

**NOVA 15/50/B4 S P30 HF inkl. MST 60/260**

Spannung: 25 V

nl=2768.8U/min  
ns=112.2U/min/VIo=6.4A  
kn=-5.16U/min/A

kM=9.89Ncm/A

| Spannung<br>[V] | Strom<br>[A] | Drehzahl<br>[U/min] | Pin<br>[W] | Pout<br>[W] | Drehmoment<br>[Ncm] | Wirkungsgrad<br>[%] |
|-----------------|--------------|---------------------|------------|-------------|---------------------|---------------------|
| 25.0            | 10.0         | 2781.6              | 249.6      | 167.1       | 57.4                | 66.97               |
| 24.9            | 12.0         | 2768.6              | 299.4      | 218.3       | 75.3                | 72.91               |
| 24.9            | 14.0         | 2755.6              | 349.2      | 269.1       | 93.3                | 77.06               |
| 24.9            | 16.0         | 2742.7              | 399.0      | 319.6       | 111.3               | 80.11               |
| 24.9            | 18.0         | 2729.9              | 448.8      | 369.8       | 129.4               | 82.40               |
| 24.9            | 20.0         | 2717.2              | 498.5      | 419.7       | 147.5               | 84.19               |
| 24.9            | 22.0         | 2704.6              | 548.3      | 469.3       | 165.7               | 85.59               |
| 24.9            | 24.0         | 2692.0              | 598.0      | 518.5       | 183.9               | 86.71               |
| 24.9            | 26.0         | 2679.5              | 647.7      | 567.4       | 202.2               | 87.61               |
| 24.9            | 28.0         | 2667.1              | 697.3      | 616.1       | 220.6               | 88.35               |
| 24.9            | 30.0         | 2654.8              | 747.0      | 664.4       | 239.0               | 88.95               |
| 24.9            | 32.0         | 2642.6              | 796.6      | 712.4       | 257.4               | 89.44               |
| 24.9            | 34.0         | 2630.4              | 846.2      | 760.2       | 276.0               | 89.83               |
| 24.9            | 36.0         | 2618.3              | 895.8      | 807.6       | 294.5               | 90.16               |
| 24.9            | 38.0         | 2606.3              | 945.3      | 854.7       | 313.2               | 90.42               |
| 24.9            | 40.0         | 2594.4              | 994.8      | 901.5       | 331.8               | 90.62               |
| 24.9            | 42.0         | 2582.5              | 1044.3     | 948.1       | 350.6               | 90.78               |
| 24.9            | 44.0         | 2570.7              | 1093.8     | 994.3       | 369.4               | 90.91               |
| 24.9            | 46.0         | 2559.1              | 1143.3     | 1040.3      | 388.2               | 90.99               |
| 24.8            | 48.0         | 2547.4              | 1192.7     | 1086.0      | 407.1               | 91.05               |
| 24.8            | 50.0         | 2535.9              | 1242.1     | 1131.4      | 426.1               | 91.09               |
| 24.8            | 52.0         | 2524.4              | 1291.5     | 1176.6      | 445.1               | 91.10               |
| 24.8            | 54.0         | 2513.1              | 1340.9     | 1221.4      | 464.1               | 91.09               |
| 24.8            | 56.0         | 2501.8              | 1390.3     | 1266.0      | 483.2               | 91.06               |
| 24.8            | 58.0         | 2490.5              | 1439.6     | 1310.3      | 502.4               | 91.02               |
| 24.8            | 60.0         | 2479.4              | 1488.9     | 1354.4      | 521.6               | 90.97               |
| 24.8            | 62.0         | 2468.3              | 1538.2     | 1398.2      | 540.9               | 90.90               |
| 24.8            | 64.0         | 2457.3              | 1587.4     | 1441.7      | 560.2               | 90.82               |
| 24.8            | 66.0         | 2446.4              | 1636.7     | 1485.0      | 579.6               | 90.73               |
| 24.8            | 68.0         | 2435.6              | 1685.9     | 1528.0      | 599.1               | 90.64               |
| 24.8            | 70.0         | 2424.9              | 1735.1     | 1570.8      | 618.6               | 90.53               |
| 24.8            | 72.0         | 2414.2              | 1784.2     | 1613.3      | 638.1               | 90.42               |
| 24.8            | 74.0         | 2403.6              | 1833.4     | 1655.6      | 657.7               | 90.30               |
| 24.8            | 76.0         | 2393.1              | 1882.5     | 1697.6      | 677.4               | 90.18               |
| 24.8            | 78.0         | 2382.7              | 1931.6     | 1739.4      | 697.1               | 90.05               |
| 24.8            | 80.0         | 2372.3              | 1980.7     | 1780.9      | 716.9               | 89.92               |
| 24.8            | 82.0         | 2362.0              | 2029.8     | 1822.3      | 736.7               | 89.78               |
| 24.7            | 84.0         | 2351.8              | 2078.8     | 1863.4      | 756.6               | 89.64               |
| 24.7            | 86.0         | 2341.7              | 2127.8     | 1904.2      | 776.5               | 89.49               |
| 24.7            | 88.0         | 2331.7              | 2176.8     | 1944.9      | 796.5               | 89.35               |
| 24.7            | 90.0         | 2321.7              | 2225.8     | 1985.3      | 816.6               | 89.20               |
| 24.7            | 92.0         | 2311.8              | 2274.7     | 2025.5      | 836.7               | 89.04               |
| 24.7            | 94.0         | 2302.0              | 2323.6     | 2065.5      | 856.8               | 88.89               |

|      |       |        |        |        |        |       |
|------|-------|--------|--------|--------|--------|-------|
| 24.7 | 96.0  | 2292.3 | 2372.5 | 2105.3 | 877.0  | 88.74 |
| 24.7 | 98.0  | 2282.6 | 2421.4 | 2144.8 | 897.3  | 88.58 |
| 24.7 | 100.0 | 2273.1 | 2470.3 | 2184.2 | 917.6  | 88.42 |
| 24.7 | 102.0 | 2263.6 | 2519.1 | 2223.4 | 938.0  | 88.26 |
| 24.7 | 104.0 | 2254.2 | 2567.9 | 2262.4 | 958.4  | 88.10 |
| 24.7 | 106.0 | 2244.8 | 2616.7 | 2301.1 | 978.9  | 87.94 |
| 24.7 | 108.0 | 2235.6 | 2665.5 | 2339.7 | 999.4  | 87.78 |
| 24.7 | 110.0 | 2226.4 | 2714.2 | 2378.1 | 1020.0 | 87.62 |
| 24.7 | 112.0 | 2217.3 | 2762.9 | 2416.4 | 1040.6 | 87.46 |
| 24.7 | 114.0 | 2208.3 | 2811.6 | 2454.4 | 1061.3 | 87.29 |
| 24.7 | 116.0 | 2199.4 | 2860.3 | 2492.3 | 1082.1 | 87.13 |
| 24.7 | 118.0 | 2190.5 | 2908.9 | 2529.9 | 1102.9 | 86.97 |
| 24.6 | 120.0 | 2181.7 | 2957.6 | 2567.5 | 1123.8 | 86.81 |
| 24.6 | 122.0 | 2173.0 | 3006.2 | 2604.8 | 1144.7 | 86.65 |
| 24.6 | 124.0 | 2164.4 | 3054.8 | 2642.0 | 1165.7 | 86.49 |
| 24.6 | 126.0 | 2155.9 | 3103.3 | 2679.1 | 1186.7 | 86.33 |
| 24.6 | 128.0 | 2147.4 | 3151.9 | 2715.9 | 1207.8 | 86.17 |
| 24.6 | 130.0 | 2139.0 | 3200.4 | 2752.7 | 1228.9 | 86.01 |
| 24.6 | 132.0 | 2130.7 | 3248.9 | 2789.3 | 1250.1 | 85.85 |
| 24.6 | 134.0 | 2122.5 | 3297.4 | 2825.7 | 1271.3 | 85.70 |
| 24.6 | 136.0 | 2114.3 | 3345.8 | 2862.0 | 1292.6 | 85.54 |
| 24.6 | 138.0 | 2106.2 | 3394.2 | 2898.2 | 1314.0 | 85.39 |
| 24.6 | 140.0 | 2098.2 | 3442.6 | 2934.2 | 1335.4 | 85.23 |
| 24.6 | 142.0 | 2090.3 | 3491.0 | 2970.1 | 1356.9 | 85.08 |
| 24.6 | 144.0 | 2082.5 | 3539.4 | 3005.9 | 1378.4 | 84.93 |
| 24.6 | 146.0 | 2074.7 | 3587.7 | 3041.6 | 1399.9 | 84.78 |
| 24.6 | 148.0 | 2067.1 | 3636.0 | 3077.2 | 1421.6 | 84.63 |
| 24.6 | 150.0 | 2059.5 | 3684.3 | 3112.6 | 1443.3 | 84.48 |

**NOVA 15/50/B4 S P30 HF inkl. MST 60/260**

Spannung: 30 V

nl=3310.6U/min  
ns=111.4U/min/VIo=6.9A  
kn=-5.70U/min/A

kM=10.01Ncm/A

| Spannung<br>[V] | Strom<br>[A] | Drehzahl<br>[U/min] | Pin<br>[W] | Pout<br>[W] | Drehmoment<br>[Ncm] | Wirkungsgrad<br>[%] |
|-----------------|--------------|---------------------|------------|-------------|---------------------|---------------------|
| 30.0            | 10.0         | 3333.6              | 300.3      | 194.1       | 55.6                | 64.61               |
| 30.0            | 12.0         | 3318.9              | 360.3      | 256.0       | 73.7                | 71.04               |
| 30.0            | 14.0         | 3304.4              | 420.3      | 317.6       | 91.8                | 75.55               |
| 30.0            | 16.0         | 3289.9              | 480.3      | 378.8       | 109.9               | 78.87               |
| 30.0            | 18.0         | 3275.5              | 540.2      | 439.6       | 128.2               | 81.38               |
| 30.0            | 20.0         | 3261.2              | 600.1      | 500.1       | 146.4               | 83.34               |
| 30.0            | 22.0         | 3247.0              | 660.0      | 560.3       | 164.8               | 84.89               |
| 30.0            | 24.0         | 3232.8              | 719.9      | 620.1       | 183.2               | 86.14               |
| 30.0            | 26.0         | 3218.8              | 779.7      | 679.5       | 201.6               | 87.16               |
| 30.0            | 28.0         | 3204.8              | 839.5      | 738.7       | 220.1               | 87.99               |
| 30.0            | 30.0         | 3191.0              | 899.3      | 797.4       | 238.6               | 88.67               |
| 30.0            | 32.0         | 3177.2              | 959.1      | 855.9       | 257.2               | 89.24               |
| 30.0            | 34.0         | 3163.5              | 1018.8     | 914.0       | 275.9               | 89.71               |
| 30.0            | 36.0         | 3149.9              | 1078.5     | 971.7       | 294.6               | 90.10               |
| 30.0            | 38.0         | 3136.4              | 1138.2     | 1029.2      | 313.3               | 90.42               |
| 29.9            | 40.0         | 3123.0              | 1197.9     | 1086.3      | 332.2               | 90.68               |
| 29.9            | 42.0         | 3109.7              | 1257.5     | 1143.1      | 351.0               | 90.90               |
| 29.9            | 44.0         | 3096.4              | 1317.2     | 1199.6      | 369.9               | 91.07               |
| 29.9            | 46.0         | 3083.3              | 1376.8     | 1255.7      | 388.9               | 91.21               |
| 29.9            | 48.0         | 3070.2              | 1436.4     | 1311.6      | 407.9               | 91.31               |
| 29.9            | 50.0         | 3057.2              | 1495.9     | 1367.1      | 427.0               | 91.39               |
| 29.9            | 52.0         | 3044.3              | 1555.5     | 1422.3      | 446.1               | 91.44               |
| 29.9            | 54.0         | 3031.5              | 1615.0     | 1477.2      | 465.3               | 91.47               |
| 29.9            | 56.0         | 3018.8              | 1674.5     | 1531.8      | 484.6               | 91.48               |
| 29.9            | 58.0         | 3006.2              | 1733.9     | 1586.2      | 503.9               | 91.48               |
| 29.9            | 60.0         | 2993.7              | 1793.4     | 1640.2      | 523.2               | 91.46               |
| 29.9            | 62.0         | 2981.2              | 1852.8     | 1693.9      | 542.6               | 91.43               |
| 29.9            | 64.0         | 2968.9              | 1912.2     | 1747.4      | 562.0               | 91.38               |
| 29.9            | 66.0         | 2956.6              | 1971.5     | 1800.5      | 581.5               | 91.33               |
| 29.9            | 68.0         | 2944.4              | 2030.9     | 1853.4      | 601.1               | 91.26               |
| 29.9            | 70.0         | 2932.3              | 2090.2     | 1906.0      | 620.7               | 91.19               |
| 29.9            | 72.0         | 2920.3              | 2149.5     | 1958.4      | 640.4               | 91.11               |
| 29.8            | 74.0         | 2908.4              | 2208.8     | 2010.4      | 660.1               | 91.02               |
| 29.8            | 76.0         | 2896.6              | 2268.1     | 2062.2      | 679.9               | 90.92               |
| 29.8            | 78.0         | 2884.8              | 2327.3     | 2113.7      | 699.7               | 90.82               |
| 29.8            | 80.0         | 2873.2              | 2386.5     | 2165.0      | 719.6               | 90.72               |
| 29.8            | 82.0         | 2861.6              | 2445.7     | 2216.0      | 739.5               | 90.61               |
| 29.8            | 84.0         | 2850.2              | 2504.9     | 2266.8      | 759.5               | 90.49               |
| 29.8            | 86.0         | 2838.8              | 2564.0     | 2317.3      | 779.5               | 90.38               |
| 29.8            | 88.0         | 2827.5              | 2623.1     | 2367.5      | 799.6               | 90.26               |
| 29.8            | 90.0         | 2816.3              | 2682.2     | 2417.6      | 819.7               | 90.13               |
| 29.8            | 92.0         | 2805.2              | 2741.3     | 2467.3      | 839.9               | 90.01               |
| 29.8            | 94.0         | 2794.1              | 2800.3     | 2516.9      | 860.2               | 89.88               |

|      |       |        |        |        |        |       |
|------|-------|--------|--------|--------|--------|-------|
| 29.8 | 96.0  | 2783.2 | 2859.3 | 2566.2 | 880.5  | 89.75 |
| 29.8 | 98.0  | 2772.3 | 2918.3 | 2615.3 | 900.8  | 89.62 |
| 29.8 | 100.0 | 2761.6 | 2977.3 | 2664.2 | 921.2  | 89.48 |
| 29.8 | 102.0 | 2750.9 | 3036.3 | 2712.8 | 941.7  | 89.35 |
| 29.8 | 104.0 | 2740.3 | 3095.2 | 2761.2 | 962.2  | 89.21 |
| 29.8 | 106.0 | 2729.8 | 3154.1 | 2809.5 | 982.8  | 89.07 |
| 29.8 | 108.0 | 2719.4 | 3213.0 | 2857.5 | 1003.4 | 88.93 |
| 29.7 | 110.0 | 2709.1 | 3271.9 | 2905.3 | 1024.1 | 88.80 |
| 29.7 | 112.0 | 2698.9 | 3330.7 | 2952.9 | 1044.8 | 88.66 |
| 29.7 | 114.0 | 2688.7 | 3389.5 | 3000.3 | 1065.6 | 88.52 |
| 29.7 | 116.0 | 2678.7 | 3448.3 | 3047.5 | 1086.4 | 88.38 |
| 29.7 | 118.0 | 2668.7 | 3507.1 | 3094.6 | 1107.3 | 88.24 |
| 29.7 | 120.0 | 2658.8 | 3565.8 | 3141.4 | 1128.3 | 88.10 |
| 29.7 | 122.0 | 2649.0 | 3624.6 | 3188.1 | 1149.2 | 87.96 |
| 29.7 | 124.0 | 2639.3 | 3683.3 | 3234.6 | 1170.3 | 87.82 |
| 29.7 | 126.0 | 2629.7 | 3741.9 | 3280.9 | 1191.4 | 87.68 |
| 29.7 | 128.0 | 2620.2 | 3800.6 | 3327.1 | 1212.6 | 87.54 |
| 29.7 | 130.0 | 2610.8 | 3859.2 | 3373.1 | 1233.8 | 87.40 |
| 29.7 | 132.0 | 2601.4 | 3917.8 | 3418.9 | 1255.0 | 87.27 |
| 29.7 | 134.0 | 2592.2 | 3976.4 | 3464.6 | 1276.3 | 87.13 |
| 29.7 | 136.0 | 2583.0 | 4035.0 | 3510.2 | 1297.7 | 86.99 |
| 29.7 | 138.0 | 2573.9 | 4093.5 | 3555.6 | 1319.1 | 86.86 |
| 29.7 | 140.0 | 2564.9 | 4152.0 | 3600.8 | 1340.6 | 86.72 |
| 29.7 | 142.0 | 2556.0 | 4210.5 | 3645.9 | 1362.1 | 86.59 |
| 29.6 | 144.0 | 2547.2 | 4269.0 | 3690.9 | 1383.7 | 86.46 |
| 29.6 | 146.0 | 2538.5 | 4327.4 | 3735.8 | 1405.3 | 86.33 |
| 29.6 | 148.0 | 2529.9 | 4385.8 | 3780.5 | 1427.0 | 86.20 |
| 29.6 | 150.0 | 2521.3 | 4444.2 | 3825.2 | 1448.8 | 86.07 |
| 29.6 | 152.0 | 2512.8 | 4502.6 | 3869.7 | 1470.6 | 85.94 |
| 29.6 | 154.0 | 2504.5 | 4561.0 | 3914.1 | 1492.4 | 85.82 |
| 29.6 | 156.0 | 2496.2 | 4619.3 | 3958.4 | 1514.3 | 85.69 |
| 29.6 | 158.0 | 2488.0 | 4677.6 | 4002.6 | 1536.3 | 85.57 |
| 29.6 | 160.0 | 2479.9 | 4735.9 | 4046.7 | 1558.3 | 85.45 |



## NOVA 15/50/B4 S P30 HF inkl. MST 60/260

Spannung: 35 V

nl=3836.3.6U/min  
ns=111.0U/min/V

Io=7.2A  
kn=-6.29U/min/A

kM=10.10Ncm/A

| Spannung<br>[V] | Strom<br>[A] | Drehzahl<br>[U/min] | Pin<br>[W] | Pout<br>[W] | Drehmoment<br>[Ncm] | Wirkungsgrad<br>[%] |
|-----------------|--------------|---------------------|------------|-------------|---------------------|---------------------|
| 34.9            | 12.0         | 3852.8              | 419.0      | 289.2       | 71.7                | 69.00               |
| 34.9            | 14.0         | 3836.4              | 488.8      | 361.5       | 90.0                | 73.95               |
| 34.9            | 16.0         | 3820.1              | 558.5      | 433.3       | 108.3               | 77.59               |
| 34.9            | 18.0         | 3803.9              | 628.2      | 504.8       | 126.7               | 80.36               |
| 34.9            | 20.0         | 3787.9              | 697.9      | 575.9       | 145.2               | 82.52               |
| 34.9            | 22.0         | 3771.9              | 767.6      | 646.6       | 163.7               | 84.24               |
| 34.9            | 24.0         | 3756.0              | 837.2      | 716.9       | 182.3               | 85.63               |
| 34.9            | 26.0         | 3740.3              | 906.8      | 786.8       | 200.9               | 86.76               |
| 34.9            | 28.0         | 3724.6              | 976.4      | 856.3       | 219.5               | 87.70               |
| 34.9            | 30.0         | 3709.1              | 1046.0     | 925.5       | 238.3               | 88.48               |
| 34.9            | 32.0         | 3693.6              | 1115.5     | 994.2       | 257.0               | 89.13               |
| 34.9            | 34.0         | 3678.3              | 1185.0     | 1062.6      | 275.9               | 89.67               |
| 34.8            | 36.0         | 3663.1              | 1254.5     | 1130.6      | 294.7               | 90.12               |
| 34.8            | 38.0         | 3647.9              | 1324.0     | 1198.2      | 313.7               | 90.50               |
| 34.8            | 40.0         | 3632.9              | 1393.5     | 1265.5      | 332.6               | 90.82               |
| 34.8            | 42.0         | 3618.0              | 1462.9     | 1332.4      | 351.7               | 91.08               |
| 34.8            | 44.0         | 3603.2              | 1532.3     | 1399.0      | 370.8               | 91.30               |
| 34.8            | 46.0         | 3588.5              | 1601.7     | 1465.2      | 389.9               | 91.48               |
| 34.8            | 48.0         | 3573.8              | 1671.0     | 1531.0      | 409.1               | 91.62               |
| 34.8            | 50.0         | 3559.3              | 1740.3     | 1596.5      | 428.3               | 91.74               |
| 34.8            | 52.0         | 3544.9              | 1809.6     | 1661.7      | 447.6               | 91.82               |
| 34.8            | 54.0         | 3530.6              | 1878.9     | 1726.5      | 467.0               | 91.89               |
| 34.8            | 56.0         | 3516.4              | 1948.2     | 1791.0      | 486.4               | 91.93               |
| 34.8            | 58.0         | 3502.4              | 2017.4     | 1855.2      | 505.8               | 91.96               |
| 34.8            | 60.0         | 3488.4              | 2086.6     | 1919.0      | 525.3               | 91.97               |
| 34.8            | 62.0         | 3474.5              | 2155.8     | 1982.5      | 544.9               | 91.96               |
| 34.8            | 64.0         | 3460.7              | 2225.0     | 2045.7      | 564.5               | 91.94               |
| 34.8            | 66.0         | 3447.0              | 2294.1     | 2108.6      | 584.1               | 91.91               |
| 34.8            | 68.0         | 3433.5              | 2363.2     | 2171.1      | 603.8               | 91.87               |
| 34.7            | 70.0         | 3420.0              | 2432.3     | 2233.4      | 623.6               | 91.82               |
| 34.7            | 72.0         | 3406.6              | 2501.4     | 2295.3      | 643.4               | 91.76               |
| 34.7            | 74.0         | 3393.4              | 2570.4     | 2357.0      | 663.3               | 91.70               |
| 34.7            | 76.0         | 3380.2              | 2639.4     | 2418.4      | 683.2               | 91.62               |
| 34.7            | 78.0         | 3367.2              | 2708.4     | 2479.5      | 703.2               | 91.55               |
| 34.7            | 80.0         | 3354.2              | 2777.4     | 2540.3      | 723.2               | 91.46               |
| 34.7            | 82.0         | 3341.4              | 2846.4     | 2600.8      | 743.3               | 91.37               |
| 34.7            | 84.0         | 3328.6              | 2915.3     | 2661.0      | 763.4               | 91.28               |
| 34.7            | 86.0         | 3316.0              | 2984.2     | 2721.0      | 783.6               | 91.18               |
| 34.7            | 88.0         | 3303.5              | 3053.1     | 2780.7      | 803.8               | 91.08               |
| 34.7            | 90.0         | 3291.1              | 3121.9     | 2840.1      | 824.1               | 90.97               |
| 34.7            | 92.0         | 3278.7              | 3190.7     | 2899.3      | 844.4               | 90.87               |
| 34.7            | 94.0         | 3266.5              | 3259.5     | 2958.3      | 864.8               | 90.76               |
| 34.7            | 96.0         | 3254.4              | 3328.3     | 3017.0      | 885.3               | 90.65               |

|      |       |        |        |        |        |       |
|------|-------|--------|--------|--------|--------|-------|
| 34.7 | 98.0  | 3242.4 | 3397.1 | 3075.4 | 905.7  | 90.53 |
| 34.7 | 100.0 | 3230.5 | 3465.8 | 3133.6 | 926.3  | 90.42 |
| 34.7 | 102.0 | 3218.7 | 3534.5 | 3191.6 | 946.9  | 90.30 |
| 34.6 | 104.0 | 3207.0 | 3603.2 | 3249.3 | 967.5  | 90.18 |
| 34.6 | 106.0 | 3195.4 | 3671.9 | 3306.9 | 988.2  | 90.06 |
| 34.6 | 108.0 | 3183.9 | 3740.5 | 3364.2 | 1009.0 | 89.94 |
| 34.6 | 110.0 | 3172.5 | 3809.1 | 3421.2 | 1029.8 | 89.82 |
| 34.6 | 112.0 | 3161.2 | 3877.7 | 3478.1 | 1050.7 | 89.70 |
| 34.6 | 114.0 | 3150.1 | 3946.3 | 3534.8 | 1071.6 | 89.57 |
| 34.6 | 116.0 | 3139.0 | 4014.8 | 3591.3 | 1092.5 | 89.45 |
| 34.6 | 118.0 | 3128.0 | 4083.3 | 3647.6 | 1113.5 | 89.33 |
| 34.6 | 120.0 | 3117.2 | 4151.8 | 3703.7 | 1134.6 | 89.21 |
| 34.6 | 122.0 | 3106.4 | 4220.3 | 3759.6 | 1155.7 | 89.08 |
| 34.6 | 124.0 | 3095.7 | 4288.8 | 3815.3 | 1176.9 | 88.96 |
| 34.6 | 126.0 | 3085.2 | 4357.2 | 3870.9 | 1198.1 | 88.84 |
| 34.6 | 128.0 | 3074.7 | 4425.6 | 3926.3 | 1219.4 | 88.72 |
| 34.6 | 130.0 | 3064.4 | 4494.0 | 3981.5 | 1240.7 | 88.60 |
| 34.6 | 132.0 | 3054.2 | 4562.3 | 4036.5 | 1262.1 | 88.48 |
| 34.6 | 134.0 | 3044.0 | 4630.6 | 4091.5 | 1283.5 | 88.36 |
| 34.6 | 136.0 | 3034.0 | 4698.9 | 4146.2 | 1305.0 | 88.24 |
| 34.5 | 138.0 | 3024.1 | 4767.2 | 4200.9 | 1326.5 | 88.12 |
| 34.5 | 140.0 | 3014.2 | 4835.5 | 4255.4 | 1348.1 | 88.00 |
| 34.5 | 142.0 | 3004.5 | 4903.7 | 4309.7 | 1369.8 | 87.89 |
| 34.5 | 144.0 | 2994.9 | 4971.9 | 4363.9 | 1391.5 | 87.77 |
| 34.5 | 146.0 | 2985.4 | 5040.1 | 4418.1 | 1413.2 | 87.66 |
| 34.5 | 148.0 | 2976.0 | 5108.3 | 4472.1 | 1435.0 | 87.55 |
| 34.5 | 150.0 | 2966.7 | 5176.4 | 4526.0 | 1456.8 | 87.43 |
| 34.5 | 152.0 | 2957.5 | 5244.5 | 4579.7 | 1478.7 | 87.32 |
| 34.5 | 154.0 | 2948.4 | 5312.6 | 4633.4 | 1500.7 | 87.22 |
| 34.5 | 156.0 | 2939.4 | 5380.7 | 4687.0 | 1522.7 | 87.11 |
| 34.5 | 158.0 | 2930.5 | 5448.7 | 4740.5 | 1544.7 | 87.00 |
| 34.5 | 160.0 | 2921.7 | 5516.7 | 4794.0 | 1566.9 | 86.90 |

**NOVA 15/50/B4 S P30 HF inkl. MST 60/260**

Spannung: 40 V

nl=4373.8U/min  
ns=110.6U/min/VIo=8.0A  
kn=-6.79U/min/A

kM=10.20Ncm/A

| Spannung<br>[V] | Strom<br>[A] | Drehzahl<br>[U/min] | Pin<br>[W] | Pout<br>[W] | Drehmoment<br>[Ncm] | Wirkungsgrad<br>[%] |
|-----------------|--------------|---------------------|------------|-------------|---------------------|---------------------|
| 40.0            | 14.0         | 4389.1              | 560.1      | 406.1       | 88.4                | 72.51               |
| 40.0            | 16.0         | 4371.1              | 640.0      | 488.4       | 106.7               | 76.31               |
| 40.0            | 18.0         | 4353.3              | 719.9      | 570.3       | 125.1               | 79.21               |
| 40.0            | 20.0         | 4335.6              | 799.8      | 651.7       | 143.5               | 81.49               |
| 40.0            | 22.0         | 4318.1              | 879.7      | 732.8       | 162.0               | 83.30               |
| 40.0            | 24.0         | 4300.6              | 959.5      | 813.4       | 180.6               | 84.77               |
| 40.0            | 26.0         | 4283.2              | 1039.3     | 893.6       | 199.2               | 85.98               |
| 40.0            | 28.0         | 4266.0              | 1119.1     | 973.3       | 217.9               | 86.98               |
| 40.0            | 30.0         | 4248.9              | 1198.8     | 1052.7      | 236.6               | 87.81               |
| 40.0            | 32.0         | 4231.8              | 1278.6     | 1131.7      | 255.4               | 88.51               |
| 39.9            | 34.0         | 4214.9              | 1358.3     | 1210.3      | 274.2               | 89.10               |
| 39.9            | 36.0         | 4198.2              | 1438.0     | 1288.4      | 293.1               | 89.60               |
| 39.9            | 38.0         | 4181.5              | 1517.6     | 1366.2      | 312.0               | 90.02               |
| 39.9            | 40.0         | 4164.9              | 1597.3     | 1443.6      | 331.0               | 90.38               |
| 39.9            | 42.0         | 4148.5              | 1676.9     | 1520.7      | 350.0               | 90.68               |
| 39.9            | 44.0         | 4132.1              | 1756.5     | 1597.3      | 369.1               | 90.94               |
| 39.9            | 46.0         | 4115.9              | 1836.0     | 1673.6      | 388.3               | 91.15               |
| 39.9            | 48.0         | 4099.8              | 1915.6     | 1749.5      | 407.5               | 91.33               |
| 39.9            | 50.0         | 4083.8              | 1995.1     | 1825.0      | 426.7               | 91.47               |
| 39.9            | 52.0         | 4067.9              | 2074.6     | 1900.2      | 446.1               | 91.59               |
| 39.9            | 54.0         | 4052.2              | 2154.1     | 1975.0      | 465.4               | 91.68               |
| 39.9            | 56.0         | 4036.5              | 2233.6     | 2049.4      | 484.8               | 91.76               |
| 39.9            | 58.0         | 4021.0              | 2313.0     | 2123.5      | 504.3               | 91.81               |
| 39.9            | 60.0         | 4005.5              | 2392.4     | 2197.3      | 523.8               | 91.85               |
| 39.9            | 62.0         | 3990.2              | 2471.8     | 2270.7      | 543.4               | 91.87               |
| 39.9            | 64.0         | 3975.0              | 2551.1     | 2343.8      | 563.1               | 91.87               |
| 39.9            | 66.0         | 3959.9              | 2630.5     | 2416.5      | 582.7               | 91.87               |
| 39.8            | 68.0         | 3945.0              | 2709.8     | 2489.0      | 602.5               | 91.85               |
| 39.8            | 70.0         | 3930.1              | 2789.1     | 2561.1      | 622.3               | 91.83               |
| 39.8            | 72.0         | 3915.4              | 2868.3     | 2632.8      | 642.1               | 91.79               |
| 39.8            | 74.0         | 3900.7              | 2947.6     | 2704.3      | 662.0               | 91.75               |
| 39.8            | 76.0         | 3886.2              | 3026.8     | 2775.5      | 682.0               | 91.70               |
| 39.8            | 78.0         | 3871.8              | 3106.0     | 2846.3      | 702.0               | 91.64               |
| 39.8            | 80.0         | 3857.5              | 3185.2     | 2916.9      | 722.1               | 91.58               |
| 39.8            | 82.0         | 3843.3              | 3264.3     | 2987.1      | 742.2               | 91.51               |
| 39.8            | 84.0         | 3829.3              | 3343.4     | 3057.1      | 762.4               | 91.44               |
| 39.8            | 86.0         | 3815.3              | 3422.5     | 3126.8      | 782.6               | 91.36               |
| 39.8            | 88.0         | 3801.5              | 3501.6     | 3196.2      | 802.9               | 91.28               |
| 39.8            | 90.0         | 3787.8              | 3580.7     | 3265.3      | 823.2               | 91.19               |
| 39.8            | 92.0         | 3774.1              | 3659.7     | 3334.1      | 843.6               | 91.10               |
| 39.8            | 94.0         | 3760.6              | 3738.7     | 3402.7      | 864.0               | 91.01               |
| 39.8            | 96.0         | 3747.3              | 3817.7     | 3471.0      | 884.5               | 90.92               |
| 39.8            | 98.0         | 3734.0              | 3896.7     | 3539.1      | 905.1               | 90.82               |

|      |       |        |        |        |        |       |
|------|-------|--------|--------|--------|--------|-------|
| 39.8 | 100.0 | 3720.8 | 3975.6 | 3606.9 | 925.7  | 90.73 |
| 39.8 | 102.0 | 3707.8 | 4054.5 | 3674.5 | 946.4  | 90.63 |
| 39.7 | 104.0 | 3694.9 | 4133.4 | 3741.8 | 967.1  | 90.53 |
| 39.7 | 106.0 | 3682.0 | 4212.3 | 3808.9 | 987.8  | 90.42 |
| 39.7 | 108.0 | 3669.3 | 4291.1 | 3875.8 | 1008.7 | 90.32 |
| 39.7 | 110.0 | 3656.7 | 4369.9 | 3942.4 | 1029.5 | 90.22 |
| 39.7 | 112.0 | 3644.3 | 4448.7 | 4008.8 | 1050.5 | 90.11 |
| 39.7 | 114.0 | 3631.9 | 4527.5 | 4075.0 | 1071.4 | 90.01 |
| 39.7 | 116.0 | 3619.7 | 4606.3 | 4141.0 | 1092.5 | 89.90 |
| 39.7 | 118.0 | 3607.5 | 4685.0 | 4206.8 | 1113.6 | 89.79 |
| 39.7 | 120.0 | 3595.5 | 4763.7 | 4272.4 | 1134.7 | 89.69 |
| 39.7 | 122.0 | 3583.6 | 4842.4 | 4337.8 | 1155.9 | 89.58 |
| 39.7 | 124.0 | 3571.8 | 4921.0 | 4403.0 | 1177.2 | 89.47 |
| 39.7 | 126.0 | 3560.1 | 4999.6 | 4468.0 | 1198.5 | 89.37 |
| 39.7 | 128.0 | 3548.5 | 5078.3 | 4532.9 | 1219.8 | 89.26 |
| 39.7 | 130.0 | 3537.1 | 5156.8 | 4597.6 | 1241.2 | 89.15 |
| 39.7 | 132.0 | 3525.7 | 5235.4 | 4662.1 | 1262.7 | 89.05 |
| 39.7 | 134.0 | 3514.5 | 5313.9 | 4726.5 | 1284.2 | 88.94 |
| 39.7 | 136.0 | 3503.4 | 5392.5 | 4790.7 | 1305.8 | 88.84 |
| 39.6 | 138.0 | 3492.4 | 5471.0 | 4854.7 | 1327.4 | 88.74 |
| 39.6 | 140.0 | 3481.5 | 5549.4 | 4918.6 | 1349.1 | 88.63 |
| 39.6 | 142.0 | 3470.7 | 5627.9 | 4982.4 | 1370.9 | 88.53 |
| 39.6 | 144.0 | 3460.1 | 5706.3 | 5046.1 | 1392.6 | 88.43 |
| 39.6 | 146.0 | 3449.5 | 5784.7 | 5109.6 | 1414.5 | 88.33 |
| 39.6 | 148.0 | 3439.1 | 5863.1 | 5173.0 | 1436.4 | 88.23 |
| 39.6 | 150.0 | 3428.7 | 5941.4 | 5236.3 | 1458.3 | 88.13 |
| 39.6 | 152.0 | 3418.5 | 6019.7 | 5299.5 | 1480.4 | 88.04 |
| 39.6 | 154.0 | 3408.4 | 6098.0 | 5362.6 | 1502.4 | 87.94 |
| 39.6 | 156.0 | 3398.5 | 6176.3 | 5425.6 | 1524.5 | 87.84 |
| 39.6 | 158.0 | 3388.6 | 6254.6 | 5488.5 | 1546.7 | 87.75 |
| 39.6 | 160.0 | 3378.8 | 6332.8 | 5551.3 | 1568.9 | 87.66 |
| 39.6 | 162.0 | 3369.2 | 6411.0 | 5614.1 | 1591.2 | 87.57 |
| 39.6 | 164.0 | 3359.7 | 6489.2 | 5676.8 | 1613.5 | 87.48 |
| 39.6 | 166.0 | 3350.3 | 6567.4 | 5739.4 | 1635.9 | 87.39 |
| 39.6 | 168.0 | 3340.9 | 6645.5 | 5802.0 | 1658.4 | 87.31 |
| 39.6 | 170.0 | 3331.8 | 6723.6 | 5864.5 | 1680.8 | 87.22 |





## NOVA 15/50/B4 S P30 HF inkl. MST 60/260

Spannung: 45 V

nl=4899.1U/min  
ns=110.2U/min/V

Io=8.3A  
kn=-7.34U/min/A

kM=10.25Ncm/A

| Spannung<br>[V] | Strom<br>[A] | Drehzahl<br>[U/min] | Pin<br>[W] | Pout<br>[W] | Drehmoment<br>[Ncm] | Wirkungsgrad<br>[%] |
|-----------------|--------------|---------------------|------------|-------------|---------------------|---------------------|
| 45.0            | 16.0         | 4903.3              | 719.3      | 534.5       | 104.1               | 74.31               |
| 44.9            | 18.0         | 4883.9              | 809.1      | 627.0       | 122.6               | 77.50               |
| 44.9            | 20.0         | 4864.6              | 898.9      | 719.1       | 141.2               | 80.00               |
| 44.9            | 22.0         | 4845.4              | 988.6      | 810.7       | 159.8               | 82.01               |
| 44.9            | 24.0         | 4826.4              | 1078.3     | 901.9       | 178.4               | 83.63               |
| 44.9            | 26.0         | 4807.5              | 1168.1     | 992.6       | 197.2               | 84.98               |
| 44.9            | 28.0         | 4788.7              | 1257.7     | 1082.8      | 215.9               | 86.09               |
| 44.9            | 30.0         | 4770.0              | 1347.4     | 1172.6      | 234.8               | 87.03               |
| 44.9            | 32.0         | 4751.5              | 1437.0     | 1262.0      | 253.6               | 87.82               |
| 44.9            | 34.0         | 4733.1              | 1526.6     | 1350.9      | 272.6               | 88.49               |
| 44.9            | 36.0         | 4714.8              | 1616.2     | 1439.4      | 291.5               | 89.06               |
| 44.9            | 38.0         | 4696.6              | 1705.8     | 1527.5      | 310.6               | 89.55               |
| 44.9            | 40.0         | 4678.6              | 1795.3     | 1615.1      | 329.7               | 89.96               |
| 44.9            | 42.0         | 4660.7              | 1884.8     | 1702.4      | 348.8               | 90.32               |
| 44.9            | 44.0         | 4642.9              | 1974.3     | 1789.2      | 368.0               | 90.62               |
| 44.9            | 46.0         | 4625.2              | 2063.8     | 1875.6      | 387.2               | 90.88               |
| 44.9            | 48.0         | 4607.7              | 2153.2     | 1961.6      | 406.5               | 91.10               |
| 44.9            | 50.0         | 4590.3              | 2242.6     | 2047.2      | 425.9               | 91.29               |
| 44.8            | 52.0         | 4573.0              | 2332.0     | 2132.4      | 445.3               | 91.44               |
| 44.8            | 54.0         | 4555.8              | 2421.4     | 2217.2      | 464.7               | 91.57               |
| 44.8            | 56.0         | 4538.8              | 2510.8     | 2301.7      | 484.3               | 91.67               |
| 44.8            | 58.0         | 4521.9              | 2600.1     | 2385.7      | 503.8               | 91.76               |
| 44.8            | 60.0         | 4505.1              | 2689.4     | 2469.4      | 523.4               | 91.82               |
| 44.8            | 62.0         | 4488.4              | 2778.7     | 2552.7      | 543.1               | 91.87               |
| 44.8            | 64.0         | 4471.9              | 2867.9     | 2635.7      | 562.8               | 91.90               |
| 44.8            | 66.0         | 4455.5              | 2957.1     | 2718.3      | 582.6               | 91.92               |
| 44.8            | 68.0         | 4439.2              | 3046.3     | 2800.5      | 602.4               | 91.93               |
| 44.8            | 70.0         | 4423.0              | 3135.5     | 2882.4      | 622.3               | 91.93               |
| 44.8            | 72.0         | 4407.0              | 3224.7     | 2963.9      | 642.2               | 91.91               |
| 44.8            | 74.0         | 4391.1              | 3313.8     | 3045.1      | 662.2               | 91.89               |
| 44.8            | 76.0         | 4375.3              | 3402.9     | 3126.0      | 682.3               | 91.86               |
| 44.8            | 78.0         | 4359.7              | 3492.0     | 3206.5      | 702.3               | 91.82               |
| 44.8            | 80.0         | 4344.1              | 3581.0     | 3286.7      | 722.5               | 91.78               |
| 44.8            | 82.0         | 4328.7              | 3670.1     | 3366.6      | 742.7               | 91.73               |
| 44.8            | 84.0         | 4313.4              | 3759.1     | 3446.2      | 762.9               | 91.68               |
| 44.7            | 86.0         | 4298.3              | 3848.1     | 3525.4      | 783.2               | 91.62               |
| 44.7            | 88.0         | 4283.2              | 3937.0     | 3604.4      | 803.6               | 91.55               |
| 44.7            | 90.0         | 4268.3              | 4026.0     | 3683.1      | 824.0               | 91.48               |
| 44.7            | 92.0         | 4253.5              | 4114.9     | 3761.4      | 844.5               | 91.41               |
| 44.7            | 94.0         | 4238.9              | 4203.8     | 3839.5      | 865.0               | 91.34               |
| 44.7            | 96.0         | 4224.4              | 4292.6     | 3917.3      | 885.5               | 91.26               |
| 44.7            | 98.0         | 4210.0              | 4381.5     | 3994.9      | 906.1               | 91.18               |
| 44.7            | 100.0        | 4195.7              | 4470.3     | 4072.1      | 926.8               | 91.09               |

|      |       |        |        |        |        |       |
|------|-------|--------|--------|--------|--------|-------|
| 44.7 | 102.0 | 4181.5 | 4559.1 | 4149.2 | 947.5  | 91.01 |
| 44.7 | 104.0 | 4167.5 | 4647.8 | 4225.9 | 968.3  | 90.92 |
| 44.7 | 106.0 | 4153.6 | 4736.6 | 4302.4 | 989.1  | 90.83 |
| 44.7 | 108.0 | 4139.8 | 4825.3 | 4378.6 | 1010.0 | 90.74 |
| 44.7 | 110.0 | 4126.1 | 4914.0 | 4454.7 | 1031.0 | 90.65 |
| 44.7 | 112.0 | 4112.6 | 5002.7 | 4530.4 | 1051.9 | 90.56 |
| 44.7 | 114.0 | 4099.2 | 5091.3 | 4606.0 | 1073.0 | 90.47 |
| 44.7 | 116.0 | 4085.9 | 5180.0 | 4681.3 | 1094.1 | 90.37 |
| 44.6 | 118.0 | 4072.8 | 5268.6 | 4756.4 | 1115.2 | 90.28 |
| 44.6 | 120.0 | 4059.7 | 5357.1 | 4831.3 | 1136.4 | 90.18 |
| 44.6 | 122.0 | 4046.8 | 5445.7 | 4906.0 | 1157.7 | 90.09 |
| 44.6 | 124.0 | 4034.0 | 5534.2 | 4980.5 | 1179.0 | 89.99 |
| 44.6 | 126.0 | 4021.4 | 5622.7 | 5054.8 | 1200.3 | 89.90 |
| 44.6 | 128.0 | 4008.8 | 5711.2 | 5129.0 | 1221.7 | 89.81 |
| 44.6 | 130.0 | 3996.4 | 5799.7 | 5202.9 | 1243.2 | 89.71 |
| 44.6 | 132.0 | 3984.2 | 5888.1 | 5276.7 | 1264.7 | 89.62 |
| 44.6 | 134.0 | 3972.0 | 5976.5 | 5350.3 | 1286.3 | 89.52 |
| 44.6 | 136.0 | 3960.0 | 6064.9 | 5423.7 | 1307.9 | 89.43 |
| 44.6 | 138.0 | 3948.1 | 6153.3 | 5497.0 | 1329.6 | 89.34 |
| 44.6 | 140.0 | 3936.3 | 6241.6 | 5570.2 | 1351.3 | 89.24 |
| 44.6 | 142.0 | 3924.6 | 6329.9 | 5643.2 | 1373.1 | 89.15 |
| 44.6 | 144.0 | 3913.1 | 6418.2 | 5716.1 | 1394.9 | 89.06 |
| 44.6 | 146.0 | 3901.7 | 6506.5 | 5788.8 | 1416.8 | 88.97 |
| 44.6 | 148.0 | 3890.4 | 6594.7 | 5861.5 | 1438.7 | 88.88 |
| 44.6 | 150.0 | 3879.3 | 6682.9 | 5934.0 | 1460.7 | 88.79 |
| 44.5 | 152.0 | 3868.2 | 6771.1 | 6006.4 | 1482.8 | 88.71 |
| 44.5 | 154.0 | 3857.3 | 6859.3 | 6078.7 | 1504.9 | 88.62 |
| 44.5 | 156.0 | 3846.6 | 6947.4 | 6151.0 | 1527.0 | 88.54 |
| 44.5 | 158.0 | 3835.9 | 7035.5 | 6223.1 | 1549.2 | 88.45 |
| 44.5 | 160.0 | 3825.4 | 7123.6 | 6295.2 | 1571.5 | 88.37 |
| 44.5 | 162.0 | 3815.0 | 7211.7 | 6367.2 | 1593.8 | 88.29 |
| 44.5 | 164.0 | 3804.7 | 7299.8 | 6439.1 | 1616.1 | 88.21 |
| 44.5 | 166.0 | 3794.5 | 7387.8 | 6511.0 | 1638.5 | 88.13 |
| 44.5 | 168.0 | 3784.5 | 7475.8 | 6582.8 | 1661.0 | 88.05 |
| 44.5 | 170.0 | 3774.6 | 7563.8 | 6654.6 | 1683.5 | 87.98 |



## NOVA 15/50/B4 S P30 HF inkl. MST 60/260

Spannung: 50 V

nl=5392.5U/min  
ns=109.3U/min/V

Io=8.6A  
kn=-7.60U/min/A

kM=10.33Ncm/A

| Spannung [V] | Strom [A] | Drehzahl [U/min] | Pin [W] | Pout [W] | Drehmoment [Ncm] | Wirkungsgrad [%] |
|--------------|-----------|------------------|---------|----------|------------------|------------------|
| 49.9         | 20.0      | 5371.9           | 997.8   | 794.7    | 141.3            | 79.64            |
| 49.9         | 22.0      | 5351.7           | 1097.5  | 897.7    | 160.2            | 81.80            |
| 49.9         | 24.0      | 5331.6           | 1197.1  | 1000.2   | 179.1            | 83.55            |
| 49.9         | 26.0      | 5311.6           | 1296.7  | 1102.2   | 198.2            | 85.00            |
| 49.9         | 28.0      | 5291.8           | 1396.3  | 1203.6   | 217.2            | 86.20            |
| 49.9         | 30.0      | 5272.1           | 1495.8  | 1304.6   | 236.3            | 87.21            |
| 49.9         | 32.0      | 5252.5           | 1595.4  | 1405.0   | 255.4            | 88.07            |
| 49.8         | 34.0      | 5233.0           | 1694.9  | 1505.0   | 274.6            | 88.79            |
| 49.8         | 36.0      | 5213.7           | 1794.4  | 1604.4   | 293.9            | 89.41            |
| 49.8         | 38.0      | 5194.5           | 1893.8  | 1703.3   | 313.1            | 89.94            |
| 49.8         | 40.0      | 5175.4           | 1993.3  | 1801.8   | 332.5            | 90.39            |
| 49.8         | 42.0      | 5156.4           | 2092.7  | 1899.8   | 351.8            | 90.78            |
| 49.8         | 44.0      | 5137.6           | 2192.1  | 1997.3   | 371.2            | 91.11            |
| 49.8         | 46.0      | 5118.9           | 2291.4  | 2094.3   | 390.7            | 91.40            |
| 49.8         | 48.0      | 5100.4           | 2390.8  | 2190.8   | 410.2            | 91.64            |
| 49.8         | 50.0      | 5081.9           | 2490.1  | 2286.9   | 429.7            | 91.84            |
| 49.8         | 52.0      | 5063.6           | 2589.4  | 2382.5   | 449.3            | 92.01            |
| 49.8         | 54.0      | 5045.5           | 2688.6  | 2477.7   | 468.9            | 92.15            |
| 49.8         | 56.0      | 5027.4           | 2787.9  | 2572.4   | 488.6            | 92.27            |
| 49.8         | 58.0      | 5009.5           | 2887.1  | 2666.7   | 508.3            | 92.37            |
| 49.8         | 60.0      | 4991.7           | 2986.3  | 2760.5   | 528.1            | 92.44            |
| 49.8         | 62.0      | 4974.0           | 3085.5  | 2853.9   | 547.9            | 92.50            |
| 49.8         | 64.0      | 4956.5           | 3184.6  | 2946.9   | 567.8            | 92.54            |
| 49.8         | 66.0      | 4939.1           | 3283.8  | 3039.5   | 587.7            | 92.56            |
| 49.7         | 68.0      | 4921.8           | 3382.9  | 3131.6   | 607.6            | 92.57            |
| 49.7         | 70.0      | 4904.6           | 3481.9  | 3223.4   | 627.6            | 92.57            |
| 49.7         | 72.0      | 4887.6           | 3581.0  | 3314.7   | 647.6            | 92.56            |
| 49.7         | 74.0      | 4870.7           | 3680.0  | 3405.7   | 667.7            | 92.54            |
| 49.7         | 76.0      | 4854.0           | 3779.0  | 3496.2   | 687.8            | 92.52            |
| 49.7         | 78.0      | 4837.3           | 3878.0  | 3586.4   | 708.0            | 92.48            |
| 49.7         | 80.0      | 4820.8           | 3977.0  | 3676.2   | 728.2            | 92.44            |
| 49.7         | 82.0      | 4804.4           | 4075.9  | 3765.6   | 748.4            | 92.39            |
| 49.7         | 84.0      | 4788.2           | 4174.8  | 3854.6   | 768.7            | 92.33            |
| 49.7         | 86.0      | 4772.1           | 4273.7  | 3943.3   | 789.1            | 92.27            |
| 49.7         | 88.0      | 4756.1           | 4372.6  | 4031.6   | 809.5            | 92.20            |
| 49.7         | 90.0      | 4740.2           | 4471.4  | 4119.6   | 829.9            | 92.13            |
| 49.7         | 92.0      | 4724.5           | 4570.2  | 4207.2   | 850.4            | 92.06            |
| 49.7         | 94.0      | 4708.8           | 4669.0  | 4294.5   | 870.9            | 91.98            |
| 49.7         | 96.0      | 4693.4           | 4767.8  | 4381.5   | 891.5            | 91.90            |
| 49.7         | 98.0      | 4678.0           | 4866.5  | 4468.1   | 912.1            | 91.81            |
| 49.7         | 100.0     | 4662.8           | 4965.2  | 4554.4   | 932.7            | 91.73            |
| 49.6         | 102.0     | 4647.7           | 5063.9  | 4640.4   | 953.4            | 91.64            |
| 49.6         | 104.0     | 4632.7           | 5162.6  | 4726.1   | 974.2            | 91.54            |

|      |       |        |        |        |        |       |
|------|-------|--------|--------|--------|--------|-------|
| 49.6 | 106.0 | 4617.9 | 5261.2 | 4811.5 | 995.0  | 91.45 |
| 49.6 | 108.0 | 4603.2 | 5359.9 | 4896.5 | 1015.8 | 91.36 |
| 49.6 | 110.0 | 4588.6 | 5458.5 | 4981.3 | 1036.7 | 91.26 |
| 49.6 | 112.0 | 4574.1 | 5557.0 | 5065.9 | 1057.6 | 91.16 |
| 49.6 | 114.0 | 4559.8 | 5655.6 | 5150.1 | 1078.6 | 91.06 |
| 49.6 | 116.0 | 4545.6 | 5754.1 | 5234.1 | 1099.6 | 90.96 |
| 49.6 | 118.0 | 4531.5 | 5852.6 | 5317.8 | 1120.6 | 90.86 |
| 49.6 | 120.0 | 4517.6 | 5951.1 | 5401.2 | 1141.7 | 90.76 |
| 49.6 | 122.0 | 4503.8 | 6049.6 | 5484.4 | 1162.9 | 90.66 |
| 49.6 | 124.0 | 4490.1 | 6148.0 | 5567.4 | 1184.1 | 90.56 |
| 49.6 | 126.0 | 4476.5 | 6246.4 | 5650.1 | 1205.3 | 90.45 |
| 49.6 | 128.0 | 4463.1 | 6344.8 | 5732.6 | 1226.6 | 90.35 |
| 49.6 | 130.0 | 4449.8 | 6443.1 | 5814.9 | 1247.9 | 90.25 |
| 49.6 | 132.0 | 4436.6 | 6541.5 | 5896.9 | 1269.2 | 90.15 |
| 49.6 | 134.0 | 4423.6 | 6639.8 | 5978.8 | 1290.7 | 90.04 |
| 49.5 | 136.0 | 4410.6 | 6738.1 | 6060.4 | 1312.1 | 89.94 |
| 49.5 | 138.0 | 4397.9 | 6836.3 | 6141.9 | 1333.6 | 89.84 |
| 49.5 | 140.0 | 4385.2 | 6934.6 | 6223.1 | 1355.2 | 89.74 |
| 49.5 | 142.0 | 4372.7 | 7032.8 | 6304.2 | 1376.7 | 89.64 |
| 49.5 | 144.0 | 4360.3 | 7131.0 | 6385.1 | 1398.4 | 89.54 |
| 49.5 | 146.0 | 4348.0 | 7229.2 | 6465.8 | 1420.1 | 89.44 |
| 49.5 | 148.0 | 4335.8 | 7327.3 | 6546.4 | 1441.8 | 89.34 |
| 49.5 | 150.0 | 4323.8 | 7425.4 | 6626.8 | 1463.5 | 89.24 |
| 49.5 | 152.0 | 4311.9 | 7523.5 | 6707.0 | 1485.4 | 89.15 |
| 49.5 | 154.0 | 4300.2 | 7621.6 | 6787.2 | 1507.2 | 89.05 |
| 49.5 | 156.0 | 4288.5 | 7719.7 | 6867.2 | 1529.1 | 88.96 |
| 49.5 | 158.0 | 4277.0 | 7817.7 | 6947.0 | 1551.1 | 88.86 |
| 49.5 | 160.0 | 4265.7 | 7915.7 | 7026.8 | 1573.0 | 88.77 |
| 49.5 | 162.0 | 4254.4 | 8013.7 | 7106.4 | 1595.1 | 88.68 |
| 49.5 | 164.0 | 4243.3 | 8111.6 | 7185.9 | 1617.2 | 88.59 |
| 49.5 | 166.0 | 4232.3 | 8209.5 | 7265.4 | 1639.3 | 88.50 |
| 49.4 | 168.0 | 4221.4 | 8307.4 | 7344.7 | 1661.4 | 88.41 |
| 49.4 | 170.0 | 4210.7 | 8405.3 | 7424.0 | 1683.7 | 88.32 |
| 49.4 | 172.0 | 4200.1 | 8503.2 | 7503.1 | 1705.9 | 88.24 |
| 49.4 | 174.0 | 4189.6 | 8601.0 | 7582.3 | 1728.2 | 88.16 |
| 49.4 | 176.0 | 4179.3 | 8698.8 | 7661.3 | 1750.6 | 88.07 |
| 49.4 | 178.0 | 4169.1 | 8796.6 | 7740.3 | 1772.9 | 87.99 |
| 49.4 | 180.0 | 4159.0 | 8894.4 | 7819.3 | 1795.4 | 87.91 |



## NOVA 15/50/B4 S P30 HF inkl. MST 60/260

Spannung: 52 V

nl=5612.5U/min  
ns=109.2U/min/V

Io=8.6A  
kn=-7.84U/min/A

kM=10.37Ncm/A

| Spannung [V] | Strom [A] | Drehzahl [U/min] | Pin [W] | Pout [W] | Drehmoment [Ncm] | Wirkungsgrad [%] |
|--------------|-----------|------------------|---------|----------|------------------|------------------|
| 51.9         | 20.0      | 5593.4           | 1038.9  | 822.7    | 140.5            | 79.20            |
| 51.9         | 22.0      | 5572.4           | 1142.6  | 930.9    | 159.5            | 81.47            |
| 51.9         | 24.0      | 5551.6           | 1246.3  | 1038.5   | 178.6            | 83.32            |
| 51.9         | 26.0      | 5530.9           | 1350.1  | 1145.5   | 197.8            | 84.85            |
| 51.9         | 28.0      | 5510.3           | 1453.8  | 1252.0   | 217.0            | 86.12            |
| 51.9         | 30.0      | 5489.9           | 1557.4  | 1358.0   | 236.2            | 87.19            |
| 51.9         | 32.0      | 5469.6           | 1661.1  | 1463.4   | 255.5            | 88.10            |
| 51.9         | 34.0      | 5449.4           | 1764.7  | 1568.2   | 274.8            | 88.87            |
| 51.9         | 36.0      | 5429.4           | 1868.3  | 1672.6   | 294.2            | 89.52            |
| 51.9         | 38.0      | 5409.5           | 1971.9  | 1776.4   | 313.6            | 90.09            |
| 51.9         | 40.0      | 5389.7           | 2075.4  | 1879.7   | 333.0            | 90.57            |
| 51.9         | 42.0      | 5370.1           | 2178.9  | 1982.4   | 352.5            | 90.98            |
| 51.9         | 44.0      | 5350.6           | 2282.4  | 2084.7   | 372.1            | 91.34            |
| 51.9         | 46.0      | 5331.2           | 2385.9  | 2186.5   | 391.6            | 91.64            |
| 51.9         | 48.0      | 5312.0           | 2489.4  | 2287.7   | 411.3            | 91.90            |
| 51.9         | 50.0      | 5292.9           | 2592.8  | 2388.5   | 430.9            | 92.12            |
| 51.9         | 52.0      | 5274.0           | 2696.2  | 2488.8   | 450.6            | 92.31            |
| 51.8         | 54.0      | 5255.2           | 2799.6  | 2588.6   | 470.4            | 92.46            |
| 51.8         | 56.0      | 5236.5           | 2903.0  | 2687.9   | 490.2            | 92.59            |
| 51.8         | 58.0      | 5218.0           | 3006.3  | 2786.8   | 510.0            | 92.70            |
| 51.8         | 60.0      | 5199.5           | 3109.6  | 2885.2   | 529.9            | 92.78            |
| 51.8         | 62.0      | 5181.3           | 3212.9  | 2983.2   | 549.8            | 92.85            |
| 51.8         | 64.0      | 5163.1           | 3316.2  | 3080.7   | 569.8            | 92.90            |
| 51.8         | 66.0      | 5145.1           | 3419.5  | 3177.7   | 589.8            | 92.93            |
| 51.8         | 68.0      | 5127.3           | 3522.7  | 3274.3   | 609.8            | 92.95            |
| 51.8         | 70.0      | 5109.5           | 3625.9  | 3370.5   | 629.9            | 92.96            |
| 51.8         | 72.0      | 5091.9           | 3729.1  | 3466.3   | 650.1            | 92.95            |
| 51.8         | 74.0      | 5074.5           | 3832.2  | 3561.6   | 670.2            | 92.94            |
| 51.8         | 76.0      | 5057.2           | 3935.4  | 3656.5   | 690.5            | 92.92            |
| 51.8         | 78.0      | 5040.0           | 4038.5  | 3751.1   | 710.7            | 92.88            |
| 51.8         | 80.0      | 5022.9           | 4141.6  | 3845.2   | 731.0            | 92.84            |
| 51.8         | 82.0      | 5006.0           | 4244.6  | 3938.9   | 751.4            | 92.80            |
| 51.8         | 84.0      | 4989.2           | 4347.7  | 4032.2   | 771.8            | 92.74            |
| 51.8         | 86.0      | 4972.6           | 4450.7  | 4125.2   | 792.2            | 92.69            |
| 51.7         | 88.0      | 4956.0           | 4553.7  | 4217.8   | 812.7            | 92.62            |
| 51.7         | 90.0      | 4939.7           | 4656.7  | 4310.0   | 833.2            | 92.56            |
| 51.7         | 92.0      | 4923.4           | 4759.6  | 4401.8   | 853.8            | 92.48            |
| 51.7         | 94.0      | 4907.3           | 4862.5  | 4493.3   | 874.4            | 92.41            |
| 51.7         | 96.0      | 4891.3           | 4965.4  | 4584.5   | 895.0            | 92.33            |
| 51.7         | 98.0      | 4875.5           | 5068.3  | 4675.3   | 915.7            | 92.24            |
| 51.7         | 100.0     | 4859.8           | 5171.2  | 4765.7   | 936.4            | 92.16            |
| 51.7         | 102.0     | 4844.2           | 5274.0  | 4855.8   | 957.2            | 92.07            |
| 51.7         | 104.0     | 4828.8           | 5376.8  | 4945.7   | 978.0            | 91.98            |

|      |       |        |        |        |        |       |
|------|-------|--------|--------|--------|--------|-------|
| 51.7 | 106.0 | 4813.5 | 5479.6 | 5035.2 | 998.9  | 91.89 |
| 51.7 | 108.0 | 4798.3 | 5582.4 | 5124.3 | 1019.8 | 91.80 |
| 51.7 | 110.0 | 4783.3 | 5685.1 | 5213.2 | 1040.8 | 91.70 |
| 51.7 | 112.0 | 4768.4 | 5787.8 | 5301.8 | 1061.7 | 91.60 |
| 51.7 | 114.0 | 4753.7 | 5890.5 | 5390.1 | 1082.8 | 91.50 |
| 51.7 | 116.0 | 4739.0 | 5993.2 | 5478.1 | 1103.9 | 91.41 |
| 51.7 | 118.0 | 4724.6 | 6095.8 | 5565.9 | 1125.0 | 91.31 |
| 51.7 | 120.0 | 4710.2 | 6198.5 | 5653.4 | 1146.1 | 91.21 |
| 51.6 | 122.0 | 4696.0 | 6301.1 | 5740.6 | 1167.3 | 91.10 |
| 51.6 | 124.0 | 4681.9 | 6403.7 | 5827.6 | 1188.6 | 91.00 |
| 51.6 | 126.0 | 4668.0 | 6506.2 | 5914.3 | 1209.9 | 90.90 |
| 51.6 | 128.0 | 4654.2 | 6608.7 | 6000.8 | 1231.2 | 90.80 |
| 51.6 | 130.0 | 4640.5 | 6711.3 | 6087.0 | 1252.6 | 90.70 |
| 51.6 | 132.0 | 4626.9 | 6813.7 | 6173.0 | 1274.0 | 90.60 |
| 51.6 | 134.0 | 4613.5 | 6916.2 | 6258.8 | 1295.5 | 90.50 |
| 51.6 | 136.0 | 4600.3 | 7018.6 | 6344.4 | 1317.0 | 90.39 |
| 51.6 | 138.0 | 4587.1 | 7121.1 | 6429.8 | 1338.5 | 90.29 |
| 51.6 | 140.0 | 4574.1 | 7223.5 | 6515.0 | 1360.1 | 90.19 |
| 51.6 | 142.0 | 4561.3 | 7325.8 | 6600.0 | 1381.8 | 90.09 |
| 51.6 | 144.0 | 4548.5 | 7428.2 | 6684.9 | 1403.4 | 89.99 |
| 51.6 | 146.0 | 4536.0 | 7530.5 | 6769.5 | 1425.2 | 89.89 |
| 51.6 | 148.0 | 4523.5 | 7632.8 | 6854.0 | 1446.9 | 89.80 |
| 51.6 | 150.0 | 4511.2 | 7735.1 | 6938.4 | 1468.7 | 89.70 |
| 51.6 | 152.0 | 4499.0 | 7837.3 | 7022.6 | 1490.6 | 89.60 |
| 51.6 | 154.0 | 4486.9 | 7939.6 | 7106.6 | 1512.5 | 89.51 |
| 51.5 | 156.0 | 4475.0 | 8041.8 | 7190.5 | 1534.4 | 89.41 |
| 51.5 | 158.0 | 4463.2 | 8144.0 | 7274.3 | 1556.4 | 89.32 |
| 51.5 | 160.0 | 4451.6 | 8246.1 | 7358.0 | 1578.4 | 89.23 |
| 51.5 | 162.0 | 4440.1 | 8348.3 | 7441.5 | 1600.4 | 89.14 |
| 51.5 | 164.0 | 4428.7 | 8450.4 | 7525.0 | 1622.6 | 89.05 |
| 51.5 | 166.0 | 4417.5 | 8552.5 | 7608.3 | 1644.7 | 88.96 |
| 51.5 | 168.0 | 4406.4 | 8654.6 | 7691.6 | 1666.9 | 88.87 |
| 51.5 | 170.0 | 4395.4 | 8756.6 | 7774.8 | 1689.1 | 88.79 |
| 51.5 | 172.0 | 4384.6 | 8858.6 | 7857.9 | 1711.4 | 88.70 |
| 51.5 | 174.0 | 4373.9 | 8960.6 | 7941.0 | 1733.7 | 88.62 |
| 51.5 | 176.0 | 4363.3 | 9062.6 | 8024.0 | 1756.1 | 88.54 |
| 51.5 | 178.0 | 4352.9 | 9164.6 | 8106.9 | 1778.5 | 88.46 |
| 51.5 | 180.0 | 4342.6 | 9266.5 | 8189.8 | 1800.9 | 88.38 |