

HP 620/40/A2 S P12

Spannung: 25 V

$n_l=6685.2\text{U/min}$
 $n_s=270.4\text{U/min/V}$

$I_o=10.5\text{A}$
 $k_n=-11.66\text{U/min/A}$

$k_M=4.18\text{Ncm/A}$

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Drehmoment [Ncm]	Wirkungsgrad [%]
25.1	30.0	6448.6	752.5	637.7	94.4	84.75
25.1	35.0	6392.2	877.4	754.6	112.7	86.01
25.1	40.0	6335.7	1002.1	870.5	131.2	86.87
25.0	45.0	6279.1	1126.7	985.4	149.9	87.46
25.0	50.0	6222.4	1251.1	1099.2	168.7	87.85
25.0	55.0	6165.5	1375.4	1211.8	187.7	88.10
25.0	60.0	6108.4	1499.6	1323.3	206.9	88.25
25.0	65.0	6051.3	1623.5	1433.6	226.2	88.30
25.0	70.0	5994.0	1747.4	1542.6	245.8	88.28
24.9	75.0	5936.6	1871.0	1650.4	265.5	88.21
24.9	80.0	5879.1	1994.6	1756.8	285.4	88.08
24.9	85.0	5821.4	2117.9	1861.9	305.4	87.91
24.9	90.0	5763.6	2241.2	1965.6	325.7	87.70
24.9	95.0	5705.6	2364.2	2067.8	346.1	87.46
24.9	100.0	5647.6	2487.1	2168.5	366.7	87.19
24.9	105.0	5589.4	2609.9	2267.7	387.4	86.89
24.8	110.0	5531.0	2732.5	2365.4	408.4	86.56
24.8	115.0	5472.6	2855.0	2461.4	429.5	86.22
24.8	120.0	5414.0	2977.3	2555.8	450.8	85.84
24.8	125.0	5355.2	3099.5	2648.5	472.3	85.45
24.8	130.0	5296.4	3221.5	2739.5	493.9	85.04
24.8	135.0	5237.4	3343.3	2828.7	515.8	84.61
24.8	140.0	5178.3	3465.0	2916.1	537.8	84.16
24.7	145.0	5119.0	3586.6	3001.7	559.9	83.69
24.7	150.0	5059.6	3708.0	3085.3	582.3	83.21
24.7	155.0	5000.1	3829.2	3167.0	604.8	82.71
24.7	160.0	4940.5	3950.3	3246.7	627.5	82.19
24.7	165.0	4880.7	4071.3	3324.4	650.4	81.65
24.7	170.0	4820.8	4192.1	3400.0	673.5	81.11
24.6	175.0	4760.7	4312.7	3473.5	696.7	80.54
24.6	180.0	4700.6	4433.2	3544.9	720.2	79.96

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Spannung: 30 V

$n_l=8000.1\text{U/min}$
 $n_s=269.5\text{U/min/V}$

$I_o=11.0\text{A}$
 $k_n=-13.2\text{U/min/A}$

$k_M=4.20\text{Ncm/A}$

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Drehmoment [Ncm]	Wirkungsgrad [%]
30.1	30.0	7739.2	904.2	740.3	91.3	81.87
30.1	35.0	7675.9	1054.4	884.8	110.1	83.92
30.1	40.0	7612.4	1204.5	1028.0	129.0	85.35
30.1	45.0	7548.8	1354.4	1170.0	148.0	86.38
30.1	50.0	7485.0	1504.2	1310.5	167.2	87.12
30.1	55.0	7421.0	1653.9	1449.7	186.5	87.65
30.1	60.0	7356.9	1803.4	1587.4	206.0	88.02
30.0	65.0	7292.7	1952.7	1723.6	225.7	88.27
30.0	70.0	7228.3	2102.0	1858.3	245.5	88.41
30.0	75.0	7163.7	2251.1	1991.5	265.5	88.47
30.0	80.0	7099.0	2400.0	2123.1	285.6	88.46
30.0	85.0	7034.1	2548.8	2253.0	305.9	88.39
30.0	90.0	6969.1	2697.5	2381.2	326.3	88.27
30.0	95.0	6903.9	2846.1	2507.7	346.9	88.11
29.9	100.0	6838.6	2994.4	2632.5	367.6	87.91
29.9	105.0	6773.1	3142.7	2755.4	388.5	87.68
29.9	110.0	6707.4	3290.8	2876.5	409.5	87.41
29.9	115.0	6641.6	3438.8	2995.7	430.7	87.11
29.9	120.0	6575.6	3586.6	3112.9	452.1	86.79
29.9	125.0	6509.5	3734.3	3228.2	473.6	86.45
29.9	130.0	6443.2	3881.9	3341.4	495.2	86.08
29.8	135.0	6376.8	4029.3	3452.6	517.0	85.69
29.8	140.0	6310.2	4176.6	3561.7	539.0	85.28
29.8	145.0	6243.4	4323.7	3668.7	561.1	84.85
29.8	150.0	6176.5	4470.7	3773.4	583.4	84.40
29.8	155.0	6109.4	4617.6	3875.9	605.8	83.94
29.8	160.0	6042.2	4764.3	3976.2	628.4	83.46
29.8	165.0	5974.9	4910.9	4074.1	651.1	82.96
29.7	170.0	5907.3	5057.3	4169.6	674.0	82.45
29.7	175.0	5839.6	5203.6	4262.8	697.1	81.92
29.7	180.0	5771.8	5349.8	4353.4	720.3	81.38

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Spannung: 35 V

$n_l=9296.9\text{U/min}$
 $n_s=268.3\text{U/min/V}$

$I_o=11.4\text{A}$
 $k_n=-14.55\text{U/min/A}$

$k_M=4.23\text{Ncm/A}$

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Drehmoment [Ncm]	Wirkungsgrad [%]
35.2	30.0	9012.3	1055.7	866.8	91.8	82.11
35.2	35.0	8942.4	1231.2	1034.0	110.4	83.98
35.2	40.0	8872.3	1406.5	1200.0	129.2	85.32
35.1	45.0	8802.1	1581.6	1364.9	148.1	86.30
35.1	50.0	8731.6	1756.6	1528.6	167.2	87.02
35.1	55.0	8660.9	1931.5	1691.0	186.4	87.55
35.1	60.0	8590.1	2106.3	1852.2	205.9	87.94
35.1	65.0	8519.0	2280.9	2011.9	225.5	88.21
35.1	70.0	8447.8	2455.3	2170.3	245.3	88.39
35.1	75.0	8376.4	2629.6	2327.2	265.3	88.50
35.0	80.0	8304.7	2803.8	2482.6	285.5	88.55
35.0	85.0	8232.9	2977.8	2636.5	305.8	88.54
35.0	90.0	8160.9	3151.7	2788.7	326.3	88.48
35.0	95.0	8088.6	3325.4	2939.3	347.0	88.39
35.0	100.0	8016.2	3499.0	3088.1	367.9	88.26
35.0	105.0	7943.6	3672.4	3235.2	388.9	88.09
35.0	110.0	7870.8	3845.8	3380.4	410.1	87.90
34.9	115.0	7797.8	4018.9	3523.8	431.5	87.68
34.9	120.0	7724.6	4191.9	3665.2	453.1	87.44
34.9	125.0	7651.2	4364.8	3804.7	474.9	87.17
34.9	130.0	7577.6	4537.5	3942.1	496.8	86.88
34.9	135.0	7503.8	4710.1	4077.4	518.9	86.57
34.9	140.0	7429.8	4882.6	4210.6	541.2	86.24
34.9	145.0	7355.7	5054.9	4341.5	563.6	85.89
34.8	150.0	7281.3	5227.1	4470.2	586.3	85.52
34.8	155.0	7206.7	5399.1	4596.6	609.1	85.14
34.8	160.0	7132.0	5571.0	4720.6	632.1	84.74
34.8	165.0	7057.0	5742.7	4842.2	655.2	84.32
34.8	170.0	6981.8	5914.3	4961.3	678.6	83.89
34.8	175.0	6906.5	6085.7	5077.9	702.1	83.44
34.8	180.0	6831.0	6257.0	5191.9	725.8	82.98

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Spannung: 40 V

$n_l=10555.7\text{U/min}$
 $n_s=267.3\text{U/min/V}$

$I_o=12.0\text{A}$
 $k_n=-15.92\text{U/min/A}$

$k_M=4.26\text{Ncm/A}$

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Drehmoment [Ncm]	Wirkungsgrad [%]
40.1	30.0	10251.8	1203.6	975.7	90.9	81.06
40.1	35.0	10175.6	1403.7	1165.6	109.4	83.04
40.1	40.0	10099.2	1603.7	1354.5	128.1	84.46
40.1	45.0	10022.6	1803.5	1542.4	147.0	85.52
40.1	50.0	9945.7	2003.2	1729.2	166.0	86.32
40.0	55.0	9868.6	2202.7	1914.8	185.3	86.93
40.0	60.0	9791.3	2402.0	2099.2	204.7	87.39
40.0	65.0	9713.7	2601.2	2282.4	224.4	87.74
40.0	70.0	9635.9	2800.3	2464.2	244.2	88.00
40.0	75.0	9557.8	2999.2	2644.6	264.2	88.18
40.0	80.0	9479.6	3198.0	2823.6	284.4	88.29
40.0	85.0	9401.1	3396.6	3001.0	304.8	88.35
39.9	90.0	9322.3	3595.1	3176.9	325.4	88.37
39.9	95.0	9243.4	3793.5	3351.1	346.2	88.34
39.9	100.0	9164.2	3991.7	3523.6	367.2	88.27
39.9	105.0	9084.7	4189.7	3694.3	388.3	88.18
39.9	110.0	9005.1	4387.6	3863.2	409.7	88.05
39.9	115.0	8925.2	4585.4	4030.3	431.2	87.89
39.9	120.0	8845.0	4783.0	4195.3	452.9	87.71
39.8	125.0	8764.7	4980.4	4358.4	474.9	87.51
39.8	130.0	8684.1	5177.7	4519.3	497.0	87.28
39.8	135.0	8603.2	5374.9	4678.2	519.3	87.04
39.8	140.0	8522.2	5571.9	4834.8	541.7	86.77
39.8	145.0	8440.9	5768.8	4989.1	564.4	86.48
39.8	150.0	8359.4	5965.5	5141.1	587.3	86.18
39.8	155.0	8277.6	6162.1	5290.6	610.3	85.86
39.7	160.0	8195.6	6358.5	5437.7	633.6	85.52
39.7	165.0	8113.4	6554.8	5582.3	657.0	85.16
39.7	170.0	8030.9	6751.0	5724.3	680.7	84.79
39.7	175.0	7948.2	6947.0	5863.5	704.5	84.40
39.7	180.0	7865.3	7142.8	6000.1	728.5	84.00

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Spannung: 45 V

$n_l=11759.4\text{U/min}$
 $n_s=266.2\text{U/min/V}$

$I_o=12.6\text{A}$
 $k_n=-17.19\text{U/min/A}$

$k_M=4.28\text{Ncm/A}$

Spannung [V]	Strom [A]	Drehzahl [U/min]	Pin [W]	Pout [W]	Drehmoment [Ncm]	Wirkungsgrad [%]
44.9	30.0	11439.0	1347.2	1059.5	88.4	78.65
44.9	35.0	11357.2	1571.2	1274.1	107.1	81.09
44.9	40.0	11275.2	1795.1	1487.6	126.0	82.87
44.9	45.0	11192.8	2018.8	1700.0	145.0	84.21
44.8	50.0	11110.2	2242.4	1911.3	164.3	85.24
44.8	55.0	11027.3	2465.8	2121.3	183.7	86.03
44.8	60.0	10944.1	2689.1	2330.1	203.3	86.65
44.8	65.0	10860.6	2912.2	2537.5	223.1	87.13
44.8	70.0	10776.8	3135.2	2743.5	243.1	87.51
44.8	75.0	10692.8	3358.0	2948.0	263.3	87.79
44.8	80.0	10608.4	3580.7	3150.9	283.6	88.00
44.7	85.0	10523.8	3803.3	3352.2	304.2	88.14
44.7	90.0	10438.9	4025.7	3551.8	324.9	88.23
44.7	95.0	10353.7	4248.0	3749.7	345.8	88.27
44.7	100.0	10268.2	4470.1	3945.7	366.9	88.27
44.7	105.0	10182.4	4692.0	4139.8	388.2	88.23
44.7	110.0	10096.3	4913.9	4331.9	409.7	88.16
44.7	115.0	10010.0	5135.5	4522.0	431.4	88.05
44.6	120.0	9923.3	5357.1	4710.0	453.2	87.92
44.6	125.0	9836.4	5578.4	4895.8	475.3	87.76
44.6	130.0	9749.2	5799.7	5079.3	497.5	87.58
44.6	135.0	9661.7	6020.8	5260.6	519.9	87.37
44.6	140.0	9573.9	6241.7	5439.4	542.5	87.15
44.6	145.0	9485.8	6462.5	5615.8	565.3	86.90
44.6	150.0	9397.5	6683.1	5789.6	588.3	86.63
44.5	155.0	9308.8	6903.6	5960.8	611.5	86.34
44.5	160.0	9219.9	7124.0	6129.3	634.8	86.04
44.5	165.0	9130.7	7344.2	6295.1	658.4	85.71
44.5	170.0	9041.2	7564.3	6458.0	682.1	85.38
44.5	175.0	8951.4	7784.2	6618.0	706.0	85.02
44.5	180.0	8861.3	8004.0	6775.1	730.1	84.65