

## Report calculated on Test Bench Results

Motor type: **NOVA 15-70-B6 P30**

Date: 16.04.2024

Bearing type: regular

Controller: MST 140-200

### Measuring Parameter

Voltage: **40.0 [V]**

Throttle setting: 100%

### Calculated Motor Constants

nl: 1,912.2 [RPM]    lo: 4.1 [A]    kv: 48.2 [RPM/V]    kn: -3.90 [RPM/A]    kT: 22.77 [Ncm/A]

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
40.0	20.0	1,871.4	800.0	707.5	361.0	88.43
39.9	24.0	1,848.9	957.6	875.3	452.1	91.41
39.9	28.0	1,826.9	1,117.2	1,039.2	543.2	93.02
39.9	32.0	1,805.3	1,276.8	1,199.1	634.3	93.92
39.9	36.0	1,784.2	1,436.4	1,355.2	725.3	94.34
39.9	40.0	1,763.5	1,596.0	1,507.7	816.4	94.47
39.9	44.0	1,743.2	1,755.6	1,656.6	907.5	94.36
39.9	48.0	1,723.3	1,915.2	1,802.1	998.6	94.10
39.9	52.0	1,703.8	2,074.8	1,944.3	1,089.7	93.71
39.9	56.0	1,684.7	2,234.4	2,083.2	1,180.8	93.23
39.9	60.0	1,665.9	2,394.0	2,218.9	1,271.9	92.68
39.9	64.0	1,647.4	2,553.6	2,351.4	1,363.0	92.08
39.9	68.0	1,629.3	2,713.2	2,480.8	1,454.0	91.43
39.8	72.0	1,611.5	2,865.6	2,607.4	1,545.1	90.99
39.8	76.0	1,594.0	3,024.8	2,731.2	1,636.2	90.29
39.8	80.0	1,576.8	3,184.0	2,852.2	1,727.3	89.58
39.8	84.0	1,559.8	3,343.2	2,970.2	1,818.4	88.84
39.8	88.0	1,543.1	3,502.4	3,085.6	1,909.5	88.10
39.8	92.0	1,526.7	3,661.6	3,198.5	2,000.6	87.35
39.8	96.0	1,510.4	3,820.8	3,308.4	2,091.7	86.59
39.8	100.0	1,494.4	3,980.0	3,415.8	2,182.7	85.82
39.8	104.0	1,478.6	4,139.2	3,520.7	2,273.8	85.06
39.8	108.0	1,463.0	4,298.4	3,623.1	2,364.9	84.29
39.8	112.0	1,447.5	4,457.6	3,722.9	2,456.0	83.52
39.8	116.0	1,432.2	4,616.8	3,820.1	2,547.1	82.74
39.7	120.0	1,417.1	4,764.0	3,915.0	2,638.2	82.18

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
39.7	124.0	1,402.0	4,922.8	4,007.1	2,729.3	81.40
39.7	128.0	1,387.1	5,081.6	4,096.8	2,820.4	80.62
39.7	132.0	1,372.3	5,240.4	4,183.9	2,911.4	79.84
39.7	136.0	1,357.6	5,399.2	4,268.6	3,002.5	79.06
39.7	140.0	1,343.0	5,558.0	4,350.8	3,093.6	78.28
39.7	144.0	1,328.4	5,716.8	4,430.2	3,184.7	77.49
39.7	148.0	1,313.9	5,875.6	4,507.2	3,275.8	76.71
39.7	152.0	1,299.4	6,034.4	4,581.4	3,366.9	75.92
39.7	156.0	1,284.9	6,193.2	4,652.9	3,458.0	75.13
39.7	160.0	1,270.5	6,352.0	4,722.0	3,549.1	74.34
39.6	164.0	1,256.0	6,494.4	4,787.8	3,640.1	73.72
39.6	168.0	1,241.5	6,652.8	4,850.9	3,731.2	72.92
39.6	172.0	1,226.9	6,811.2	4,910.9	3,822.3	72.10
39.6	176.0	1,212.4	6,969.6	4,968.5	3,913.4	71.29
39.6	180.0	1,197.7	7,128.0	5,022.6	4,004.5	70.46
39.6	184.0	1,183.0	7,286.4	5,073.8	4,095.6	69.63
39.6	188.0	1,168.2	7,444.8	5,121.7	4,186.7	68.80
39.6	192.0	1,153.2	7,603.2	5,166.0	4,277.8	67.94
39.6	196.0	1,138.2	7,761.6	5,207.3	4,368.8	67.09
39.6	200.0	1,123.0	7,920.0	5,244.9	4,459.9	66.22
39.6	204.0	1,107.7	8,078.4	5,279.1	4,551.0	65.35
39.6	208.0	1,092.2	8,236.8	5,309.4	4,642.1	64.46
39.5	212.0	1,076.5	8,374.0	5,335.8	4,733.2	63.72
39.5	216.0	1,060.7	8,532.0	5,358.7	4,824.3	62.81
39.5	220.0	1,044.6	8,690.0	5,377.0	4,915.4	61.88
39.5	224.0	1,028.4	8,848.0	5,391.6	5,006.4	60.94
39.5	228.0	1,011.9	9,006.0	5,401.6	5,097.5	59.98
39.5	232.0	995.1	9,164.0	5,406.9	5,188.6	59.00
39.5	236.0	978.1	9,322.0	5,407.8	5,279.7	58.01
39.5	240.0	960.8	9,480.0	5,403.8	5,370.8	57.00

nl = rpm with no load

lo = current with no load

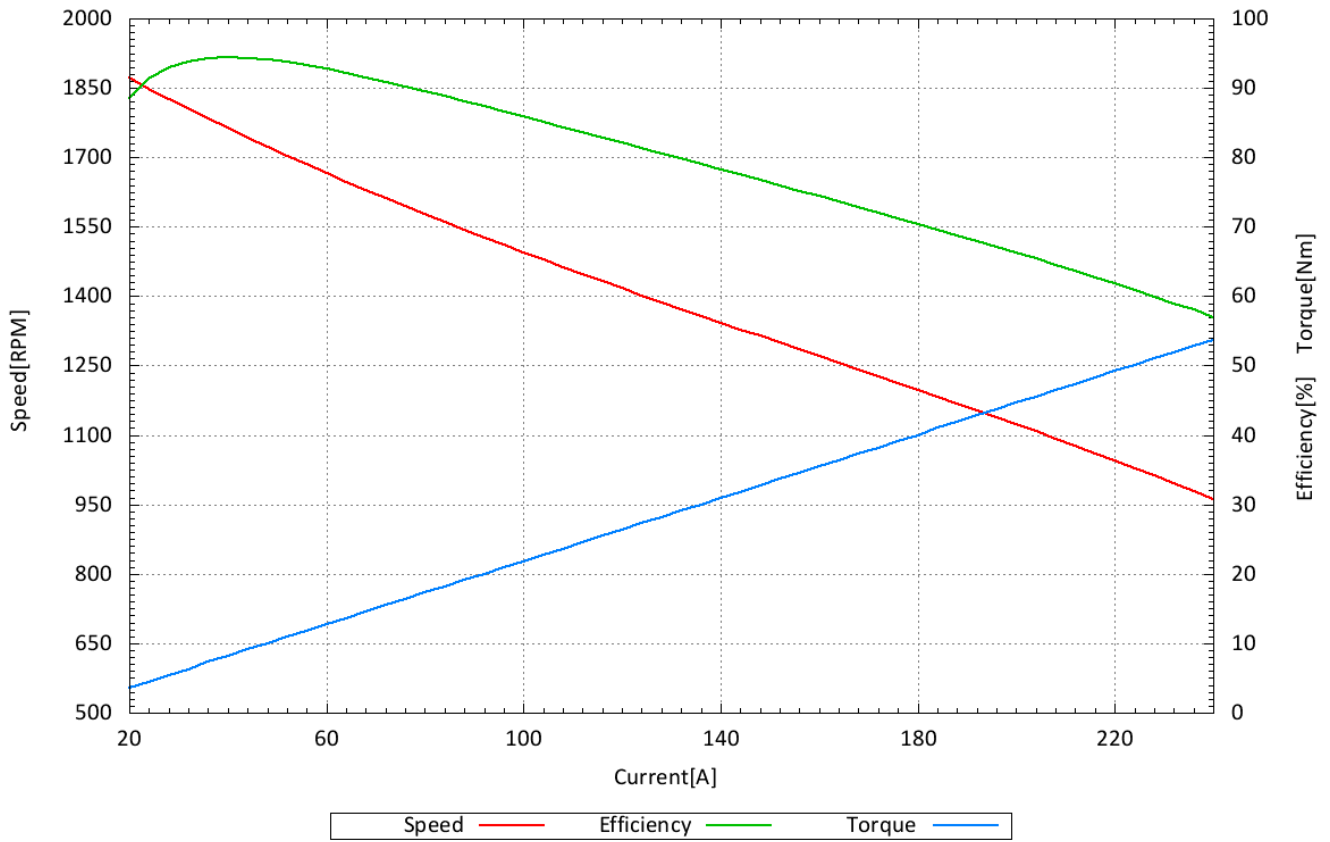
kV = specific rpm

kn = rpm drop per Amp

kT = torque constant

<sup>1</sup> incl. Controller

HP875\_70\_B6\_P30\_40V\_MST140-200\_K\_16042024



## Report calculated on Test Bench Results

Motor type: **NOVA 15-70-B6 P30**

Date: 16.04.2024

Bearing type: regular

Controller: MST 140-200

### Measuring Parameter

Voltage: **50.0 [V]**

Throttle setting: 100%

### Calculated Motor Constants

nl: 2,388.9 [RPM]    lo: 4.4 [A]    kv: 48.2 [RPM/V]    kn: -4.87 [RPM/A]    kT: 22.77 [Ncm/A]

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
50.0	20.0	2,345.2	1,000.0	871.1	354.7	87.11
49.9	24.0	2,318.2	1,197.6	1,082.2	445.8	90.37
49.9	28.0	2,291.8	1,397.2	1,288.5	536.9	92.22
49.9	32.0	2,265.9	1,596.8	1,490.1	628.0	93.32
49.9	36.0	2,240.6	1,796.4	1,687.0	719.0	93.91
49.9	40.0	2,215.8	1,996.0	1,879.7	810.1	94.18
49.9	44.0	2,191.4	2,195.6	2,068.1	901.2	94.19
49.9	48.0	2,167.6	2,395.2	2,252.4	992.3	94.04
49.9	52.0	2,144.1	2,594.8	2,432.6	1,083.4	93.75
49.9	56.0	2,121.2	2,794.4	2,608.9	1,174.5	93.36
49.9	60.0	2,098.6	2,994.0	2,781.3	1,265.6	92.90
49.9	64.0	2,076.5	3,193.6	2,950.2	1,356.7	92.38
49.9	68.0	2,054.7	3,393.2	3,115.0	1,447.7	91.80
49.8	72.0	2,033.4	3,585.6	3,276.7	1,538.8	91.38
49.8	76.0	2,012.4	3,784.8	3,434.8	1,629.9	90.75
49.8	80.0	1,991.7	3,984.0	3,589.5	1,721.0	90.10
49.8	84.0	1,971.3	4,183.2	3,740.8	1,812.1	89.42
49.8	88.0	1,951.3	4,382.4	3,889.0	1,903.2	88.74
49.8	92.0	1,931.5	4,581.6	4,033.8	1,994.3	88.04
49.8	96.0	1,912.1	4,780.8	4,175.7	2,085.4	87.34
49.8	100.0	1,892.9	4,980.0	4,314.1	2,176.4	86.63
49.8	104.0	1,873.9	5,179.2	4,449.6	2,267.5	85.91
49.8	108.0	1,855.1	5,378.4	4,581.9	2,358.6	85.19
49.8	112.0	1,836.6	5,577.6	4,711.5	2,449.7	84.47
49.8	116.0	1,818.2	5,776.8	4,837.7	2,540.8	83.74
49.7	120.0	1,800.0	5,964.0	4,961.0	2,631.9	83.18

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
49.7	124.0	1,782.0	6,162.8	5,081.4	2,723.0	82.45
49.7	128.0	1,764.1	6,361.6	5,198.7	2,814.1	81.72
49.7	132.0	1,746.4	6,560.4	5,312.9	2,905.1	80.98
49.7	136.0	1,728.7	6,759.2	5,424.0	2,996.2	80.25
49.7	140.0	1,711.1	6,958.0	5,532.0	3,087.3	79.51
49.7	144.0	1,693.7	7,156.8	5,637.3	3,178.4	78.77
49.7	148.0	1,676.2	7,355.6	5,739.0	3,269.5	78.02
49.7	152.0	1,658.8	7,554.4	5,837.7	3,360.6	77.28
49.7	156.0	1,641.5	7,753.2	5,933.4	3,451.7	76.53
49.7	160.0	1,624.1	7,952.0	6,025.4	3,542.8	75.77
49.6	164.0	1,606.7	8,134.4	6,114.0	3,633.8	75.16
49.6	168.0	1,589.3	8,332.8	6,199.4	3,724.9	74.40
49.6	172.0	1,571.9	8,531.2	6,281.5	3,816.0	73.63
49.6	176.0	1,554.4	8,729.6	6,359.8	3,907.1	72.85
49.6	180.0	1,536.8	8,928.0	6,434.4	3,998.2	72.07
49.6	184.0	1,519.1	9,126.4	6,505.2	4,089.3	71.28
49.6	188.0	1,501.4	9,324.8	6,572.7	4,180.4	70.49
49.6	192.0	1,483.4	9,523.2	6,635.4	4,271.5	69.68
49.6	196.0	1,465.4	9,721.6	6,694.5	4,362.5	68.86
49.6	200.0	1,447.2	9,920.0	6,749.4	4,453.6	68.04
49.6	204.0	1,428.8	10,118.4	6,799.9	4,544.7	67.20
49.6	208.0	1,410.2	10,316.8	6,846.0	4,635.8	66.36
49.5	212.0	1,391.4	10,494.0	6,887.4	4,726.9	65.63
49.5	216.0	1,372.4	10,692.0	6,924.3	4,818.0	64.76
49.5	220.0	1,353.1	10,890.0	6,956.0	4,909.1	63.88
49.5	224.0	1,333.6	11,088.0	6,983.0	5,000.2	62.98
49.5	228.0	1,313.8	11,286.0	7,004.5	5,091.2	62.06
49.5	232.0	1,293.7	11,484.0	7,020.8	5,182.3	61.14
49.5	236.0	1,273.3	11,682.0	7,031.5	5,273.4	60.19
49.5	240.0	1,252.6	11,880.0	7,036.7	5,364.5	59.23

nl = rpm with no load

lo = current with no load

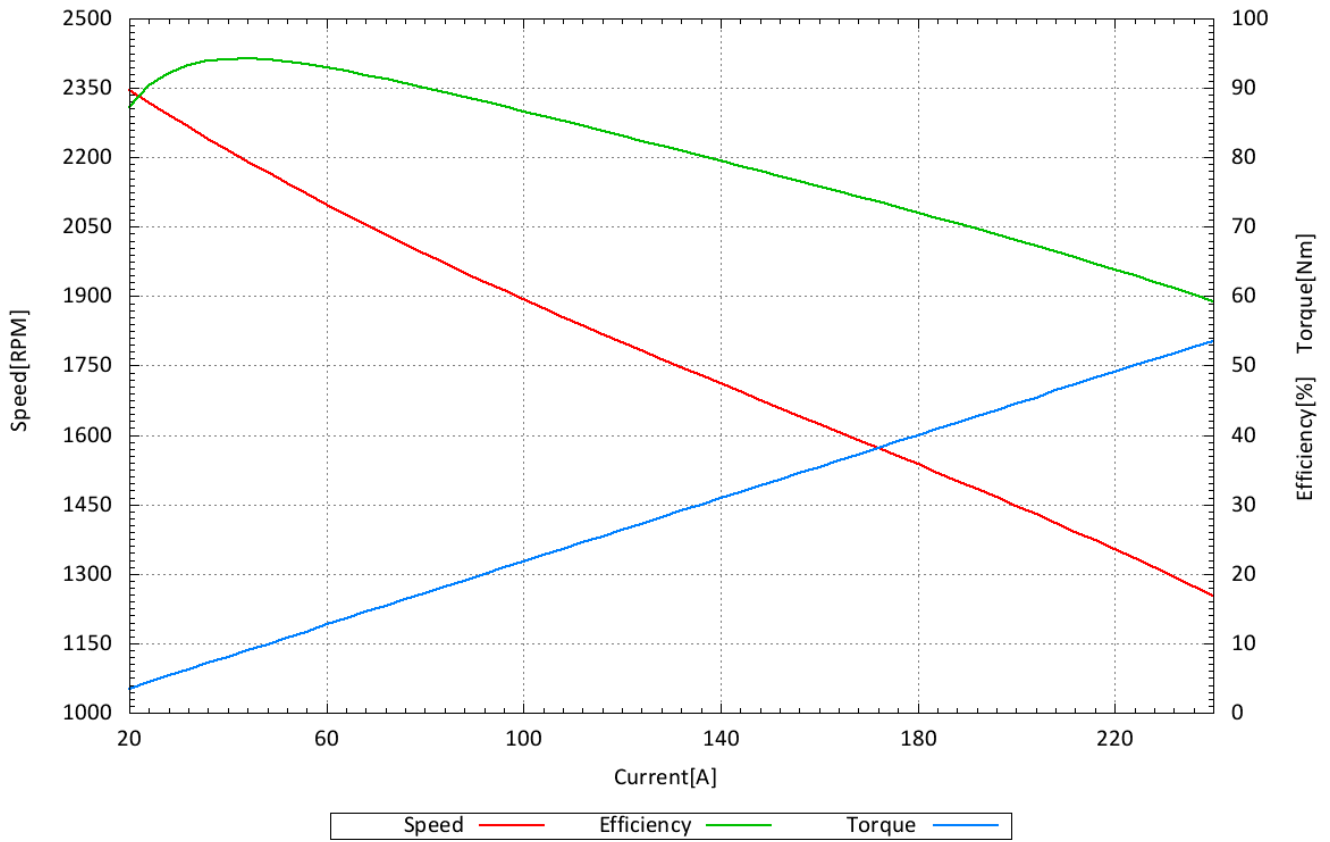
kV = specific rpm

kn = rpm drop per Amp

kT = torque constant

<sup>1</sup> incl. Controller

HP875\_70\_B6\_P30\_50V\_MST140-200\_K\_16042024



## Report calculated on Test Bench Results

Motor type: **NOVA 15-70-B6 P30**

Date: 16.04.2024

Bearing type: regular

Controller: MST 140-200

### Measuring Parameter

Voltage: **60.0 [V]**

Throttle setting: 100%

### Calculated Motor Constants

nl: 2,865.2 [RPM]    lo: 5.3 [A]    kv: 48.2 [RPM/V]    kn: -5.54 [RPM/A]    kT: 23.07 [Ncm/A]

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
60.0	20.0	2,824.0	1,200.0	1,006.1	340.2	83.84
59.9	24.0	2,793.0	1,437.6	1,265.0	432.5	87.99
59.9	28.0	2,762.8	1,677.2	1,518.3	524.8	90.53
59.9	32.0	2,733.3	1,916.8	1,766.0	617.0	92.13
59.9	36.0	2,704.4	2,156.4	2,008.8	709.3	93.15
59.9	40.0	2,676.2	2,396.0	2,246.5	801.6	93.76
59.9	44.0	2,648.6	2,635.6	2,479.3	893.9	94.07
59.9	48.0	2,621.6	2,875.2	2,707.4	986.2	94.17
59.9	52.0	2,595.2	3,114.8	2,931.0	1,078.5	94.10
59.9	56.0	2,569.3	3,354.4	3,150.1	1,170.8	93.91
59.9	60.0	2,544.0	3,594.0	3,364.7	1,263.0	93.62
59.9	64.0	2,519.2	3,833.6	3,575.4	1,355.3	93.27
59.9	68.0	2,494.9	4,073.2	3,782.1	1,447.6	92.85
59.8	72.0	2,471.0	4,305.6	3,984.7	1,539.9	92.55
59.8	76.0	2,447.6	4,544.8	4,183.5	1,632.2	92.05
59.8	80.0	2,424.7	4,784.0	4,378.7	1,724.5	91.53
59.8	84.0	2,402.1	5,023.2	4,569.9	1,816.7	90.98
59.8	88.0	2,379.9	5,262.4	4,757.7	1,909.0	90.41
59.8	92.0	2,358.0	5,501.6	4,941.8	2,001.3	89.82
59.8	96.0	2,336.5	5,740.8	5,122.6	2,093.6	89.23
59.8	100.0	2,315.2	5,980.0	5,299.7	2,185.9	88.62
59.8	104.0	2,294.3	6,219.2	5,473.6	2,278.2	88.01
59.8	108.0	2,273.6	6,458.4	5,643.7	2,370.4	87.39
59.8	112.0	2,253.2	6,697.6	5,810.9	2,462.7	86.76
59.8	116.0	2,232.9	6,936.8	5,974.3	2,555.0	86.13
59.7	120.0	2,212.9	7,164.0	6,134.7	2,647.3	85.63

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
59.7	124.0	2,193.0	7,402.8	6,291.5	2,739.6	84.99
59.7	128.0	2,173.3	7,641.6	6,445.0	2,831.9	84.34
59.7	132.0	2,153.6	7,880.4	6,594.8	2,924.2	83.69
59.7	136.0	2,134.1	8,119.2	6,741.1	3,016.4	83.03
59.7	140.0	2,114.7	8,358.0	6,884.2	3,108.7	82.37
59.7	144.0	2,095.3	8,596.8	7,023.6	3,201.0	81.70
59.7	148.0	2,075.9	8,835.6	7,159.2	3,293.3	81.03
59.7	152.0	2,056.6	9,074.4	7,291.5	3,385.6	80.35
59.7	156.0	2,037.2	9,313.2	7,419.6	3,477.9	79.67
59.7	160.0	2,017.8	9,552.0	7,543.7	3,570.1	78.98
59.7	164.0	1,998.3	9,790.8	7,664.0	3,662.4	78.28
59.6	168.0	1,978.7	10,012.8	7,780.1	3,754.7	77.70
59.6	172.0	1,959.0	10,251.2	7,892.0	3,847.0	76.99
59.6	176.0	1,939.2	10,489.6	7,999.6	3,939.3	76.26
59.6	180.0	1,919.3	10,728.0	8,103.1	4,031.6	75.53
59.6	184.0	1,899.1	10,966.4	8,201.3	4,123.9	74.79
59.6	188.0	1,878.8	11,204.8	8,295.1	4,216.1	74.03
59.6	192.0	1,858.2	11,443.2	8,383.7	4,308.4	73.26
59.6	196.0	1,837.4	11,681.6	8,467.5	4,400.7	72.49
59.6	200.0	1,816.3	11,920.0	8,545.8	4,493.0	71.69
59.6	204.0	1,794.9	12,158.4	8,618.6	4,585.3	70.89
59.6	208.0	1,773.2	12,396.8	8,685.8	4,677.6	70.06
59.6	212.0	1,751.2	12,635.2	8,747.1	4,769.8	69.23
59.5	216.0	1,728.8	12,852.0	8,802.3	4,862.1	68.49
59.5	220.0	1,706.0	13,090.0	8,851.1	4,954.4	67.62
59.5	224.0	1,682.8	13,328.0	8,893.4	5,046.7	66.73
59.5	228.0	1,659.1	13,566.0	8,928.5	5,139.0	65.82
59.5	232.0	1,635.0	13,804.0	8,956.9	5,231.3	64.89
59.5	236.0	1,610.5	14,042.0	8,978.1	5,323.5	63.94
59.5	240.0	1,585.4	14,280.0	8,991.5	5,415.8	62.97

nl = rpm with no load

lo = current with no load

kV = specific rpm

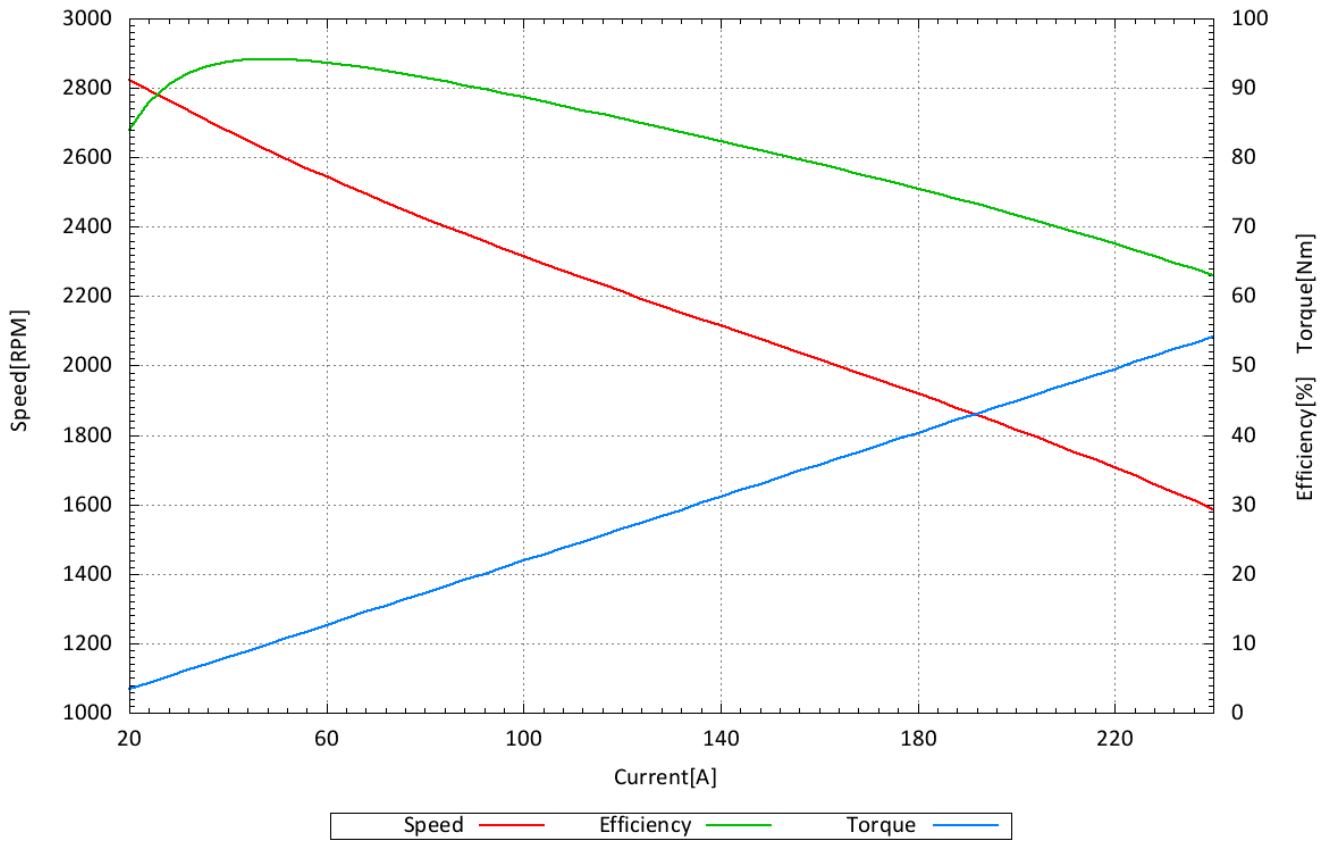
kn = rpm drop per Amp

kT = torque constant

<sup>1</sup> incl. Controller



HP875\_70\_B6\_P30\_60V\_MST140-200\_K\_16042024



## Report calculated on Test Bench Results

Motor type: **NOVA 15-70-B6 P30**

Date: 16.04.2024

Bearing type: regular

Controller: MST 140-200

### Measuring Parameter

Voltage: **70.0 [V]**

Throttle setting: 100%

### Calculated Motor Constants

nl: 3,298.9 [RPM]    lo: 5.5 [A]    kv: 47.6 [RPM/V]    kn: -5.79 [RPM/A]    kT: 23.37 [Ncm/A]

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
70.0	20.0	3,259.3	1,400.0	1,158.4	339.4	82.74
69.9	24.0	3,226.5	1,677.6	1,462.7	432.9	87.19
69.9	28.0	3,194.5	1,957.2	1,761.0	526.4	89.97
69.9	32.0	3,163.2	2,236.8	2,053.1	619.8	91.79
69.9	36.0	3,132.6	2,516.4	2,339.9	713.3	92.99
69.9	40.0	3,102.7	2,796.0	2,621.1	806.7	93.74
69.9	44.0	3,073.4	3,075.6	2,897.3	900.2	94.20
69.9	48.0	3,044.8	3,355.2	3,168.4	993.7	94.43
69.9	52.0	3,016.7	3,634.8	3,434.2	1,087.1	94.48
69.9	56.0	2,989.3	3,914.4	3,695.7	1,180.6	94.41
69.9	60.0	2,962.5	4,194.0	3,952.4	1,274.0	94.24
69.9	64.0	2,936.2	4,473.6	4,204.8	1,367.5	93.99
69.9	68.0	2,910.4	4,753.2	4,452.8	1,461.0	93.68
69.8	72.0	2,885.1	5,025.6	4,696.3	1,554.4	93.45
69.8	76.0	2,860.3	5,304.8	4,936.0	1,647.9	93.05
69.8	80.0	2,836.0	5,584.0	5,171.4	1,741.3	92.61
69.8	84.0	2,812.1	5,863.2	5,403.2	1,834.8	92.15
69.8	88.0	2,788.6	6,142.4	5,631.1	1,928.3	91.68
69.8	92.0	2,765.5	6,421.6	5,854.9	2,021.7	91.17
69.8	96.0	2,742.8	6,700.8	6,075.4	2,115.2	90.67
69.8	100.0	2,720.4	6,980.0	6,291.9	2,208.6	90.14
69.8	104.0	2,698.4	7,259.2	6,505.2	2,302.1	89.61
69.8	108.0	2,676.6	7,538.4	6,714.7	2,395.6	89.07
69.8	112.0	2,655.2	7,817.6	6,920.7	2,489.0	88.53
69.7	116.0	2,634.0	8,085.2	7,123.4	2,582.5	88.10
69.7	120.0	2,613.0	8,364.0	7,322.1	2,675.9	87.54

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
69.7	124.0	2,592.3	8,642.8	7,518.0	2,769.4	86.99
69.7	128.0	2,571.7	8,921.6	7,710.0	2,862.9	86.42
69.7	132.0	2,551.3	9,200.4	7,898.4	2,956.3	85.85
69.7	136.0	2,531.1	9,479.2	8,083.7	3,049.8	85.28
69.7	140.0	2,511.0	9,758.0	8,265.1	3,143.2	84.70
69.7	144.0	2,491.0	10,036.8	8,443.2	3,236.7	84.12
69.7	148.0	2,471.1	10,315.6	8,617.7	3,330.2	83.54
69.7	152.0	2,451.2	10,594.4	8,788.0	3,423.6	82.95
69.7	156.0	2,431.4	10,873.2	8,955.1	3,517.1	82.36
69.6	160.0	2,411.6	11,136.0	9,118.0	3,610.5	81.88
69.6	164.0	2,391.8	11,414.4	9,277.4	3,704.0	81.28
69.6	168.0	2,371.9	11,692.8	9,432.4	3,797.5	80.67
69.6	172.0	2,352.1	11,971.2	9,583.7	3,890.9	80.06
69.6	176.0	2,332.1	12,249.6	9,730.6	3,984.4	79.44
69.6	180.0	2,312.0	12,528.0	9,872.8	4,077.8	78.81
69.6	184.0	2,291.9	12,806.4	10,011.4	4,171.3	78.18
69.6	188.0	2,271.6	13,084.8	10,145.2	4,264.8	77.53
69.6	192.0	2,251.1	13,363.2	10,273.8	4,358.2	76.88
69.6	196.0	2,230.4	13,641.6	10,397.7	4,451.7	76.22
69.6	200.0	2,209.6	13,920.0	10,516.9	4,545.1	75.55
69.6	204.0	2,188.5	14,198.4	10,630.7	4,638.6	74.87
69.5	208.0	2,167.1	14,456.0	10,738.9	4,732.1	74.29
69.5	212.0	2,145.5	14,734.0	10,841.8	4,825.5	73.58
69.5	216.0	2,123.6	15,012.0	10,939.0	4,919.0	72.87
69.5	220.0	2,101.4	15,290.0	11,030.4	5,012.5	72.14
69.5	224.0	2,078.9	15,568.0	11,115.6	5,105.9	71.40
69.5	228.0	2,055.9	15,846.0	11,194.0	5,199.4	70.64
69.5	232.0	2,032.6	16,124.0	11,265.9	5,292.8	69.87
69.5	236.0	2,008.9	16,402.0	11,331.2	5,386.3	69.08
69.5	240.0	1,984.8	16,680.0	11,389.6	5,479.8	68.28

nl = rpm with no load

lo = current with no load

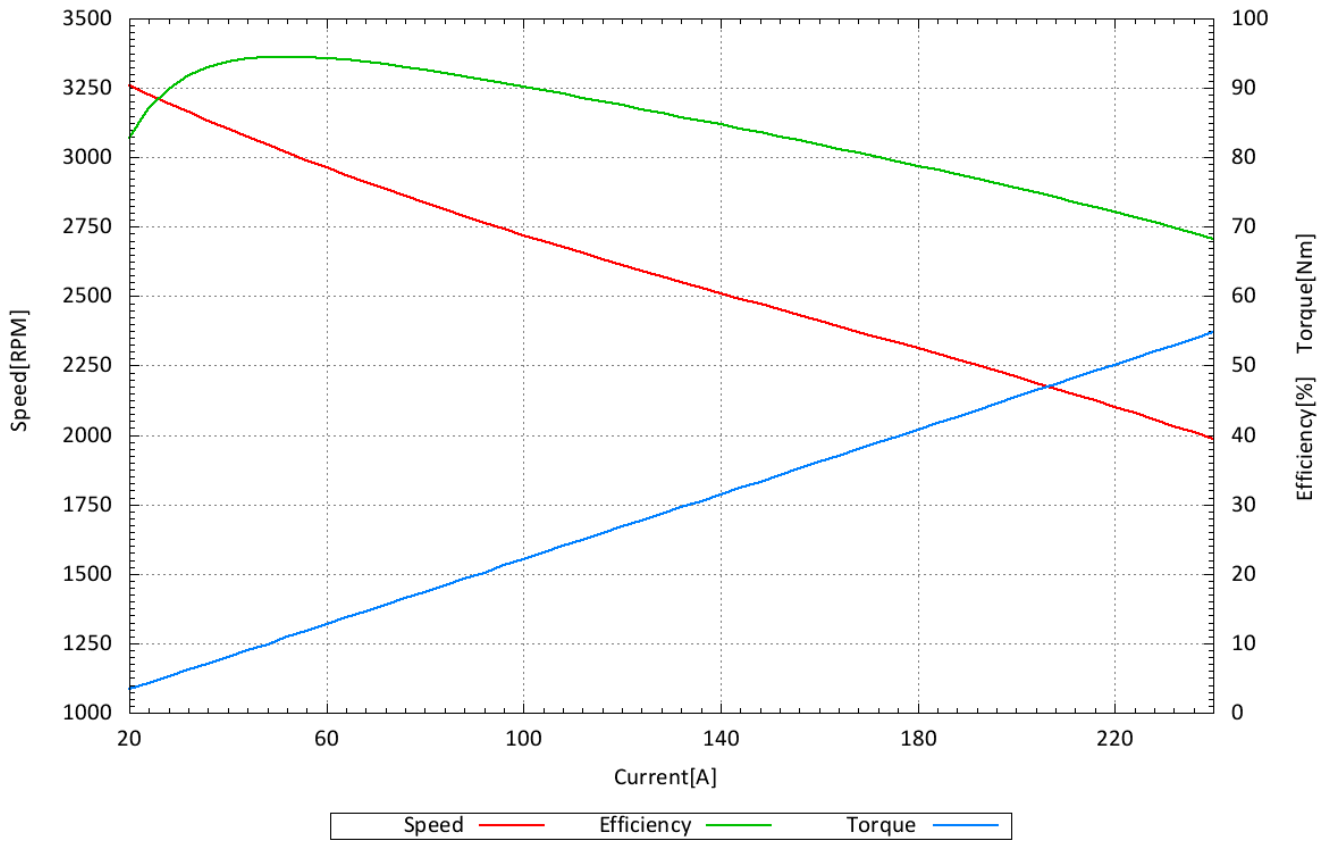
kV = specific rpm

kn = rpm drop per Amp

kT = torque constant

<sup>1</sup> incl. Controller

HP875\_70\_B6\_P30\_70V\_MST140-200\_K\_16042024



## Report calculated on Test Bench Results

Motor type: **NOVA 15-70-B6 P30**

Date: 16.04.2024

Bearing type: regular

Controller: MST 140-200

### Measuring Parameter

Voltage: **80.0 [V]**

Throttle setting: 100%

### Calculated Motor Constants

nl: 3,712.9 [RPM]    lo: 5.8 [A]    kv: 46.8 [RPM/V]    kn: -5.95 [RPM/A]    kT: 23.45 [Ncm/A]

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
80.0	20.0	3,722.1	1,600.0	1,295.6	332.4	80.98
79.9	24.0	3,685.8	1,917.6	1,645.0	426.2	85.79
79.9	28.0	3,650.3	2,237.2	1,987.7	520.0	88.85
79.9	32.0	3,615.7	2,556.8	2,324.1	613.8	90.90
79.9	36.0	3,581.9	2,876.4	2,654.2	707.6	92.27
79.9	40.0	3,548.8	3,196.0	2,978.2	801.4	93.19
79.9	44.0	3,516.5	3,515.6	3,296.5	895.2	93.77
79.9	48.0	3,484.9	3,835.2	3,609.2	989.0	94.11
79.9	52.0	3,454.0	4,154.8	3,916.5	1,082.8	94.26
79.9	56.0	3,423.7	4,474.4	4,218.5	1,176.6	94.28
79.9	60.0	3,394.2	4,794.0	4,515.2	1,270.3	94.18
79.9	64.0	3,365.2	5,113.6	4,807.1	1,364.1	94.01
79.9	68.0	3,336.9	5,433.2	5,094.5	1,457.9	93.77
79.8	72.0	3,309.1	5,745.6	5,377.1	1,551.7	93.59
79.8	76.0	3,281.8	6,064.8	5,655.1	1,645.5	93.24
79.8	80.0	3,255.1	6,384.0	5,928.8	1,739.3	92.87
79.8	84.0	3,228.9	6,703.2	6,198.3	1,833.1	92.47
79.8	88.0	3,203.2	7,022.4	6,463.6	1,926.9	92.04
79.8	92.0	3,177.9	7,341.6	6,724.7	2,020.7	91.60
79.8	96.0	3,153.0	7,660.8	6,981.7	2,114.5	91.14
79.8	100.0	3,128.5	7,980.0	7,234.7	2,208.3	90.66
79.8	104.0	3,104.5	8,299.2	7,484.2	2,302.1	90.18
79.8	108.0	3,080.7	8,618.4	7,729.4	2,395.9	89.69
79.8	112.0	3,057.3	8,937.6	7,971.0	2,489.7	89.19
79.8	116.0	3,034.2	9,256.8	8,208.8	2,583.5	88.68
79.7	120.0	3,011.4	9,564.0	8,442.9	2,677.3	88.28

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
79.7	124.0	2,988.8	9,882.8	8,673.2	2,771.1	87.76
79.7	128.0	2,966.4	10,201.6	8,899.5	2,864.9	87.24
79.7	132.0	2,944.3	10,520.4	9,122.5	2,958.7	86.71
79.7	136.0	2,922.3	10,839.2	9,341.3	3,052.5	86.18
79.7	140.0	2,900.5	11,158.0	9,556.6	3,146.3	85.65
79.7	144.0	2,878.8	11,476.8	9,767.8	3,240.1	85.11
79.7	148.0	2,857.2	11,795.6	9,975.2	3,333.9	84.57
79.7	152.0	2,835.7	12,114.4	10,178.7	3,427.7	84.02
79.7	156.0	2,814.2	12,433.2	10,377.9	3,521.5	83.47
79.7	160.0	2,792.8	12,752.0	10,573.4	3,615.3	82.92
79.7	164.0	2,771.4	13,070.8	10,764.6	3,709.1	82.36
79.6	168.0	2,749.9	13,372.8	10,950.9	3,802.8	81.89
79.6	172.0	2,728.4	13,691.2	11,133.3	3,896.6	81.32
79.6	176.0	2,706.9	14,009.6	11,311.4	3,990.4	80.74
79.6	180.0	2,685.2	14,328.0	11,484.5	4,084.2	80.15
79.6	184.0	2,663.4	14,646.4	11,652.9	4,178.0	79.56
79.6	188.0	2,641.5	14,964.8	11,816.5	4,271.8	78.96
79.6	192.0	2,619.4	15,283.2	11,975.0	4,365.6	78.35
79.6	196.0	2,597.2	15,601.6	12,128.6	4,459.4	77.74
79.6	200.0	2,574.7	15,920.0	12,276.4	4,553.2	77.11
79.6	204.0	2,551.9	16,238.4	12,418.4	4,647.0	76.48
79.6	208.0	2,528.9	16,556.8	12,554.9	4,740.8	75.83
79.6	212.0	2,505.6	16,875.2	12,685.3	4,834.6	75.17
79.5	216.0	2,482.0	17,172.0	12,809.6	4,928.4	74.60
79.5	220.0	2,458.0	17,490.0	12,927.2	5,022.2	73.91
79.5	224.0	2,433.7	17,808.0	13,038.5	5,116.0	73.22
79.5	228.0	2,409.0	18,126.0	13,142.8	5,209.8	72.51
79.5	232.0	2,383.9	18,444.0	13,240.0	5,303.6	71.78
79.5	236.0	2,358.3	18,762.0	13,329.5	5,397.4	71.04
79.5	240.0	2,332.3	19,080.0	13,411.6	5,491.2	70.29

nl = rpm with no load

lo = current with no load

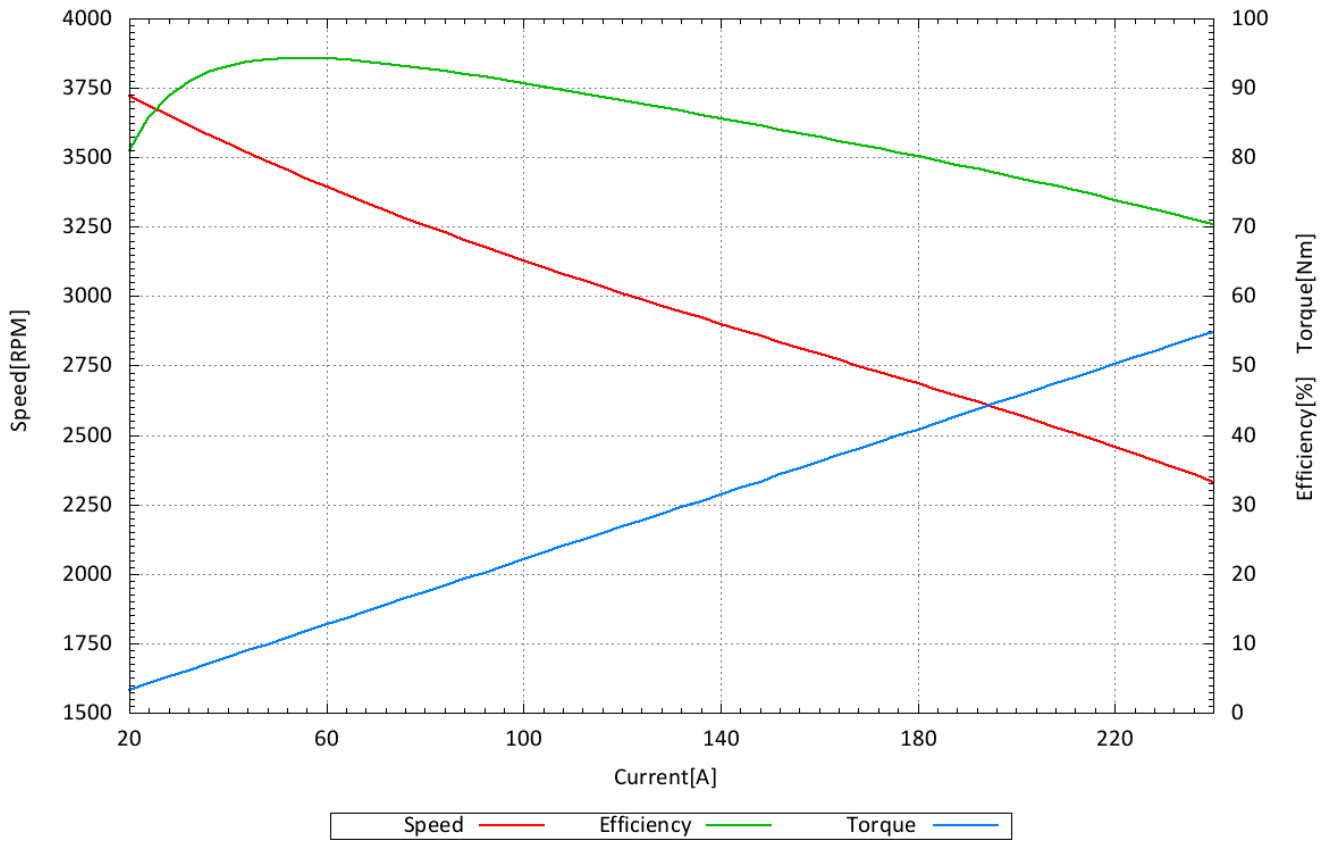
kV = specific rpm

kn = rpm drop per Amp

kT = torque constant

<sup>1</sup> incl. Controller

HP875\_70\_B6\_P30\_80V\_MST140-200\_K\_16042024



## Report calculated on Test Bench Results

Motor type: **NOVA 15-70-B6 P30**

Date: 16.04.2024

Bearing type: regular

Controller: MST 140-200

### Measuring Parameter

Voltage: **90.0 [V]**

Throttle setting: 100%

### Calculated Motor Constants

nl: 4,219.7 [RPM]    lo: 7.8 [A]    kv: 47.5 [RPM/V]    kn: -6.75 [RPM/A]    kT: 23.70 [Ncm/A]

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
90.0	20.0	4,238.3	1,800.0	1,283.1	289.1	71.28
90.0	24.0	4,196.2	2,160.0	1,687.0	383.9	78.10
89.9	28.0	4,155.3	2,517.2	2,083.0	478.7	82.75
89.9	32.0	4,115.3	2,876.8	2,471.5	573.5	85.91
89.9	36.0	4,076.4	3,236.4	2,852.8	668.3	88.15
89.9	40.0	4,038.4	3,596.0	3,227.2	763.1	89.74
89.9	44.0	4,001.3	3,955.6	3,594.7	857.9	90.88
89.9	48.0	3,965.2	4,315.2	3,956.4	952.8	91.68
89.9	52.0	3,929.9	4,674.8	4,311.3	1,047.6	92.22
89.9	56.0	3,895.5	5,034.4	4,660.3	1,142.4	92.57
89.9	60.0	3,861.9	5,394.0	5,003.4	1,237.2	92.76
89.9	64.0	3,829.0	5,753.6	5,340.9	1,332.0	92.83
89.9	68.0	3,796.9	6,113.2	5,673.1	1,426.8	92.80
89.9	72.0	3,765.5	6,472.8	6,000.4	1,521.7	92.70
89.9	76.0	3,734.8	6,832.4	6,322.3	1,616.5	92.53
89.8	80.0	3,704.8	7,184.0	6,639.3	1,711.3	92.42
89.8	84.0	3,675.3	7,543.2	6,951.3	1,806.1	92.15
89.8	88.0	3,646.5	7,902.4	7,258.8	1,900.9	91.86
89.8	92.0	3,618.2	8,261.6	7,561.6	1,995.7	91.53
89.8	96.0	3,590.5	8,620.8	7,860.6	2,090.6	91.18
89.8	100.0	3,563.2	8,980.0	8,154.5	2,185.4	90.81
89.8	104.0	3,536.4	9,339.2	8,444.3	2,280.2	90.42
89.8	108.0	3,510.0	9,698.4	8,729.7	2,375.0	90.01
89.8	112.0	3,484.1	10,057.6	9,011.2	2,469.8	89.60
89.8	116.0	3,458.5	10,416.8	9,288.3	2,564.6	89.17
89.8	120.0	3,433.2	10,776.0	9,561.2	2,659.4	88.73



Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
89.8	124.0	3,408.3	11,135.2	9,830.5	2,754.3	88.28
89.8	128.0	3,383.6	11,494.4	10,095.2	2,849.1	87.83
89.7	132.0	3,359.2	11,840.4	10,355.9	2,943.9	87.46
89.7	136.0	3,335.0	12,199.2	10,612.4	3,038.7	86.99
89.7	140.0	3,311.0	12,558.0	10,864.7	3,133.5	86.52
89.7	144.0	3,287.1	12,916.8	11,112.6	3,228.3	86.03
89.7	148.0	3,263.3	13,275.6	11,356.4	3,323.2	85.54
89.7	152.0	3,239.7	13,634.4	11,595.9	3,418.0	85.05
89.7	156.0	3,216.1	13,993.2	11,830.7	3,512.8	84.55
89.7	160.0	3,192.5	14,352.0	12,060.8	3,607.6	84.04
89.7	164.0	3,168.9	14,710.8	12,286.3	3,702.4	83.52
89.7	168.0	3,145.3	15,069.6	12,507.0	3,797.2	83.00
89.7	172.0	3,121.6	15,428.4	12,723.0	3,892.1	82.46
89.7	176.0	3,097.8	15,787.2	12,933.5	3,986.9	81.92
89.7	180.0	3,073.9	16,146.0	13,138.9	4,081.7	81.38
89.6	184.0	3,049.8	16,486.4	13,338.7	4,176.5	80.91
89.6	188.0	3,025.5	16,844.8	13,532.7	4,271.3	80.34
89.6	192.0	3,001.0	17,203.2	13,721.1	4,366.1	79.76
89.6	196.0	2,976.3	17,561.6	13,903.9	4,461.0	79.17
89.6	200.0	2,951.3	17,920.0	14,080.1	4,555.8	78.57
89.6	204.0	2,925.9	18,278.4	14,249.4	4,650.6	77.96
89.6	208.0	2,900.2	18,636.8	14,412.2	4,745.4	77.33
89.6	212.0	2,874.1	18,995.2	14,567.8	4,840.2	76.69
89.6	216.0	2,847.6	19,353.6	14,716.2	4,935.0	76.04
89.6	220.0	2,820.7	19,712.0	14,857.2	5,029.8	75.37
89.6	224.0	2,793.3	20,070.4	14,990.4	5,124.7	74.69
89.6	228.0	2,765.3	20,428.8	15,114.7	5,219.5	73.99
89.6	232.0	2,736.9	20,787.2	15,231.2	5,314.3	73.27
89.5	236.0	2,707.9	21,122.0	15,338.6	5,409.1	72.62
89.5	240.0	2,678.2	21,480.0	15,436.3	5,503.9	71.86

nl = rpm with no load

lo = current with no load

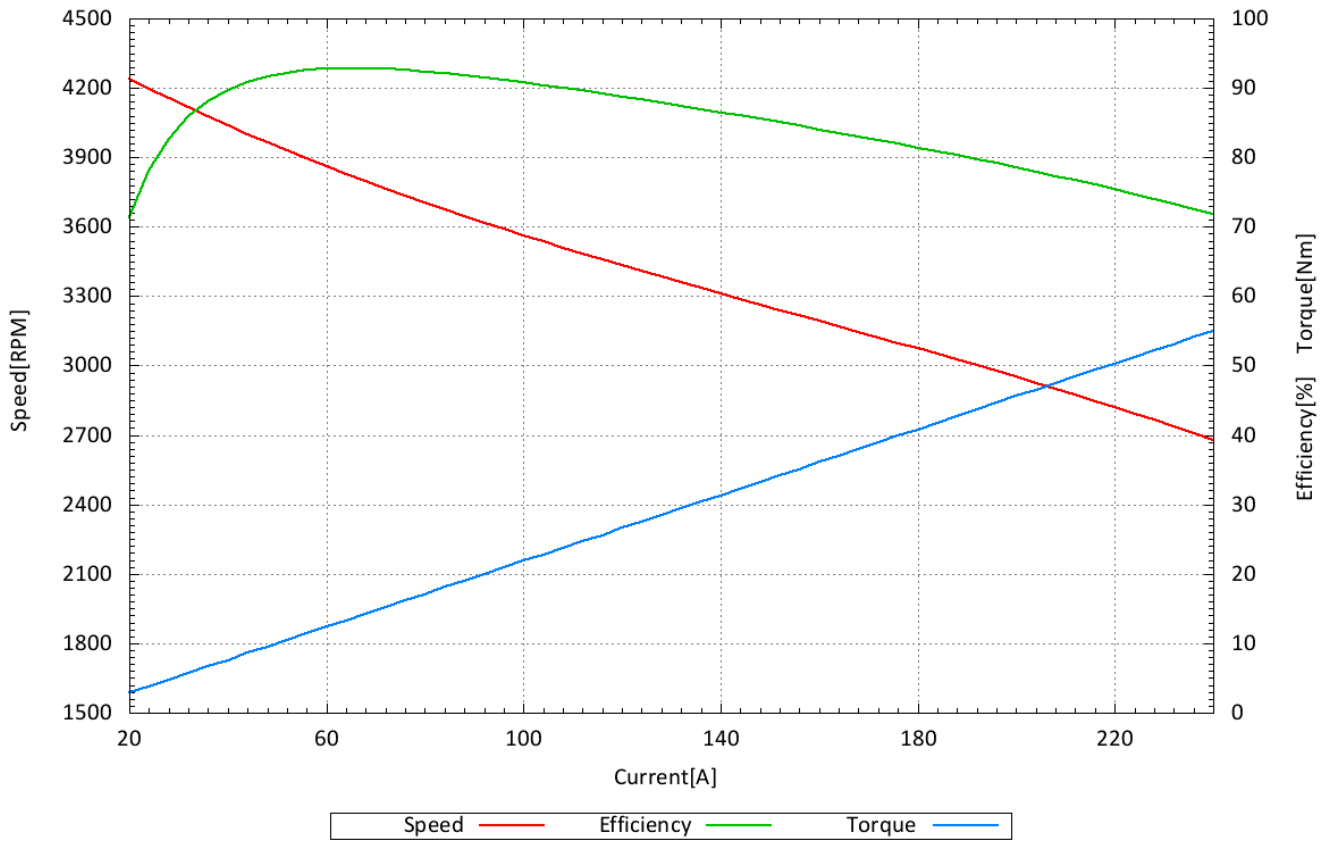
kV = specific rpm

kn = rpm drop per Amp

kT = torque constant

<sup>1</sup> incl. Controller

HP875\_70\_B6\_P30\_90V\_MST140-200\_K\_16042024



## Report calculated on Test Bench Results

Motor type: **NOVA 15-70-B6 P30**

Date: 16.04.2024

Bearing type: regular

Controller: MST 140-200

### Measuring Parameter

Voltage: **100.0 [V]**

Throttle setting: 100%

### Calculated Motor Constants

nl: 4,693.6 [RPM]    lo: 7.4 [A]    kv: 47.5 [RPM/V]    kn: -7.29 [RPM/A]    kT: 23.87 [Ncm/A]

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
100.0	20.0	4,705.1	2,000.0	1,486.5	301.7	74.33
100.0	24.0	4,659.5	2,400.0	1,938.1	397.2	80.75
99.9	28.0	4,615.1	2,797.2	2,381.2	492.7	85.13
99.9	32.0	4,571.8	3,196.8	2,816.1	588.2	88.09
99.9	36.0	4,529.6	3,596.4	3,243.1	683.7	90.17
99.9	40.0	4,488.4	3,996.0	3,662.0	779.1	91.64
99.9	44.0	4,448.2	4,395.6	4,074.0	874.6	92.68
99.9	48.0	4,409.1	4,795.2	4,479.1	970.1	93.41
99.9	52.0	4,370.9	5,194.8	4,877.5	1,065.6	93.89
99.9	56.0	4,333.6	5,594.4	5,269.2	1,161.1	94.19
99.9	60.0	4,297.1	5,994.0	5,654.6	1,256.6	94.34
99.9	64.0	4,261.6	6,393.6	6,034.1	1,352.1	94.38
99.9	68.0	4,226.9	6,793.2	6,407.7	1,447.6	94.32
99.9	72.0	4,192.9	7,192.8	6,775.4	1,543.1	94.20
99.8	76.0	4,159.7	7,584.8	7,137.8	1,638.6	94.11
99.8	80.0	4,127.3	7,984.0	7,494.5	1,734.0	93.87
99.8	84.0	4,095.5	8,383.2	7,846.4	1,829.5	93.60
99.8	88.0	4,064.4	8,782.4	8,193.2	1,925.0	93.29
99.8	92.0	4,033.9	9,181.6	8,535.2	2,020.5	92.96
99.8	96.0	4,004.0	9,580.8	8,872.3	2,116.0	92.61
99.8	100.0	3,974.6	9,980.0	9,204.7	2,211.5	92.23
99.8	104.0	3,945.8	10,379.2	9,532.6	2,307.0	91.84
99.8	108.0	3,917.5	10,778.4	9,856.0	2,402.5	91.44
99.8	112.0	3,889.7	11,177.6	10,175.1	2,498.0	91.03
99.8	116.0	3,862.2	11,576.8	10,489.4	2,593.5	90.61
99.8	120.0	3,835.2	11,976.0	10,799.2	2,688.9	90.17

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
99.7	124.0	3,808.5	12,362.8	11,104.9	2,784.4	89.83
99.7	128.0	3,782.2	12,761.6	11,406.5	2,879.9	89.38
99.7	132.0	3,756.1	13,160.4	11,703.4	2,975.4	88.93
99.7	136.0	3,730.3	13,559.2	11,996.0	3,070.9	88.47
99.7	140.0	3,704.8	13,958.0	12,284.5	3,166.4	88.01
99.7	144.0	3,679.4	14,356.8	12,568.3	3,261.9	87.54
99.7	148.0	3,654.2	14,755.6	12,847.7	3,357.4	87.07
99.7	152.0	3,629.1	15,154.4	13,122.3	3,452.9	86.59
99.7	156.0	3,604.2	15,553.2	13,392.8	3,548.4	86.11
99.7	160.0	3,579.3	15,952.0	13,657.8	3,643.8	85.62
99.7	164.0	3,554.4	16,350.8	13,918.3	3,739.3	85.12
99.7	168.0	3,529.6	16,749.6	14,174.1	3,834.8	84.62
99.6	172.0	3,504.7	17,131.2	14,424.6	3,930.3	84.20
99.6	176.0	3,479.7	17,529.6	14,669.7	4,025.8	83.69
99.6	180.0	3,454.6	17,928.0	14,909.4	4,121.3	83.16
99.6	184.0	3,429.4	18,326.4	15,143.6	4,216.8	82.63
99.6	188.0	3,404.1	18,724.8	15,372.3	4,312.3	82.10
99.6	192.0	3,378.5	19,123.2	15,594.6	4,407.8	81.55
99.6	196.0	3,352.8	19,521.6	15,811.3	4,503.3	80.99
99.6	200.0	3,326.7	19,920.0	16,020.5	4,598.7	80.42
99.6	204.0	3,300.4	20,318.4	16,224.0	4,694.2	79.85
99.6	208.0	3,273.7	20,716.8	16,420.1	4,789.7	79.26
99.6	212.0	3,246.7	21,115.2	16,609.4	4,885.2	78.66
99.6	216.0	3,219.2	21,513.6	16,790.6	4,980.7	78.05
99.5	220.0	3,191.4	21,890.0	16,964.8	5,076.2	77.50
99.5	224.0	3,163.1	22,288.0	17,130.7	5,171.7	76.86
99.5	228.0	3,134.3	22,686.0	17,288.2	5,267.2	76.21
99.5	232.0	3,105.0	23,084.0	17,437.1	5,362.7	75.54
99.5	236.0	3,075.1	23,482.0	17,576.7	5,458.2	74.85
99.5	240.0	3,044.6	23,880.0	17,706.5	5,553.6	74.15

nl = rpm with no load

lo = current with no load

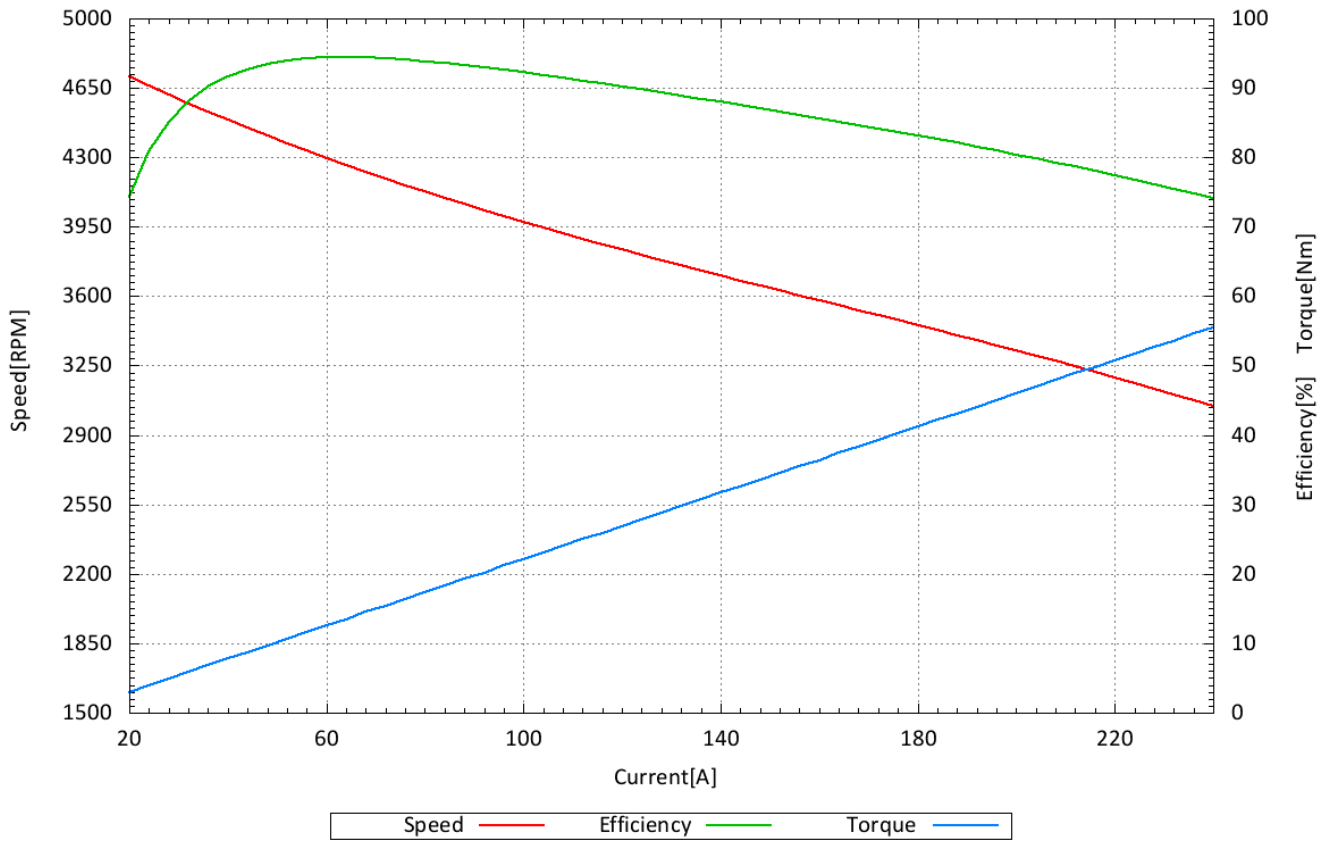
kV = specific rpm

kn = rpm drop per Amp

kT = torque constant

<sup>1</sup> incl. Controller

HP875\_70\_B6\_P30\_100V\_MST140-200\_K\_16042024



## Report calculated on Test Bench Results

Motor type: **NOVA 15-70-B6 P30**

Date: 16.04.2024

Bearing type: regular

Controller: MST 140-200

### Measuring Parameter

Voltage: **110.0 [V]**

Throttle setting: 100%

### Calculated Motor Constants

nl: 5,075.5 [RPM]    lo: 7.2 [A]    kv: 46.6 [RPM/V]    kn: -7.40 [RPM/A]    kT: 24.08 [Ncm/A]

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
110.0	20.0	5,082.7	2,200.0	1,634.6	307.1	74.30
110.0	24.0	5,037.1	2,640.0	2,128.4	403.5	80.62
109.9	28.0	4,992.6	3,077.2	2,613.1	499.8	84.92
109.9	32.0	4,949.3	3,516.8	3,089.5	596.1	87.85
109.9	36.0	4,907.0	3,956.4	3,558.5	692.5	89.94
109.9	40.0	4,865.8	4,396.0	4,019.3	788.8	91.43
109.9	44.0	4,825.7	4,835.6	4,472.8	885.1	92.50
109.9	48.0	4,786.4	5,275.2	4,919.6	981.5	93.26
109.9	52.0	4,748.2	5,714.8	5,359.1	1,077.8	93.78
109.9	56.0	4,710.8	6,154.4	5,792.0	1,174.1	94.11
109.9	60.0	4,674.4	6,594.0	6,219.1	1,270.5	94.31
109.9	64.0	4,638.8	7,033.6	6,639.6	1,366.8	94.40
109.9	68.0	4,604.0	7,473.2	7,054.5	1,463.2	94.40
109.9	72.0	4,569.9	7,912.8	7,463.1	1,559.5	94.32
109.9	76.0	4,536.7	8,352.4	7,866.4	1,655.8	94.18
109.8	80.0	4,504.1	8,784.0	8,264.6	1,752.2	94.09
109.8	84.0	4,472.2	9,223.2	8,657.0	1,848.5	93.86
109.8	88.0	4,441.0	9,662.4	9,044.5	1,944.8	93.61
109.8	92.0	4,410.4	10,101.6	9,427.4	2,041.2	93.33
109.8	96.0	4,380.3	10,540.8	9,804.8	2,137.5	93.02
109.8	100.0	4,350.8	10,980.0	10,177.5	2,233.8	92.69
109.8	104.0	4,321.8	11,419.2	10,546.0	2,330.2	92.35
109.8	108.0	4,293.3	11,858.4	10,909.4	2,426.5	92.00
109.8	112.0	4,265.2	12,297.6	11,268.6	2,522.9	91.63
109.8	116.0	4,237.6	12,736.8	11,623.0	2,619.2	91.26
109.8	120.0	4,210.3	13,176.0	11,972.7	2,715.5	90.87

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
109.8	124.0	4,183.3	13,615.2	12,318.2	2,811.9	90.47
109.7	128.0	4,156.7	14,041.6	12,659.1	2,908.2	90.15
109.7	132.0	4,130.3	14,480.4	12,995.2	3,004.5	89.74
109.7	136.0	4,104.2	14,919.2	13,327.4	3,100.9	89.33
109.7	140.0	4,078.3	15,358.0	13,654.6	3,197.2	88.91
109.7	144.0	4,052.6	15,796.8	13,977.2	3,293.5	88.48
109.7	148.0	4,027.0	16,235.6	14,295.4	3,389.9	88.05
109.7	152.0	4,001.5	16,674.4	14,608.4	3,486.2	87.61
109.7	156.0	3,976.1	17,113.2	14,917.1	3,582.6	87.17
109.7	160.0	3,950.7	17,552.0	15,220.2	3,678.9	86.71
109.7	164.0	3,925.3	17,990.8	15,518.2	3,775.2	86.26
109.7	168.0	3,899.9	18,429.6	15,811.5	3,871.6	85.79
109.7	172.0	3,874.5	18,868.4	16,099.2	3,967.9	85.32
109.7	176.0	3,848.9	19,307.2	16,381.0	4,064.2	84.84
109.6	180.0	3,823.2	19,728.0	16,657.6	4,160.6	84.44
109.6	184.0	3,797.4	20,166.4	16,928.1	4,256.9	83.94
109.6	188.0	3,771.3	20,604.8	17,192.1	4,353.2	83.44
109.6	192.0	3,745.1	21,043.2	17,450.7	4,449.6	82.93
109.6	196.0	3,718.5	21,481.6	17,701.8	4,545.9	82.40
109.6	200.0	3,691.7	21,920.0	17,946.8	4,642.3	81.87
109.6	204.0	3,664.5	22,358.4	18,184.2	4,738.6	81.33
109.6	208.0	3,637.0	22,796.8	18,414.5	4,834.9	80.78
109.6	212.0	3,609.1	23,235.2	18,637.6	4,931.3	80.21
109.6	216.0	3,580.7	23,673.6	18,852.0	5,027.6	79.63
109.6	220.0	3,551.9	24,112.0	19,058.6	5,123.9	79.04
109.6	224.0	3,522.6	24,550.4	19,256.9	5,220.3	78.44
109.6	228.0	3,492.8	24,988.8	19,446.3	5,316.6	77.82
109.5	232.0	3,462.3	25,404.0	19,625.6	5,412.9	77.25
109.5	236.0	3,431.3	25,842.0	19,796.3	5,509.3	76.61
109.5	240.0	3,399.7	26,280.0	19,956.8	5,605.6	75.94

nl = rpm with no load

lo = current with no load

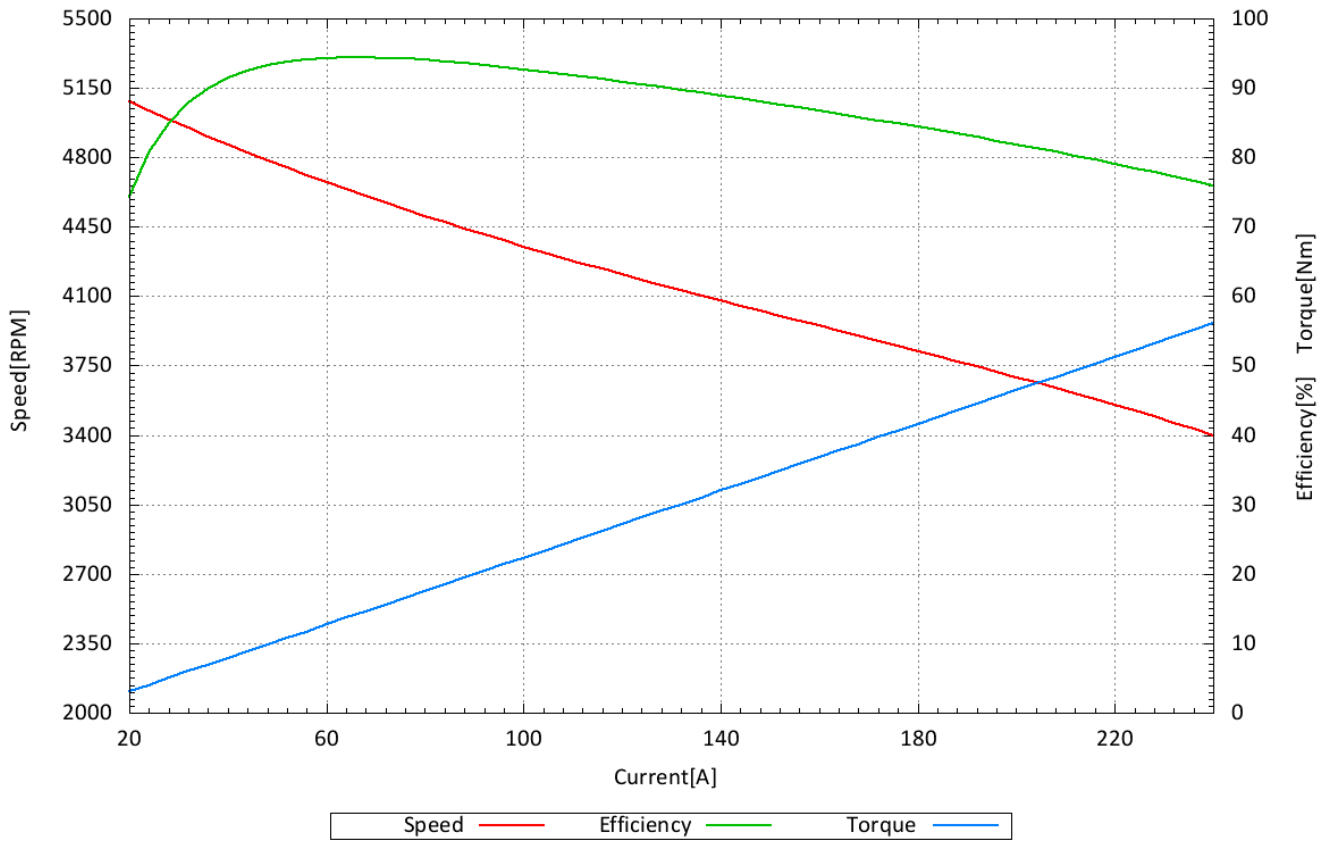
kV = specific rpm

kn = rpm drop per Amp

kT = torque constant

<sup>1</sup> incl. Controller

HP875\_70\_B6\_P30\_110V\_MST140-200\_K\_16042024





## Report calculated on Test Bench Results

Motor type: **NOVA 15-70-B6 P30**

Date: 16.04.2024

Bearing type: regular

Controller: MST 140-200

### Measuring Parameter

Voltage: **120.0 [V]**

Throttle setting: 100%

### Calculated Motor Constants

nl: 5,535.0 [RPM]    lo: 7.5 [A]    kv: 46.6 [RPM/V]    kn: -8.07 [RPM/A]    kT: 24.08 [Ncm/A]

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
120.0	20.0	5,546.6	2,400.0	1,752.4	301.7	73.02
120.0	24.0	5,497.2	2,880.0	2,291.1	398.0	79.55
119.9	28.0	5,449.1	3,357.2	2,820.6	494.3	84.02
119.9	32.0	5,402.1	3,836.8	3,341.6	590.7	87.09
119.9	36.0	5,356.3	4,316.4	3,853.5	687.0	89.27
119.9	40.0	5,311.7	4,796.0	4,357.6	783.4	90.86
119.9	44.0	5,268.2	5,275.6	4,853.2	879.7	91.99
119.9	48.0	5,225.7	5,755.2	5,341.0	976.0	92.80
119.9	52.0	5,184.2	6,234.8	5,821.9	1,072.4	93.38
119.9	56.0	5,143.8	6,714.4	6,295.3	1,168.7	93.76
119.9	60.0	5,104.3	7,194.0	6,761.7	1,265.0	93.99
119.9	64.0	5,065.7	7,673.6	7,221.9	1,361.4	94.11
119.9	68.0	5,028.0	8,153.2	7,675.2	1,457.7	94.14
119.9	72.0	4,991.1	8,632.8	8,122.2	1,554.0	94.09
119.9	76.0	4,955.1	9,112.4	8,563.9	1,650.4	93.98
119.8	80.0	4,919.8	9,584.0	8,999.0	1,746.7	93.90
119.8	84.0	4,885.3	10,063.2	9,429.1	1,843.1	93.70
119.8	88.0	4,851.4	10,542.4	9,852.9	1,939.4	93.46
119.8	92.0	4,818.3	11,021.6	10,271.6	2,035.7	93.19
119.8	96.0	4,785.7	11,500.8	10,685.2	2,132.1	92.91
119.8	100.0	4,753.7	11,980.0	11,093.1	2,228.4	92.60
119.8	104.0	4,722.3	12,459.2	11,496.1	2,324.7	92.27
119.8	108.0	4,691.4	12,938.4	11,894.4	2,421.1	91.93
119.8	112.0	4,661.0	13,417.6	12,287.4	2,517.4	91.58
119.8	116.0	4,631.1	13,896.8	12,675.6	2,613.7	91.21
119.8	120.0	4,601.5	14,376.0	13,059.1	2,710.1	90.84

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
119.8	124.0	4,572.3	14,855.2	13,437.3	2,806.4	90.46
119.7	128.0	4,543.5	15,321.6	13,811.4	2,902.8	90.14
119.7	132.0	4,514.9	15,800.4	14,179.7	2,999.1	89.74
119.7	136.0	4,486.6	16,279.2	14,543.3	3,095.4	89.34
119.7	140.0	4,458.5	16,758.0	14,902.3	3,191.8	88.93
119.7	144.0	4,430.7	17,236.8	15,256.2	3,288.1	88.51
119.7	148.0	4,402.9	17,715.6	15,604.5	3,384.4	88.08
119.7	152.0	4,375.3	18,194.4	15,948.3	3,480.8	87.66
119.7	156.0	4,347.8	18,673.2	16,286.6	3,577.1	87.22
119.7	160.0	4,320.3	19,152.0	16,619.2	3,673.4	86.78
119.7	164.0	4,292.8	19,630.8	16,946.8	3,769.8	86.33
119.7	168.0	4,265.3	20,109.6	17,268.4	3,866.1	85.87
119.7	172.0	4,237.7	20,588.4	17,584.4	3,962.5	85.41
119.7	176.0	4,210.0	21,067.2	17,894.0	4,058.8	84.94
119.6	180.0	4,182.2	21,528.0	18,197.6	4,155.1	84.53
119.6	184.0	4,154.2	22,006.4	18,495.2	4,251.5	84.04
119.6	188.0	4,126.0	22,484.8	18,785.7	4,347.8	83.55
119.6	192.0	4,097.5	22,963.2	19,069.2	4,444.1	83.04
119.6	196.0	4,068.8	23,441.6	19,346.3	4,540.5	82.53
119.6	200.0	4,039.7	23,920.0	19,615.4	4,636.8	82.00
119.6	204.0	4,010.3	24,398.4	19,877.0	4,733.1	81.47
119.6	208.0	3,980.5	24,876.8	20,131.1	4,829.5	80.92
119.6	212.0	3,950.2	25,355.2	20,376.3	4,925.8	80.36
119.6	216.0	3,919.5	25,833.6	20,613.6	5,022.2	79.79
119.6	220.0	3,888.3	26,312.0	20,841.6	5,118.5	79.21
119.6	224.0	3,856.5	26,790.4	21,060.1	5,214.8	78.61
119.6	228.0	3,824.2	27,268.8	21,269.7	5,311.2	78.00
119.5	232.0	3,791.2	27,724.0	21,468.5	5,407.5	77.44
119.5	236.0	3,757.6	28,202.0	21,657.2	5,503.8	76.79
119.5	240.0	3,723.3	28,680.0	21,835.4	5,600.2	76.13

nl = rpm with no load

lo = current with no load

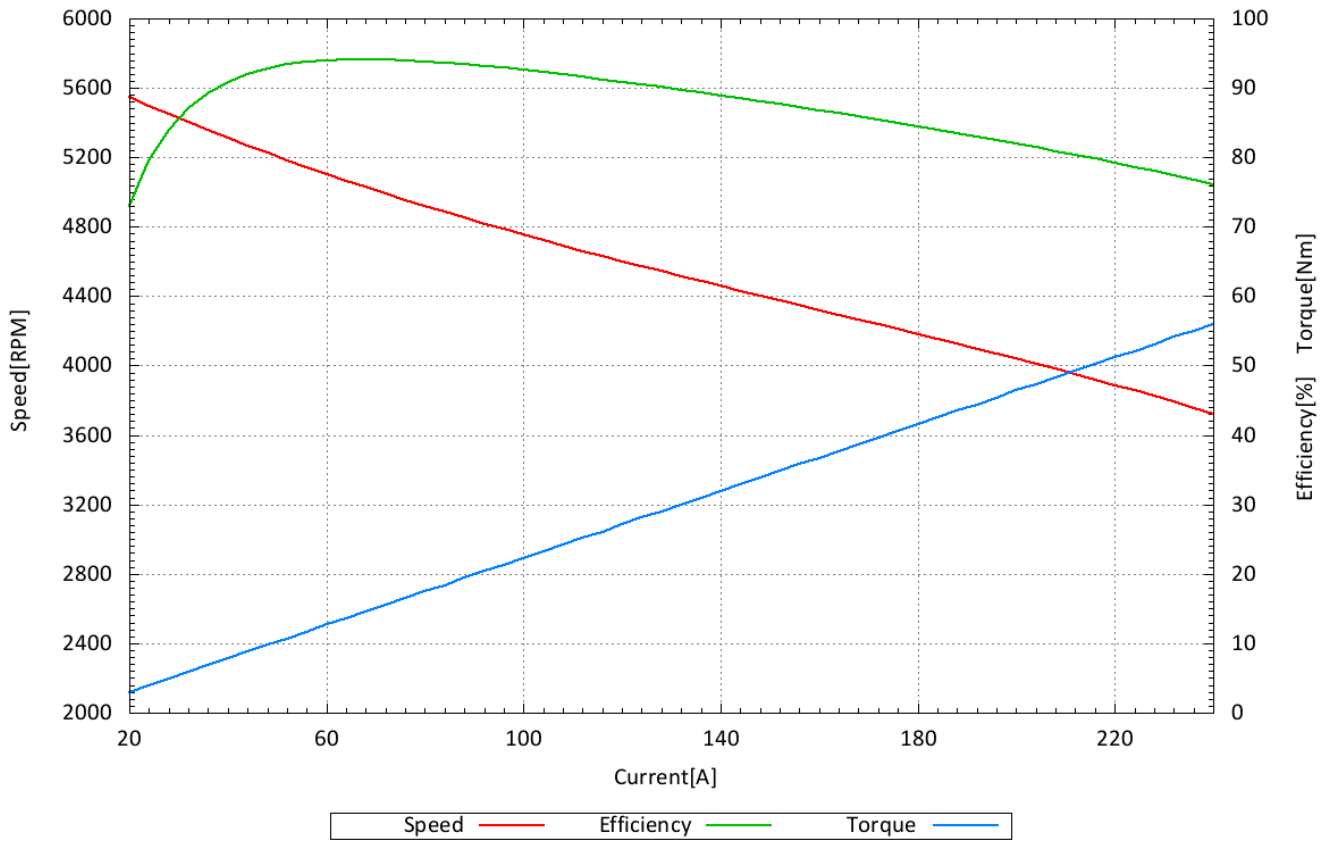
kV = specific rpm

kn = rpm drop per Amp

kT = torque constant

<sup>1</sup> incl. Controller

HP875\_70\_B6\_P30\_120V\_MST140-200\_K\_16042024



## Report calculated on Test Bench Results

Motor type: **NOVA 15-70-B6 P30**

Date: 09.08.2024

Bearing type: regular

Controller: MST 140-200

### Measuring Parameter

Voltage: **130.0 [V]**

Throttle setting: 100%

### Calculated Motor Constants

nl: 5,994.3 [RPM]    lo: 7.7 [A]    kv: 46.6 [RPM/V]    kn: -8.74 [RPM/A]    kT: 24.08 [Ncm/A]

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
130.0	20.0	6,010.6	2,600.0	1,864.4	296.2	71.71
130.0	24.0	5,957.3	3,120.0	2,449.2	392.6	78.50
129.9	28.0	5,905.5	3,637.2	3,023.5	488.9	83.13
129.9	32.0	5,854.9	4,156.8	3,588.0	585.2	86.32
129.9	36.0	5,805.6	4,676.4	4,143.9	681.6	88.61
129.9	40.0	5,757.6	5,196.0	4,690.2	777.9	90.27
129.9	44.0	5,710.7	5,715.6	5,227.9	874.2	91.47
129.9	48.0	5,664.9	6,235.2	5,757.9	970.6	92.34
129.9	52.0	5,620.3	6,754.8	6,279.3	1,066.9	92.96
129.9	56.0	5,576.7	7,274.4	6,793.6	1,163.3	93.39
129.9	60.0	5,534.2	7,794.0	7,299.9	1,259.6	93.66
129.9	64.0	5,492.6	8,313.6	7,798.9	1,355.9	93.81
129.9	68.0	5,452.0	8,833.2	8,291.6	1,452.3	93.87
129.9	72.0	5,412.3	9,352.8	8,777.1	1,548.6	93.84
129.9	76.0	5,373.5	9,872.4	9,256.0	1,644.9	93.76
129.8	80.0	5,335.5	10,384.0	9,729.2	1,741.3	93.69
129.8	84.0	5,298.3	10,903.2	10,195.7	1,837.6	93.51
129.8	88.0	5,261.9	11,422.4	10,656.3	1,933.9	93.29
129.8	92.0	5,226.2	11,941.6	11,111.6	2,030.3	93.05
129.8	96.0	5,191.1	12,460.8	11,560.4	2,126.6	92.77
129.8	100.0	5,156.7	12,980.0	12,004.4	2,223.0	92.48
129.8	104.0	5,122.9	13,499.2	12,442.3	2,319.3	92.17
129.8	108.0	5,089.6	14,018.4	12,874.7	2,415.6	91.84
129.8	112.0	5,056.8	14,537.6	13,302.2	2,512.0	91.50
129.8	116.0	5,024.6	15,056.8	13,724.2	2,608.3	91.15
129.8	120.0	4,992.7	15,576.0	14,140.6	2,704.6	90.78

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
129.8	124.0	4,961.3	16,095.2	14,552.5	2,801.0	90.42
129.7	128.0	4,930.2	16,601.6	14,958.5	2,897.3	90.10
129.7	132.0	4,899.5	17,120.4	15,359.4	2,993.6	89.71
129.7	136.0	4,869.0	17,639.2	15,755.3	3,090.0	89.32
129.7	140.0	4,838.8	18,158.0	16,145.6	3,186.3	88.92
129.7	144.0	4,808.7	18,676.8	16,530.6	3,282.7	88.51
129.7	148.0	4,778.9	19,195.6	16,910.0	3,379.0	88.09
129.7	152.0	4,749.1	19,714.4	17,283.5	3,475.3	87.67
129.7	156.0	4,719.5	20,233.2	17,652.2	3,571.7	87.24
129.7	160.0	4,689.9	20,752.0	18,014.5	3,668.0	86.81
129.7	164.0	4,660.3	21,270.8	18,370.7	3,764.3	86.37
129.7	168.0	4,630.7	21,789.6	18,721.5	3,860.7	85.92
129.7	172.0	4,601.0	22,308.4	19,065.4	3,957.0	85.46
129.7	176.0	4,571.1	22,827.2	19,402.5	4,053.3	85.00
129.6	180.0	4,541.2	23,328.0	19,734.0	4,149.7	84.59
129.6	184.0	4,511.0	23,846.4	20,057.7	4,246.0	84.11
129.6	188.0	4,480.6	24,364.8	20,374.9	4,342.4	83.62
129.6	192.0	4,450.0	24,883.2	20,684.5	4,438.7	83.13
129.6	196.0	4,419.0	25,401.6	20,986.0	4,535.0	82.62
129.6	200.0	4,387.7	25,920.0	21,280.3	4,631.4	82.10
129.6	204.0	4,356.1	26,438.4	21,566.3	4,727.7	81.57
129.6	208.0	4,323.9	26,956.8	21,843.0	4,824.0	81.03
129.6	212.0	4,291.4	27,475.2	22,112.0	4,920.4	80.48
129.6	216.0	4,258.3	27,993.6	22,370.9	5,016.7	79.91
129.6	220.0	4,224.7	28,512.0	22,620.4	5,113.0	79.34
129.6	224.0	4,190.4	29,030.4	22,859.8	5,209.4	78.74
129.6	228.0	4,155.6	29,548.8	23,089.0	5,305.7	78.14
129.5	232.0	4,120.1	30,044.0	23,307.7	5,402.1	77.58
129.5	236.0	4,083.9	30,562.0	23,514.7	5,498.4	76.94
129.5	240.0	4,047.0	31,080.0	23,710.4	5,594.7	76.29

nl = rpm with no load

lo = current with no load

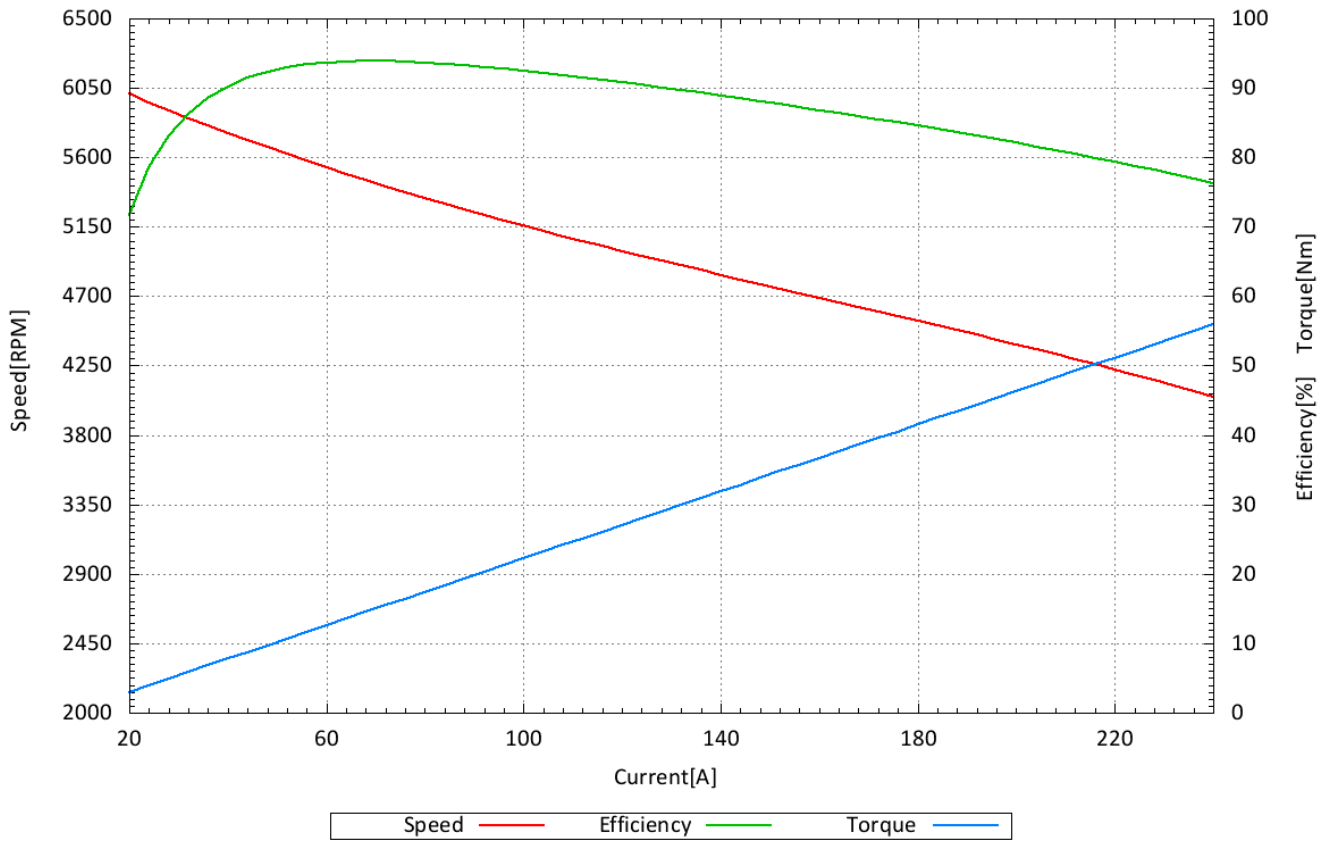
kV = specific rpm

kn = rpm drop per Amp

kT = torque constant

<sup>1</sup> incl. Controller

HP875\_70\_B6\_P30\_130V\_MST140-200\_K\_09082024



## Report calculated on Test Bench Results

Motor type: **NOVA 15-70-B6 P30**

Date: 09.08.2024

Bearing type: regular

Controller: MST 140-200

### Measuring Parameter

Voltage: **140.0 [V]**

Throttle setting: 100%

### Calculated Motor Constants

nl: 6,453.3 [RPM]    lo: 7.9 [A]    kv: 46.6 [RPM/V]    kn: -9.42 [RPM/A]    kT: 24.08 [Ncm/A]

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
140.0	20.0	6,474.5	2,800.0	1,971.6	290.8	70.42
140.0	24.0	6,417.5	3,360.0	2,601.5	387.1	77.42
139.9	28.0	6,361.9	3,917.2	3,221.2	483.5	82.23
139.9	32.0	6,307.7	4,476.8	3,829.8	579.8	85.55
139.9	36.0	6,254.9	5,036.4	4,428.5	676.1	87.93
139.9	40.0	6,203.4	5,596.0	5,018.3	772.5	89.68
139.9	44.0	6,153.2	6,155.6	5,598.2	868.8	90.95
139.9	48.0	6,104.2	6,715.2	6,169.2	965.1	91.87
139.9	52.0	6,056.4	7,274.8	6,732.3	1,061.5	92.54
139.9	56.0	6,009.7	7,834.4	7,286.4	1,157.8	93.01
139.9	60.0	5,964.1	8,394.0	7,832.6	1,254.1	93.31
139.9	64.0	5,919.6	8,953.6	8,371.7	1,350.5	93.50
139.9	68.0	5,876.1	9,513.2	8,902.8	1,446.8	93.58
139.9	72.0	5,833.5	10,072.8	9,427.1	1,543.2	93.59
139.9	76.0	5,792.0	10,632.4	9,944.2	1,639.5	93.53
139.8	80.0	5,751.2	11,184.0	10,454.1	1,735.8	93.47
139.8	84.0	5,711.4	11,743.2	10,958.3	1,832.2	93.32
139.8	88.0	5,672.3	12,302.4	11,455.3	1,928.5	93.11
139.8	92.0	5,634.1	12,861.6	11,946.4	2,024.8	92.88
139.8	96.0	5,596.5	13,420.8	12,431.6	2,121.2	92.63
139.8	100.0	5,559.6	13,980.0	12,910.3	2,217.5	92.35
139.8	104.0	5,523.4	14,539.2	13,383.2	2,313.8	92.05
139.8	108.0	5,487.7	15,098.4	13,850.7	2,410.2	91.74
139.8	112.0	5,452.6	15,657.6	14,312.0	2,506.5	91.41
139.8	116.0	5,418.1	16,216.8	14,768.4	2,602.9	91.07
139.8	120.0	5,384.0	16,776.0	15,218.4	2,699.2	90.72

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
139.8	124.0	5,350.3	17,335.2	15,662.7	2,795.5	90.35
139.7	128.0	5,317.0	17,881.6	16,102.0	2,891.9	90.05
139.7	132.0	5,284.0	18,440.4	16,534.9	2,988.2	89.67
139.7	136.0	5,251.4	18,999.2	16,962.4	3,084.5	89.28
139.7	140.0	5,219.0	19,558.0	17,384.6	3,180.9	88.89
139.7	144.0	5,186.8	20,116.8	17,800.5	3,277.2	88.49
139.7	148.0	5,154.8	20,675.6	18,210.5	3,373.5	88.08
139.7	152.0	5,123.0	21,234.4	18,615.3	3,469.9	87.67
139.7	156.0	5,091.2	21,793.2	19,013.2	3,566.2	87.24
139.7	160.0	5,059.5	22,352.0	19,405.5	3,662.6	86.82
139.7	164.0	5,027.8	22,910.8	19,791.0	3,758.9	86.38
139.7	168.0	4,996.0	23,469.6	20,169.6	3,855.2	85.94
139.7	172.0	4,964.2	24,028.4	20,542.4	3,951.6	85.49
139.7	176.0	4,932.3	24,587.2	20,907.8	4,047.9	85.04
139.6	180.0	4,900.2	25,128.0	21,265.9	4,144.2	84.63
139.6	184.0	4,867.9	25,686.4	21,617.1	4,240.6	84.16
139.6	188.0	4,835.3	26,244.8	21,960.0	4,336.9	83.67
139.6	192.0	4,802.5	26,803.2	22,295.3	4,433.2	83.18
139.6	196.0	4,769.3	27,361.6	22,622.6	4,529.6	82.68
139.6	200.0	4,735.8	27,920.0	22,941.3	4,625.9	82.17
139.6	204.0	4,701.8	28,478.4	23,251.3	4,722.3	81.65
139.6	208.0	4,667.4	29,036.8	23,551.8	4,818.6	81.11
139.6	212.0	4,632.5	29,595.2	23,842.9	4,914.9	80.56
139.6	216.0	4,597.0	30,153.6	24,124.2	5,011.3	80.00
139.6	220.0	4,561.0	30,712.0	24,395.3	5,107.6	79.43
139.6	224.0	4,524.4	31,270.4	24,655.8	5,203.9	78.85
139.6	228.0	4,487.1	31,828.8	24,905.5	5,300.3	78.25
139.5	232.0	4,449.0	32,364.0	25,142.7	5,396.6	77.69
139.5	236.0	4,410.3	32,922.0	25,368.7	5,492.9	77.06
139.5	240.0	4,370.7	33,480.0	25,582.1	5,589.3	76.41

nl = rpm with no load

lo = current with no load

kV = specific rpm

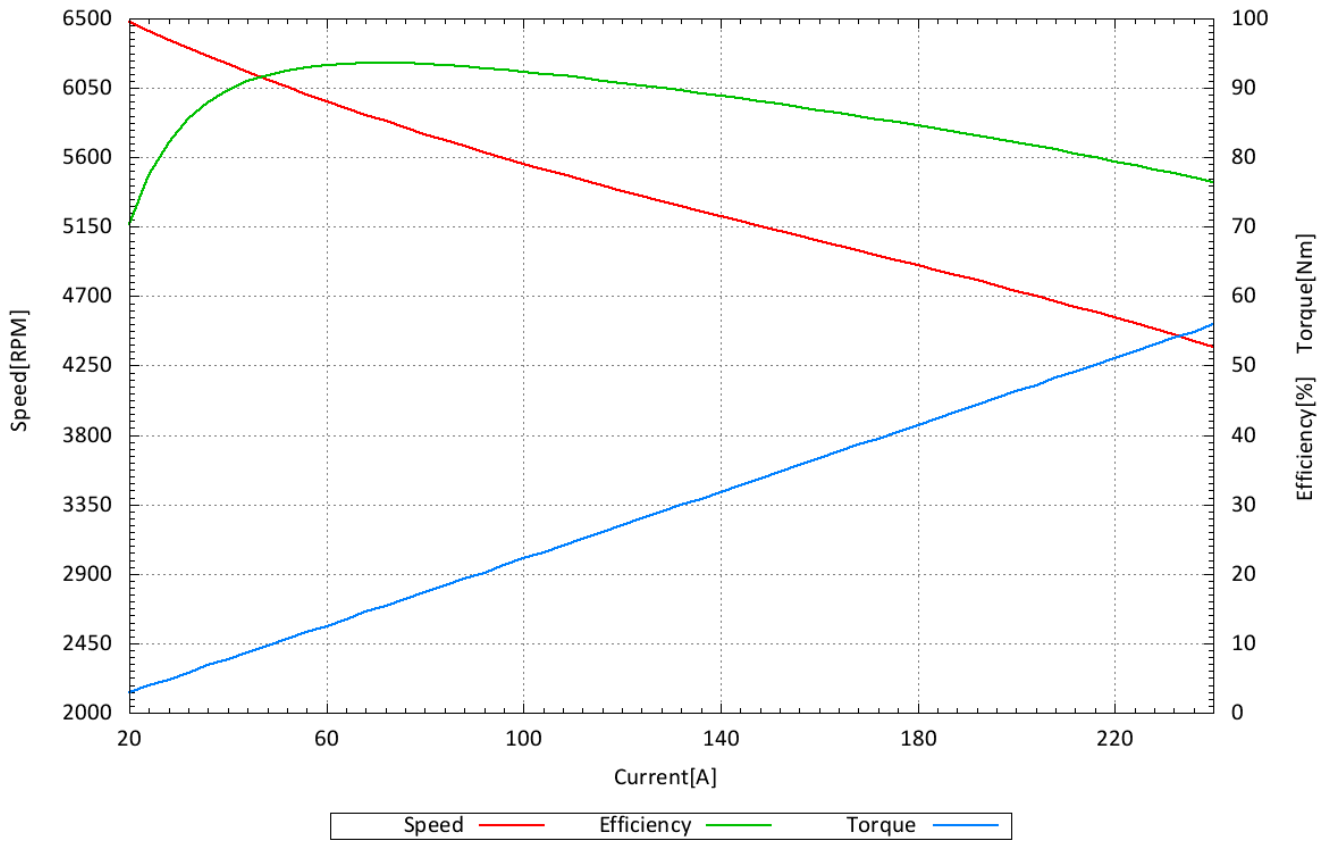
kn = rpm drop per Amp

kT = torque constant

<sup>1</sup> incl. Controller



HP875\_70\_B6\_P30\_140V\_MST140-200\_K\_09082024



## Report calculated on Test Bench Results

Motor type: **NOVA 15-70-B6 P30**

Date: 09.08.2024

Bearing type: regular

Controller: MST 140-200

### Measuring Parameter

Voltage: **150.0 [V]**

Throttle setting: 100%

### Calculated Motor Constants

nl: 6,912.0 [RPM]    lo: 8.2 [A]    kv: 46.6 [RPM/V]    kn: -10.09 [RPM/A]    kT: 24.08 [Ncm/A]

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
150.0	20.0	6,938.4	3,000.0	2,073.0	285.3	69.10
150.0	24.0	6,877.6	3,600.0	2,749.1	381.7	76.36
149.9	28.0	6,818.3	4,197.2	3,413.0	478.0	81.32
149.9	32.0	6,760.6	4,796.8	4,065.9	574.3	84.76
149.9	36.0	6,704.2	5,396.4	4,708.7	670.7	87.26
149.9	40.0	6,649.3	5,996.0	5,340.7	767.0	89.07
149.9	44.0	6,595.7	6,595.6	5,963.5	863.4	90.42
149.9	48.0	6,543.4	7,195.2	6,576.1	959.7	91.40
149.9	52.0	6,492.4	7,794.8	7,179.6	1,056.0	92.11
149.9	56.0	6,442.6	8,394.4	7,774.9	1,152.4	92.62
149.9	60.0	6,394.0	8,994.0	8,361.0	1,248.7	92.96
149.9	64.0	6,346.5	9,593.6	8,938.9	1,345.0	93.18
149.9	68.0	6,300.1	10,193.2	9,509.6	1,441.4	93.29
149.9	72.0	6,254.7	10,792.8	10,071.8	1,537.7	93.32
149.9	76.0	6,210.4	11,392.4	10,626.7	1,634.0	93.28
149.8	80.0	6,167.0	11,984.0	11,175.0	1,730.4	93.25
149.8	84.0	6,124.5	12,583.2	11,715.7	1,826.7	93.11
149.8	88.0	6,082.8	13,182.4	12,249.9	1,923.1	92.93
149.8	92.0	6,042.0	13,781.6	12,777.1	2,019.4	92.71
149.8	96.0	6,001.9	14,380.8	13,297.5	2,115.7	92.47
149.8	100.0	5,962.6	14,980.0	13,812.4	2,212.1	92.21
149.8	104.0	5,923.9	15,579.2	14,320.1	2,308.4	91.92
149.8	108.0	5,885.9	16,178.4	14,821.8	2,404.7	91.62
149.8	112.0	5,848.5	16,777.6	15,318.1	2,501.1	91.30
149.8	116.0	5,811.6	17,376.8	15,807.5	2,597.4	90.97
149.8	120.0	5,775.2	17,976.0	16,290.9	2,693.7	90.63

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
149.8	124.0	5,739.3	18,575.2	16,769.0	2,790.1	90.28
149.7	128.0	5,703.8	19,161.6	17,240.5	2,886.4	89.97
149.7	132.0	5,668.6	19,760.4	17,706.3	2,982.8	89.61
149.7	136.0	5,633.8	20,359.2	18,165.8	3,079.1	89.23
149.7	140.0	5,599.2	20,958.0	18,618.9	3,175.4	88.84
149.7	144.0	5,564.9	21,556.8	19,066.6	3,271.8	88.45
149.7	148.0	5,530.8	22,155.6	19,507.5	3,368.1	88.05
149.7	152.0	5,496.8	22,754.4	19,941.9	3,464.4	87.64
149.7	156.0	5,462.9	23,353.2	20,370.4	3,560.8	87.23
149.7	160.0	5,429.1	23,952.0	20,791.9	3,657.1	86.81
149.7	164.0	5,395.3	24,550.8	21,206.5	3,753.4	86.38
149.7	168.0	5,361.4	25,149.6	21,614.5	3,849.8	85.94
149.7	172.0	5,327.4	25,748.4	22,014.7	3,946.1	85.50
149.7	176.0	5,293.4	26,347.2	22,408.5	4,042.5	85.05
149.6	180.0	5,259.1	26,928.0	22,793.7	4,138.8	84.65
149.6	184.0	5,224.7	27,526.4	23,171.5	4,235.1	84.18
149.6	188.0	5,190.0	28,124.8	23,541.5	4,331.5	83.70
149.6	192.0	5,154.9	28,723.2	23,902.1	4,427.8	83.22
149.6	196.0	5,119.5	29,321.6	24,254.3	4,524.1	82.72
149.6	200.0	5,083.8	29,920.0	24,598.4	4,620.5	82.21
149.6	204.0	5,047.6	30,518.4	24,932.2	4,716.8	81.70
149.6	208.0	5,010.9	31,116.8	25,256.3	4,813.1	81.17
149.6	212.0	4,973.6	31,715.2	25,570.4	4,909.5	80.62
149.6	216.0	4,935.8	32,313.6	25,873.8	5,005.8	80.07
149.6	220.0	4,897.4	32,912.0	26,166.9	5,102.2	79.51
149.6	224.0	4,858.3	33,510.4	26,447.9	5,198.5	78.92
149.6	228.0	4,818.5	34,108.8	26,717.1	5,294.8	78.33
149.5	232.0	4,777.9	34,684.0	26,974.4	5,391.2	77.77
149.5	236.0	4,736.6	35,282.0	27,218.9	5,487.5	77.15
149.5	240.0	4,694.4	35,880.0	27,449.8	5,583.8	76.50

nl = rpm with no load

lo = current with no load

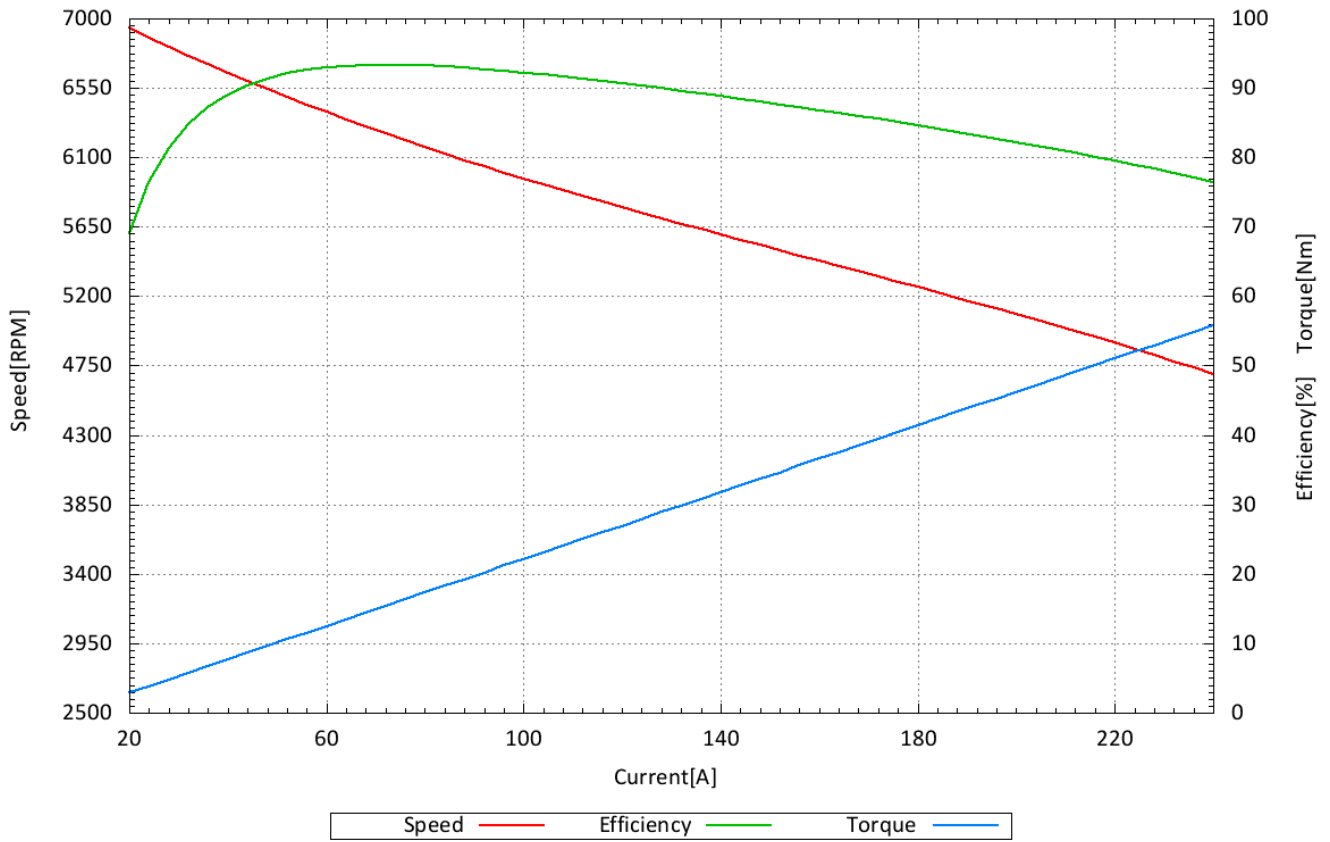
kV = specific rpm

kn = rpm drop per Amp

kT = torque constant

<sup>1</sup> incl. Controller

HP875\_70\_B6\_P30\_150V\_MST140-200\_K\_09082024



## Report calculated on Test Bench Results

Motor type: **NOVA 15-70-B6 P30**

Date: 09.08.2024

Bearing type: regular

Controller: MST 140-200

### Measuring Parameter

Voltage: **160.0 [V]**

Throttle setting: 100%

### Calculated Motor Constants

nl: 7,370.3 [RPM]    lo: 8.4 [A]    kv: 46.6 [RPM/V]    kn: -10.76 [RPM/A]    kT: 24.08 [Ncm/A]

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
160.0	20.0	7,402.3	3,200.0	2,169.7	279.9	67.80
160.0	24.0	7,337.7	3,840.0	2,890.7	376.2	75.28
159.9	28.0	7,274.8	4,477.2	3,600.3	472.6	80.41
159.9	32.0	7,213.4	5,116.8	4,297.4	568.9	83.99
159.9	36.0	7,153.5	5,756.4	4,983.1	665.2	86.57
159.9	40.0	7,095.1	6,396.0	5,658.7	761.6	88.47
159.9	44.0	7,038.2	7,035.6	6,323.1	857.9	89.87
159.9	48.0	6,982.7	7,675.2	6,977.4	954.2	90.91
159.9	52.0	6,928.5	8,314.8	7,622.6	1,050.6	91.68
159.9	56.0	6,875.6	8,954.4	8,257.8	1,146.9	92.22
159.9	60.0	6,823.9	9,594.0	8,884.6	1,243.3	92.61
159.9	64.0	6,773.4	10,233.6	9,501.9	1,339.6	92.85
159.9	68.0	6,724.1	10,873.2	10,110.8	1,435.9	92.99
159.9	72.0	6,675.9	11,512.8	10,712.3	1,532.3	93.05
159.9	76.0	6,628.8	12,152.4	11,305.2	1,628.6	93.03
159.8	80.0	6,582.7	12,784.0	11,890.4	1,724.9	93.01
159.8	84.0	6,537.5	13,423.2	12,468.7	1,821.3	92.89
159.8	88.0	6,493.3	14,062.4	13,039.2	1,917.6	92.72
159.8	92.0	6,449.9	14,701.6	13,602.5	2,013.9	92.52
159.8	96.0	6,407.3	15,340.8	14,159.5	2,110.3	92.30
159.8	100.0	6,365.5	15,980.0	14,709.1	2,206.6	92.05
159.8	104.0	6,324.4	16,619.2	15,252.5	2,303.0	91.78
159.8	108.0	6,284.0	17,258.4	15,788.8	2,399.3	91.48
159.8	112.0	6,244.3	17,897.6	16,318.8	2,495.6	91.18
159.8	116.0	6,205.1	18,536.8	16,842.7	2,592.0	90.86
159.8	120.0	6,166.4	19,176.0	17,359.5	2,688.3	90.53

Voltage [V]	Current [A]	Speed [RPM]	Input Power [W]	Output Power [W]	Torque [Ncm]	Efficiency <sup>1</sup> [%]
159.8	124.0	6,128.2	19,815.2	17,870.0	2,784.6	90.18
159.7	128.0	6,090.5	20,441.6	18,374.9	2,881.0	89.89
159.7	132.0	6,053.2	21,080.4	18,872.8	2,977.3	89.53
159.7	136.0	6,016.2	21,719.2	19,364.1	3,073.6	89.16
159.7	140.0	5,979.5	22,358.0	19,849.6	3,170.0	88.78
159.7	144.0	5,943.0	22,996.8	20,327.8	3,266.3	88.39
159.7	148.0	5,906.7	23,635.6	20,799.9	3,362.7	88.00
159.7	152.0	5,870.6	24,274.4	21,264.8	3,459.0	87.60
159.7	156.0	5,834.6	24,913.2	21,722.8	3,555.3	87.19
159.7	160.0	5,798.7	25,552.0	22,174.5	3,651.7	86.78
159.7	164.0	5,762.7	26,190.8	22,618.0	3,748.0	86.36
159.7	168.0	5,726.8	26,829.6	23,054.6	3,844.3	85.93
159.7	172.0	5,690.7	27,468.4	23,483.8	3,940.7	85.49
159.7	176.0	5,654.5	28,107.2	23,904.6	4,037.0	85.05
159.6	180.0	5,618.1	28,728.0	24,317.3	4,133.3	84.65
159.6	184.0	5,581.5	29,366.4	24,722.3	4,229.7	84.19
159.6	188.0	5,544.6	30,004.8	25,118.0	4,326.0	83.71
159.6	192.0	5,507.4	30,643.2	25,505.5	4,422.4	83.23
159.6	196.0	5,469.8	31,281.6	25,882.9	4,518.7	82.74
159.6	200.0	5,431.8	31,920.0	26,250.9	4,615.0	82.24
159.6	204.0	5,393.3	32,558.4	26,609.3	4,711.4	81.73
159.6	208.0	5,354.3	33,196.8	26,956.8	4,807.7	81.20
159.6	212.0	5,314.8	33,835.2	27,293.9	4,904.0	80.67
159.6	216.0	5,274.6	34,473.6	27,620.0	5,000.4	80.12
159.6	220.0	5,233.8	35,112.0	27,934.1	5,096.7	79.56
159.6	224.0	5,192.2	35,750.4	28,235.7	5,193.0	78.98
159.6	228.0	5,149.9	36,388.8	28,525.5	5,289.4	78.39
159.5	232.0	5,106.8	37,004.0	28,801.8	5,385.7	77.83
159.5	236.0	5,062.9	37,642.0	29,065.3	5,482.1	77.22
159.5	240.0	5,018.1	38,280.0	29,314.2	5,578.4	76.58

nl = rpm with no load

lo = current with no load

kV = specific rpm

kn = rpm drop per Amp

kT = torque constant

<sup>1</sup> incl. Controller

HP875\_70\_B6\_P30\_160V\_MST140-200\_K\_09082024

