

## NOVA 30/50/B4 P50

Spannung: 80 V

| nl=2880.1U/min<br>ns=36.6U/min/V |              | lo=5,0A<br>kn=-3,84U/min/A |            | kM=29.67Ncm/A |                     | Wirkungsgrad<br>[%] |
|----------------------------------|--------------|----------------------------|------------|---------------|---------------------|---------------------|
| Spannung<br>[V]                  | Strom<br>[A] | Drehzahl<br>[U/min]        | Pin<br>[W] | Pout<br>[W]   | Drehmoment<br>[Ncm] |                     |
| 79.5                             | 40.0         | 2761.2                     | 3181.6     | 2655.3        | 918.3               | 83.46               |
| 79.5                             | 45.0         | 2742.0                     | 3578.7     | 3062.8        | 1066.7              | 85.59               |
| 79.5                             | 50.0         | 2722.8                     | 3975.5     | 3464.3        | 1215.0              | 87.14               |
| 79.5                             | 55.0         | 2703.6                     | 4372.2     | 3859.9        | 1363.4              | 88.28               |
| 79.5                             | 60.0         | 2684.3                     | 4768.8     | 4249.5        | 1511.7              | 89.11               |
| 79.5                             | 65.0         | 2665.1                     | 5165.2     | 4633.1        | 1660.1              | 89.70               |
| 79.4                             | 70.0         | 2645.9                     | 5561.5     | 5010.7        | 1808.4              | 90.10               |
| 79.4                             | 75.0         | 2626.7                     | 5957.6     | 5382.4        | 1956.8              | 90.35               |
| 79.4                             | 80.0         | 2607.5                     | 6353.5     | 5748.1        | 2105.1              | 90.47               |
| 79.4                             | 85.0         | 2588.3                     | 6749.3     | 6107.9        | 2253.4              | 90.50               |
| 79.4                             | 90.0         | 2569.1                     | 7145.0     | 6461.6        | 2401.8              | 90.44               |
| 79.4                             | 95.0         | 2549.9                     | 7540.5     | 6809.4        | 2550.1              | 90.31               |
| 79.4                             | 100.0        | 2530.7                     | 7935.8     | 7151.3        | 2698.5              | 90.11               |
| 79.3                             | 105.0        | 2511.4                     | 8331.0     | 7487.1        | 2846.8              | 89.87               |
| 79.3                             | 110.0        | 2492.2                     | 8726.0     | 7817.0        | 2995.2              | 89.58               |
| 79.3                             | 115.0        | 2473.0                     | 9120.9     | 8140.9        | 3143.5              | 89.26               |
| 79.3                             | 120.0        | 2453.8                     | 9515.6     | 8458.9        | 3291.9              | 88.89               |
| 79.3                             | 125.0        | 2434.6                     | 9910.2     | 8770.9        | 3440.2              | 88.50               |
| 79.3                             | 130.0        | 2415.4                     | 10304.6    | 9076.9        | 3588.6              | 88.09               |
| 79.3                             | 135.0        | 2396.2                     | 10698.9    | 9377.0        | 3736.9              | 87.64               |
| 79.2                             | 140.0        | 2377.0                     | 11093.0    | 9671.0        | 3885.3              | 87.18               |
| 79.2                             | 145.0        | 2357.8                     | 11487.0    | 9959.1        | 4033.6              | 86.70               |
| 79.2                             | 150.0        | 2338.5                     | 11880.8    | 10241.3       | 4182.0              | 86.20               |
| 79.2                             | 155.0        | 2319.3                     | 12274.5    | 10517.5       | 4330.3              | 85.69               |
| 79.2                             | 160.0        | 2300.1                     | 12668.0    | 10787.7       | 4478.6              | 85.16               |
| 79.2                             | 165.0        | 2280.9                     | 13061.3    | 11051.9       | 4627.0              | 84.62               |
| 79.1                             | 170.0        | 2261.7                     | 13454.5    | 11310.2       | 4775.3              | 84.06               |
| 79.1                             | 175.0        | 2242.5                     | 13847.6    | 11562.5       | 4923.7              | 83.50               |
| 79.1                             | 180.0        | 2223.3                     | 14240.5    | 11808.8       | 5072.0              | 82.92               |
| 79.1                             | 185.0        | 2204.1                     | 14633.2    | 12049.2       | 5220.4              | 82.34               |
| 79.1                             | 190.0        | 2184.9                     | 15025.8    | 12283.6       | 5368.7              | 81.75               |
| 79.1                             | 195.0        | 2165.7                     | 15418.3    | 12512.0       | 5517.1              | 81.15               |
| 79.1                             | 200.0        | 2146.4                     | 15810.6    | 12734.4       | 5665.4              | 80.54               |
| 79.0                             | 205.0        | 2127.2                     | 16202.7    | 12950.9       | 5813.8              | 79.93               |
| 79.0                             | 210.0        | 2108.0                     | 16594.7    | 13161.5       | 5962.1              | 79.31               |
| 79.0                             | 215.0        | 2088.8                     | 16986.5    | 13366.0       | 6110.5              | 78.69               |
| 79.0                             | 220.0        | 2069.6                     | 17378.2    | 13564.6       | 6258.8              | 78.06               |

## NOVA 30/50/B4 P50

Spannung: 90 V

| nl=3246.5U/min<br>ns=36.7U/min/V |              | lo=5,5A<br>kn=-4,21U/min/A |            | kM=29.64Ncm/A |                     | Wirkungsgrad<br>[%] |
|----------------------------------|--------------|----------------------------|------------|---------------|---------------------|---------------------|
| Spannung<br>[V]                  | Strom<br>[A] | Drehzahl<br>[U/min]        | Pin<br>[W] | Pout<br>[W]   | Drehmoment<br>[Ncm] |                     |
| 89.5                             | 40.0         | 3119.1                     | 3581.5     | 2933.1        | 898.0               | 81.89               |
| 89.5                             | 45.0         | 3098.0                     | 4028.6     | 3394.1        | 1046.2              | 84.25               |
| 89.5                             | 50.0         | 3077.0                     | 4475.4     | 3848.6        | 1194.4              | 85.99               |
| 89.5                             | 55.0         | 3056.0                     | 4922.1     | 4296.6        | 1342.6              | 87.29               |
| 89.5                             | 60.0         | 3034.9                     | 5368.7     | 4738.1        | 1490.8              | 88.25               |
| 89.5                             | 65.0         | 3013.9                     | 5815.1     | 5173.0        | 1639.0              | 88.96               |
| 89.4                             | 70.0         | 2992.9                     | 6261.3     | 5601.4        | 1787.2              | 89.46               |
| 89.4                             | 75.0         | 2971.8                     | 6707.4     | 6023.3        | 1935.4              | 89.80               |
| 89.4                             | 80.0         | 2950.8                     | 7153.4     | 6438.6        | 2083.6              | 90.01               |
| 89.4                             | 85.0         | 2929.8                     | 7599.2     | 6847.4        | 2231.8              | 90.11               |
| 89.4                             | 90.0         | 2908.7                     | 8044.8     | 7249.7        | 2380.0              | 90.12               |
| 89.4                             | 95.0         | 2887.7                     | 8490.3     | 7645.4        | 2528.3              | 90.05               |
| 89.4                             | 100.0        | 2866.7                     | 8935.7     | 8034.7        | 2676.5              | 89.92               |
| 89.3                             | 105.0        | 2845.6                     | 9380.9     | 8417.4        | 2824.7              | 89.73               |
| 89.3                             | 110.0        | 2824.6                     | 9825.9     | 8793.5        | 2972.9              | 89.49               |
| 89.3                             | 115.0        | 2803.6                     | 10270.8    | 9163.2        | 3121.1              | 89.22               |
| 89.3                             | 120.0        | 2782.5                     | 10715.5    | 9526.3        | 3269.3              | 88.90               |
| 89.3                             | 125.0        | 2761.5                     | 11160.1    | 9882.8        | 3417.5              | 88.56               |
| 89.3                             | 130.0        | 2740.5                     | 11604.5    | 10232.9       | 3565.7              | 88.18               |
| 89.3                             | 135.0        | 2719.4                     | 12048.8    | 10576.4       | 3713.9              | 87.78               |
| 89.2                             | 140.0        | 2698.4                     | 12493.0    | 10913.4       | 3862.1              | 87.36               |
| 89.2                             | 145.0        | 2677.4                     | 12936.9    | 11243.9       | 4010.3              | 86.91               |
| 89.2                             | 150.0        | 2656.3                     | 13380.8    | 11567.8       | 4158.5              | 86.45               |
| 89.2                             | 155.0        | 2635.3                     | 13824.4    | 11885.2       | 4306.7              | 85.97               |
| 89.2                             | 160.0        | 2614.3                     | 14268.0    | 12196.1       | 4454.9              | 85.48               |
| 89.2                             | 165.0        | 2593.2                     | 14711.3    | 12500.4       | 4603.1              | 84.97               |
| 89.1                             | 170.0        | 2572.2                     | 15154.5    | 12798.3       | 4751.3              | 84.45               |
| 89.1                             | 175.0        | 2551.2                     | 15597.6    | 13089.5       | 4899.5              | 83.92               |
| 89.1                             | 180.0        | 2530.1                     | 16040.5    | 13374.3       | 5047.8              | 83.38               |
| 89.1                             | 185.0        | 2509.1                     | 16483.3    | 13652.5       | 5196.0              | 82.83               |
| 89.1                             | 190.0        | 2488.1                     | 16925.9    | 13924.3       | 5344.2              | 82.27               |
| 89.1                             | 195.0        | 2467.0                     | 17368.4    | 14189.4       | 5492.4              | 81.70               |
| 89.1                             | 200.0        | 2446.0                     | 17810.7    | 14448.1       | 5640.6              | 81.12               |
| 89.0                             | 205.0        | 2425.0                     | 18252.8    | 14700.2       | 5788.8              | 80.54               |
| 89.0                             | 210.0        | 2403.9                     | 18694.9    | 14945.8       | 5937.0              | 79.95               |
| 89.0                             | 215.0        | 2382.9                     | 19136.7    | 15184.8       | 6085.2              | 79.35               |
| 89.0                             | 220.0        | 2361.9                     | 19578.4    | 15417.4       | 6233.4              | 78.75               |

## NOVA 30/50/B4 P50

Spannung: 100 V

| nl=3547.8U/min<br>ns=36.0U/min/V |              | lo=6,0A<br>kn=-3,94U/min/A |            | kM=30,60Ncm/A |                     | Wirkungsgrad<br>[%] |
|----------------------------------|--------------|----------------------------|------------|---------------|---------------------|---------------------|
| Spannung<br>[V]                  | Strom<br>[A] | Drehzahl<br>[U/min]        | Pin<br>[W] | Pout<br>[W]   | Drehmoment<br>[Ncm] |                     |
| 99.8                             | 40.0         | 3440.5                     | 3990.4     | 3006.0        | 834.3               | 75.33               |
| 99.7                             | 45.0         | 3420.8                     | 4488.5     | 3536.9        | 987.3               | 78.80               |
| 99.7                             | 50.0         | 3401.2                     | 4986.4     | 4061.5        | 1140.3              | 81.45               |
| 99.7                             | 55.0         | 3381.5                     | 5484.1     | 4579.9        | 1293.4              | 83.51               |
| 99.7                             | 60.0         | 3361.8                     | 5981.7     | 5091.9        | 1446.4              | 85.12               |
| 99.7                             | 65.0         | 3342.1                     | 6479.1     | 5597.6        | 1599.4              | 86.39               |
| 99.7                             | 70.0         | 3322.4                     | 6976.4     | 6097.0        | 1752.4              | 87.40               |
| 99.6                             | 75.0         | 3302.7                     | 7473.4     | 6590.1        | 1905.4              | 88.18               |
| 99.6                             | 80.0         | 3283.1                     | 7970.4     | 7076.9        | 2058.4              | 88.79               |
| 99.6                             | 85.0         | 3263.4                     | 8467.1     | 7557.4        | 2211.5              | 89.26               |
| 99.6                             | 90.0         | 3243.7                     | 8963.7     | 8031.6        | 2364.5              | 89.60               |
| 99.6                             | 95.0         | 3224.0                     | 9460.2     | 8499.4        | 2517.5              | 89.84               |
| 99.6                             | 100.0        | 3204.3                     | 9956.4     | 8961.0        | 2670.5              | 90.00               |
| 99.5                             | 105.0        | 3184.6                     | 10452.5    | 9416.2        | 2823.5              | 90.09               |
| 99.5                             | 110.0        | 3164.9                     | 10948.5    | 9865.2        | 2976.5              | 90.11               |
| 99.5                             | 115.0        | 3145.3                     | 11444.3    | 10307.8       | 3129.5              | 90.07               |
| 99.5                             | 120.0        | 3125.6                     | 11939.9    | 10744.1       | 3282.6              | 89.99               |
| 99.5                             | 125.0        | 3105.9                     | 12435.3    | 11174.2       | 3435.6              | 89.86               |
| 99.5                             | 130.0        | 3086.2                     | 12930.6    | 11597.9       | 3588.6              | 89.69               |
| 99.5                             | 135.0        | 3066.5                     | 13425.8    | 12015.3       | 3741.6              | 89.49               |
| 99.4                             | 140.0        | 3046.8                     | 13920.7    | 12426.4       | 3894.6              | 89.27               |
| 99.4                             | 145.0        | 3027.2                     | 14415.5    | 12831.2       | 4047.6              | 89.01               |
| 99.4                             | 150.0        | 3007.5                     | 14910.2    | 13229.6       | 4200.7              | 88.73               |
| 99.4                             | 155.0        | 2987.8                     | 15404.7    | 13621.8       | 4353.7              | 88.43               |
| 99.4                             | 160.0        | 2968.1                     | 15899.0    | 14007.7       | 4506.7              | 88.10               |
| 99.4                             | 165.0        | 2948.4                     | 16393.1    | 14387.2       | 4659.7              | 87.76               |
| 99.3                             | 170.0        | 2928.7                     | 16887.1    | 14760.5       | 4812.7              | 87.41               |
| 99.3                             | 175.0        | 2909.1                     | 17380.9    | 15127.4       | 4965.7              | 87.03               |
| 99.3                             | 180.0        | 2889.4                     | 17874.6    | 15488.0       | 5118.7              | 86.65               |
| 99.3                             | 185.0        | 2869.7                     | 18368.1    | 15842.3       | 5271.8              | 86.25               |
| 99.3                             | 190.0        | 2850.0                     | 18861.4    | 16190.3       | 5424.8              | 85.84               |
| 99.3                             | 195.0        | 2830.3                     | 19354.6    | 16532.0       | 5577.8              | 85.42               |
| 99.2                             | 200.0        | 2810.6                     | 19847.6    | 16867.4       | 5730.8              | 84.98               |
| 99.2                             | 205.0        | 2791.0                     | 20340.5    | 17196.5       | 5883.8              | 84.54               |
| 99.2                             | 210.0        | 2771.3                     | 20833.2    | 17519.3       | 6036.8              | 84.09               |
| 99.2                             | 215.0        | 2751.6                     | 21325.7    | 17835.8       | 6189.9              | 83.64               |
| 99.2                             | 220.0        | 2731.9                     | 21818.0    | 18145.9       | 6342.9              | 83.17               |

## NOVA 30/50/B4 P50

Spannung: 110 V

| nl=3902.1U/min<br>ns=36.0U/min/V |              | lo=5.5A<br>kn=-4.22U/min/A |            | kM=30.33Ncm/A |                     | Wirkungsgrad<br>[%] |
|----------------------------------|--------------|----------------------------|------------|---------------|---------------------|---------------------|
| Spannung<br>[V]                  | Strom<br>[A] | Drehzahl<br>[U/min]        | Pin<br>[W] | Pout<br>[W]   | Drehmoment<br>[Ncm] |                     |
| 109.6                            | 40.0         | 3785.8                     | 4385.1     | 3315.3        | 836.3               | 75.60               |
| 109.6                            | 45.0         | 3764.7                     | 4932.6     | 3894.7        | 987.9               | 78.96               |
| 109.6                            | 50.0         | 3743.6                     | 5480.1     | 4467.4        | 1139.6              | 81.52               |
| 109.6                            | 55.0         | 3722.5                     | 6027.4     | 5033.4        | 1291.2              | 83.51               |
| 109.6                            | 60.0         | 3701.4                     | 6574.6     | 5592.7        | 1442.9              | 85.07               |
| 109.6                            | 65.0         | 3680.3                     | 7121.6     | 6145.4        | 1594.5              | 86.29               |
| 109.6                            | 70.0         | 3659.3                     | 7668.5     | 6691.3        | 1746.2              | 87.26               |
| 109.5                            | 75.0         | 3638.2                     | 8215.3     | 7230.5        | 1897.8              | 88.01               |
| 109.5                            | 80.0         | 3617.1                     | 8762.0     | 7763.0        | 2049.5              | 88.60               |
| 109.5                            | 85.0         | 3596.0                     | 9308.6     | 8288.8        | 2201.1              | 89.05               |
| 109.5                            | 90.0         | 3574.9                     | 9855.0     | 8808.0        | 2352.8              | 89.38               |
| 109.5                            | 95.0         | 3553.8                     | 10401.3    | 9320.4        | 2504.4              | 89.61               |
| 109.5                            | 100.0        | 3532.7                     | 10947.5    | 9826.1        | 2656.1              | 89.76               |
| 109.5                            | 105.0        | 3511.6                     | 11493.5    | 10325.2       | 2807.7              | 89.83               |
| 109.4                            | 110.0        | 3490.6                     | 12039.4    | 10817.5       | 2959.4              | 89.85               |
| 109.4                            | 115.0        | 3469.5                     | 12585.2    | 11303.1       | 3111.1              | 89.81               |
| 109.4                            | 120.0        | 3448.4                     | 13130.9    | 11782.1       | 3262.7              | 89.73               |
| 109.4                            | 125.0        | 3427.3                     | 13676.4    | 12254.3       | 3414.4              | 89.60               |
| 109.4                            | 130.0        | 3406.2                     | 14221.8    | 12719.9       | 3566.0              | 89.44               |
| 109.4                            | 135.0        | 3385.1                     | 14767.1    | 13178.7       | 3717.7              | 89.24               |
| 109.4                            | 140.0        | 3364.0                     | 15312.2    | 13630.9       | 3869.3              | 89.02               |
| 109.4                            | 145.0        | 3343.0                     | 15857.3    | 14076.3       | 4021.0              | 88.77               |
| 109.3                            | 150.0        | 3321.9                     | 16402.2    | 14515.1       | 4172.6              | 88.49               |
| 109.3                            | 155.0        | 3300.8                     | 16946.9    | 14947.1       | 4324.3              | 88.20               |
| 109.3                            | 160.0        | 3279.7                     | 17491.6    | 15372.5       | 4475.9              | 87.89               |
| 109.3                            | 165.0        | 3258.6                     | 18036.1    | 15791.2       | 4627.6              | 87.55               |
| 109.3                            | 170.0        | 3237.5                     | 18580.5    | 16203.1       | 4779.2              | 87.20               |
| 109.3                            | 175.0        | 3216.4                     | 19124.8    | 16608.4       | 4930.9              | 86.84               |
| 109.3                            | 180.0        | 3195.3                     | 19668.9    | 17007.0       | 5082.5              | 86.47               |
| 109.3                            | 185.0        | 3174.3                     | 20212.9    | 17398.8       | 5234.2              | 86.08               |
| 109.2                            | 190.0        | 3153.2                     | 20756.8    | 17784.0       | 5385.8              | 85.68               |
| 109.2                            | 195.0        | 3132.1                     | 21300.6    | 18162.5       | 5537.5              | 85.27               |
| 109.2                            | 200.0        | 3111.0                     | 21844.2    | 18534.2       | 5689.2              | 84.85               |
| 109.2                            | 205.0        | 3089.9                     | 22387.7    | 18899.3       | 5840.8              | 84.42               |
| 109.2                            | 210.0        | 3068.8                     | 22931.1    | 19257.7       | 5992.5              | 83.98               |
| 109.2                            | 215.0        | 3047.7                     | 23474.4    | 19609.4       | 6144.1              | 83.54               |
| 109.2                            | 220.0        | 3026.6                     | 24017.5    | 19954.4       | 6295.8              | 83.08               |

## NOVA 30/50/B4 P50

Spannung: 120 V

| nl=4233.0U/min<br>ns=35,7U/min/V |              | lo=6,5A<br>kn=-4,27U/min/A |            | kM=30,22Ncm/A |                     | Wirkungsgrad<br>[%] |
|----------------------------------|--------------|----------------------------|------------|---------------|---------------------|---------------------|
| Spannung<br>[V]                  | Strom<br>[A] | Drehzahl<br>[U/min]        | Pin<br>[W] | Pout<br>[W]   | Drehmoment<br>[Ncm] |                     |
| 119.9                            | 40.0         | 4115.4                     | 4794.9     | 3584.8        | 831.8               | 74.76               |
| 119.9                            | 45.0         | 4094.0                     | 5393.5     | 4213.9        | 982.9               | 78.13               |
| 119.8                            | 50.0         | 4072.6                     | 5991.9     | 4836.2        | 1134.0              | 80.71               |
| 119.8                            | 55.0         | 4051.3                     | 6590.1     | 5451.8        | 1285.1              | 82.73               |
| 119.8                            | 60.0         | 4029.9                     | 7188.2     | 6060.6        | 1436.1              | 84.31               |
| 119.8                            | 65.0         | 4008.5                     | 7786.0     | 6662.7        | 1587.2              | 85.57               |
| 119.8                            | 70.0         | 3987.2                     | 8383.7     | 7257.9        | 1738.3              | 86.57               |
| 119.8                            | 75.0         | 3965.8                     | 8981.3     | 7846.5        | 1889.4              | 87.36               |
| 119.7                            | 80.0         | 3944.4                     | 9578.6     | 8428.2        | 2040.4              | 87.99               |
| 119.7                            | 85.0         | 3923.1                     | 10175.8    | 9003.2        | 2191.5              | 88.48               |
| 119.7                            | 90.0         | 3901.7                     | 10772.8    | 9571.5        | 2342.6              | 88.85               |
| 119.7                            | 95.0         | 3880.3                     | 11369.6    | 10132.9       | 2493.7              | 89.12               |
| 119.7                            | 100.0        | 3859.0                     | 11966.3    | 10687.7       | 2644.7              | 89.31               |
| 119.6                            | 105.0        | 3837.6                     | 12562.8    | 11235.6       | 2795.8              | 89.44               |
| 119.6                            | 110.0        | 3816.2                     | 13159.1    | 11776.8       | 2946.9              | 89.50               |
| 119.6                            | 115.0        | 3794.9                     | 13755.2    | 12311.2       | 3098.0              | 89.50               |
| 119.6                            | 120.0        | 3773.5                     | 14351.2    | 12838.9       | 3249.1              | 89.46               |
| 119.6                            | 125.0        | 3752.1                     | 14947.0    | 13359.8       | 3400.1              | 89.38               |
| 119.6                            | 130.0        | 3730.8                     | 15542.6    | 13874.0       | 3551.2              | 89.26               |
| 119.5                            | 135.0        | 3709.4                     | 16138.0    | 14381.4       | 3702.3              | 89.12               |
| 119.5                            | 140.0        | 3688.0                     | 16733.3    | 14882.0       | 3853.4              | 88.94               |
| 119.5                            | 145.0        | 3666.7                     | 17328.3    | 15375.9       | 4004.4              | 88.73               |
| 119.5                            | 150.0        | 3645.3                     | 17923.3    | 15863.0       | 4155.5              | 88.51               |
| 119.5                            | 155.0        | 3623.9                     | 18518.0    | 16343.4       | 4306.6              | 88.26               |
| 119.5                            | 160.0        | 3602.6                     | 19112.5    | 16816.9       | 4457.7              | 87.99               |
| 119.4                            | 165.0        | 3581.2                     | 19706.9    | 17283.8       | 4608.7              | 87.70               |
| 119.4                            | 170.0        | 3559.8                     | 20301.1    | 17743.8       | 4759.8              | 87.40               |
| 119.4                            | 175.0        | 3538.5                     | 20895.2    | 18197.2       | 4910.9              | 87.09               |
| 119.4                            | 180.0        | 3517.1                     | 21489.0    | 18643.7       | 5062.0              | 86.76               |
| 119.4                            | 185.0        | 3495.7                     | 22082.7    | 19083.5       | 5213.1              | 86.42               |
| 119.3                            | 190.0        | 3474.4                     | 22676.2    | 19516.5       | 5364.1              | 86.07               |
| 119.3                            | 195.0        | 3453.0                     | 23269.6    | 19942.8       | 5515.2              | 85.70               |
| 119.3                            | 200.0        | 3431.6                     | 23862.7    | 20362.3       | 5666.3              | 85.33               |
| 119.3                            | 205.0        | 3410.3                     | 24455.7    | 20775.0       | 5817.4              | 84.95               |
| 119.3                            | 210.0        | 3388.9                     | 25048.5    | 21181.0       | 5968.4              | 84.56               |
| 119.3                            | 215.0        | 3367.5                     | 25641.2    | 21580.2       | 6119.5              | 84.16               |
| 119.2                            | 220.0        | 3346.2                     | 26233.6    | 21972.7       | 6270.6              | 83.76               |

## NOVA 30/50/B4 P50

Spannung: 125 V

| nl=4351.0U/min<br>ns=35,5U/min/V |              | lo=7,0A<br>kn=-4,21U/min/A |            | kM=30,77Ncm/A |                     | Wirkungsgrad<br>[%] |
|----------------------------------|--------------|----------------------------|------------|---------------|---------------------|---------------------|
| Spannung<br>[V]                  | Strom<br>[A] | Drehzahl<br>[U/min]        | Pin<br>[W] | Pout<br>[W]   | Drehmoment<br>[Ncm] |                     |
| 123.9                            | 40.0         | 4237.0                     | 4957.5     | 3693.2        | 832.4               | 74.50               |
| 123.9                            | 45.0         | 4215.9                     | 5576.8     | 4354.0        | 986.2               | 78.07               |
| 123.9                            | 50.0         | 4194.9                     | 6196.0     | 5008.1        | 1140.0              | 80.83               |
| 123.9                            | 55.0         | 4173.8                     | 6815.1     | 5655.4        | 1293.9              | 82.98               |
| 123.9                            | 60.0         | 4152.8                     | 7434.1     | 6295.8        | 1447.7              | 84.69               |
| 123.9                            | 65.0         | 4131.7                     | 8053.1     | 6929.5        | 1601.6              | 86.05               |
| 123.9                            | 70.0         | 4110.6                     | 8671.9     | 7556.5        | 1755.4              | 87.14               |
| 123.9                            | 75.0         | 4089.6                     | 9290.7     | 8176.6        | 1909.3              | 88.01               |
| 123.9                            | 80.0         | 4068.5                     | 9909.4     | 8789.9        | 2063.1              | 88.70               |
| 123.9                            | 85.0         | 4047.5                     | 10528.0    | 9396.5        | 2216.9              | 89.25               |
| 123.8                            | 90.0         | 4026.4                     | 11146.5    | 9996.3        | 2370.8              | 89.68               |
| 123.8                            | 95.0         | 4005.3                     | 11764.9    | 10589.3       | 2524.6              | 90.01               |
| 123.8                            | 100.0        | 3984.3                     | 12383.2    | 11175.5       | 2678.5              | 90.25               |
| 123.8                            | 105.0        | 3963.2                     | 13001.5    | 11754.9       | 2832.3              | 90.41               |
| 123.8                            | 110.0        | 3942.2                     | 13619.7    | 12327.5       | 2986.2              | 90.51               |
| 123.8                            | 115.0        | 3921.1                     | 14237.7    | 12893.4       | 3140.0              | 90.56               |
| 123.8                            | 120.0        | 3900.0                     | 14855.7    | 13452.4       | 3293.8              | 90.55               |
| 123.8                            | 125.0        | 3879.0                     | 15473.6    | 14004.7       | 3447.7              | 90.51               |
| 123.8                            | 130.0        | 3857.9                     | 16091.4    | 14550.2       | 3601.5              | 90.42               |
| 123.8                            | 135.0        | 3836.9                     | 16709.2    | 15088.9       | 3755.4              | 90.30               |
| 123.8                            | 140.0        | 3815.8                     | 17326.8    | 15620.8       | 3909.2              | 90.15               |
| 123.8                            | 145.0        | 3794.7                     | 17944.3    | 16146.0       | 4063.1              | 89.98               |
| 123.7                            | 150.0        | 3773.7                     | 18561.8    | 16664.3       | 4216.9              | 89.78               |
| 123.7                            | 155.0        | 3752.6                     | 19179.2    | 17175.9       | 4370.7              | 89.55               |
| 123.7                            | 160.0        | 3731.6                     | 19796.5    | 17680.6       | 4524.6              | 89.31               |
| 123.7                            | 165.0        | 3710.5                     | 20413.7    | 18178.6       | 4678.4              | 89.05               |
| 123.7                            | 170.0        | 3689.4                     | 21030.8    | 18669.8       | 4832.3              | 88.77               |
| 123.7                            | 175.0        | 3668.4                     | 21647.8    | 19154.3       | 4986.1              | 88.48               |
| 123.7                            | 180.0        | 3647.3                     | 22264.8    | 19631.9       | 5139.9              | 88.17               |
| 123.7                            | 185.0        | 3626.3                     | 22881.6    | 20102.7       | 5293.8              | 87.86               |
| 123.7                            | 190.0        | 3605.2                     | 23498.4    | 20566.8       | 5447.6              | 87.52               |
| 123.7                            | 195.0        | 3584.1                     | 24115.1    | 21024.1       | 5601.5              | 87.18               |
| 123.7                            | 200.0        | 3563.1                     | 24731.7    | 21474.6       | 5755.3              | 86.83               |
| 123.6                            | 205.0        | 3542.0                     | 25348.2    | 21918.3       | 5909.2              | 86.47               |
| 123.6                            | 210.0        | 3521.0                     | 25964.6    | 22355.2       | 6063.0              | 86.10               |
| 123.6                            | 215.0        | 3499.9                     | 26581.0    | 22785.3       | 6216.8              | 85.72               |
| 123.6                            | 220.0        | 3478.8                     | 27197.2    | 23208.7       | 6370.7              | 85.33               |

## NOVA 30/50/B4 P50

Spannung: 130 V

| nl=4506.2U/min<br>ns=35,3U/min/V |              | lo=7,5A<br>kn=-4,23U/min/A |            | kM=30,83Ncm/A |                     | Wirkungsgrad<br>[%] |
|----------------------------------|--------------|----------------------------|------------|---------------|---------------------|---------------------|
| Spannung<br>[V]                  | Strom<br>[A] | Drehzahl<br>[U/min]        | Pin<br>[W] | Pout<br>[W]   | Drehmoment<br>[Ncm] |                     |
| 129.1                            | 40.0         | 4392.2                     | 5163.8     | 3821.8        | 830.9               | 74.01               |
| 129.1                            | 45.0         | 4371.1                     | 5808.8     | 4509.1        | 985.1               | 77.62               |
| 129.1                            | 50.0         | 4349.9                     | 6453.8     | 5189.5        | 1139.2              | 80.41               |
| 129.1                            | 55.0         | 4328.8                     | 7098.6     | 5863.2        | 1293.4              | 82.60               |
| 129.1                            | 60.0         | 4307.7                     | 7743.4     | 6530.0        | 1447.6              | 84.33               |
| 129.0                            | 65.0         | 4286.5                     | 8388.1     | 7189.9        | 1601.7              | 85.72               |
| 129.0                            | 70.0         | 4265.4                     | 9032.7     | 7843.1        | 1755.9              | 86.83               |
| 129.0                            | 75.0         | 4244.2                     | 9677.2     | 8489.4        | 1910.1              | 87.73               |
| 129.0                            | 80.0         | 4223.1                     | 10321.6    | 9128.9        | 2064.2              | 88.45               |
| 129.0                            | 85.0         | 4202.0                     | 10965.9    | 9761.6        | 2218.4              | 89.02               |
| 129.0                            | 90.0         | 4180.8                     | 11610.1    | 10387.5       | 2372.6              | 89.47               |
| 129.0                            | 95.0         | 4159.7                     | 12254.3    | 11006.5       | 2526.7              | 89.82               |
| 129.0                            | 100.0        | 4138.5                     | 12898.3    | 11618.7       | 2680.9              | 90.08               |
| 129.0                            | 105.0        | 4117.4                     | 13542.2    | 12224.1       | 2835.1              | 90.27               |
| 129.0                            | 110.0        | 4096.2                     | 14186.1    | 12822.6       | 2989.2              | 90.39               |
| 129.0                            | 115.0        | 4075.1                     | 14829.9    | 13414.3       | 3143.4              | 90.45               |
| 128.9                            | 120.0        | 4054.0                     | 15473.5    | 13999.2       | 3297.6              | 90.47               |
| 128.9                            | 125.0        | 4032.8                     | 16117.1    | 14577.3       | 3451.7              | 90.45               |
| 128.9                            | 130.0        | 4011.7                     | 16760.6    | 15148.5       | 3605.9              | 90.38               |
| 128.9                            | 135.0        | 3990.5                     | 17404.0    | 15713.0       | 3760.1              | 90.28               |
| 128.9                            | 140.0        | 3969.4                     | 18047.3    | 16270.5       | 3914.2              | 90.16               |
| 128.9                            | 145.0        | 3948.3                     | 18690.5    | 16821.3       | 4068.4              | 90.00               |
| 128.9                            | 150.0        | 3927.1                     | 19333.6    | 17365.2       | 4222.6              | 89.82               |
| 128.9                            | 155.0        | 3906.0                     | 19976.6    | 17902.4       | 4376.7              | 89.62               |
| 128.9                            | 160.0        | 3884.8                     | 20619.5    | 18432.6       | 4530.9              | 89.39               |
| 128.9                            | 165.0        | 3863.7                     | 21262.4    | 18956.1       | 4685.1              | 89.15               |
| 128.9                            | 170.0        | 3842.6                     | 21905.1    | 19472.7       | 4839.3              | 88.90               |
| 128.8                            | 175.0        | 3821.4                     | 22547.8    | 19982.5       | 4993.4              | 88.62               |
| 128.8                            | 180.0        | 3800.3                     | 23190.3    | 20485.5       | 5147.6              | 88.34               |
| 128.8                            | 185.0        | 3779.1                     | 23832.8    | 20981.7       | 5301.8              | 88.04               |
| 128.8                            | 190.0        | 3758.0                     | 24475.2    | 21471.0       | 5455.9              | 87.73               |
| 128.8                            | 195.0        | 3736.9                     | 25117.5    | 21953.5       | 5610.1              | 87.40               |
| 128.8                            | 200.0        | 3715.7                     | 25759.6    | 22429.2       | 5764.3              | 87.07               |
| 128.8                            | 205.0        | 3694.6                     | 26401.7    | 22898.0       | 5918.4              | 86.73               |
| 128.8                            | 210.0        | 3673.4                     | 27043.7    | 23360.1       | 6072.6              | 86.38               |
| 128.8                            | 215.0        | 3652.3                     | 27685.7    | 23815.3       | 6226.8              | 86.02               |
| 128.8                            | 220.0        | 3631.1                     | 28327.5    | 24263.6       | 6380.9              | 85.65               |

## NOVA 30/50/B4 P50

Spannung: 140 V

| nl=4928.8U/min<br>ns=35,7U/min/V |              | lo=8,8A<br>kn=-4,75U/min/A |            | kM=29,78Ncm/A |                     | Wirkungsgrad<br>[%] |
|----------------------------------|--------------|----------------------------|------------|---------------|---------------------|---------------------|
| Spannung<br>[V]                  | Strom<br>[A] | Drehzahl<br>[U/min]        | Pin<br>[W] | Pout<br>[W]   | Drehmoment<br>[Ncm] |                     |
| 139.3                            | 40.0         | 4790.7                     | 5571.9     | 4344.0        | 865.9               | 77.96               |
| 139.3                            | 45.0         | 4767.0                     | 6268.0     | 5065.7        | 1014.8              | 80.82               |
| 139.3                            | 50.0         | 4743.3                     | 6964.1     | 5780.0        | 1163.6              | 83.00               |
| 139.3                            | 55.0         | 4719.5                     | 7660.2     | 6486.8        | 1312.5              | 84.68               |
| 139.3                            | 60.0         | 4695.8                     | 8356.1     | 7186.3        | 1461.4              | 86.00               |
| 139.3                            | 65.0         | 4672.0                     | 9052.0     | 7878.3        | 1610.3              | 87.03               |
| 139.3                            | 70.0         | 4648.3                     | 9747.8     | 8563.0        | 1759.2              | 87.85               |
| 139.2                            | 75.0         | 4624.5                     | 10443.5    | 9240.3        | 1908.0              | 88.48               |
| 139.2                            | 80.0         | 4600.8                     | 11139.2    | 9910.1        | 2056.9              | 88.97               |
| 139.2                            | 85.0         | 4577.0                     | 11834.8    | 10572.6       | 2205.8              | 89.33               |
| 139.2                            | 90.0         | 4553.3                     | 12530.3    | 11227.6       | 2354.7              | 89.60               |
| 139.2                            | 95.0         | 4529.6                     | 13225.8    | 11875.2       | 2503.6              | 89.79               |
| 139.2                            | 100.0        | 4505.8                     | 13921.2    | 12515.5       | 2652.4              | 89.90               |
| 139.2                            | 105.0        | 4482.1                     | 14616.5    | 13148.3       | 2801.3              | 89.96               |
| 139.2                            | 110.0        | 4458.3                     | 15311.7    | 13773.7       | 2950.2              | 89.96               |
| 139.2                            | 115.0        | 4434.6                     | 16006.9    | 14391.7       | 3099.1              | 89.91               |
| 139.2                            | 120.0        | 4410.8                     | 16702.0    | 15002.4       | 3248.0              | 89.82               |
| 139.2                            | 125.0        | 4387.1                     | 17397.1    | 15605.6       | 3396.8              | 89.70               |
| 139.2                            | 130.0        | 4363.3                     | 18092.0    | 16201.4       | 3545.7              | 89.55               |
| 139.2                            | 135.0        | 4339.6                     | 18786.9    | 16789.8       | 3694.6              | 89.37               |
| 139.2                            | 140.0        | 4315.8                     | 19481.7    | 17370.8       | 3843.5              | 89.16               |
| 139.1                            | 145.0        | 4292.1                     | 20176.5    | 17944.4       | 3992.4              | 88.94               |
| 139.1                            | 150.0        | 4268.4                     | 20871.2    | 18510.6       | 4141.2              | 88.69               |
| 139.1                            | 155.0        | 4244.6                     | 21565.8    | 19069.4       | 4290.1              | 88.42               |
| 139.1                            | 160.0        | 4220.9                     | 22260.3    | 19620.8       | 4439.0              | 88.14               |
| 139.1                            | 165.0        | 4197.1                     | 22954.8    | 20164.8       | 4587.9              | 87.85               |
| 139.1                            | 170.0        | 4173.4                     | 23649.2    | 20701.3       | 4736.8              | 87.54               |
| 139.1                            | 175.0        | 4149.6                     | 24343.5    | 21230.5       | 4885.6              | 87.21               |
| 139.1                            | 180.0        | 4125.9                     | 25037.7    | 21752.3       | 5034.5              | 86.88               |
| 139.1                            | 185.0        | 4102.1                     | 25731.9    | 22266.6       | 5183.4              | 86.53               |
| 139.1                            | 190.0        | 4078.4                     | 26426.0    | 22773.6       | 5332.3              | 86.18               |
| 139.1                            | 195.0        | 4054.7                     | 27120.1    | 23273.2       | 5481.2              | 85.82               |
| 139.1                            | 200.0        | 4030.9                     | 27814.0    | 23765.3       | 5630.0              | 85.44               |
| 139.1                            | 205.0        | 4007.2                     | 28507.9    | 24250.1       | 5778.9              | 85.06               |
| 139.1                            | 210.0        | 3983.4                     | 29201.8    | 24727.4       | 5927.8              | 84.68               |
| 139.0                            | 215.0        | 3959.7                     | 29895.5    | 25197.4       | 6076.7              | 84.28               |
| 139.0                            | 220.0        | 3935.9                     | 30589.2    | 25659.9       | 6225.6              | 83.89               |