.8	25.0
13.5	20.0	11926.0	269.6	236.0	87.54	18.9	25.0
13.4	21.0	11868.0	281.9	247.6	87.86	19.9	25.0
13.4	22.0	11809.0	294.7	259.6	88.09	21.0	25.0
13.4	23.0	11749.0	307.6	271.8	88.36	22.1	25.0
13.4	24.0	11689.0	320.6	284.0	88.58	23.2	25.0
13.3	24.8	11638.0	331.7	294.2	88.72	24.1	25.0
13.3	26.0	11573.0	345.9	307.4	88.86	25.4	25.0
13.3	26.9	11519.0	357.9	318.3	88.94	26.4	25.0
13.3	27.9	11464.0	370.1	329.3	88.95	27.4	25.0
13.3	29.0	11399.0	384.3	341.9	88.98	28.6	25.0
13.2	29.7	11355.0	393.7	350.4	88.99	29.5	25.0
13.2	30.9	11290.0	408.4	363.2	88.93	30.7	25.0
13.2	31.9	11234.0	421.1	374.3	88.89	31.8	25.0
13.2	33.0	11169.0	435.7	387.2	88.86	33.1	25.0
13.2	33.9	11118.0	446.8	396.5	88.74	34.1	25.0
13.1	34.8	11067.0	457.9	406.2	88.70	35.0	25.0
13.1	35.9	11009.0	470.9	417.2	88.61	36.2	25.0
13.1	36.8	10958.0	482.4	427.1	88.53	37.2	25.0
13.1	37.6	10913.0	491.9	435.2	88.48	38.1	25.0
13.1	38.7	10851.0	505.7	446.5	88.30	39.3	25.0
13.0	39.7	10793.0	518.5	456.8	88.10	40.4	25.0
13.0	40.6	10746.0	528.7	465.2	88.00	41.3	25.0
13.0	41.6	10689.0	541.2	475.1	87.78	42.4	25.0
13.0	42.6	10634.0	553.3	484.8	87.62	43.5	25.0
13.0	43.5	10584.0	564.1	493.2	87.44	44.5	25.0
12.9	44.9	10505.0	581.5	506.8	87.15	46.1	25.0
12.9	45.6	10464.0	590.2	513.4	86.98	46.8	25.0
12.9	46.5	10413.0	600.7	521.7	86.85	47.8	25.0
12.9	48.0	10332.0	618.8	535.1	86.46	49.5	25.0
12.9	48.7	10291.0	627.0	540.9	86.26	50.2	25.0
12.9	49.5	10244.0	636.6	547.7	86.03	51.1	25.0

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Bezeichnung : Orbit 20/12 (HP 355/20/B12 P10)
Seriennummer : 0205
Prüfnummer : 240205
Besonderes : future 18.129F

Versuchsaufbau	Messparameter
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Grundlast : 5 %	Strom von : 15 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]
14.8	14.8	13393.0	219.7	181.3	82.55	12.9	25.0
14.8	16.2	13291.0	239.9	200.4	83.55	14.4	25.0
14.8	17.0	13228.0	251.1	210.9	83.99	15.2	25.0
14.7	17.9	13160.0	263.9	222.7	84.36	16.2	25.0
14.7	18.7	13102.0	275.1	232.6	84.57	17.0	25.0
14.7	19.8	13026.0	291.1	246.8	84.79	18.1	25.0
14.6	21.0	12950.0	307.6	264.0	85.82	19.5	25.0
14.6	21.8	12895.0	319.3	274.7	86.01	20.3	25.0
14.6	23.0	12819.0	336.4	290.1	86.24	21.6	25.0
14.6	24.0	12761.0	349.0	301.4	86.35	22.6	25.0
14.5	25.0	12696.0	363.7	314.5	86.48	23.7	25.0
14.5	25.8	12648.0	374.6	324.2	86.54	24.5	25.0
14.5	27.0	12575.0	391.0	340.0	86.95	25.8	25.0
14.5	27.9	12516.0	404.6	353.3	87.30	27.0	25.0
14.5	29.0	12455.0	418.6	366.3	87.51	28.1	25.0
14.4	29.9	12395.0	432.1	378.3	87.55	29.1	25.0
14.4	30.8	12341.0	444.7	391.7	88.08	30.3	25.0
14.4	31.8	12283.0	457.8	403.2	88.08	31.4	25.0
14.4	32.9	12221.0	472.3	416.1	88.10	32.5	25.0
14.4	33.8	12166.0	484.9	427.2	88.11	33.5	25.0
14.3	34.8	12105.0	499.5	439.7	88.03	34.7	25.0
14.3	35.7	12054.0	511.0	450.2	88.10	35.7	25.0
14.3	36.7	11998.0	524.0	461.7	88.11	36.7	25.0
14.3	37.7	11939.0	537.4	473.0	88.00	37.8	25.0
14.3	38.6	11883.0	550.4	483.8	87.90	38.9	25.0
14.2	39.6	11827.0	563.8	494.8	87.76	39.9	25.0
14.2	40.7	11766.0	577.9	506.8	87.69	41.1	25.0
14.2	41.7	11705.0	591.8	517.8	87.49	42.2	25.0
14.2	42.6	11653.0	603.9	527.5	87.36	43.2	25.0
14.1	43.5	11602.0	614.8	536.3	87.23	44.1	25.0
14.1	44.6	11540.0	629.5	547.9	87.04	45.3	25.0
14.1	45.5	11487.0	641.3	557.1	86.87	46.3	25.0
14.1	46.4	11431.0	653.9	567.0	86.71	47.4	25.0
14.1	47.4	11373.0	666.7	577.0	86.54	48.4	25.0
14.0	48.5	11311.0	680.7	587.7	86.34	49.6	25.0
14.0	49.5	11251.0	694.2	598.0	86.14	50.8	25.0
14.0	50.6	11190.0	707.5	607.6	85.88	51.9	25.0
14.0	51.9	11111.0	725.1	620.6	85.59	53.3	25.0
14.0	52.6	11071.0	734.1	626.7	85.38	54.1	25.0
13.9	53.5	11013.0	745.7	634.9	85.14	55.1	25.0
13.9	54.3	10963.0	756.1	642.3	84.95	55.9	25.0

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Bezeichnung : Orbit 20/12 (HP 355/20/B12 P10)
Seriennummer : 0205
Prüfnummer : 240205
Besonderes : future 18.129F

Versuchsaufbau

Messparameter

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

Strom von : 15 A bis : 55 A
Schrittweite : 1.0 A
Reglerausgang : 100 %

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Wirkungsgrad [%]	Drehmoment [Ncm]	Temp. [°C]
17.3	14.7	15581.0	255.0	194.7	76.37	11.9	25.0
17.3	16.0	15480.0	277.0	216.6	78.21	13.4	25.0
17.2	17.1	15398.0	294.7	234.1	79.46	14.5	25.0
17.2	18.2	15318.0	312.5	251.3	80.43	15.7	25.0
17.2	19.0	15251.0	327.0	266.0	81.35	16.7	25.0
17.1	20.2	15169.0	346.4	285.2	82.32	18.0	25.0
17.1	21.0	15111.0	358.9	297.4	82.85	18.8	25.0
17.1	21.9	15046.0	373.7	311.7	83.40	19.8	25.0
17.0	23.0	14972.0	391.4	328.8	83.99	21.0	25.0
17.0	23.7	14918.0	403.9	340.5	84.31	21.8	25.0
17.0	25.1	14828.0	425.8	361.7	84.93	23.3	25.0
17.0	25.7	14781.0	436.4	371.7	85.17	24.0	25.0
16.9	26.8	14710.0	454.5	388.9	85.57	25.2	25.0
16.9	27.8	14648.0	469.6	402.8	85.79	26.3	25.0
16.9	28.8	14578.0	486.9	419.1	86.07	27.4	25.0
16.9	29.8	14514.0	502.9	433.7	86.25	28.5	25.0
16.8	30.9	14443.0	520.8	450.5	86.50	29.8	25.0
16.8	31.9	14378.0	536.9	465.6	86.72	30.9	25.0
16.8	32.6	14330.0	548.4	475.9	86.79	31.7	25.0
16.8	34.0	14246.0	570.5	495.9	86.92	33.2	25.0
16.7	35.0	14184.0	586.1	509.9	87.01	34.3	25.0
16.7	35.8	14133.0	598.9	521.3	87.03	35.2	25.0
16.7	36.7	14076.0	613.2	533.7	87.05	36.2	25.0
16.7	37.5	14022.0	626.0	545.2	87.09	37.1	25.0
16.6	38.7	13949.0	644.6	561.3	87.07	38.4	25.0
16.6	39.7	13886.0	660.1	574.4	87.02	39.5	25.0
16.6	41.0	13810.0	680.1	591.6	86.99	40.9	25.0
16.6	41.9	13750.0	695.0	604.6	86.99	42.0	25.0
16.5	42.8	13695.0	708.3	615.8	86.95	42.9	25.0
16.5	43.8	13634.0	723.2	628.3	86.88	44.0	25.0
16.5	44.7	13574.0	737.8	640.1	86.75	45.0	25.0
16.5	45.7	13511.0	753.4	652.8	86.65	46.1	25.0
16.5	46.6	13456.0	767.6	664.2	86.53	47.1	25.0
16.4	47.5	13402.0	780.3	674.6	86.45	48.1	25.0
16.4	48.6	13330.0	797.7	688.6	86.33	49.3	25.0
16.4	49.6	13266.0	812.7	701.2	86.28	50.5	25.0
16.4	50.7	13202.0	828.9	713.1	86.04	51.6	25.0
16.3	51.7	13140.0	843.8	724.4	85.85	52.6	25.0
16.3	52.7	13077.0	858.9	735.9	85.68	53.7	25.0
16.3	53.6	13015.0	873.0	746.3	85.49	54.8	25.0
16.3	54.5	12956.0	886.6	756.0	85.28	55.7	25.0

Dateiname : ''
Datum : 08.03.2005 15:41:59

Bezeichnung : Orbit 20/12 (HP 355/20/B12 P10)
Seriennummer : 0205
Prüfnummer : 240205
Besonderes : future 18.129F

Versuchsaufbau	Messparameter
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Grundlast : 5 %	Strom von : 15 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]
19.7	14.9	17680.0	292.6	226.1	77.26	12.2	25.0
19.6	16.0	17575.0	313.0	246.3	78.68	13.4	25.0
19.6	17.1	17477.0	335.0	267.6	79.88	14.6	25.0
19.5	18.2	17389.0	354.5	286.1	80.73	15.7	25.0
19.5	19.2	17302.0	374.2	305.4	81.60	16.9	25.0
19.5	20.3	17214.0	394.7	325.9	82.56	18.1	25.0
19.4	21.0	17154.0	407.6	339.0	83.17	18.9	25.0
19.4	21.8	17090.0	422.3	353.4	83.69	19.7	25.0
19.4	22.8	17012.0	441.1	371.2	84.15	20.8	25.0
19.3	23.9	16926.0	462.7	392.2	84.76	22.1	25.0
19.3	24.9	16851.0	480.4	409.1	85.17	23.2	25.0
19.3	26.0	16768.0	501.3	429.0	85.58	24.4	25.0
19.2	26.8	16707.0	516.3	443.4	85.87	25.3	25.0
19.2	28.1	16614.0	539.2	465.3	86.28	26.7	25.0
19.2	29.0	16546.0	557.0	481.6	86.45	27.8	25.0
19.1	30.1	16472.0	575.5	499.0	86.70	28.9	25.0
19.1	31.0	16408.0	591.7	514.0	86.87	29.9	25.0
19.1	32.0	16333.0	610.8	531.2	86.96	31.1	25.0
19.1	33.1	16258.0	630.1	549.1	87.15	32.2	25.0
19.0	34.0	16192.0	647.2	564.2	87.18	33.3	25.0
19.0	34.9	16129.0	663.2	578.9	87.28	34.3	25.0
19.0	35.6	16076.0	676.3	590.3	87.28	35.1	25.0
18.9	36.9	15988.0	699.6	611.3	87.37	36.5	25.0
18.9	37.8	15924.0	715.6	625.8	87.45	37.5	25.0
18.9	39.1	15844.0	737.6	645.0	87.44	38.9	25.0
18.9	39.9	15780.0	753.0	658.6	87.47	39.9	25.0
18.8	40.9	15712.0	770.5	673.8	87.44	41.0	25.0
18.8	41.9	15644.0	787.4	688.6	87.44	42.0	25.0
18.8	42.9	15574.0	805.5	704.0	87.39	43.2	25.0
18.7	43.8	15511.0	821.4	717.5	87.34	44.2	25.0
18.7	44.8	15443.0	838.8	732.2	87.30	45.3	25.0
18.7	45.8	15378.0	855.3	746.1	87.24	46.3	25.0
18.7	46.7	15313.0	871.9	760.1	87.18	47.4	25.0
18.6	47.7	15246.0	888.7	773.9	87.08	48.5	25.0
18.6	48.8	15172.0	907.7	789.1	86.94	49.7	25.0
18.6	49.8	15104.0	924.7	803.3	86.88	50.8	25.0
18.6	50.6	15047.0	938.2	813.7	86.74	51.6	25.0
18.5	51.6	14977.0	955.7	827.5	86.58	52.8	25.0
18.5	52.5	14910.0	971.7	840.0	86.44	53.8	25.0
18.5	53.6	14838.0	989.0	853.1	86.26	54.9	25.0
18.4	54.6	14769.0	1006.2	866.8	86.14	56.0	25.0