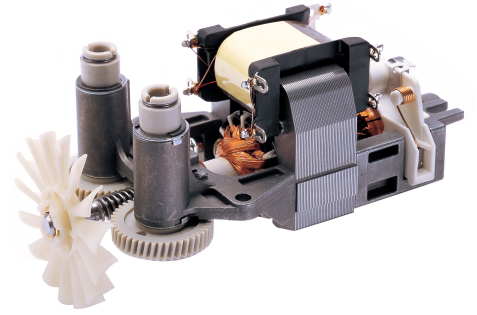


Characteristics:

Compact Size, Variable Speed

Specifications:

Shaft Diameter : Ø 7.130 mm
 Maximum Output Power : 97.00 W
 Maximum Efficiency : 47 %
 Torque at Maximum Efficiency : 42.00 mNm
 Speed at Maximum Efficiency : 17300 rpm
 Output Power at Maximum Efficiency : 77 W
 Weight : 458 g
 Electrical Connection : Terminal
 Certification : UL, RoHS



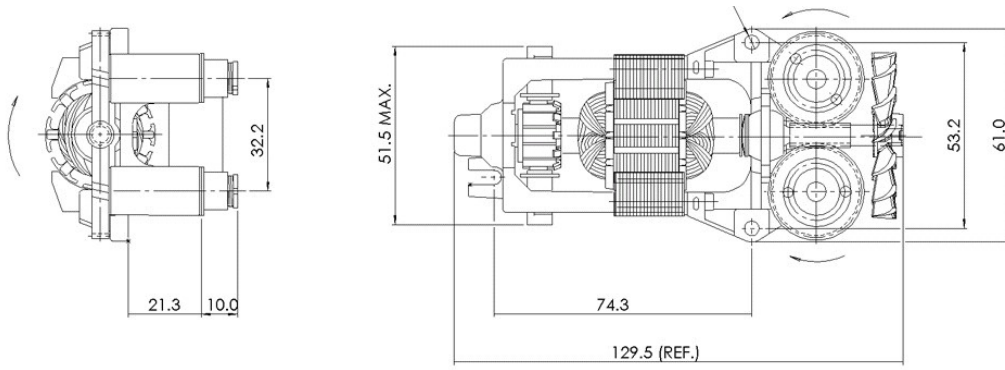
Performance Data:

	No Load	Max Efficiency	Max Power
Current (A)	0.61	1.35	2.15
Efficiency (%)	-	47	-
Output Power (W)	-	77.00	97.00
Speed (rpm)	30500	17300	11000
Torque (mNm)	-	42.00	85.00

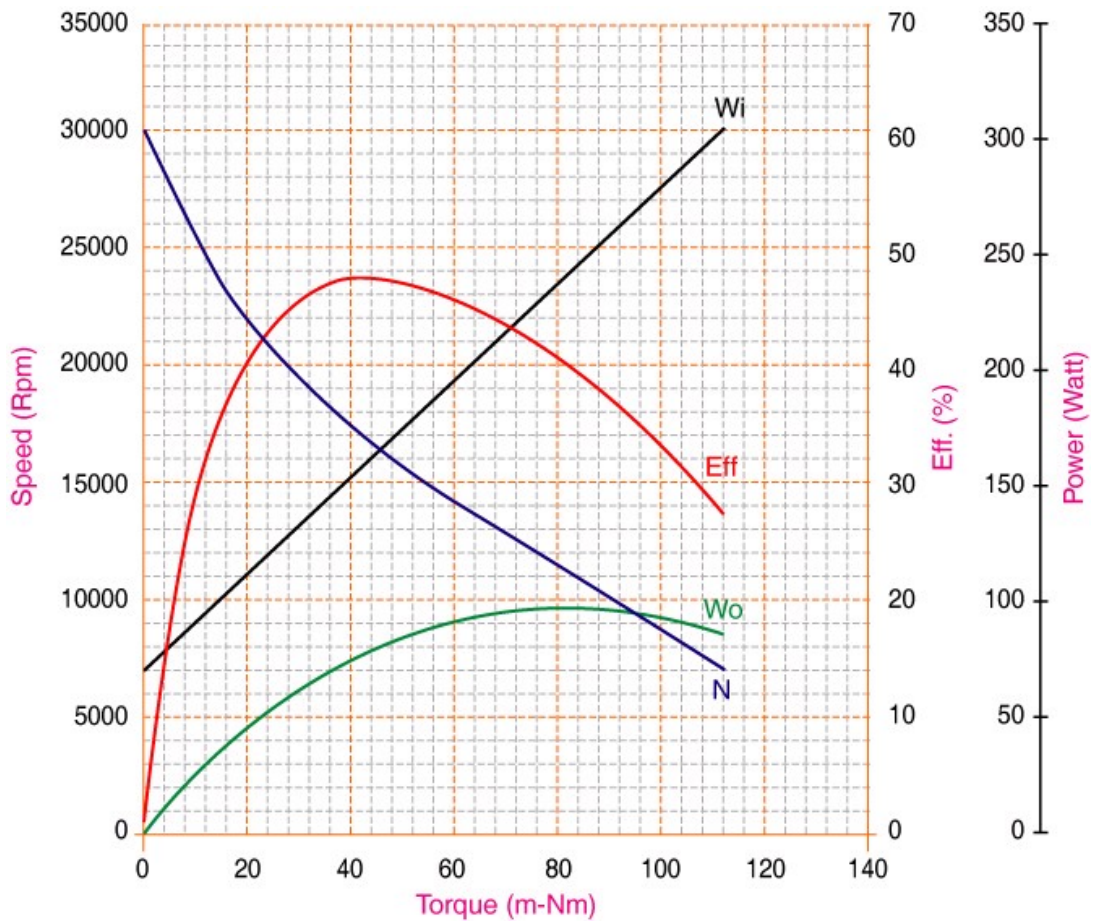
Application Examples:

Hand Blenders

Drawing:



Performance Curves:



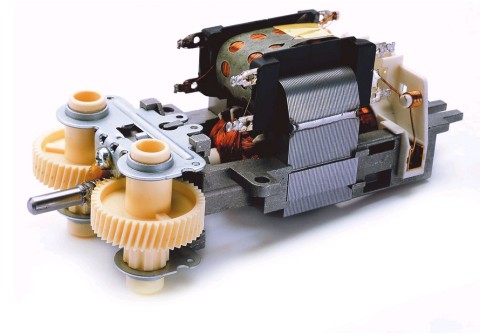
Units in Metric

Characteristics:

Compact Size, Low Noise

Specifications:

Dimensions : Ø 46.2 X 44.0 X 142.3 mm
 Shaft Diameter : Ø 7.140 mm
 Input Voltage : 230.0 V AC , 50 Hz
 Maximum Efficiency : 52 %
 Torque at Maximum Efficiency : 61.00 mNm
 Speed at Maximum Efficiency : 14200 rpm
 Output Power at Maximum Efficiency : 93 W
 Weight : 570 g
 Operation Temperature : -10 to 55 °C
 Storage Temperature : -20 to 80 °C
 Electrical Connection : Terminal
 Certification : CE, RoHS



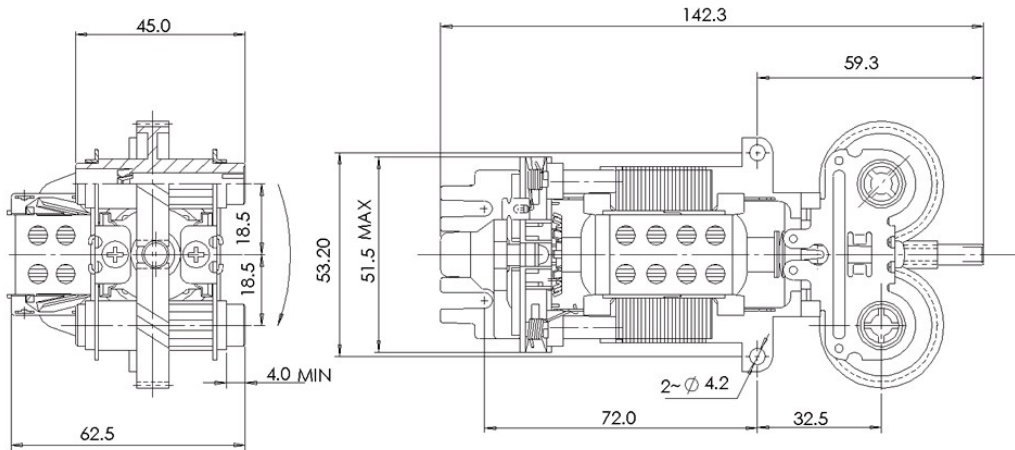
Performance Data:

	No Load	Max Efficiency
Current (A)	0.26	0.80
Efficiency (%)	-	52
Output Power (W)	-	93.00
Speed (rpm)	30500	14200
Torque (mNm)	-	61.00

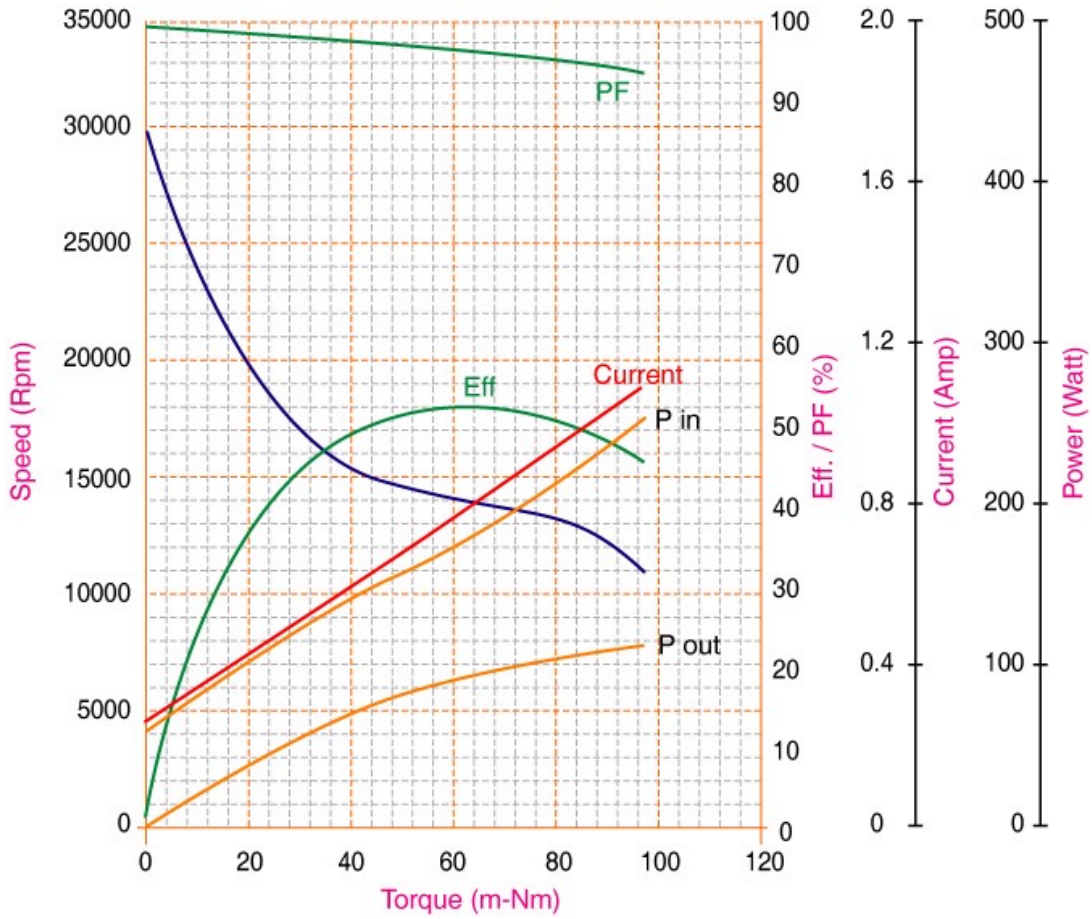
Application Examples:

Hand Blenders

Drawing:



Performance Curves:



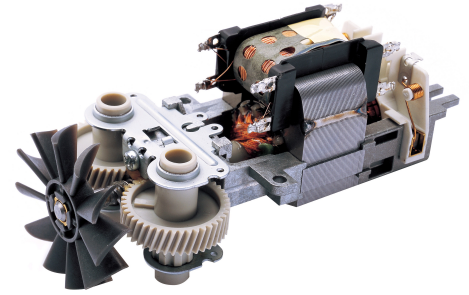
Units in Metric

Characteristics:

Compact Size, Variable Speed

Specifications:

Shaft Diameter : Ø 7.130 mm
 Maximum Output Power : 150.00 W
 Maximum Efficiency : 41 %
 Torque at Maximum Efficiency : 81.00 mNm
 Speed at Maximum Efficiency : 14000 rpm
 Output Power at Maximum Efficiency : 130 W
 Weight : 580 g
 Electrical Connection : Terminal
 Certification : UL, RoHS



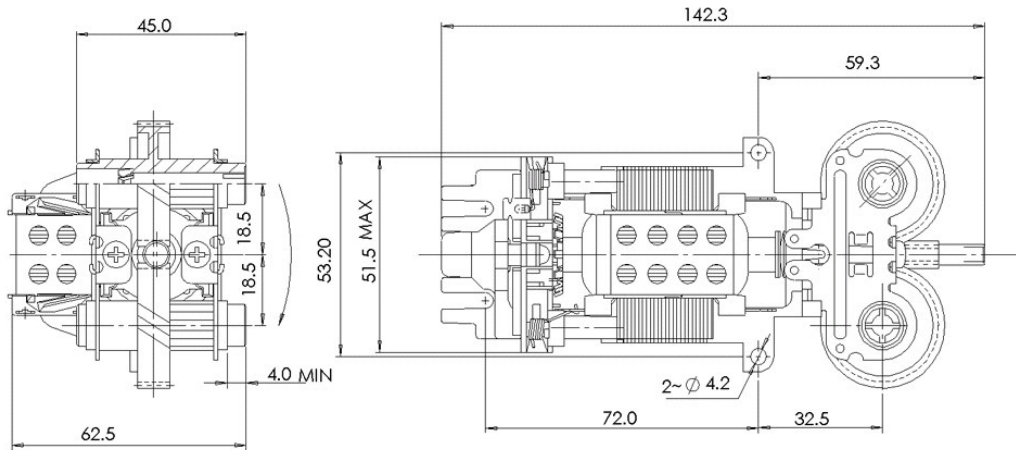
Performance Data:

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	1.10	1.80	2.71	3.60
Efficiency (%)	-	30	41	35
Output Power (W)	-	60.00	130.00	150.00
Speed (rpm)	35000	20000	14000	12300
Torque (mNm)	-	30.00	81.00	126.00

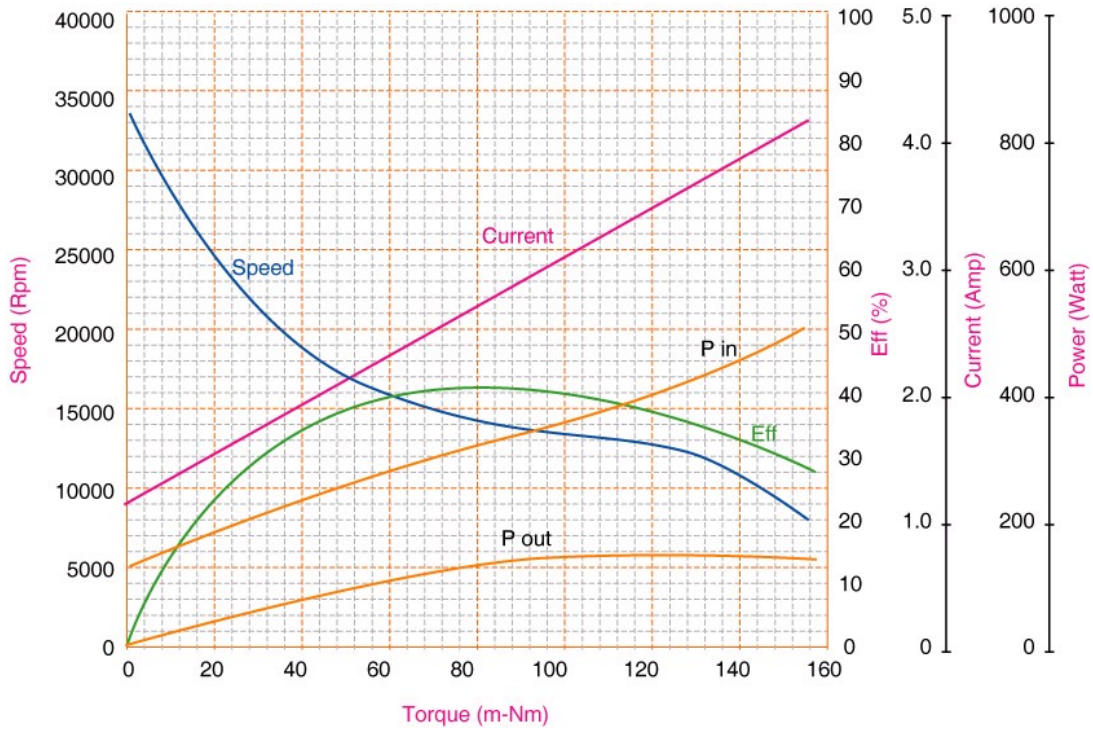
Application Examples:

Hand Blenders

Drawing:



Performance Curves:



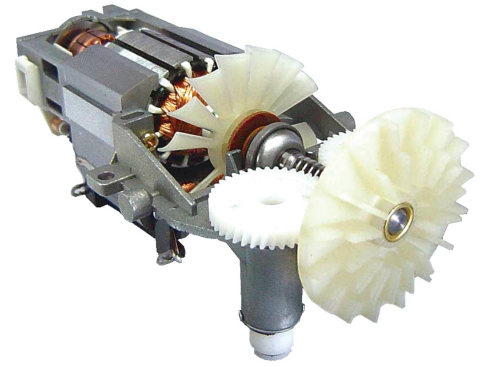
Units in Metric

Characteristics:

Compact Size, Variable Speed

Specifications:

Shaft Diameter : Ø 7.130 mm
 Maximum Output Power : 160.00 W
 Maximum Efficiency : 42 %
 Torque at Maximum Efficiency : 100.00 mNm
 Speed at Maximum Efficiency : 14000 rpm
 Output Power at Maximum Efficiency : 130 W
 Weight : 610 g
 Electrical Connection : Terminal
 Certification : UL, RoHS



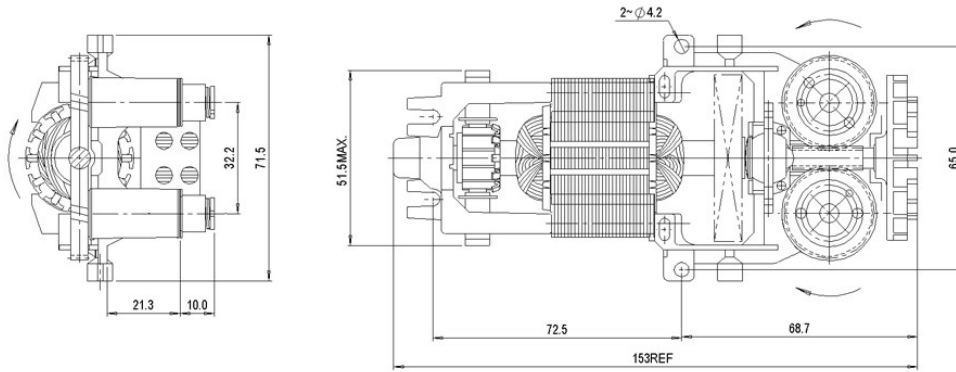
Performance Data:

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	1.30	2.00	2.80	4.00
Efficiency (%)	-	35	42	36
Output Power (W)	-	80.00	130.00	160.00
Speed (rpm)	25000	20000	14000	10000
Torque (mNm)	-	30.00	100.00	150.00

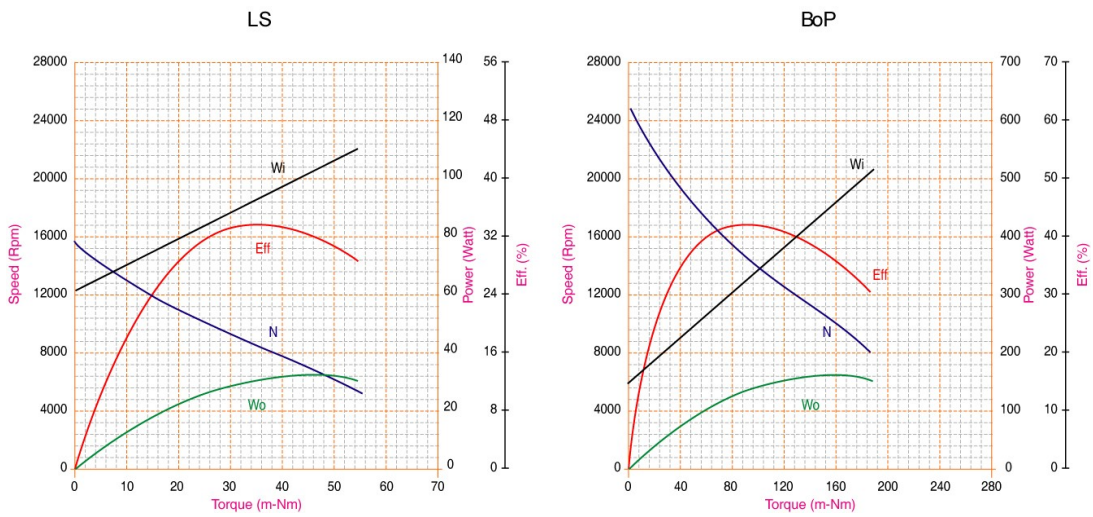
Application Examples:

Hand Blenders, Hand Mixers

Drawing:



Performance Curves:



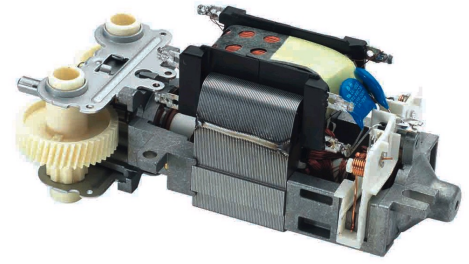
Units in Metric

Characteristics:

Compact Size, Low Noise

Specifications:

Dimensions : Ø 46.2 X 44.0 X 147.3 mm
 Shaft Diameter : Ø 7.130 mm
 Input Voltage : 230.0 V AC , 50 Hz
 Maximum Efficiency : 52 %
 Torque at Maximum Efficiency : 60.00 mNm
 Speed at Maximum Efficiency : 15000 rpm
 Output Power at Maximum Efficiency : 85 W
 Weight : 600 g
 Operation Temperature : -10 to 55 °C
 Storage Temperature : -20 to 80 °C
 Electrical Connection : Terminal
 Certification : CE, RoHS



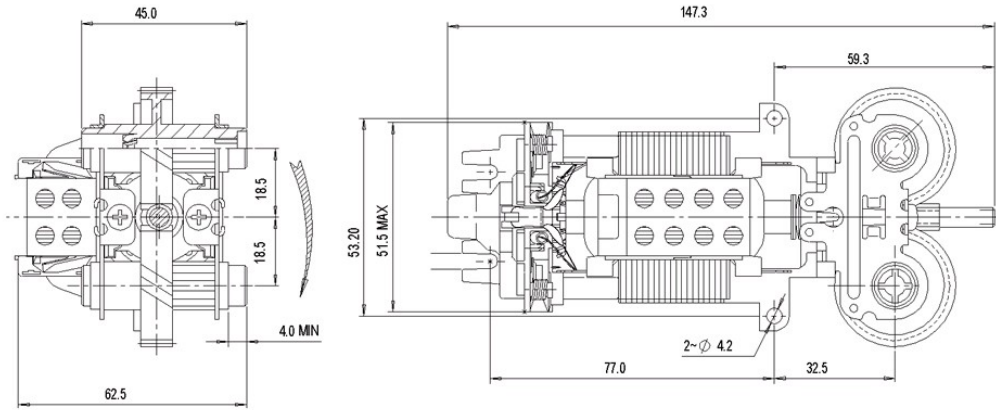
Performance Data:

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	0.33	0.70	0.70	1.40
Efficiency (%)	-	52	52	45
Output Power (W)	-	85.00	85.00	130.00
Speed (rpm)	29000	15000	15000	8500
Torque (mNm)	-	60.00	60.00	145.00

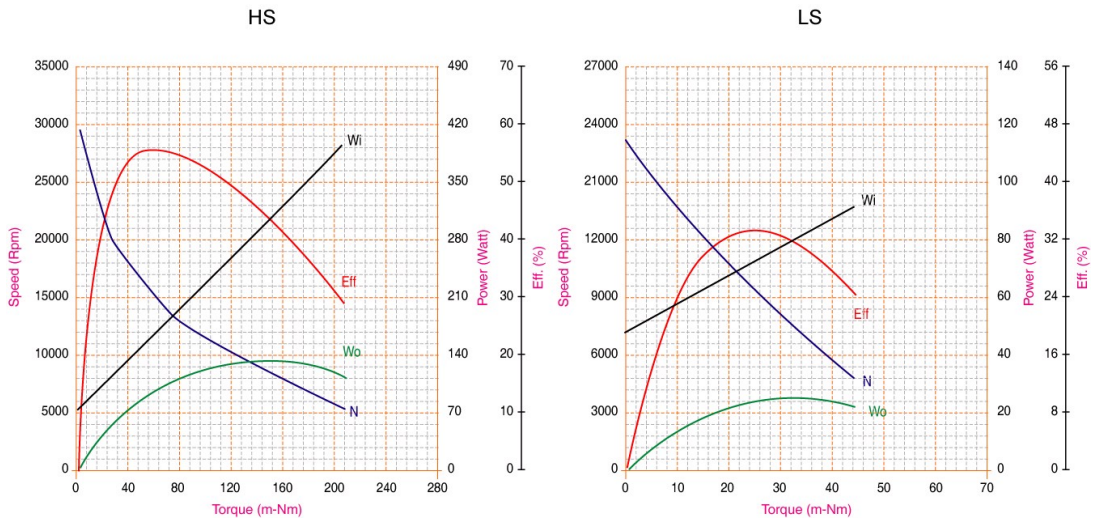
Application Examples:

Hand Blenders

Drawing:



Performance Curves:



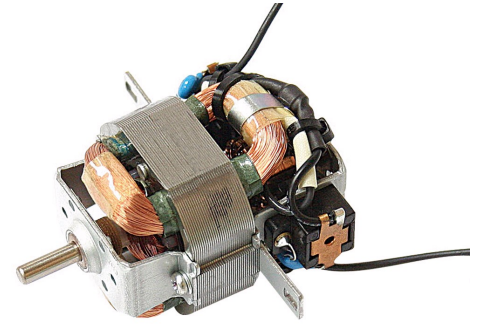
Units in Metric

Characteristics:

Light Weight

Specifications:

Dimensions	: Ø 46.0 X 61.7 mm
Shaft Diameter	: Ø 4.500 mm
Input Voltage	: 230.0 V AC , 50 Hz
Maximum Efficiency	: 42 %
Torque at Maximum Efficiency	: 29.95 mNm
Speed at Maximum Efficiency	: 16930 rpm
Weight	: 220 g
Operation Temperature	: -10 to 50 °C
Storage Temperature	: -20 to 100 °C
Electrical Connection	: Leadwire
Certification	: ROHS

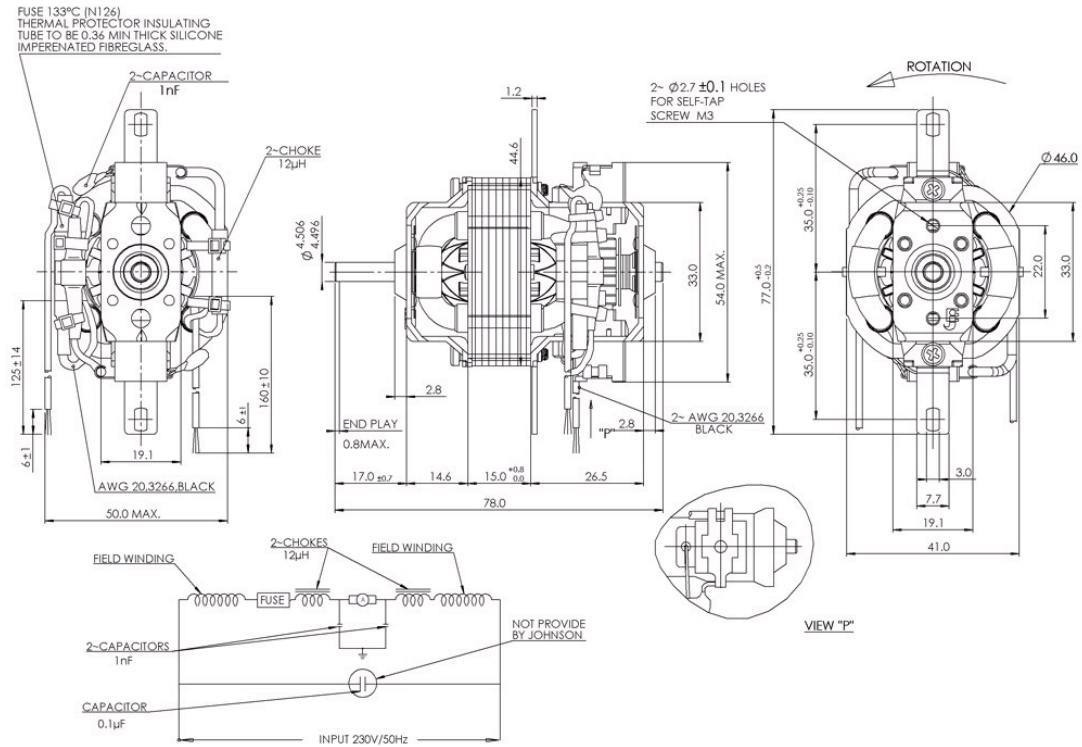
**Performance Data:**

	No Load	Typical Loading	Max Efficiency
Current (A)	0.27	0.56	0.56
Efficiency (%)	-	-	42
Output Power (W)	-	53.00	53.59
Speed (rpm)	33000	17000	16930
Torque (mNm)	-	30.00	29.95

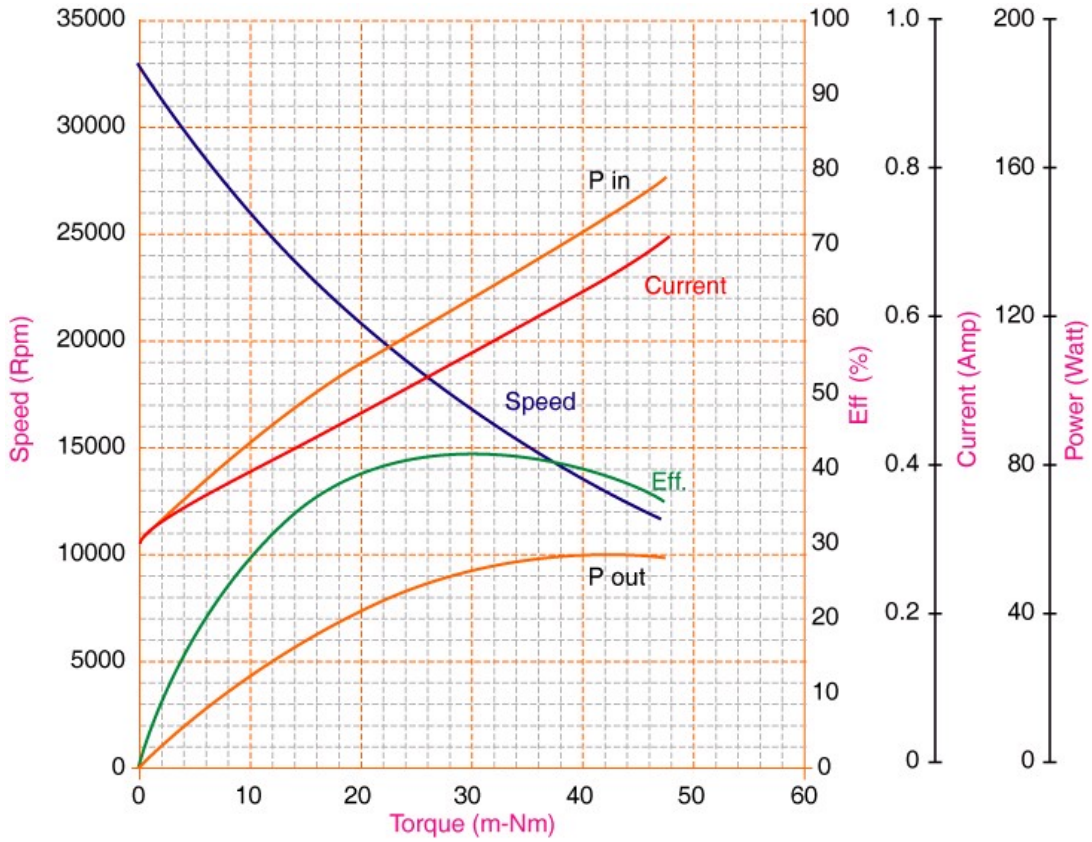
Application Examples:

Hair Dryers

Drawing:



Performance Curves:



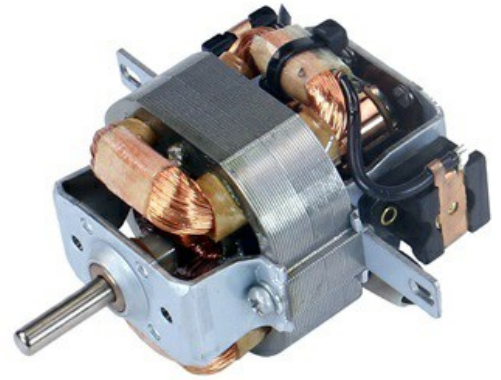
Units in Metric

Characteristics:

High torque Universal AC motor

Specifications:

Diameter	: 46.00 mm
Length	: 78.00 mm
Input Voltage	: 120.0 V AC
Weight	: 210 g
Frequency	: 60 Hz
Operating Temperature Range	: -10 to 55 °C
Storage Temperature Range	: -20 to 80 °C
Electrical Connection	: Leadwires



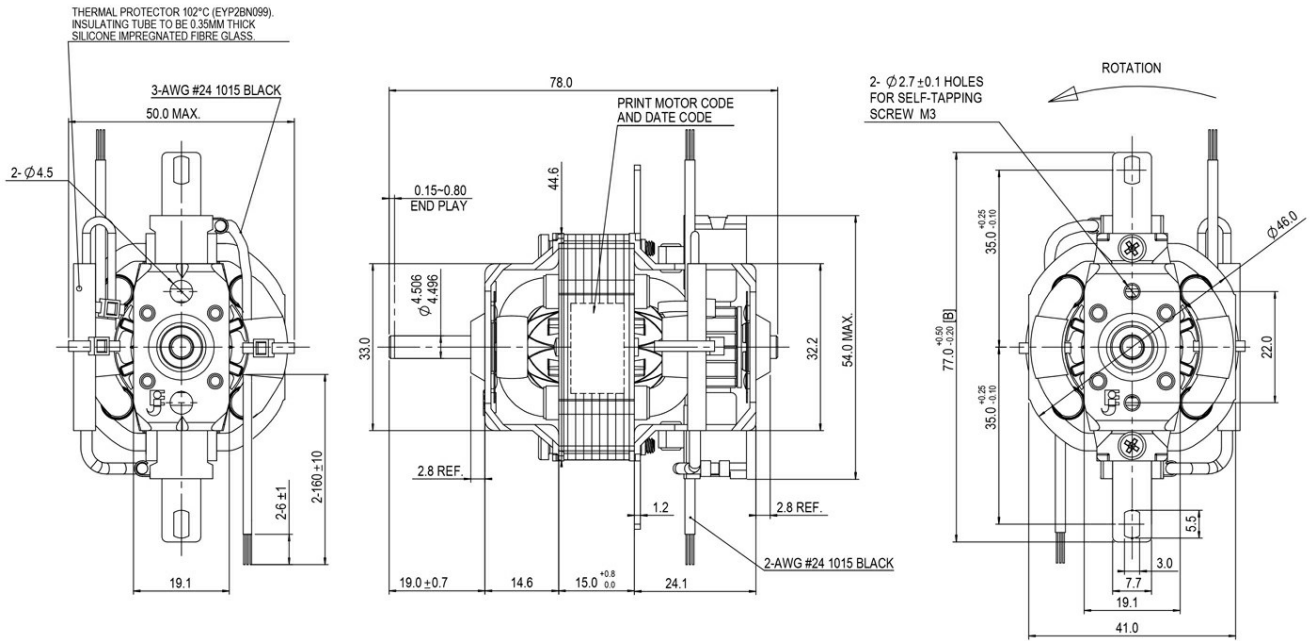
Performance Data:

	No Load	Typical Loading	Maximum Efficiency	Maximum Power
Current (A)	0.47	-	1.19	1.39
Efficiency (%)	-	-	45	41
Output Power (W)	-	-	61.88	66.50
Speed (rpm)	39500	-	17200	14000
Torque (mNm)	-	-	34.07	46.10

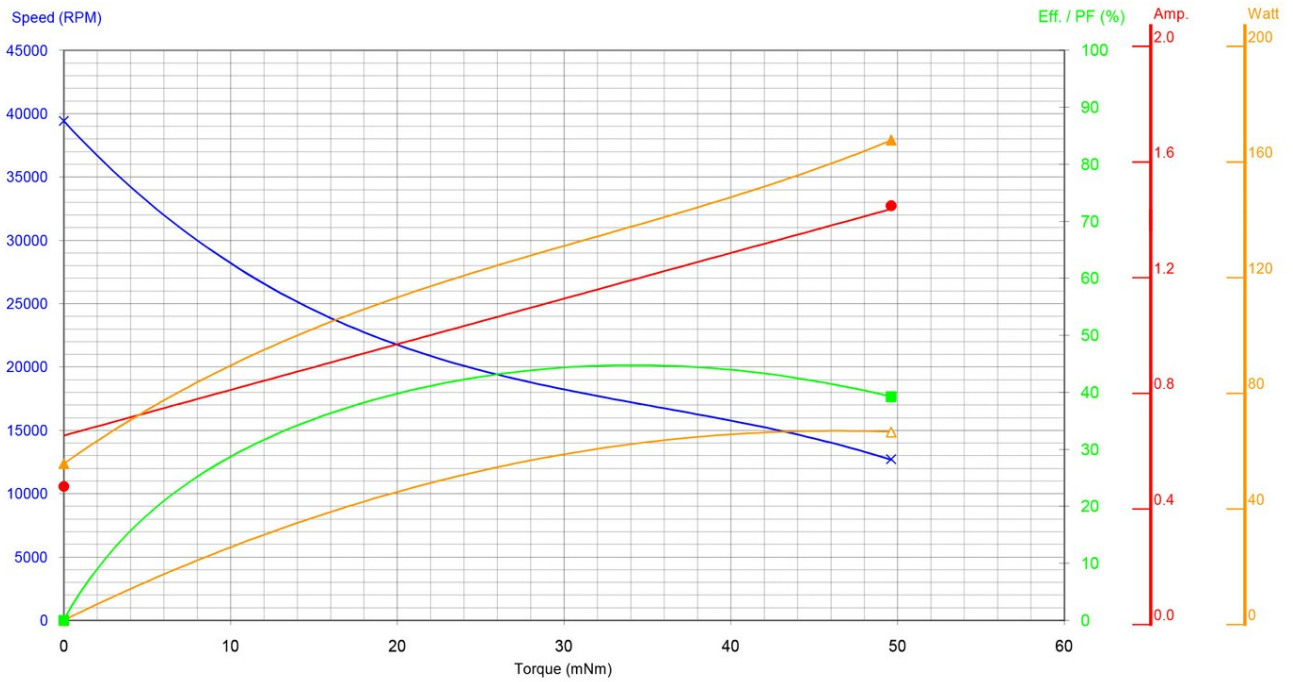
Application Examples:

Hair Dryers

Outline Drawing:



Performance Curves:



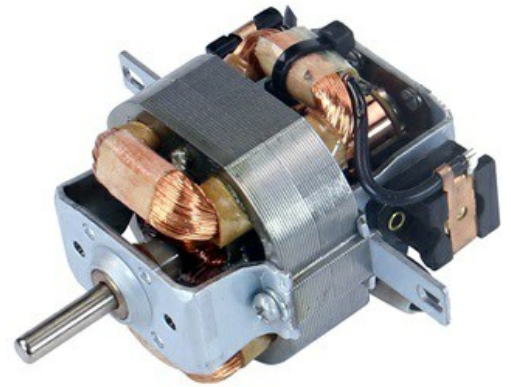
Units in Metric

Characteristics:

High Torque Universal AC motor

Specifications:

Diameter	: 46.00 mm
Length	: 78.00 mm
Input Voltage	: 230.0 V AC
Weight	: 210 g
Frequency	: 50 Hz
Operating Temperature Range	: -10 to 55 °C
Storage Temperature Range	: -20 to 80 °C
Electrical Connection	: Leadwires



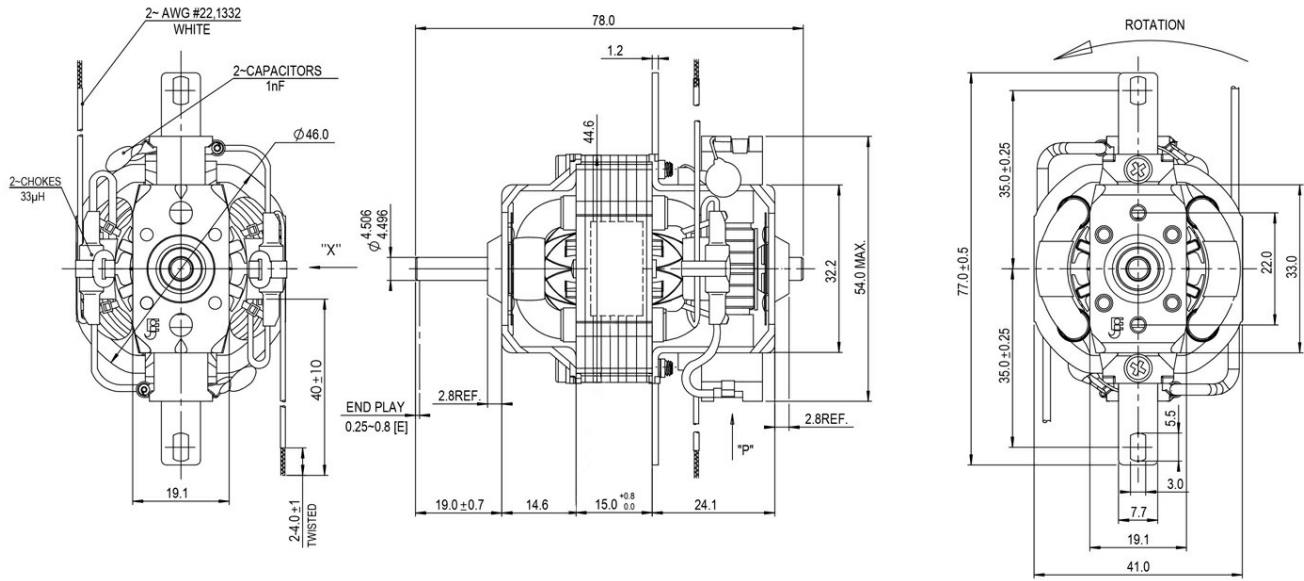
Performance Data:

	No Load	Typical Loading	Maximum Efficiency	Maximum Power
Current (A)	0.25	-	0.56	0.64
Efficiency (%)	-	-	35	34
Output Power (W)	-	-	45.00	48.00
Speed (rpm)	29600	-	14200	11500
Torque (mNm)	-	-	29.70	39.50

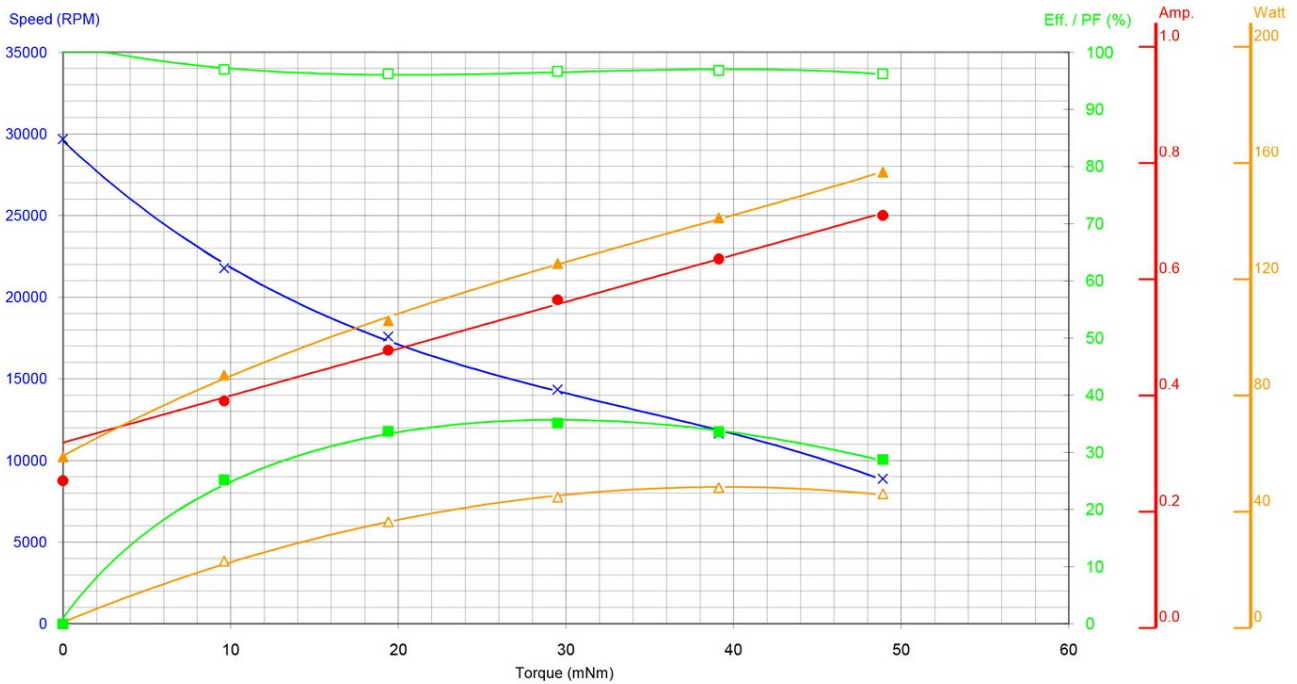
Application Examples:

Hair Dryers

Outline Drawing:



Performance Curves:



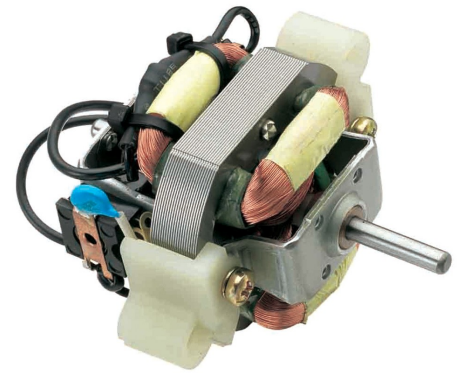
Units in Metric

Characteristics:

Light Weight

Specifications:

Dimensions : Ø 54.0 X 53.5 mm
 Shaft Diameter : Ø 4.500 mm
 Input Voltage : 120.0 V AC , 60 Hz
 Maximum Efficiency : 36 %
 Torque at Maximum Efficiency : 25.00 mNm
 Speed at Maximum Efficiency : 14250 rpm
 Weight : 235 g
 Electrical Connection : Leadwire
 Certification : UL, E60303



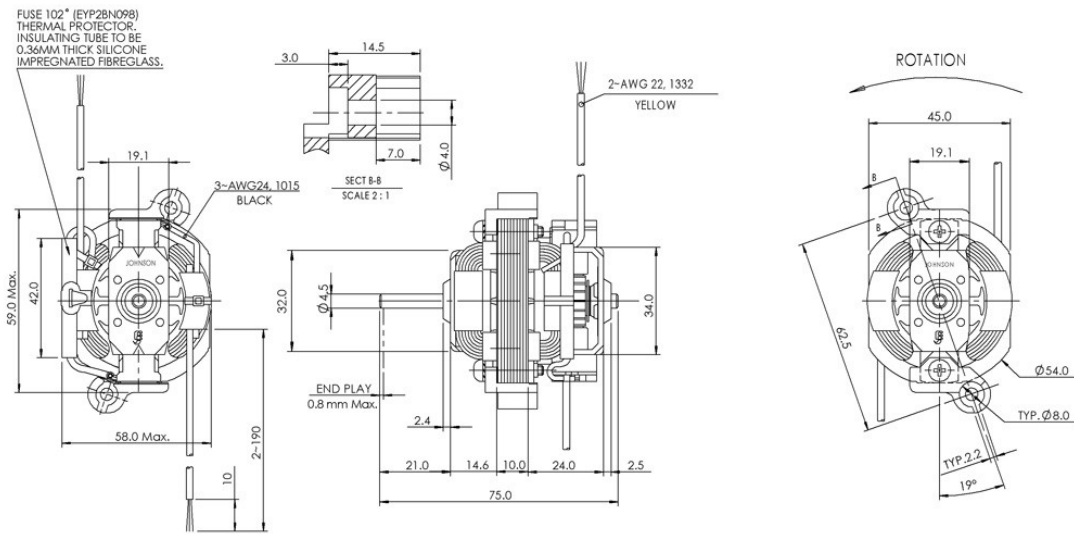
Performance Data:

	No Load	Typical Loading	Max Efficiency
Current (A)	0.40	0.80	0.90
Efficiency (%)	-	-	36
Output Power (W)	-	36.00	38.00
Speed (rpm)	31000	15000	14250
Torque (mNm)	-	25.00	25.00

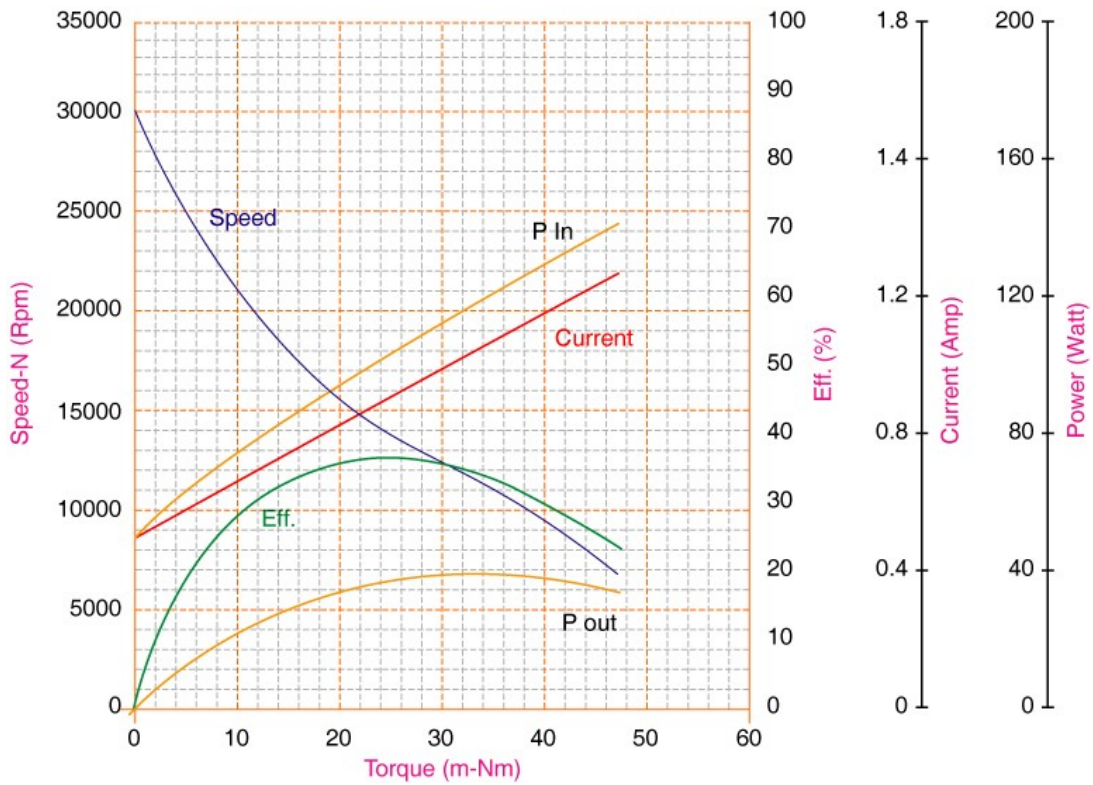
Application Examples:

Hair Dryers

Drawing:



Performance Curves:



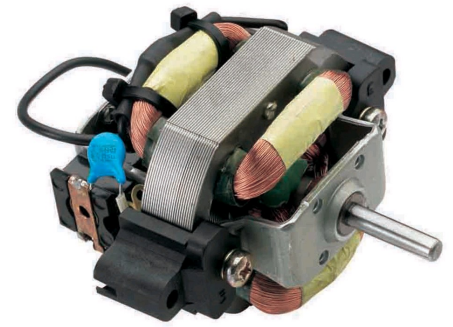
Units in Metric

Characteristics:

Light Weight

Specifications:

Dimensions : Ø 54.0 X 53.5 mm
 Shaft Diameter : Ø 4.500 mm
 Input Voltage : 230.0 V AC , 50 Hz
 Maximum Efficiency : 49 %
 Torque at Maximum Efficiency : 28.52 mNm
 Speed at Maximum Efficiency : 16353 rpm
 Weight : 235 g
 Electrical Connection : Leadwire
 Certification : ROHS



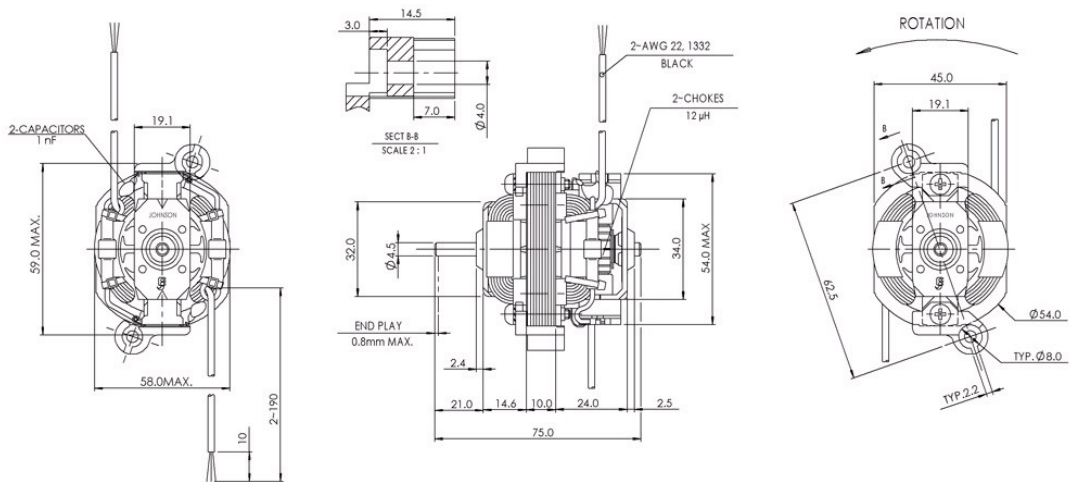
Performance Data:

	No Load	Typical Loading	Max Efficiency
Current (A)	0.20	0.83	0.83
Efficiency (%)	-	38	49
Output Power (W)	-	36.00	48.31
Speed (rpm)	36400	13500	13500
Torque (mNm)	-	25.00	28.52

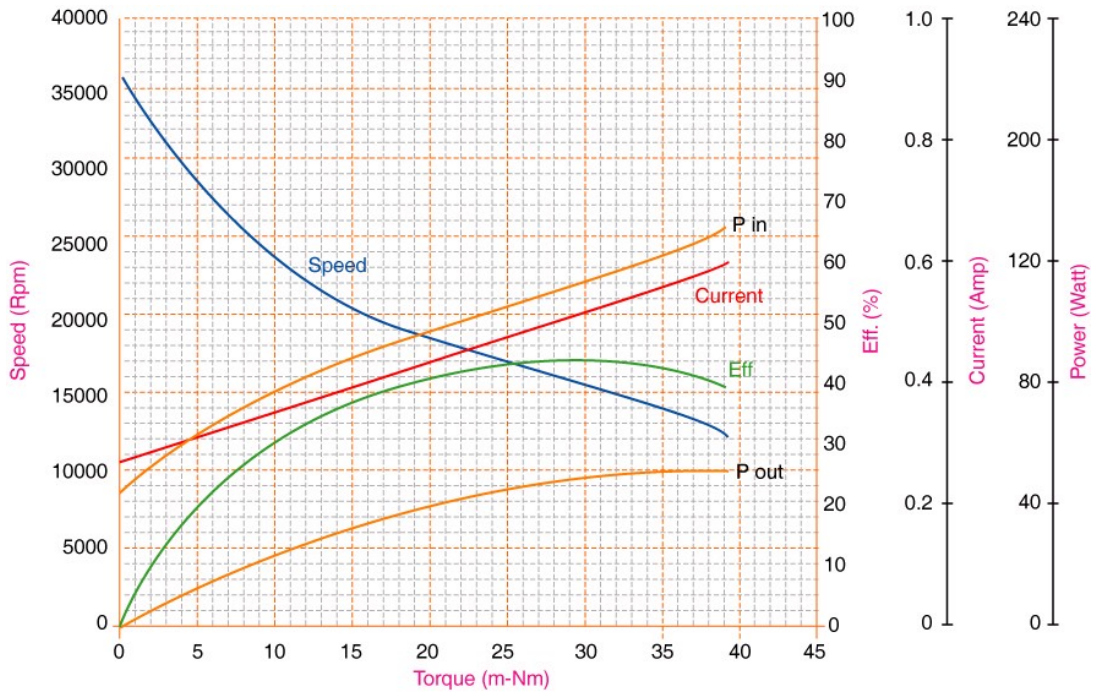
Application Examples:

Hair Dryers

Drawing:



Performance Curves:



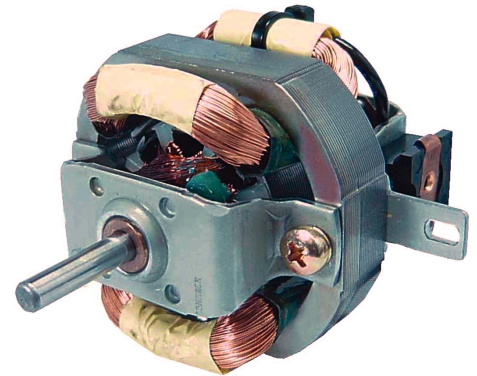
Units in Metric

Characteristics:

Light Weight

Specifications:

Dimensions	: Ø 54.0 X 55.5 mm
Shaft Diameter	: Ø 4.500 mm
Input Voltage	: 120.0 V AC , 60 Hz
Maximum Efficiency	: 44 %
Torque at Maximum Efficiency	: 33.00 mNm
Speed at Maximum Efficiency	: 15400 rpm
Weight	: 230 g
Electrical Connection	: Leadwire
Certification	: UL, E60303

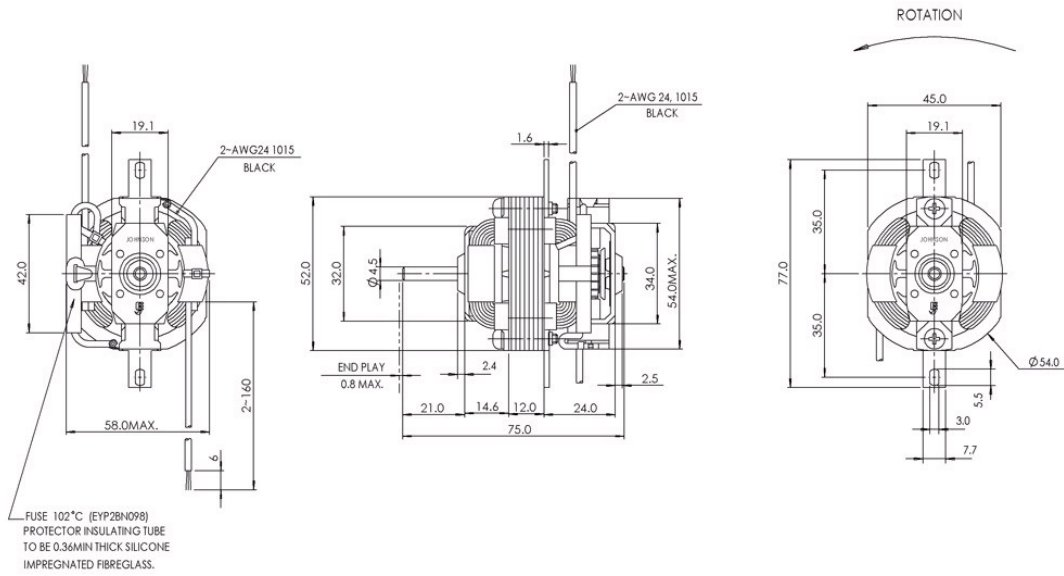
**Performance Data:**

	No Load	Typical Loading	Max Efficiency
Current (A)	0.43	1.01	1.01
Efficiency (%)	-	-	44
Output Power (W)	-	51.10	-
Speed (rpm)	33100	16200	15400
Torque (mNm)	-	30.00	30.00

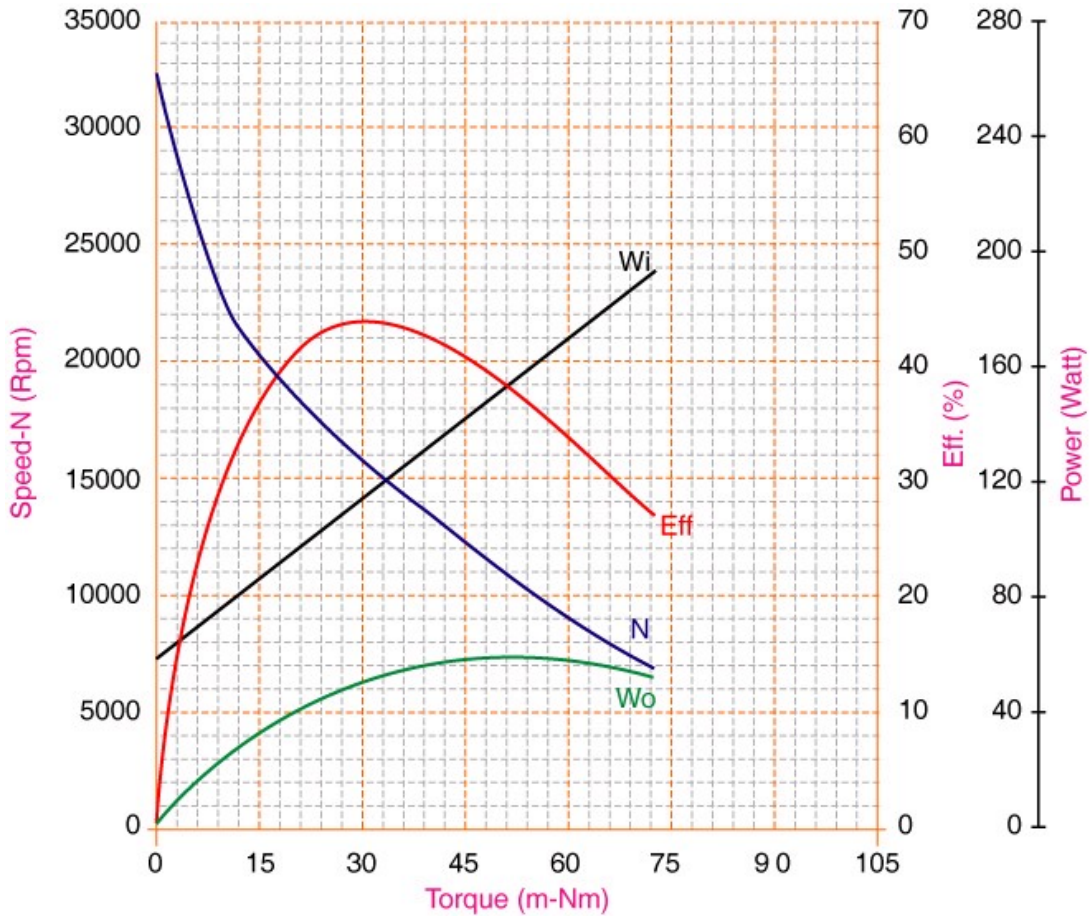
Application Examples:

Hair Dryer

Drawing:



Performance Curves:



Units in Metric

Characteristics:

High Power Density Universal motor

Specifications:

Dimensions : Ø 54.0 X 54.8 mm
 Shaft Diameter : Ø 4.500 mm
 Input Voltage : 120.0 V AC , 60 Hz
 Maximum Output Power : 80.00 W
 Maximum Efficiency : 47 %
 Torque at Maximum Efficiency : 40.00 mNm
 Speed at Maximum Efficiency : 17800 rpm
 Output Power at Maximum Efficiency : 74 W
 Life (typical) : 1000 hr
 Life Test Condition : Subject to Fan Load and Customer's Product Design
 Weight : 235 g
 Operation Temperature : -10 to 55 °C
 Storage Temperature : -20 to 80 °C
 Electrical Connection : Lead Wires



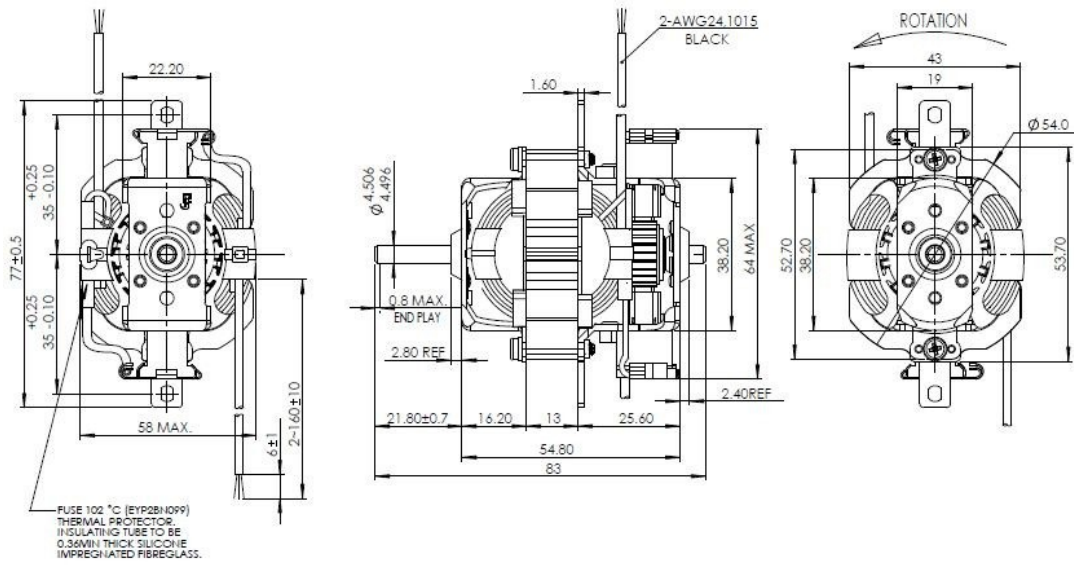
Performance Data:

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	0.52	1.27	1.34	1.69
Efficiency (%)	-	46	47	41
Output Power (W)	-	68.00	74.00	80.00
Speed (rpm)	35800	18700	17800	13500
Torque (mNm)	-	35.00	40.00	56.00

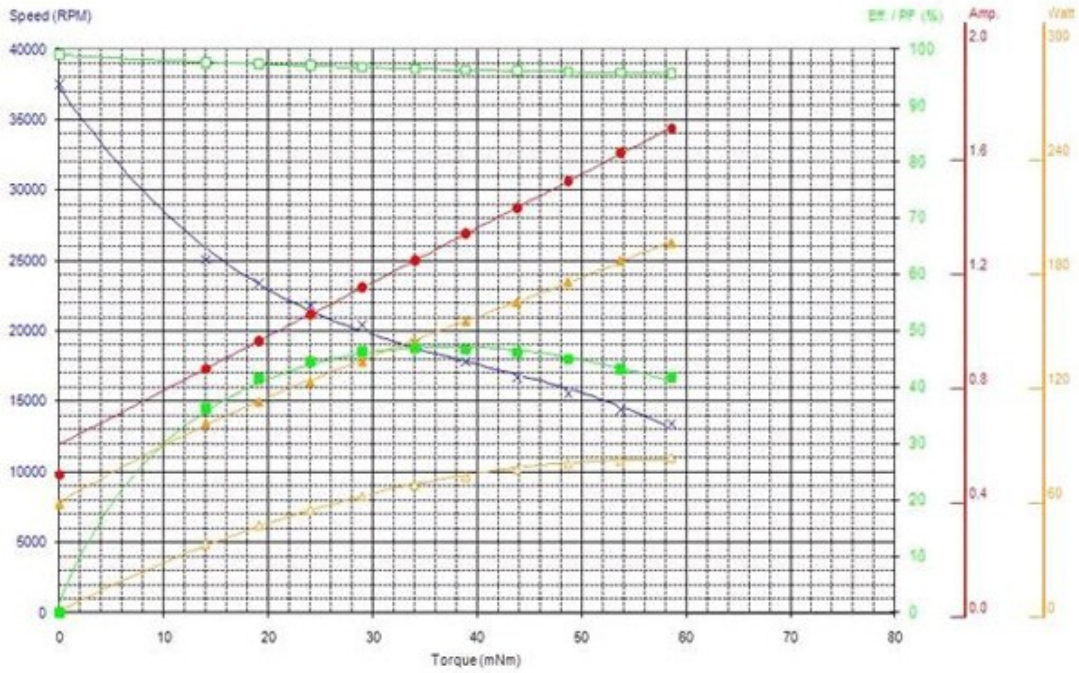
Application Examples:

Hair Dryers

Drawing:



Performance Curves:



Units in Metric

Characteristics:

High Power Density Universal motor

Specifications:

Dimensions : Ø 54.0 X 54.8 mm
 Shaft Diameter : Ø 4.500 mm
 Input Voltage : 230.0 V AC , 50 Hz
 Maximum Output Power : 76.00 W
 Maximum Efficiency : 47 %
 Torque at Maximum Efficiency : 37.00 mNm
 Speed at Maximum Efficiency : 17600 rpm
 Output Power at Maximum Efficiency : 68 W
 Life (typical) : 1000 hr
 Life Test Condition : Subject to Fan Load and Customer's Product Design
 Weight : 235 g
 Operation Temperature : -10 to 55 °C
 Storage Temperature : -20 to 80 °C
 Electrical Connection : Lead Wires



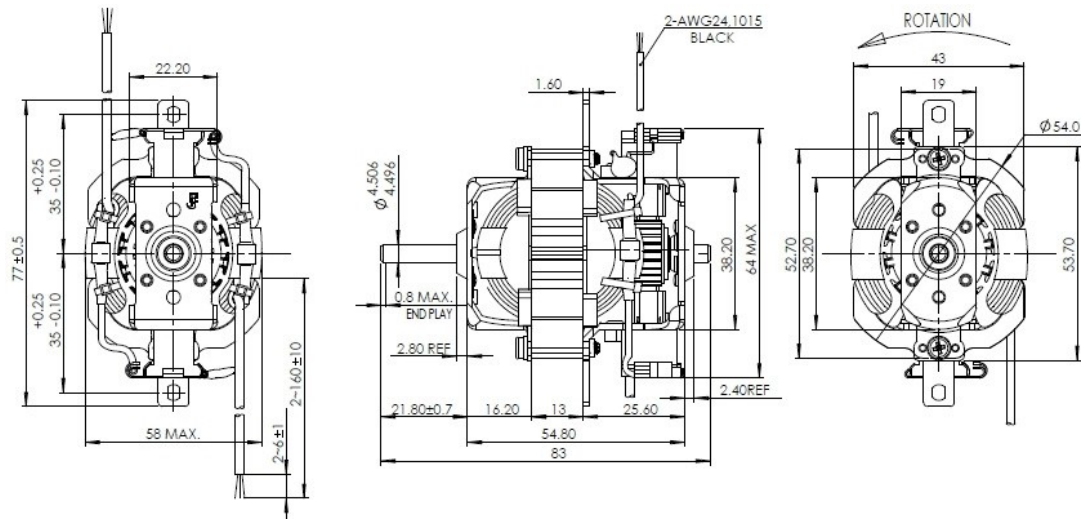
Performance Data:

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	0.27	0.64	0.65	0.81
Efficiency (%)	-	46	47	42
Output Power (W)	-	67.00	68.00	76.00
Speed (rpm)	39000	18200	17600	14000
Torque (mNm)	-	35.00	37.00	52.00

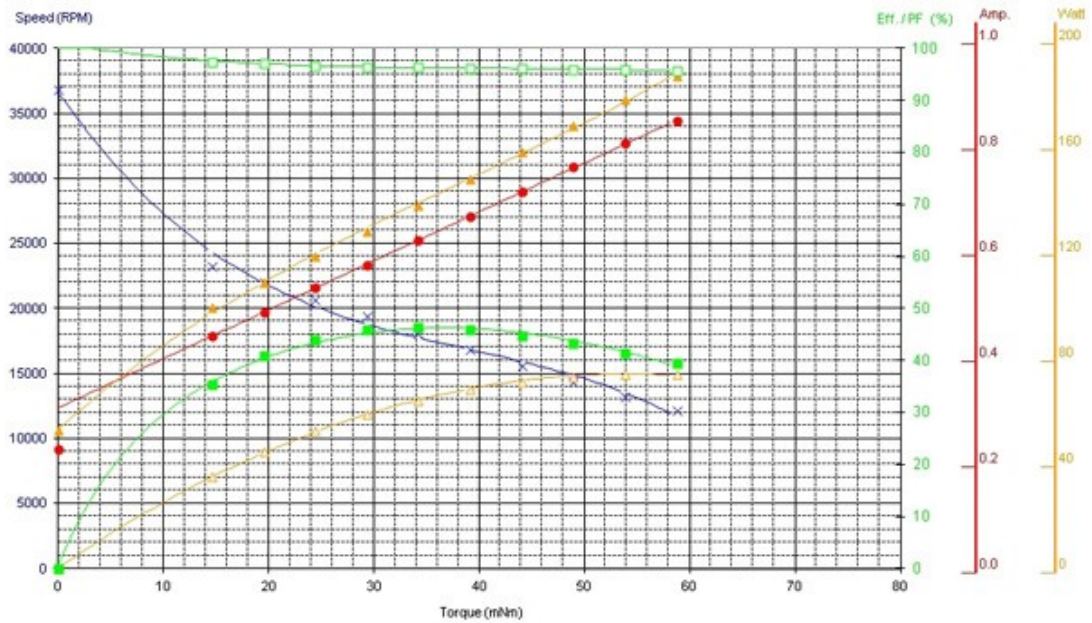
Application Examples:

Hair Dryers

Drawing:



Performance Curves:



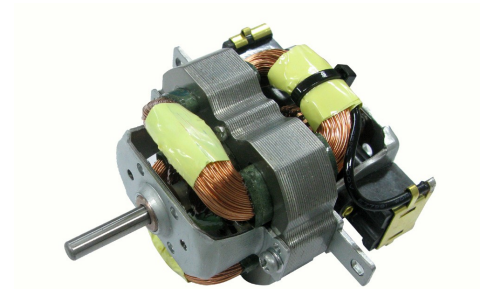
Units in Metric

Characteristics:

High Power Density Universal motor

Specifications:

Dimensions : Ø 54.0 X 54.8 mm
 Shaft Diameter : Ø 4.500 mm
 Input Voltage : 120.0 V AC , 60 Hz
 Maximum Output Power : 100.00 W
 Maximum Efficiency : 52 %
 Torque at Maximum Efficiency : 45.00 mNm
 Speed at Maximum Efficiency : 18900 rpm
 Output Power at Maximum Efficiency : 89 W
 Life (typical) : 1200 hr
 Life Test Condition : Subject to Fan Load and Customer's Product Design
 Weight : 275 g
 Operation Temperature : -10 to 55 °C
 Storage Temperature : -20 to 80 °C
 Electrical Connection : Lead Wires



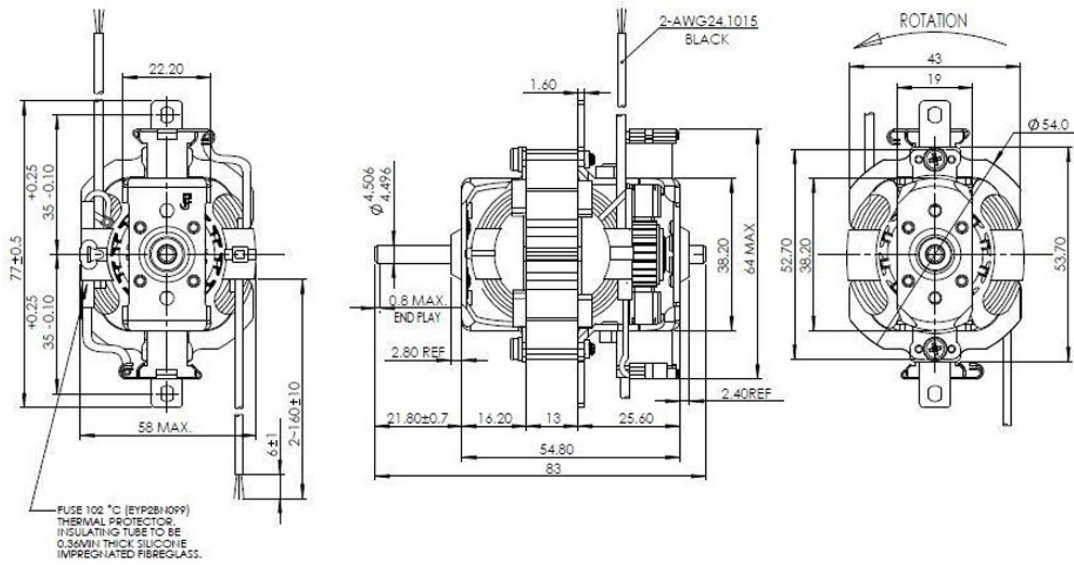
Performance Data:

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	0.51	1.39	1.50	1.77
Efficiency (%)	-	51	52	49
Output Power (W)	-	82.00	89.00	100.00
Speed (rpm)	38400	19600	18900	14580
Torque (mNm)	-	40.00	45.00	66.00

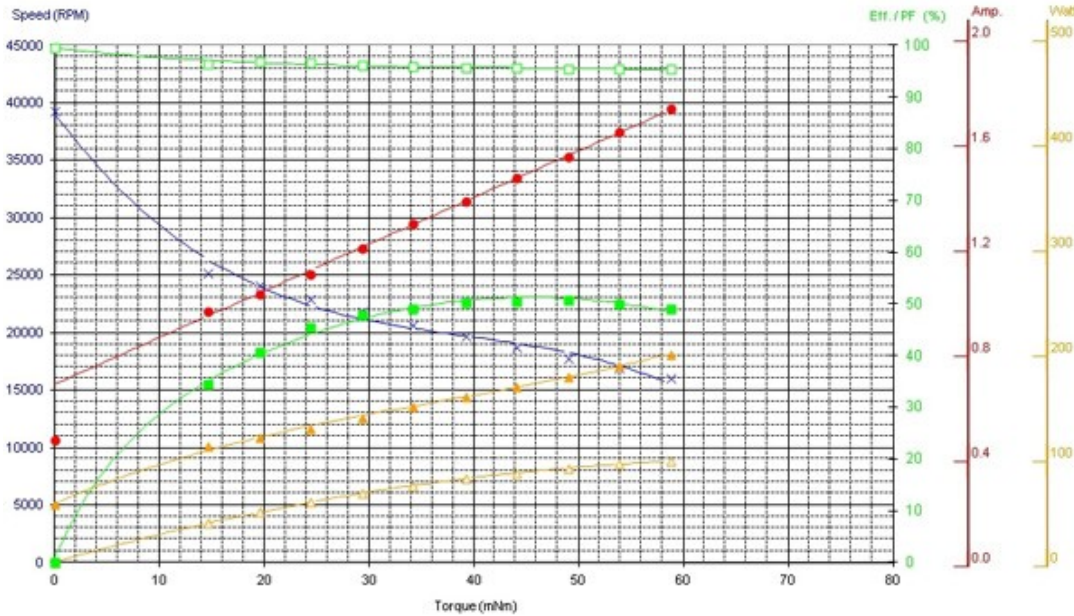
Application Examples:

Hair Dryers

Drawing:



Performance Curves:



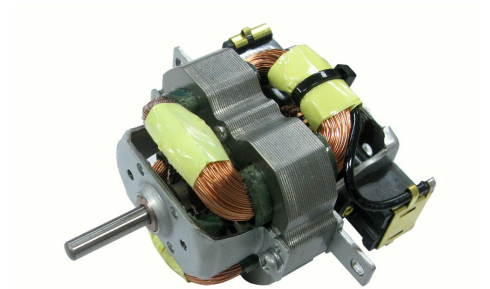
Units in Metric

Characteristics:

High Power Density Universal motor

Specifications:

Dimensions : Ø 54.0 X 54.8 mm
 Shaft Diameter : Ø 4.500 mm
 Input Voltage : 230.0 V AC , 50 Hz
 Maximum Output Power : 102.00 W
 Maximum Efficiency : 53 %
 Torque at Maximum Efficiency : 45.00 mNm
 Speed at Maximum Efficiency : 19000 rpm
 Output Power at Maximum Efficiency : 89 W
 Life (typical) : 1200 hr
 Life Test Condition : Subject to Fan Load and Customer's Product Design
 Weight : 275 g
 Operation Temperature : -10 to 55 °C
 Storage Temperature : -20 to 80 °C
 Electrical Connection : Lead Wires



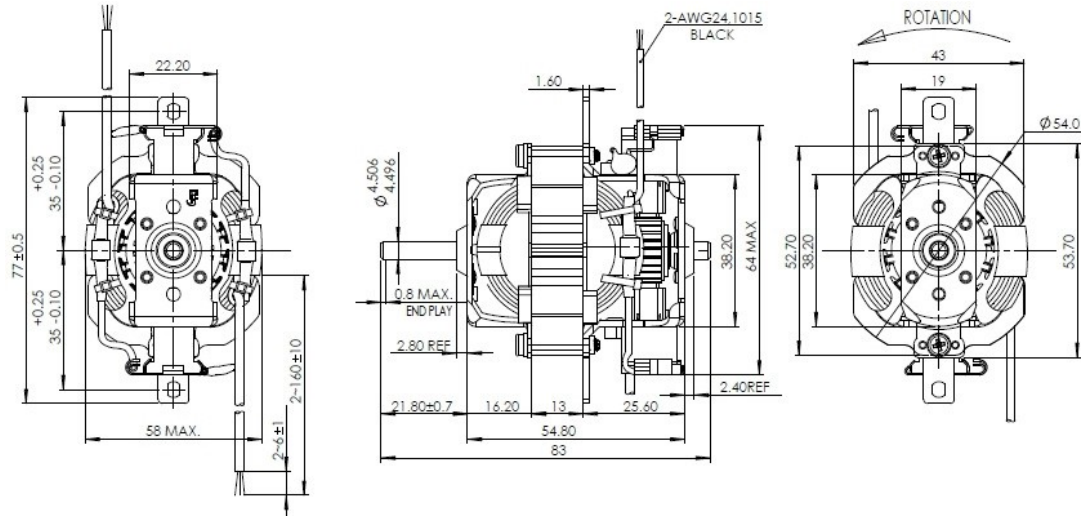
Performance Data:

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	0.27	0.70	0.75	0.93
Efficiency (%)	-	52	53	50
Output Power (W)	-	81.00	89.00	102.00
Speed (rpm)	40000	19500	19000	14850
Torque (mNm)	-	40.00	45.00	66.00

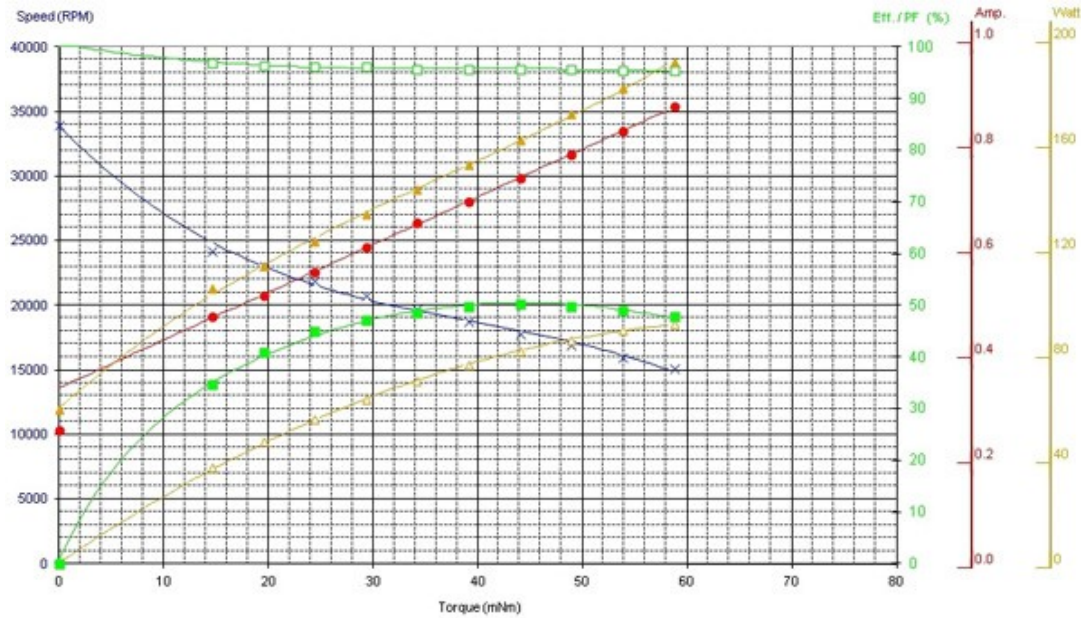
Application Examples:

Hair Dryers

Drawing:



Performance Curves:



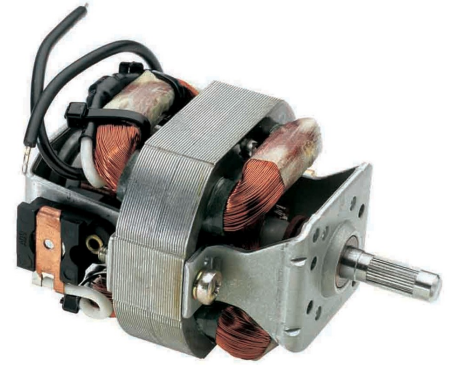
Units in Metric

Characteristics:

High Power

Specifications:

Dimensions	: Ø 54.0 X 84.9 mm
Shaft Diameter	: Ø 6.350 mm
Input Voltage	: 230.0 V AC , 50 Hz
Maximum Efficiency	: 32 %
Torque at Maximum Efficiency	: 30.00 mNm
Speed at Maximum Efficiency	: 13800 rpm
Weight	: 300 g
Operation Temperature	: 10 to -55 °C
Storage Temperature	: -20 to 100 °C
Electrical Connection	: Terminal
Certification	: CE

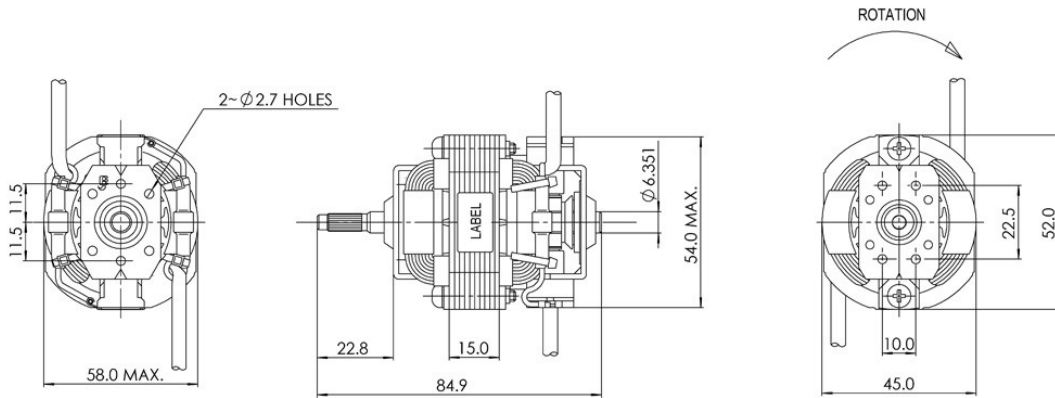
**Performance Data:**

	No Load	Typical Loading	Max Efficiency
Current (A)	0.34	0.66	0.74
Efficiency (%)	-	32	32
Output Power (W)	-	47.00	52.00
Speed (rpm)	28000	15000	13800
Torque (mNm)	-	30.00	30.00

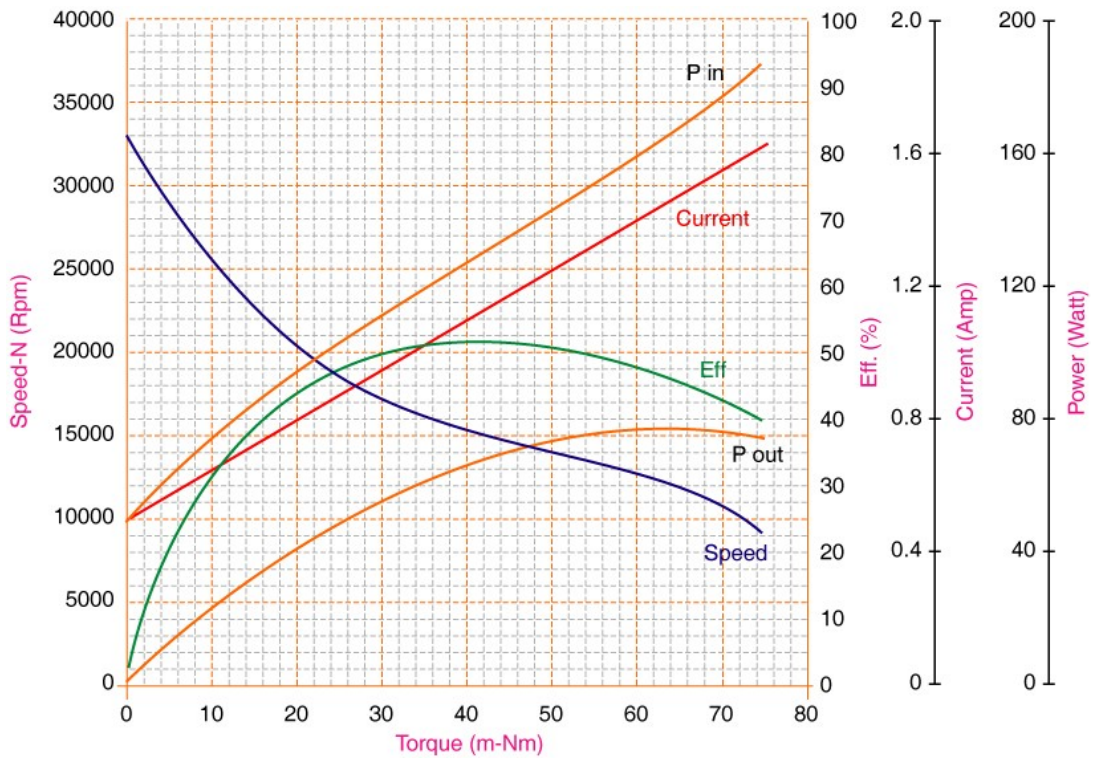
Application Examples:

Blenders, Table Blenders, Kitchen Blenders, Hand Mixer

Drawing:



Performance Curves:



Units in Metric

Characteristics:

High torque Universal AC motor

Specifications:

Dimensions	: Ø 54.0 mm
Length	: 80.00 mm
Shaft Diameter	: Ø 4.500 mm
Weight	: 300 g
Input Voltage	: 110.0 V AC
Frequency	: 60 Hz
Operating Temperature Range	: -10 to 55 °C
Storage Temperature Range	: -20 to 80 °C
Electrical Connection	: Leadwires



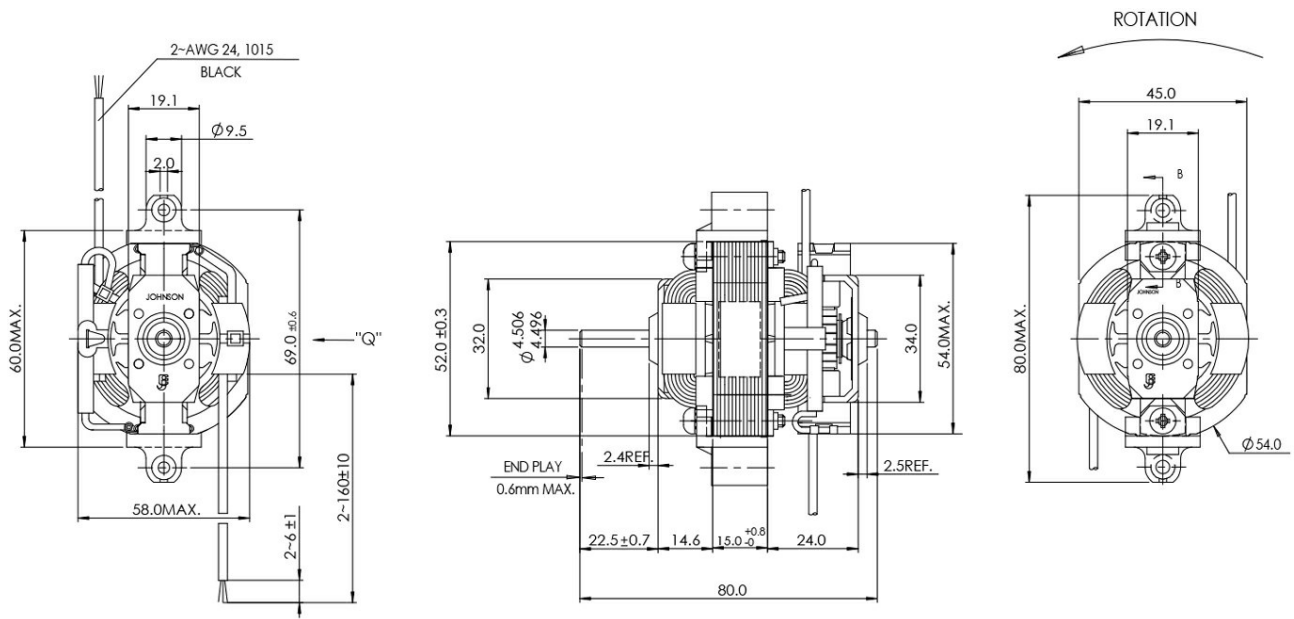
Performance Data:

	No Load	Typical Loading	Maximum Efficiency	Maximum Power
Current (A)	0.53	-	1.36	1.73
Efficiency (%)	-	-	48	43
Output Power (W)	-	-	68.00	76.00
Speed (rpm)	32000	-	14500	11800
Torque (mNm)	-	-	42.80	64.00

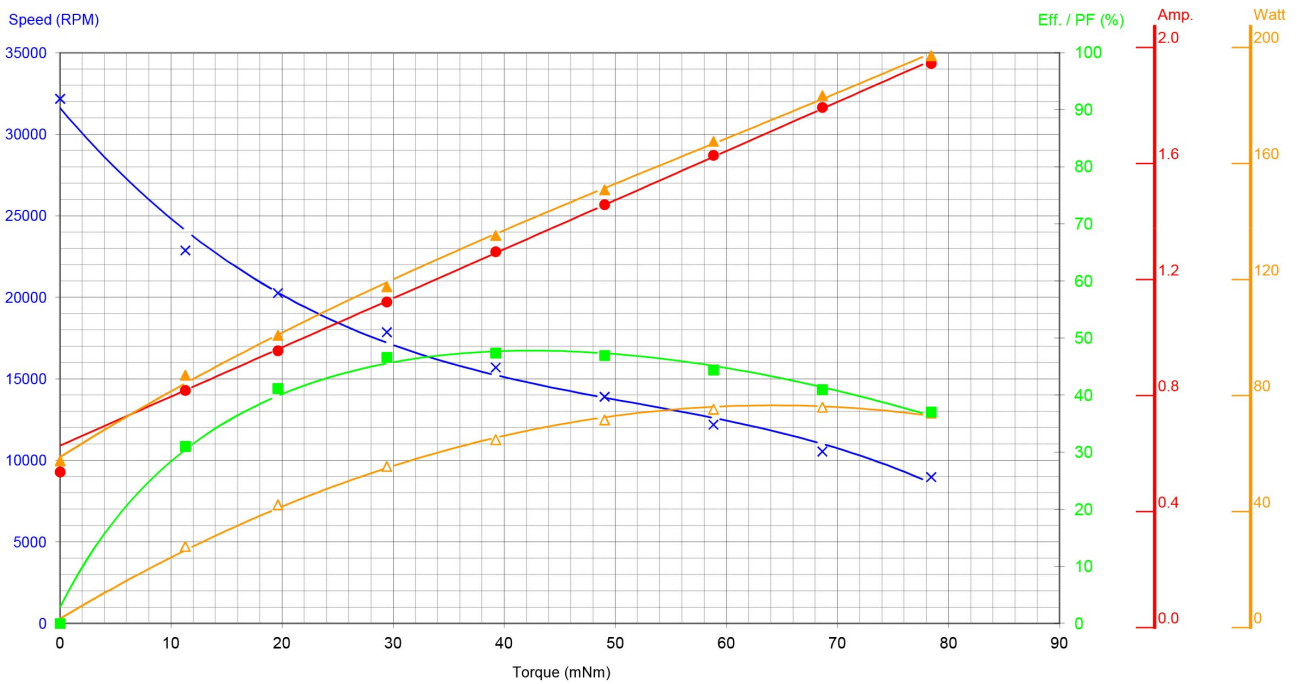
Application Examples:

Hair Dryers

Outline Drawing:



Performance Curves:



Units in Metric

Characteristics:

High torque Universal AC motor

Specifications:

Dimensions	: Ø 54.0 mm
Length	: 80.00 mm
Shaft Diameter	: Ø 4.500 mm
Weight	: 300 g
Input Voltage	: 230.0 V AC
Frequency	: 50 Hz
Operating Temperature Range	: -10 to 55 °C
Storage Temperature Range	: -20 to 80 °C
Electrical Connection	: Leadwires



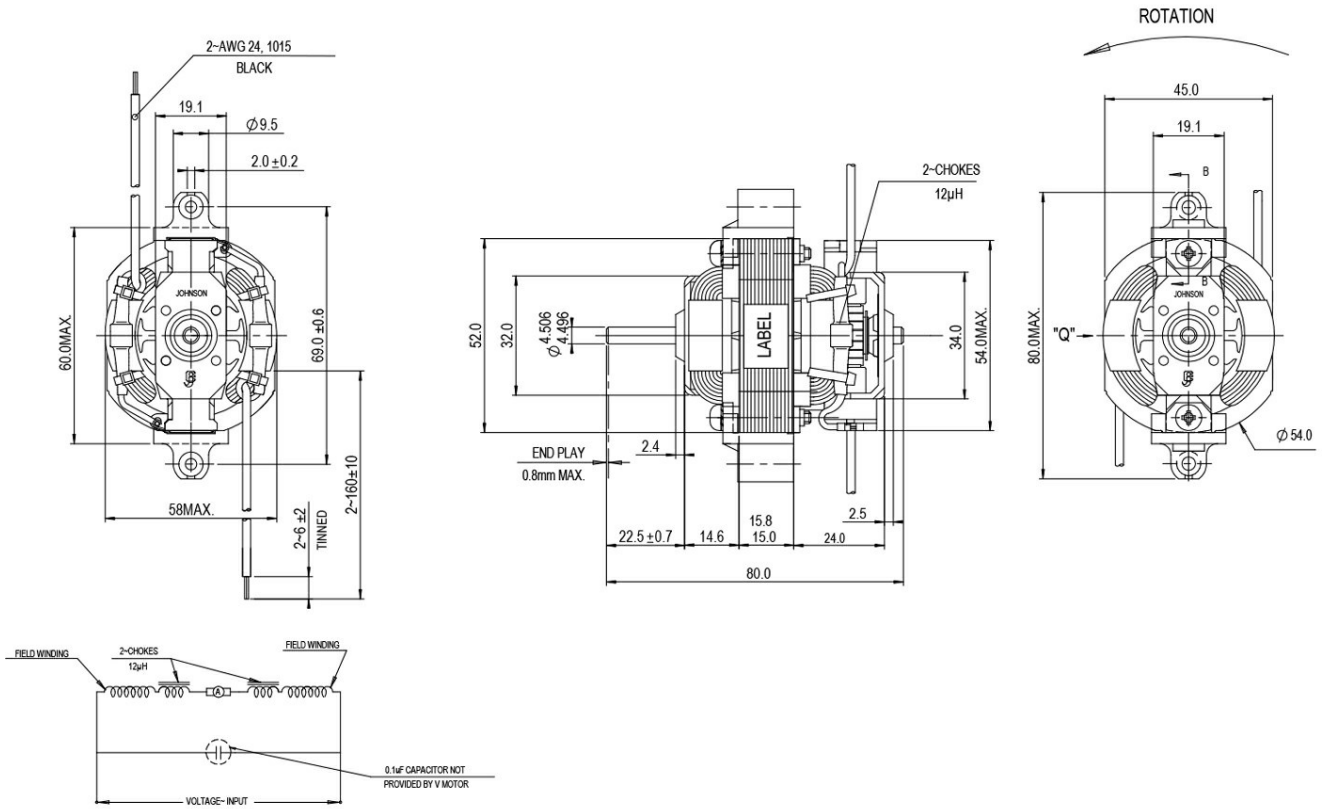
Performance Data:

	No Load	Typical Loading	Maximum Efficiency	Maximum Power
Current (A)	0.23	-	0.64	0.78
Efficiency (%)	-	-	45	42
Output Power (W)	-	-	63.00	69.00
Speed (rpm)	32300	-	15300	12700
Torque (mNm)	-	-	38.00	53.50

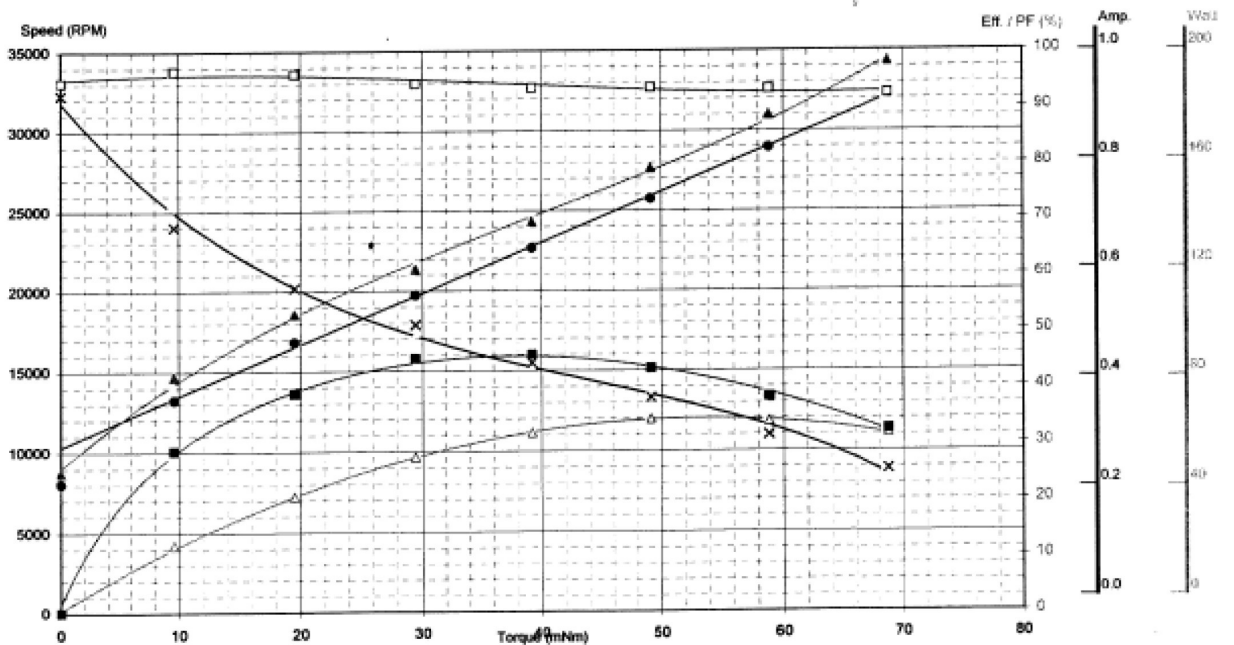
Application Examples:

Hair Dryers

Outline Drawing:



Performance Curves:



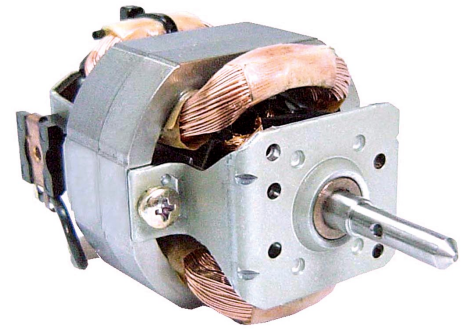
Units in Metric

Characteristics:

High Power Density

Specifications:

Shaft Diameter	: Ø 6.350 mm
Maximum Output Power	: 73.00 W
Maximum Efficiency	: 46 %
Torque at Maximum Efficiency	: 47.00 mNm
Speed at Maximum Efficiency	: 12200 rpm
Output Power at Maximum Efficiency	: 60 W
Weight	: 360 g
Electrical Connection	: Terminal
Certification	: RoHS

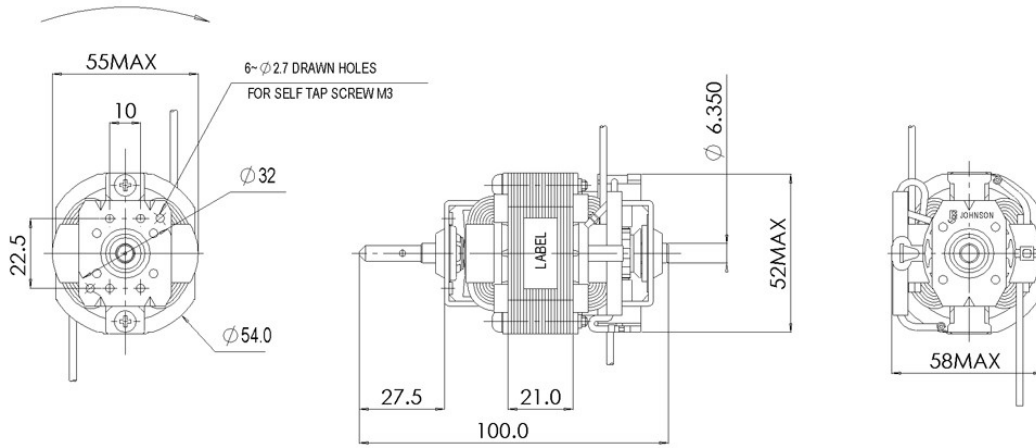
**Performance Data:**

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	0.58	0.80	1.38	1.90
Efficiency (%)	-	20	46	40
Output Power (W)	-	11.20	60.00	73.00
Speed (rpm)	24700	20000	12200	8211
Torque (mNm)	-	7.60	47.00	85.00

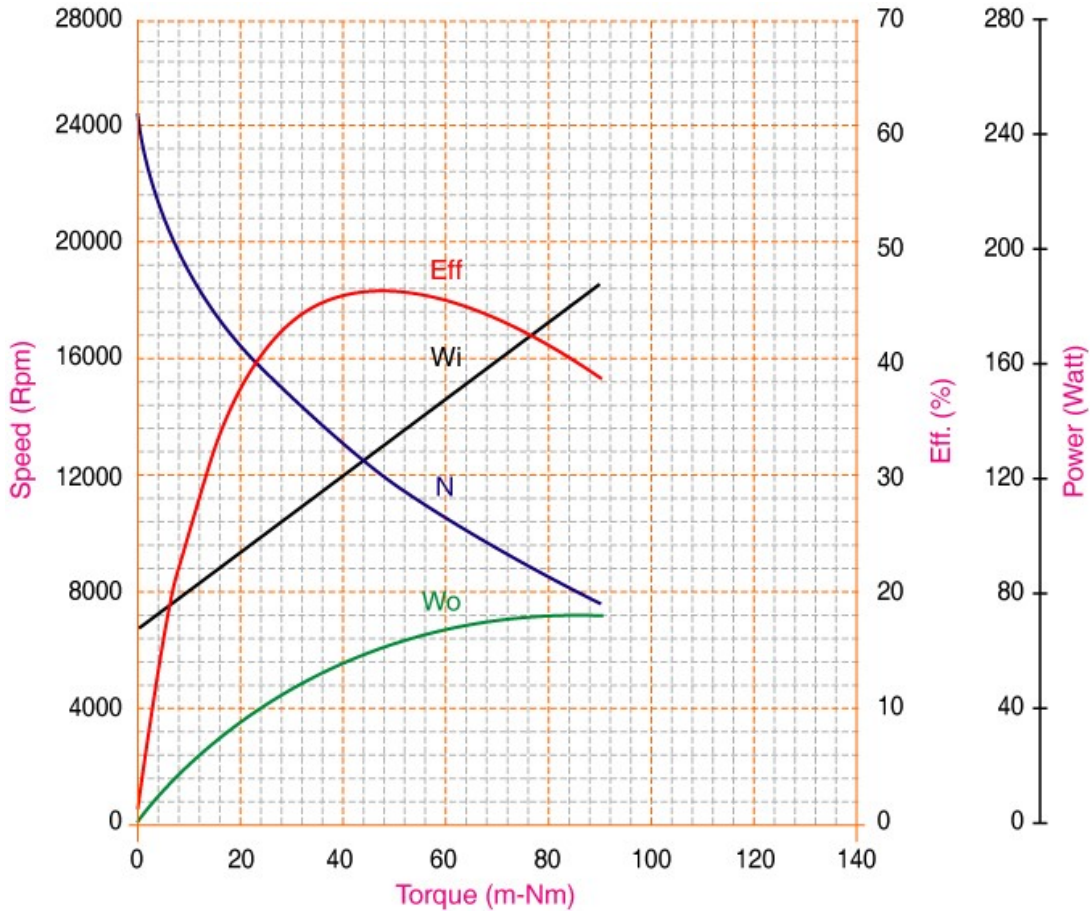
Application Examples:

Coffee Machines

Drawing:



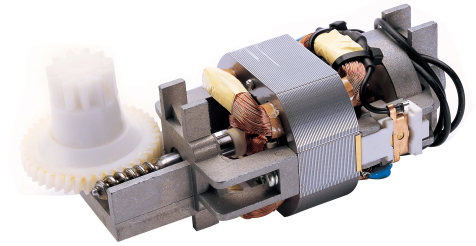
Performance Curves:



Units in Metric

Characteristics:

High Power Density



Specifications:

Shaft Diameter : Ø 7.131 mm
 Maximum Output Power : 108.00 W
 Maximum Efficiency : 50 %
 Torque at Maximum Efficiency : 53.00 mNm
 Speed at Maximum Efficiency : 15900 rpm
 Output Power at Maximum Efficiency : 88 W
 Weight : 536 g
 Electrical Connection : Terminal
 Certification : RoHS

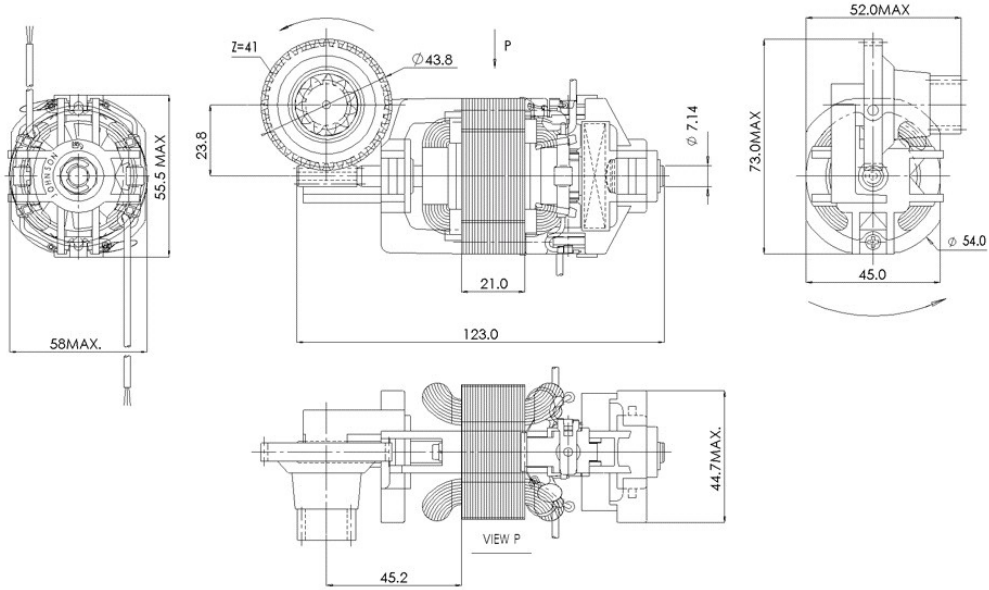
Performance Data:

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	0.35	0.71	0.78	1.14
Efficiency (%)	-	52	50	-
Output Power (W)	-	85.00	88.00	108.00
Speed (rpm)	28600	16500	15900	10260
Torque (mNm)	-	-	53.00	101.00

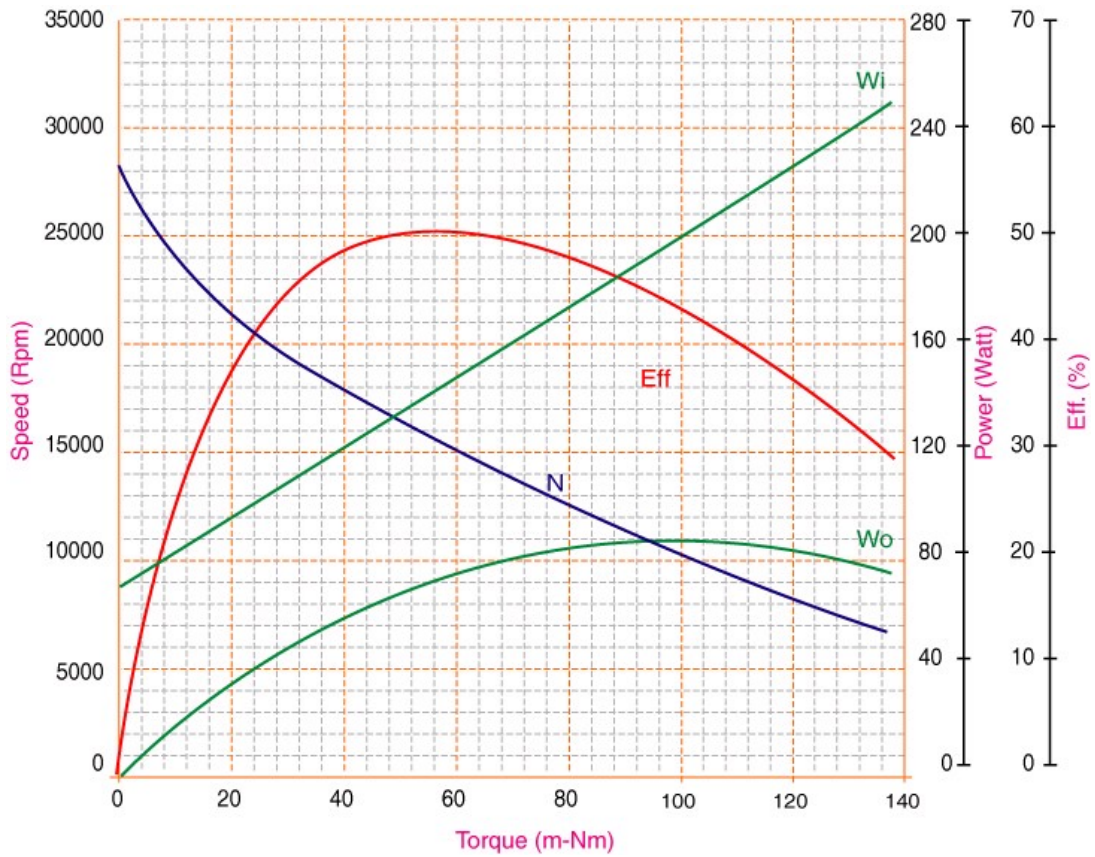
Application Examples:

Slicer

Drawing:



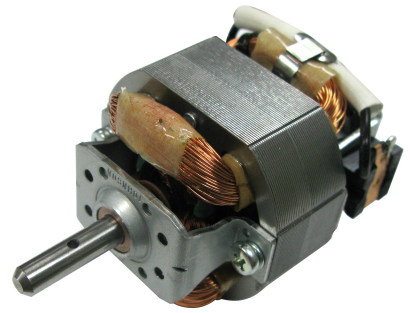
Performance Curves:



Units in Metric

Specifications:

Dimensions	: Ø 54.0 X 63.6 mm
Shaft Diameter	: Ø 6.351 mm
Input Voltage	: 100.0 V AC , 50 Hz
Maximum Efficiency	: 45 %
Torque at Maximum Efficiency	: 85.47 mNm
Speed at Maximum Efficiency	: 12908 rpm
Output Power at Maximum Efficiency	: 123 W
Weight	: 373 g
Operation Temperature	: -10 to 55 °C
Storage Temperature	: -20 to 80 °C
Electrical Connection	: Lead wire



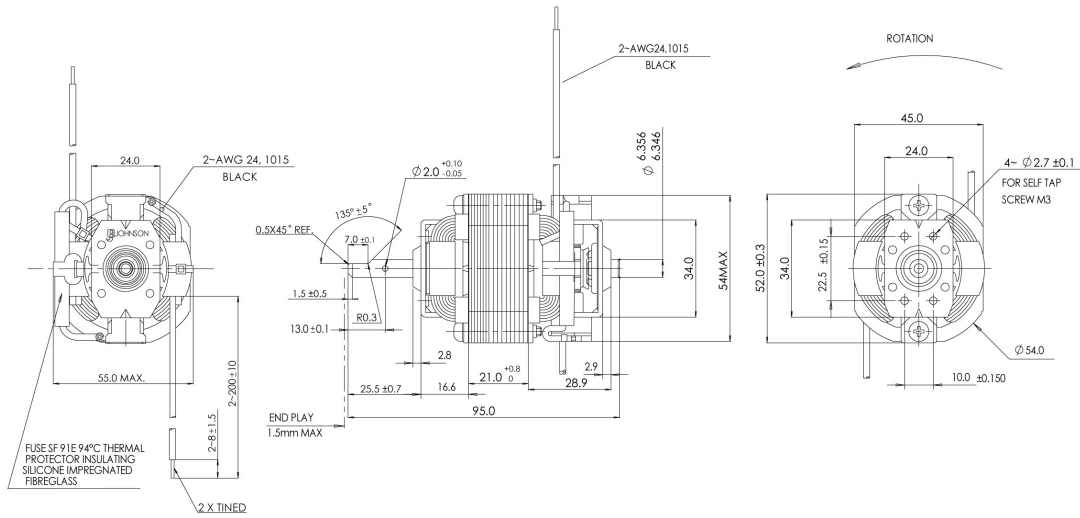
Performance Data:

	No Load	Max Efficiency
Current (A)	0.94	2.87
Efficiency (%)	-	45
Output Power (W)	-	123.49
Speed (rpm)	30906	12908
Torque (mNm)	-	85.47

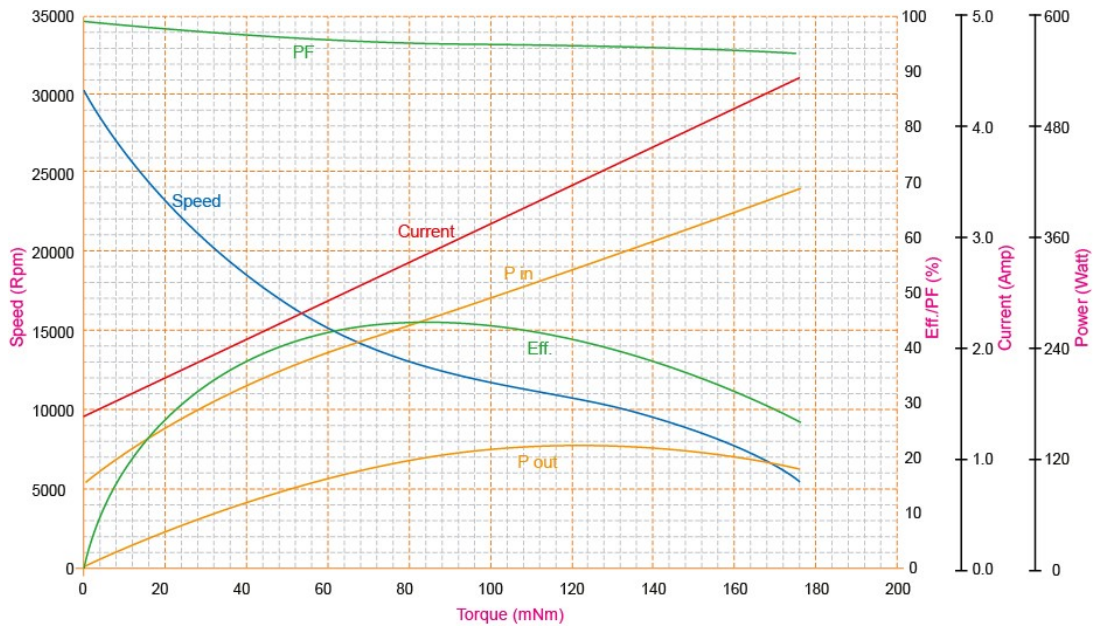
Application Examples:

Coffee Grinders, Coffee Machines

Drawing:



Performance Curves:



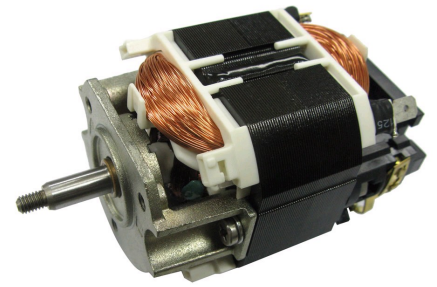
Units in Metric

Characteristics:

Reliable, High Torque

Specifications:

Dimensions	: Ø 54.0 X 52.0 X 46.0 X 73.7 mm
Shaft Diameter	: Ø 6.350 mm
Input Voltage	: 220.0 V AC , 50 Hz
Maximum Output Power	: 99.00 W
Maximum Efficiency	: 44 %
Torque at Maximum Efficiency	: 66.57 mNm
Speed at Maximum Efficiency	: 12640 rpm
Output Power at Maximum Efficiency	: 92 W
Weight	: 368 g
Operation Temperature	: -10 to 55 °C
Storage Temperature	: -20 to 85 °C
Electrical Connection	: Terminals



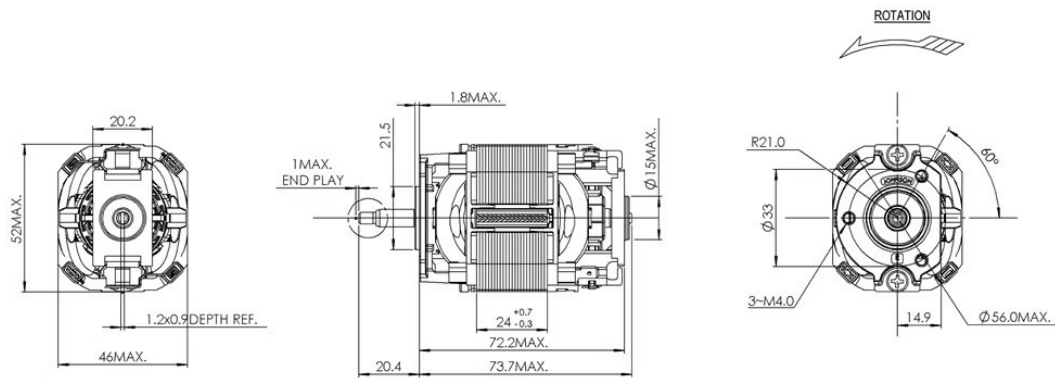
Performance Data:

	No Load	Max Efficiency
Current (A)	0.35	1.03
Efficiency (%)	-	44
Output Power (W)	-	92.00
Speed (rpm)	30598	12640
Torque (mNm)	-	66.57

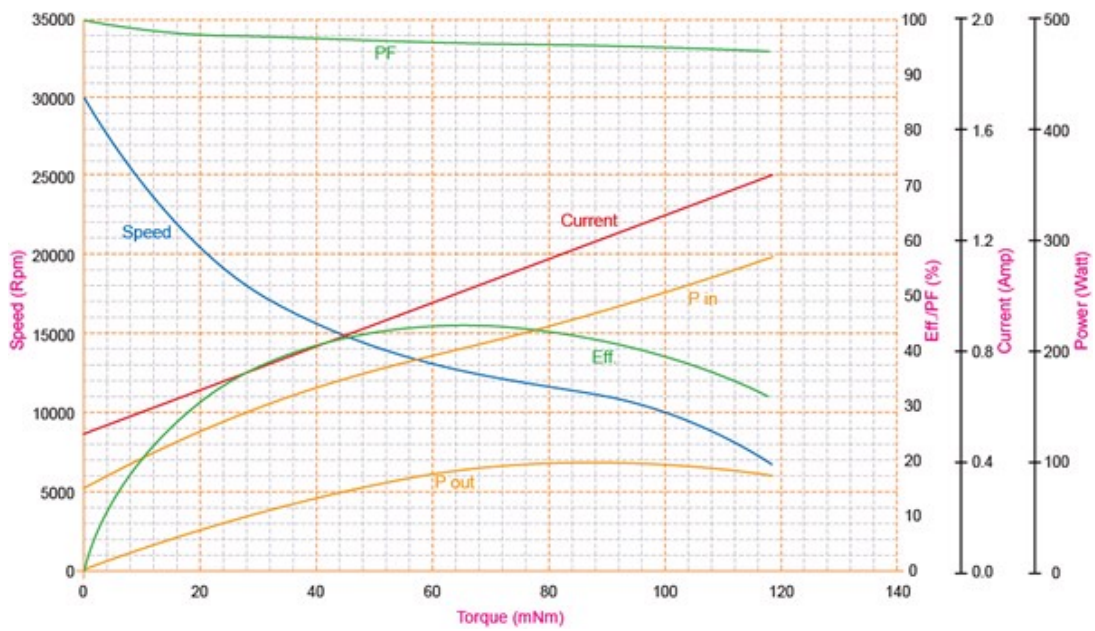
Application Examples:

Circuit Breakers, Motorized Circuit Breakers

Drawing:



Performance Curves:



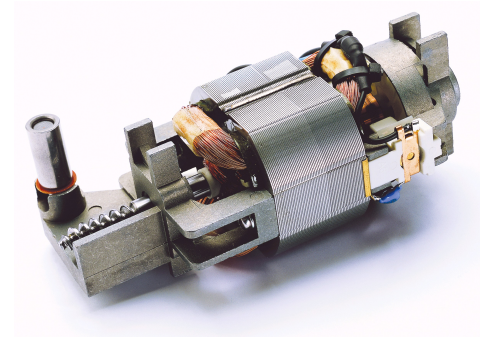
Units in Metric

Characteristics:

High Power Density

Specifications:

Shaft Diameter : Ø 7.100 mm
 Maximum Output Power : 160.00 W
 Maximum Efficiency : 49 %
 Torque at Maximum Efficiency : 70.00 mNm
 Speed at Maximum Efficiency : 17400 rpm
 Output Power at Maximum Efficiency : 127 W
 Weight : 635 g
 Electrical Connection : Terminal
 Certification : RoHS



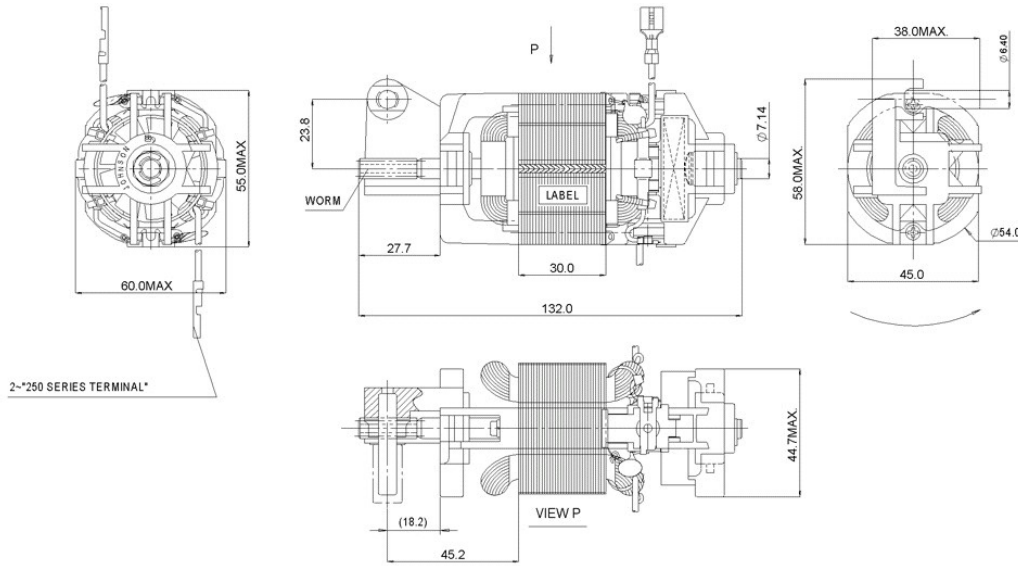
Performance Data:

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	0.45	0.90	1.20	1.84
Efficiency (%)	-	40	49	40
Output Power (W)	-	70.00	127.00	160.00
Speed (rpm)	30000	22400	17400	11330
Torque (mNm)	-	30.00	70.00	136.00

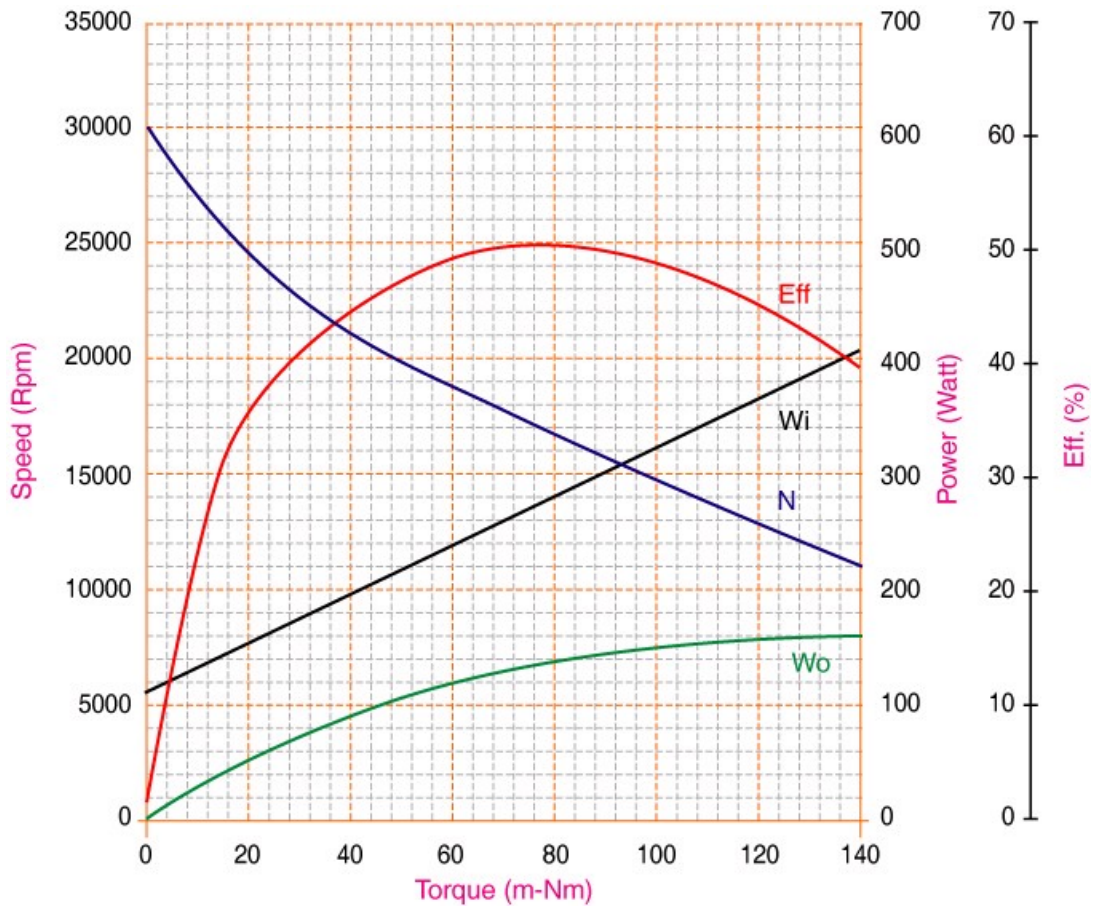
Application Examples:

Slicer

Drawing:



Performance Curves:



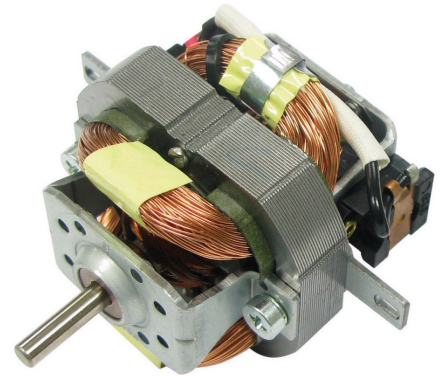
Units in Metric

Characteristics:

High Power, Long Life

Specifications:

Dimensions	: Ø 56.0 X 52.9 mm
Shaft Diameter	: Ø 4.500 mm
Input Voltage	: 230.0 V AC , 50 Hz
Maximum Efficiency	: 41 %
Torque at Maximum Efficiency	: 30.00 mNm
Speed at Maximum Efficiency	: 17500 rpm
Output Power at Maximum Efficiency	: 53 W
Life (typical)	: 1500 hr
Weight	: 250 g
Operation Temperature	: -10 to 55 °C
Storage Temperature	: -20 to 80 °C
Electrical Connection	: Lead Wire
Certification	: CE, RoHS

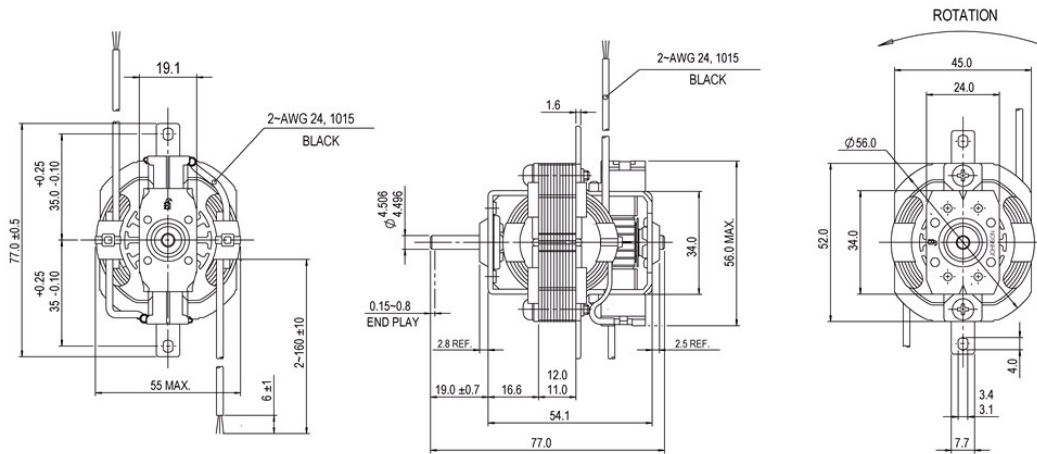
**Performance Data:**

	No Load	Typical Loading	Max Efficiency
Current (A)	0.25	0.60	0.60
Efficiency (%)	-	41	41
Output Power (W)	-	53.00	53.00
Speed (rpm)	33000	17500	17500
Torque (mNm)	-	30.00	30.00

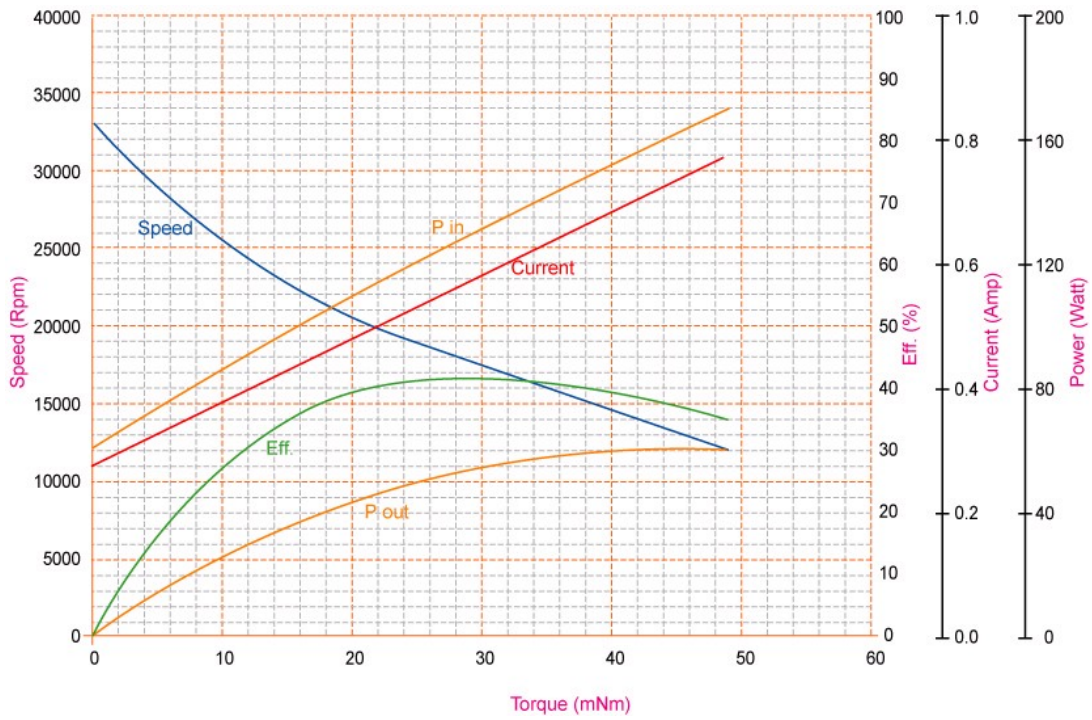
Application Examples:

Hair Dryers

Drawing:



Performance Curves:



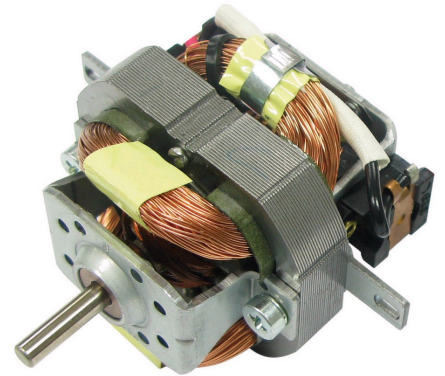
Units in Metric

Characteristics:

High Power, Long Life

Specifications:

Dimensions	: Ø 56.0 X 52.9 mm
Shaft Diameter	: Ø 4.500 mm
Input Voltage	: 120.0 V AC
Maximum Efficiency	: 42 %
Torque at Maximum Efficiency	: 38.00 mNm
Speed at Maximum Efficiency	: 16000 rpm
Output Power at Maximum Efficiency	: 63 W
Life (typical)	: 1500 hr
Weight	: 250 g
Operation Temperature	: -10 to 55 °C
Storage Temperature	: -20 to 80 °C
Electrical Connection	: Lead Wire
Certification	: UL, RoHS



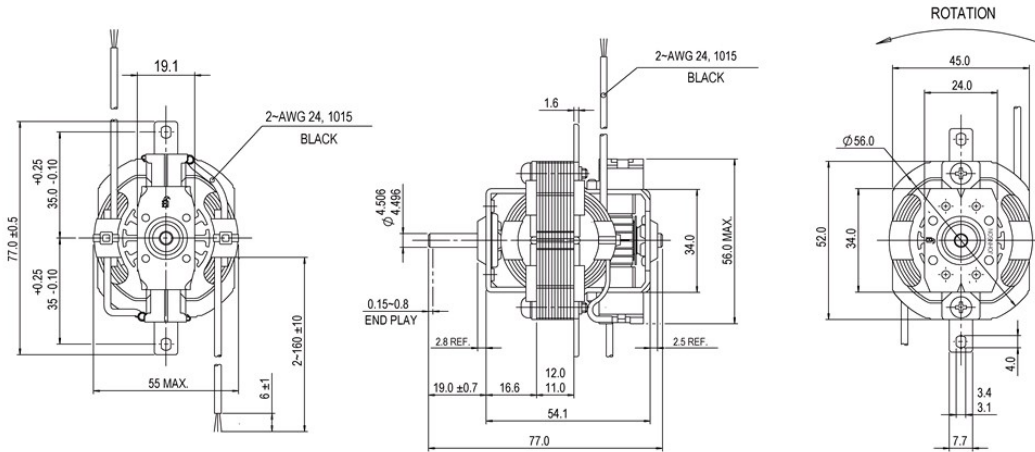
Performance Data:

	No Load	Typical Loading	Max Efficiency
Current (A)	0.50	1.20	1.30
Efficiency (%)	-	41	42
Output Power (W)	-	53.00	63.00
Speed (rpm)	30000	17500	16000
Torque (mNm)	-	30.00	38.00

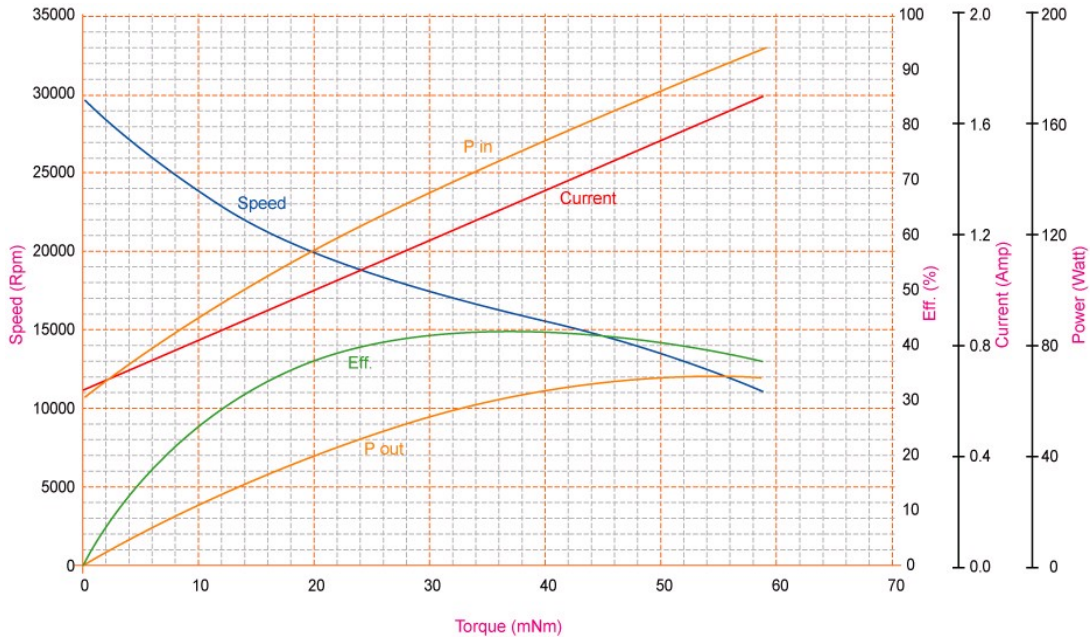
Application Examples:

Hair Dryers

Drawing:



Performance Curves:



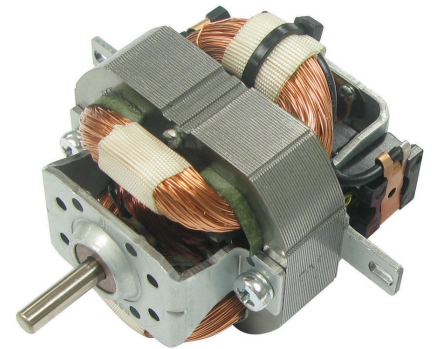
Units in Metric

Characteristics:

High Power, Long Life

Specifications:

Dimensions	: Ø 56.0 X 55.9 mm
Shaft Diameter	: Ø 4.500 mm
Input Voltage	: 230.0 V AC
Maximum Efficiency	: 53 %
Torque at Maximum Efficiency	: 43.00 mNm
Speed at Maximum Efficiency	: 17200 rpm
Output Power at Maximum Efficiency	: 76 W
Life (typical)	: 2000 hr
Weight	: 300 g
Operation Temperature	: -10 to 55 °C
Storage Temperature	: -20 to 80 °C
Electrical Connection	: Lead Wire
Certification	: CE, RoHS



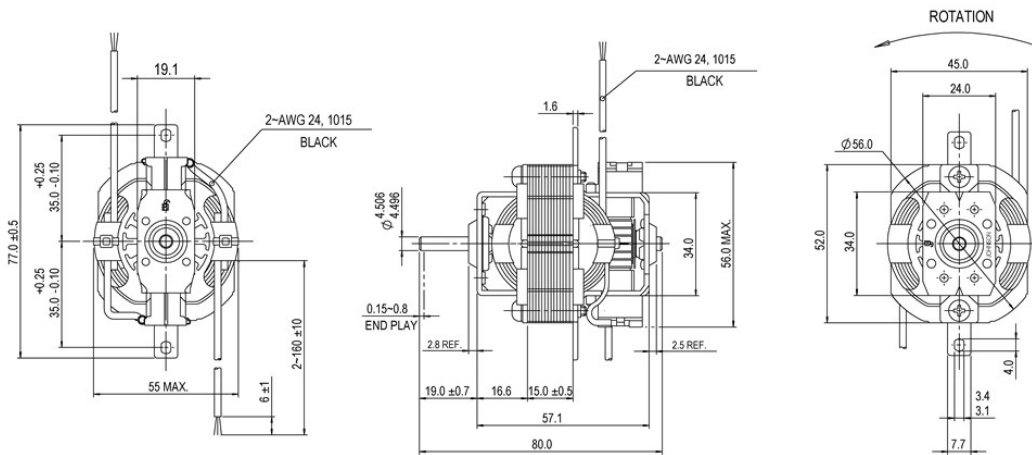
Performance Data:

	No Load	Typical Loading	Max Efficiency
Current (A)	0.20	0.60	0.66
Efficiency (%)	-	51	53
Output Power (W)	-	63.00	76.00
Speed (rpm)	36000	18500	17200
Torque (mNm)	-	35.00	43.00

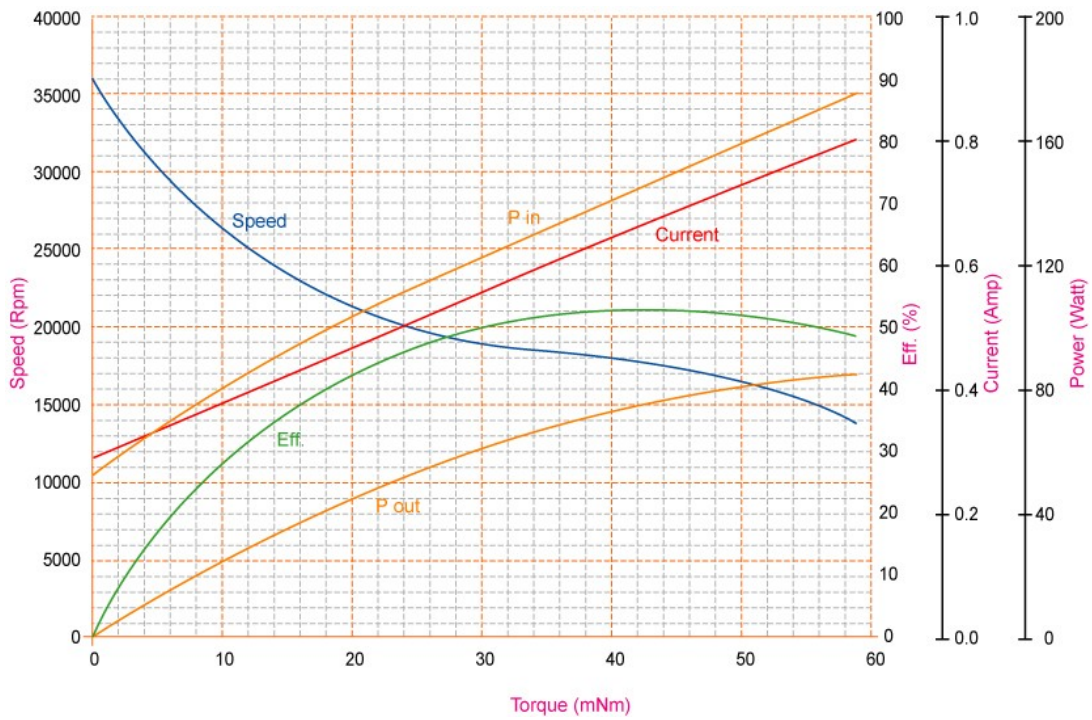
Application Examples:

Hair Dryers

Drawing:



Performance Curves:



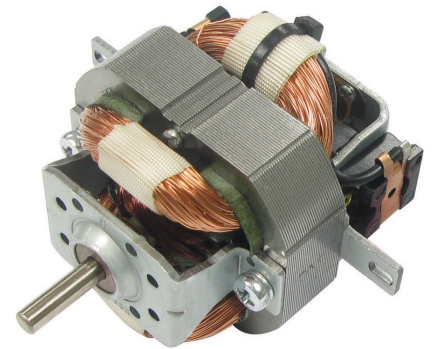
Units in Metric

Characteristics:

High Power, Long Life

Specifications:

Dimensions : Ø 56.0 X 55.9 mm
 Shaft Diameter : Ø 4.500 mm
 Input Voltage : 120.0 V AC , 60 Hz
 Maximum Efficiency : 50 %
 Torque at Maximum Efficiency : 47.00 mNm
 Speed at Maximum Efficiency : 18500 rpm
 Output Power at Maximum Efficiency : 79 W
 Life (typical) : 2000 hr
 Weight : 300 g
 Operation Temperature : -10 to 55 °C
 Storage Temperature : -20 to 80 °C
 Electrical Connection : Lead Wire
 Certification : UL, RoHS



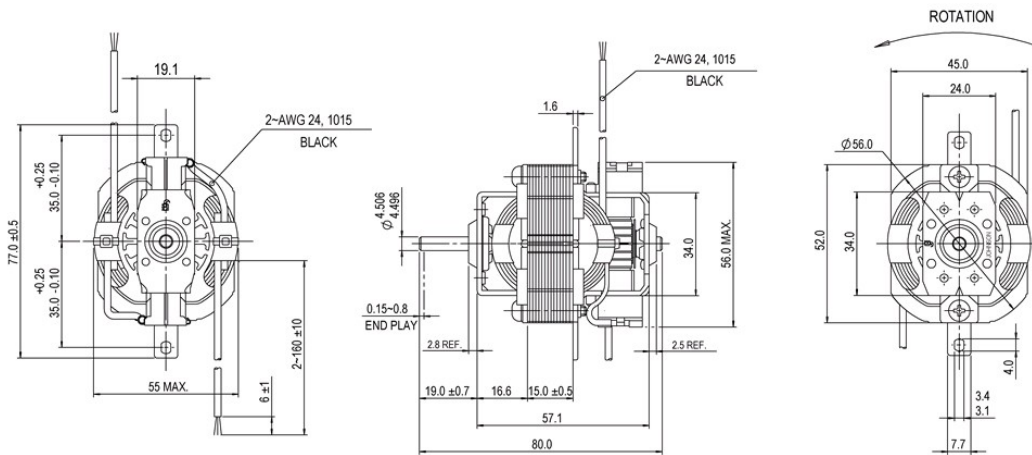
Performance Data:

	No Load	Typical Loading	Max Efficiency
Current (A)	0.50	1.20	1.40
Efficiency (%)	-	46	50
Output Power (W)	-	63.00	79.00
Speed (rpm)	31000	18500	16500
Torque (mNm)	-	35.00	47.00

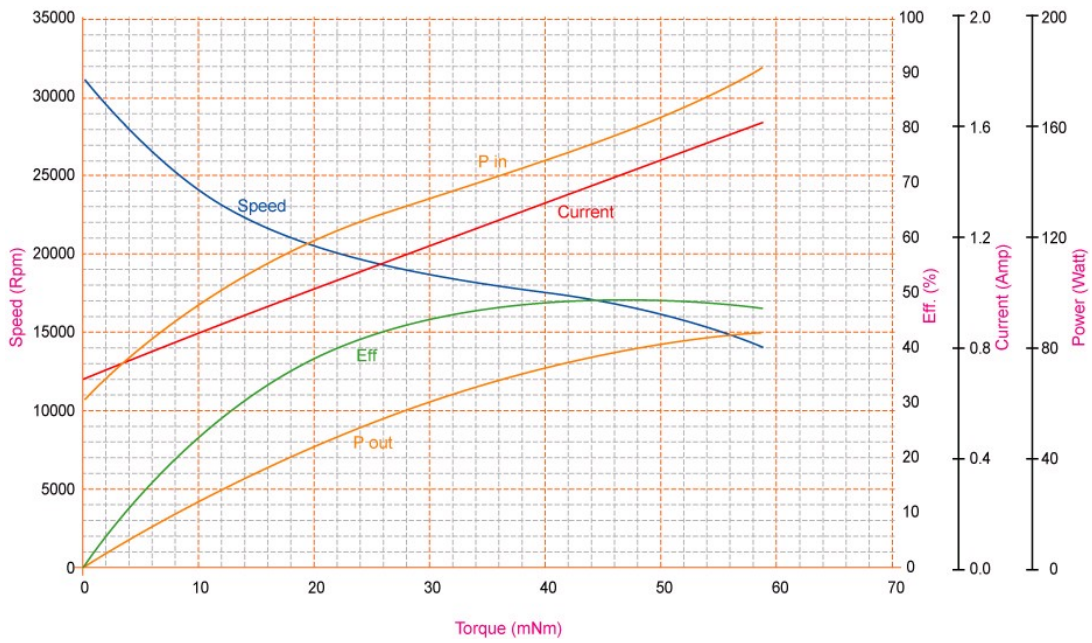
Application Examples:

Hair Dryer

Drawing:



Performance Curves:



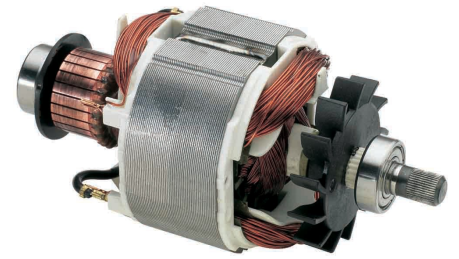
Units in Metric

Characteristics:

Compact Size

Specifications:

Shaft Diameter : Ø 8.000 mm
 Maximum Efficiency : 53 %
 Torque at Maximum Efficiency : 138.77 mNm
 Speed at Maximum Efficiency : 17200 rpm
 Output Power at Maximum Efficiency : 247 W
 Weight : 512 g
 Electrical Connection : Terminal
 Certification : UL, RoHS



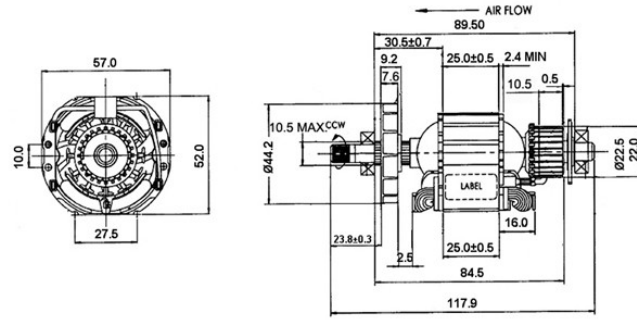
Performance Data:

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	1.37	3.45	4.26	6.48
Efficiency (%)	-	-	53	-
Output Power (W)	-	190.00	246.86	311.31
Speed (rpm)	28800	18600	17200	11643
Torque (mNm)	-	94.00	138.77	261.96

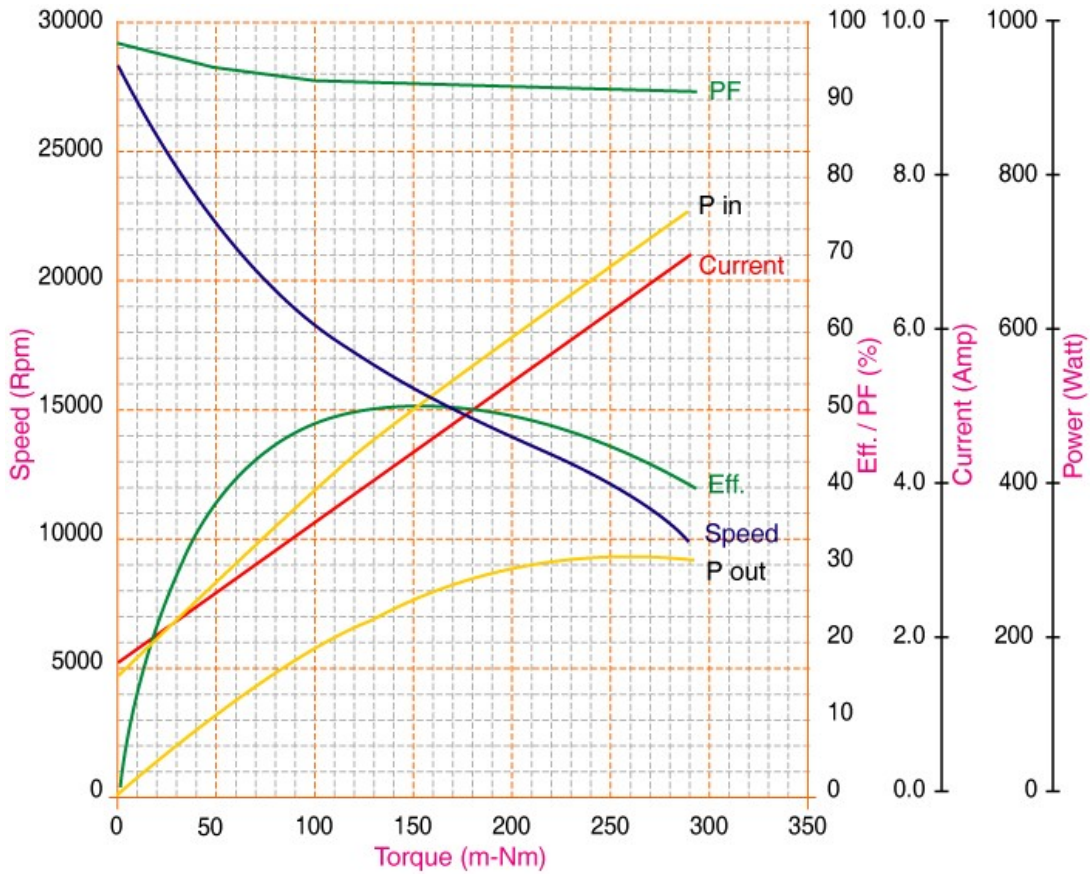
Application Examples:

Drills

Drawing:



Performance Curves:



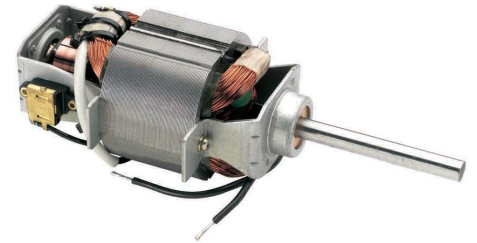
Units in Metric

Characteristics:

High Power Density

Specifications:

Dimensions	: Ø 58.0 X 52.0 X 118.0 mm
Shaft Diameter	: Ø 8.000 mm
Input Voltage	: 120.0 V AC , 60 Hz
Maximum Efficiency	: 51 %
Torque at Maximum Efficiency	: 18.30 mNm
Speed at Maximum Efficiency	: 12242 rpm
Weight	: 840 g
Operation Temperature	: -10 to 50 °C
Storage Temperature	: -20 to 100 °C
Electrical Connection	: Terminal
Certification	: UL, CE, RoHS

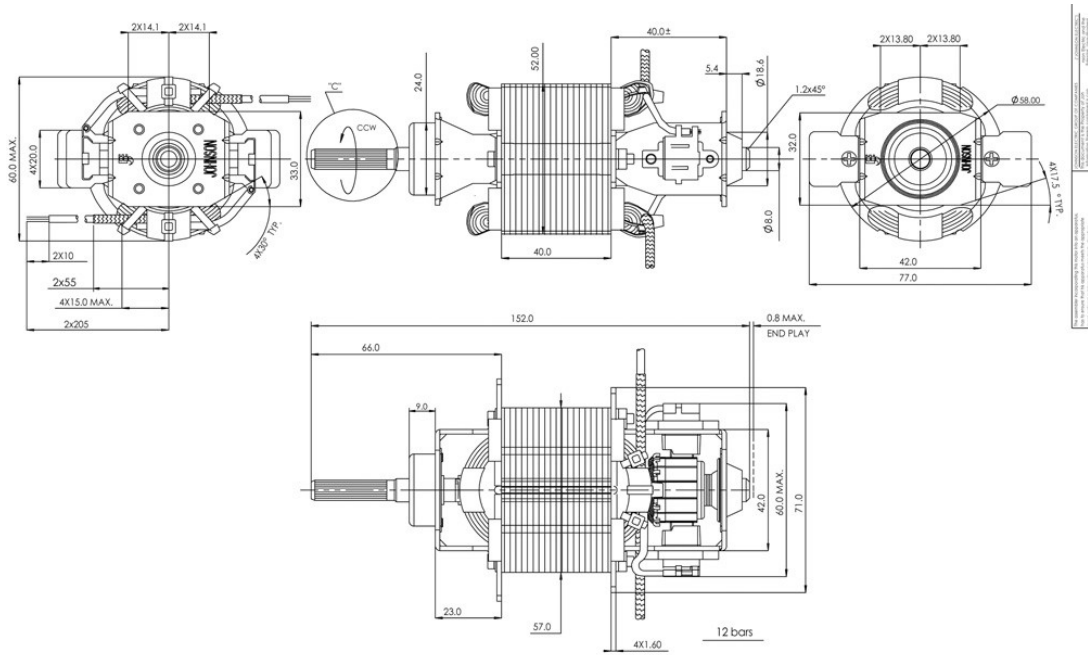
**Performance Data:**

	No Load	Typical Loading	Max Efficiency
Current (A)	1.09	4.21	4.21
Efficiency (%)	-	51	51
Output Power (W)	-	-	32.00
Speed (rpm)	27541	12242	12242
Torque (mNm)	-	183.00	18.30

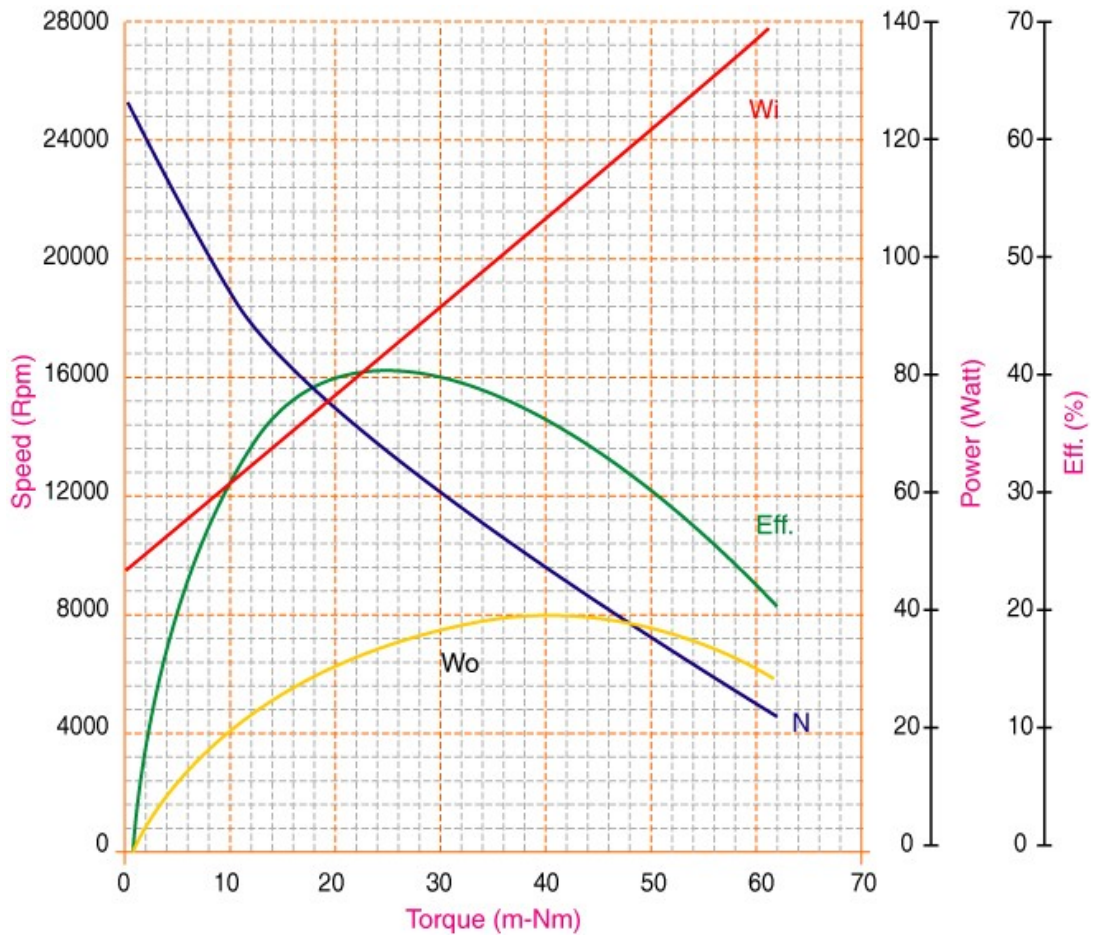
Application Examples:

Trimmers

Drawing:



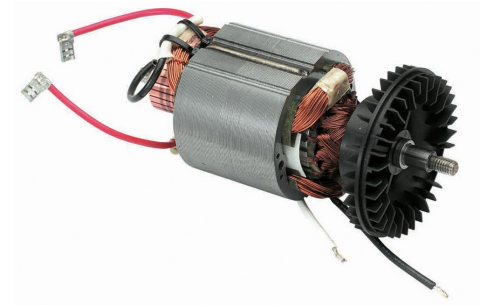
Performance Curves:



Units in Metric

Characteristics:

High Power Density



Specifications:

Dimensions	: Ø 58.0 X 124.4 mm
Shaft Diameter	: Ø 8.000 mm
Input Voltage	: 120.0 V AC , 60 Hz
Maximum Efficiency	: 52 %
Torque at Maximum Efficiency	: 360.83 mNm
Speed at Maximum Efficiency	: 16200 rpm
Weight	: 790 g
Operation Temperature	: -10 to 50 °C
Storage Temperature	: -20 to 100 °C
Electrical Connection	: Terminal
Certification	: UL, CE, RoHS

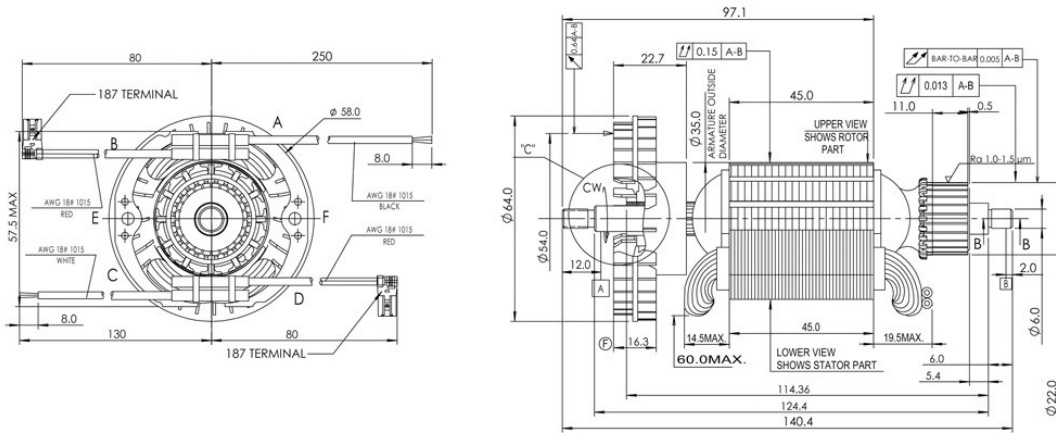
Performance Data:

	No Load	Typical Loading	Max Efficiency
Current (A)	5.09	5.70	10.49
Efficiency (%)	-	-	52
Output Power (W)	-	-	612.48
Speed (rpm)	24900	24300	16200
Torque (mNm)	-	30.00	30.00

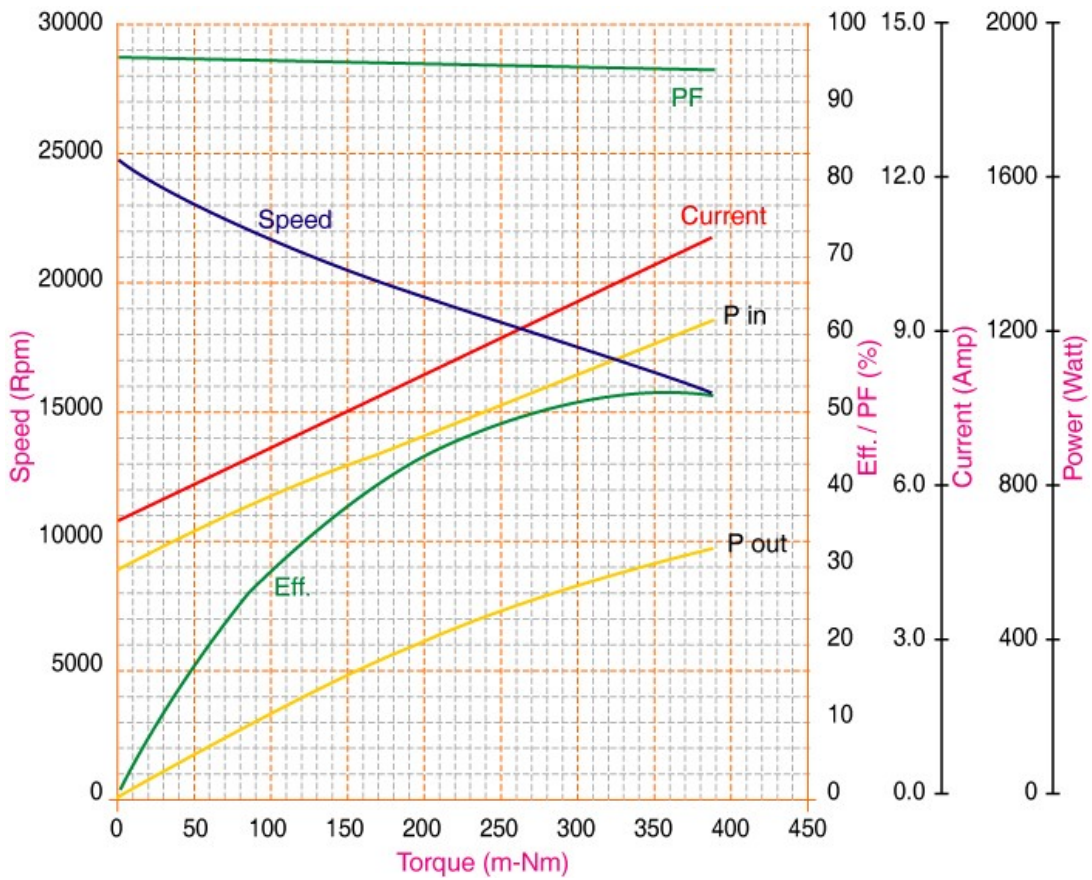
Application Examples:

Sanders, Grinders, Polishers

Drawing:



Performance Curves:



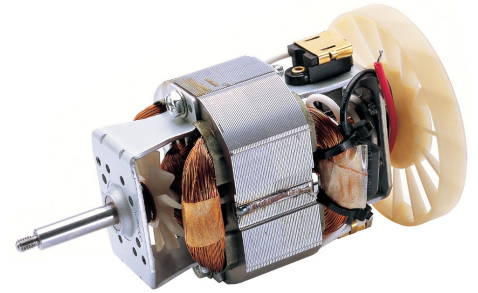
Units in Metric

Characteristics:

High Power Density

Specifications:

Dimensions	: Ø 62.0 X 129.8 mm
Shaft Diameter	: Ø 6.350 mm
Input Voltage	: 230.0 V AC , 50 Hz
Maximum Efficiency	: 49 %
Torque at Maximum Efficiency	: 115.00 mNm
Speed at Maximum Efficiency	: 8610 rpm
Storage Temperature	: -20 to 100 °C
Electrical Connection	: Terminal
Certification	: CE

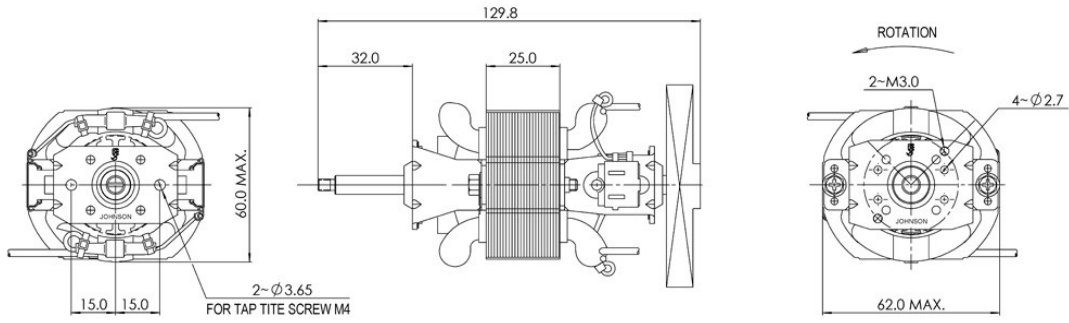
**Performance Data:**

	No Load	Typical Loading	Max Efficiency
Current (A)	0.38	0.95	0.95
Efficiency (%)	-	49	49
Output Power (W)	-	101.00	101.00
Speed (rpm)	15739	8610	8610
Torque (mNm)	-	115.00	115.00

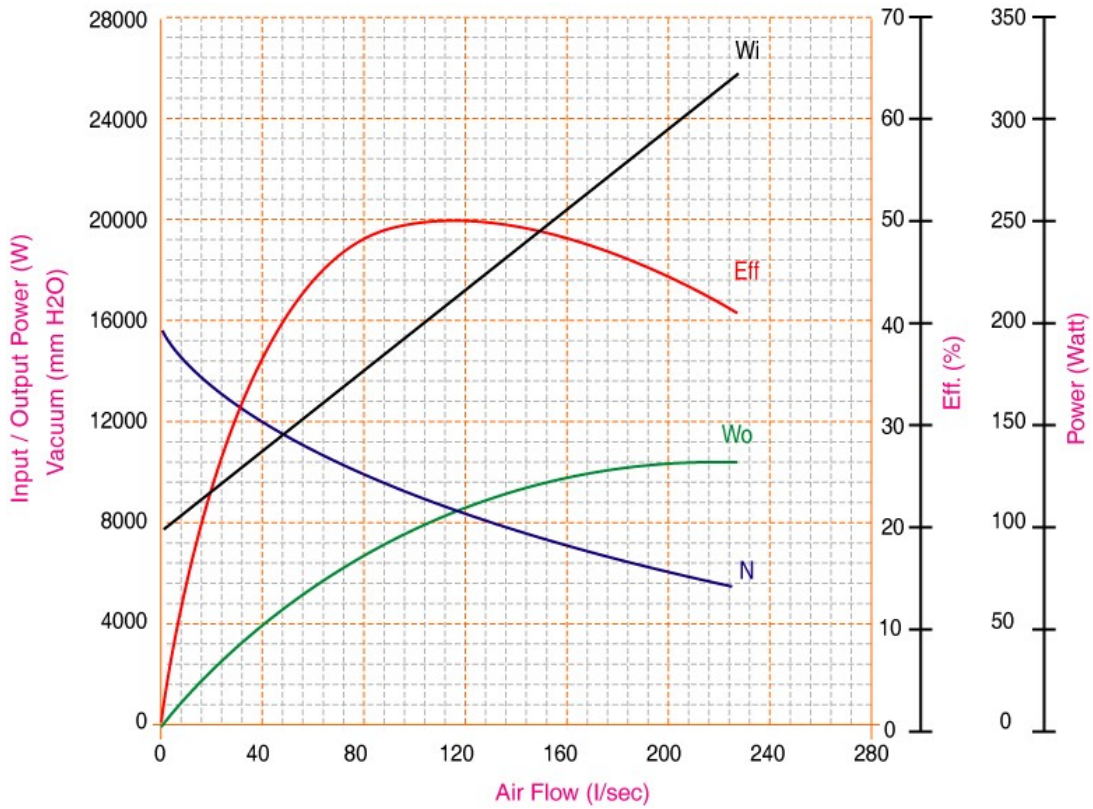
Application Examples:

Juicers, Centrifugal Juicers, Hand Mixers, Stand Mixers

Drawing:



Performance Curves:



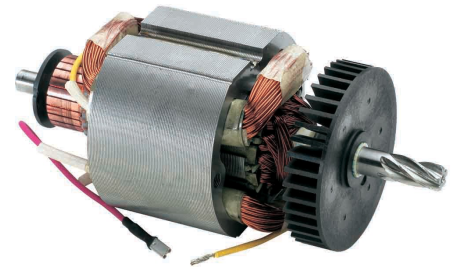
Units in Metric

Characteristics:

High Power

Specifications:

Shaft Diameter	: Ø 8.005 mm
Maximum Efficiency	: 53 %
Torque at Maximum Efficiency	: 252.76 mNm
Speed at Maximum Efficiency	: 15100 rpm
Output Power at Maximum Efficiency	: 401 W
Weight	: 755 g
Operation Temperature	: -10 to 50 °C
Storage Temperature	: -20 to 80 °C
Electrical Connection	: Leadwire
Certification	: UL, RoHs

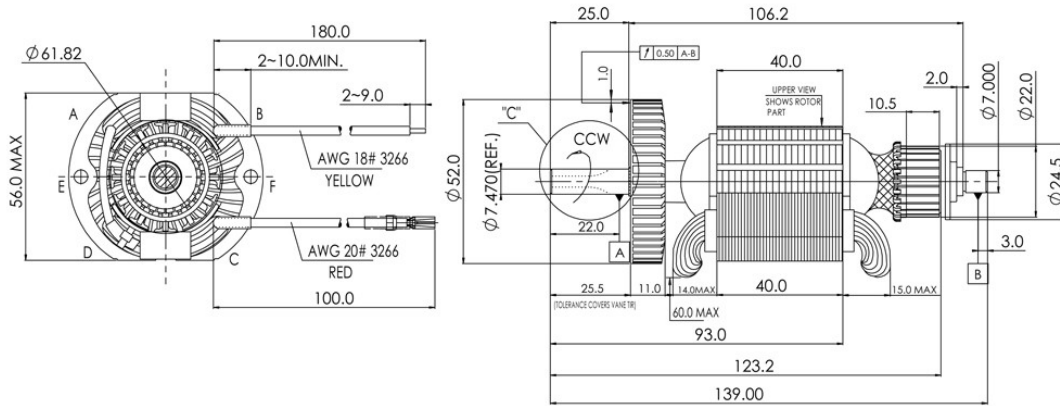
**Performance Data:**

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	2.61	5.32	6.81	9.80
Efficiency (%)	-	-	53	-
Output Power (W)	-	292.00	401.47	480.00
Speed (rpm)	25400	17800	15100	10450
Torque (mNm)	-	155.00	252.76	432.10

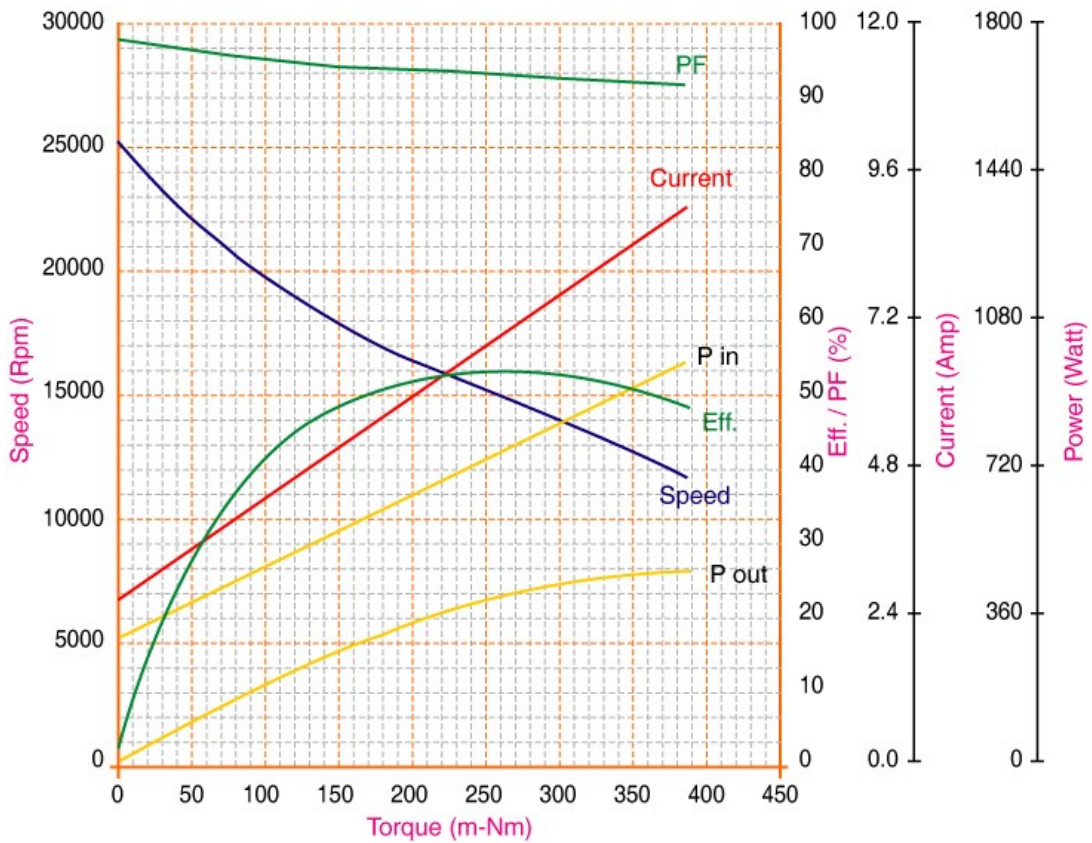
Application Examples:

Drills

Drawing:



Performance Curves:



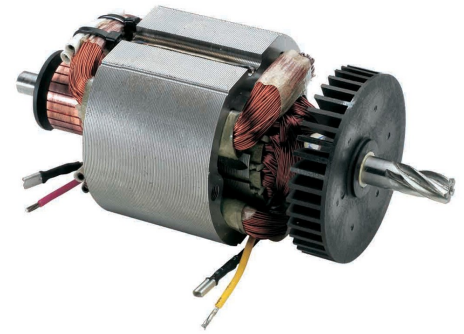
Units in Metric

Characteristics:

High Robustnes

Specifications:

Dimensions	: Ø 61.8 X 53.0 X 106.2 mm
Shaft Diameter	: Ø 8.005 mm
Input Voltage	: 230.0 V AC , 50 Hz
Maximum Efficiency	: 56 %
Torque at Maximum Efficiency	: 289.89 mNm
Speed at Maximum Efficiency	: 14300 rpm
Weight	: 796 g
Operation Temperature	: -10 to 50 °C
Storage Temperature	: -20 to 100 °C
Electrical Connection	: Leadwire
Certification	: UL, CE, RoHS



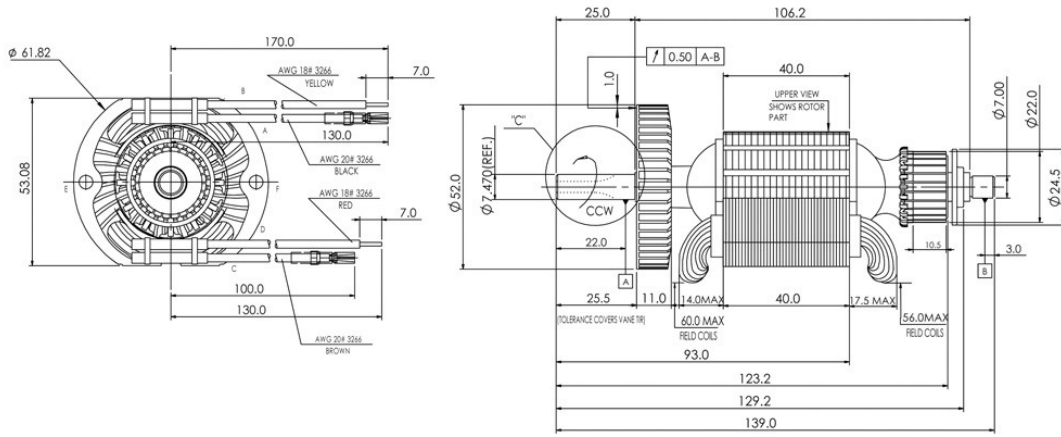
Performance Data:

	No Load	Typical Loading	Max Efficiency
Current (A)	1.17	2.61	2.61
Efficiency (%)	-	54	56
Output Power (W)	-	280.00	433.68
Speed (rpm)	24900	17100	14300
Torque (mNm)	-	156.00	156.00

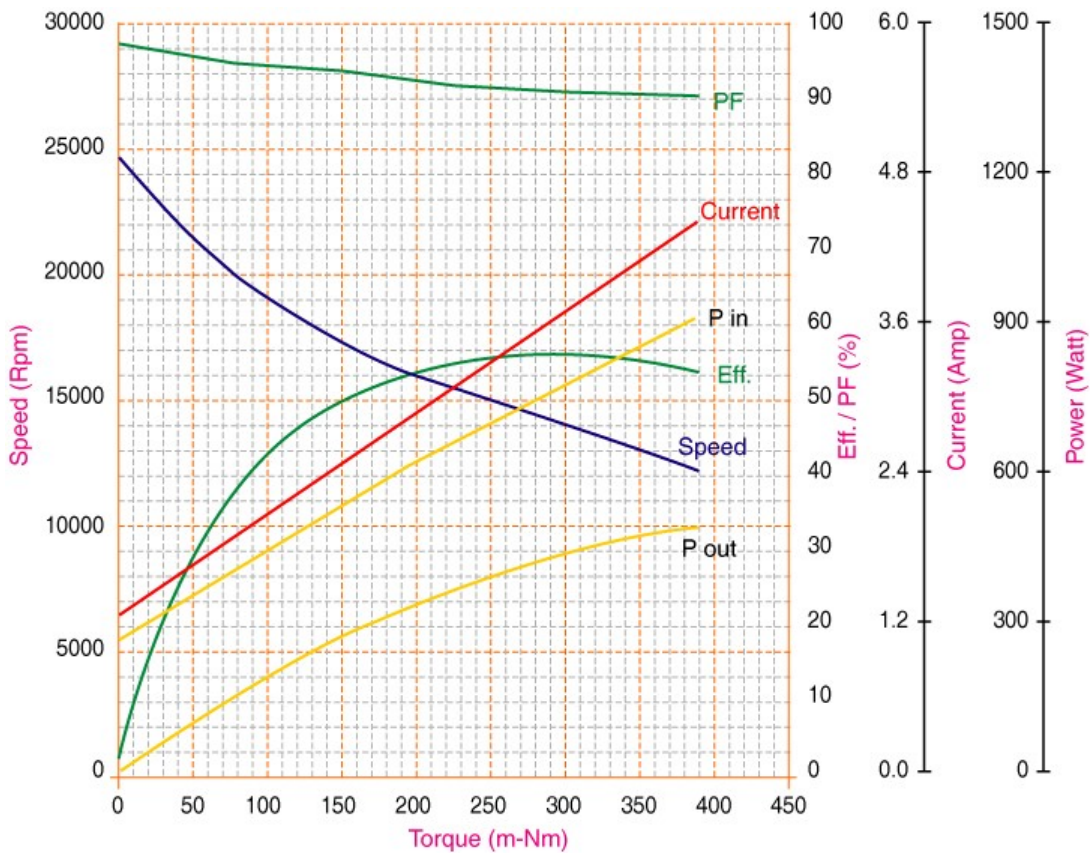
Application Examples:

Drills and Drivers

Drawing:



Performance Curves:



Units in Metric

Characteristics:

High Torque Universal AC motor

Specifications:

Diameter	: 66.00 mm
Length	: 121.45 mm
Input Voltage	: 120.0 V AC
Weight	: 950 g
Frequency	: 60 Hz
Operating Temperature Range	: -10 to 55 °C
Storage Temperature Range	: -20 to 80 °C
Electrical Connection	: Leadwires



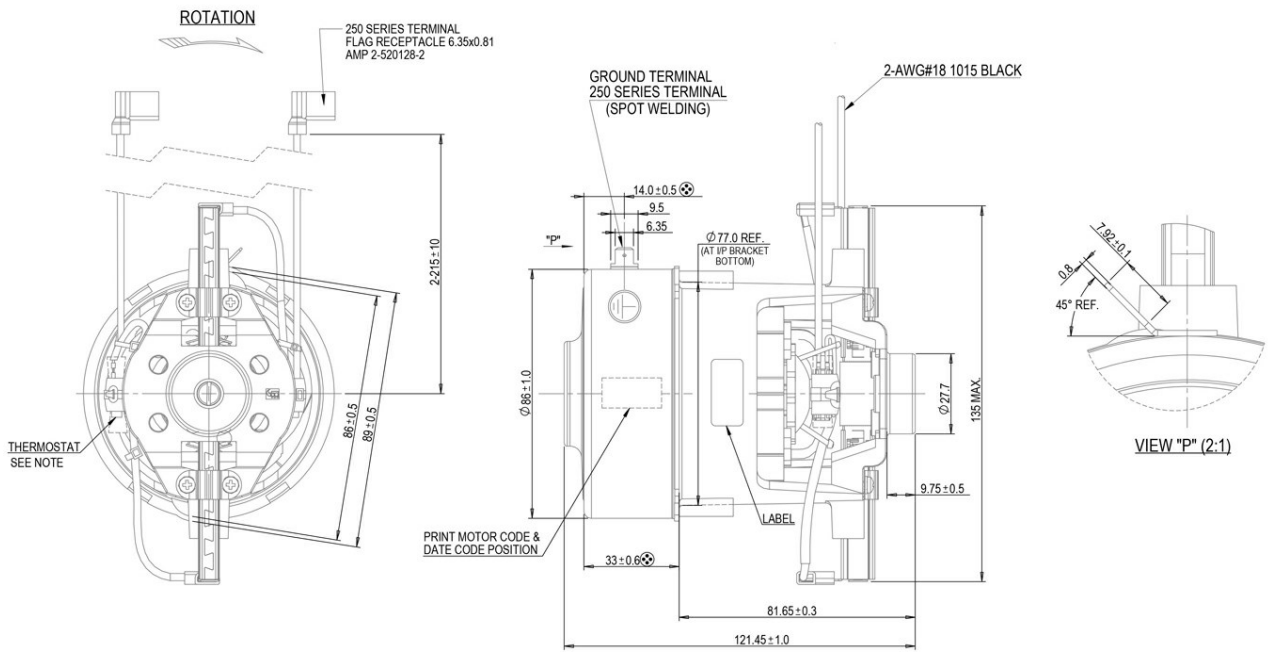
Performance Data:

	No Load	Typical Loading	Maximum Efficiency	Maximum Power
Current (A)	4.85	-	4.40	3.10
Efficiency (%)	2	-	31	-
Output Power (W)	583.00	-	530.00	377.00
Speed (rpm)	31577	-	33990	40896
Torque (mNm)	-	-	-	-

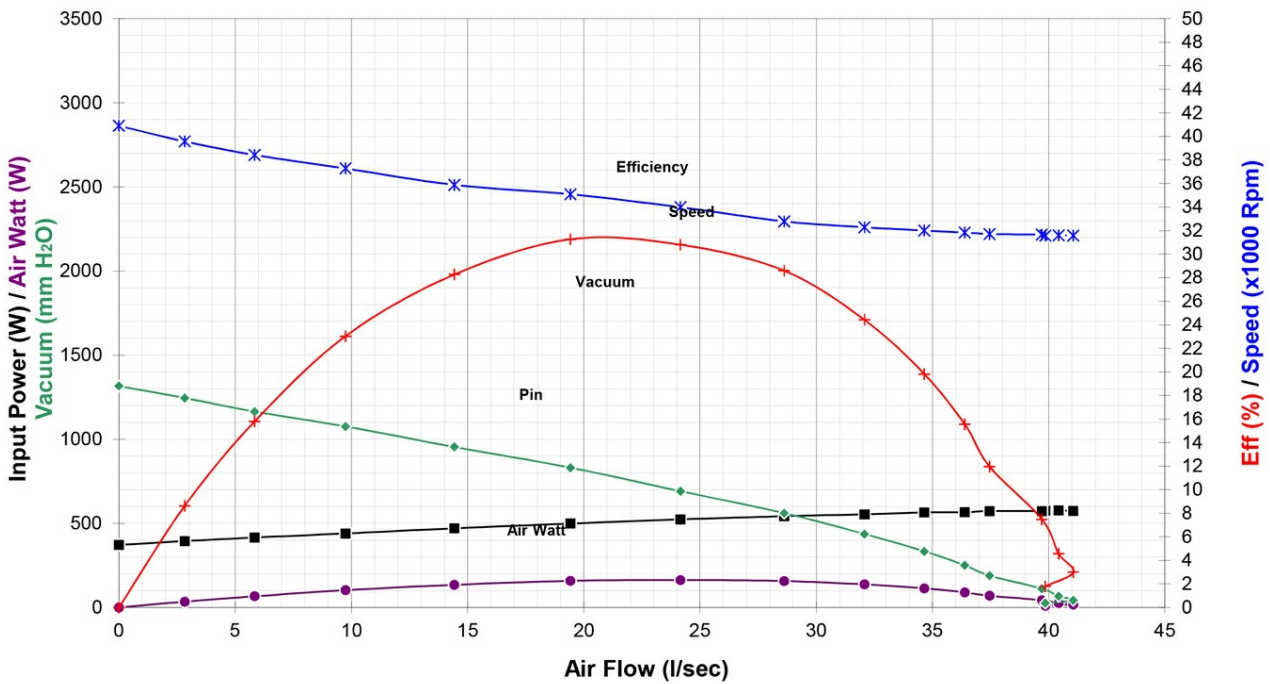
Application Examples:

Hand Dryers

Outline Drawing:



Performance Curves:



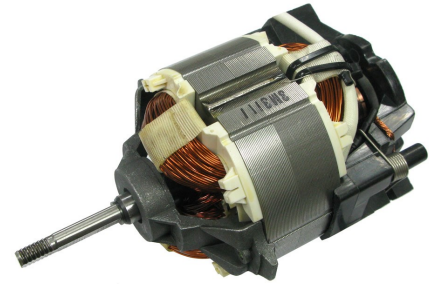
Units in Metric

Characteristics:

High Power Density

Specifications:

Dimensions : Ø 73.0 X 145.0 mm
 Shaft Diameter : Ø 8.000 mm
 Input Voltage : 120.0 V AC , 60 Hz
 Maximum Output Power : 488.60 W
 Maximum Efficiency : 64 %
 Torque at Maximum Efficiency : 267.38 mNm
 Speed at Maximum Efficiency : 13807 rpm
 Output Power at Maximum Efficiency : 394 W
 Weight : 999 g
 Operation Temperature : -10 to 55 °C
 Storage Temperature : -20 to 80 °C
 Electrical Connection : Lead Wire
 Certification : RoHS



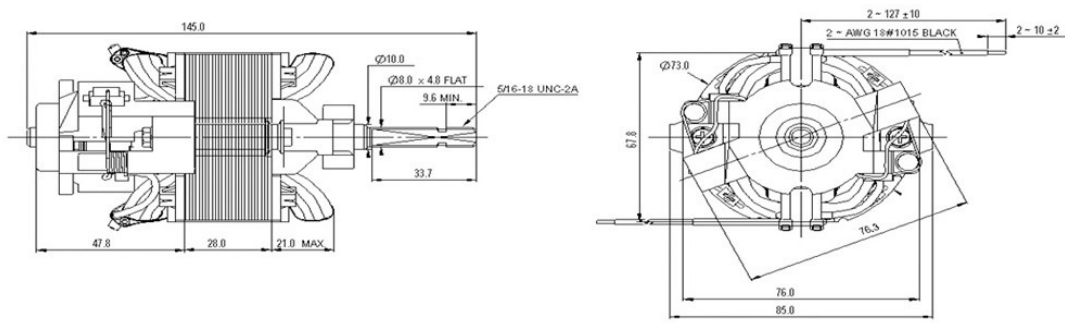
Performance Data:

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	1.55	4.60	5.31	8.05
Efficiency (%)	-	62	64	55
Output Power (W)	-	295.00	393.63	488.60
Speed (rpm)	38577	16500	13807	9755
Torque (mNm)	-	175.00	267.38	485.24

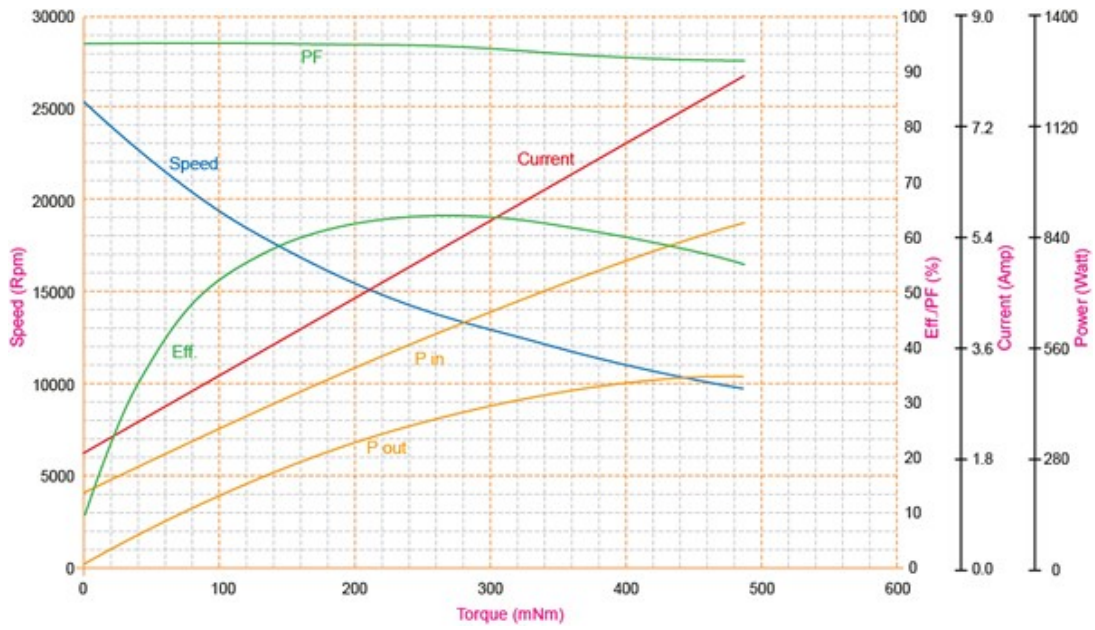
Application Examples:

Blowers / Vac

Drawing:



Performance Curves:



Units in Metric

Characteristics:

High Torque Universal AC motor

Specifications:

Diameter	: 82.00 mm
Length	: 120.20 mm
Input Voltage	: 120.0 V AC
Weight	: 1470 g
Frequency	: 60 Hz
Operating Temperature Range	: -10 to 55 °C
Storage Temperature Range	: -20 to 80 °C
Electrical Connection	: Terminals
Certification	: UL E60303



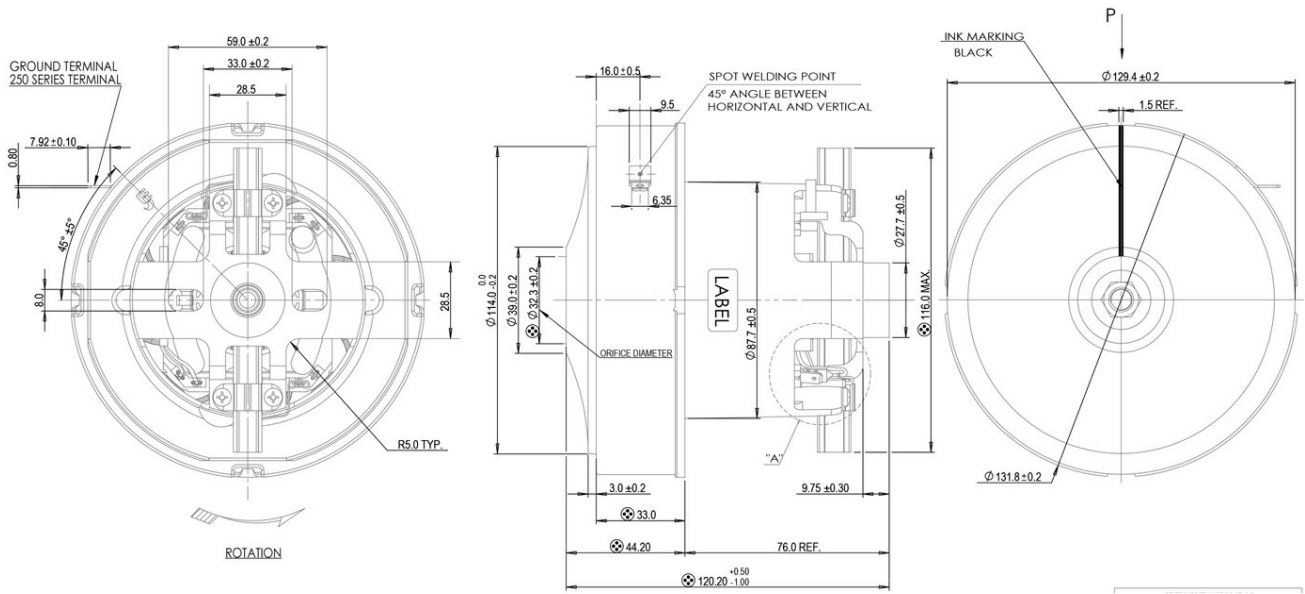
Performance Data:

	No Load	Typical Loading	Maximum Efficiency	Maximum Power
Current (A)	4.42	-	4.35	3.33
Efficiency (%)	3	-	43	-
Output Power (W)	496.00	-	489.00	377.00
Speed (rpm)	24568	-	24981	32175
Torque (mNm)	-	-	-	-

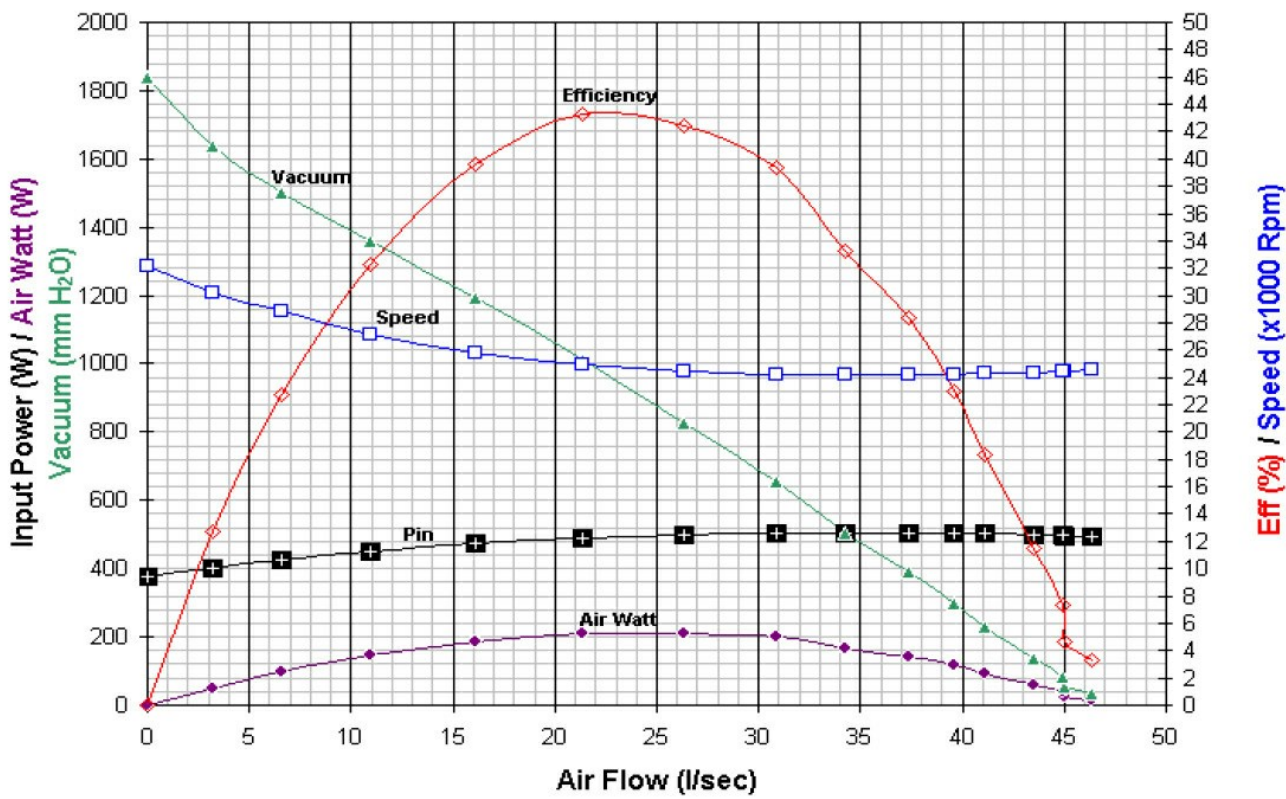
Application Examples:

Hand Dryers

Outline Drawing:



Performance Curves:



Units in Metric

Characteristics:

High torque Universal AC motor

Specifications:

Diameter : 82.00 mm
 Length : 120.20 mm
 Weight : 1470 g
 Input Voltage : 230.0 V AC
 Frequency : 50 Hz
 Operating Temperature Range : -10 to 55 °C
 Storage Temperature Range : -20 to 80 °C
 Electrical Connection : Terminals



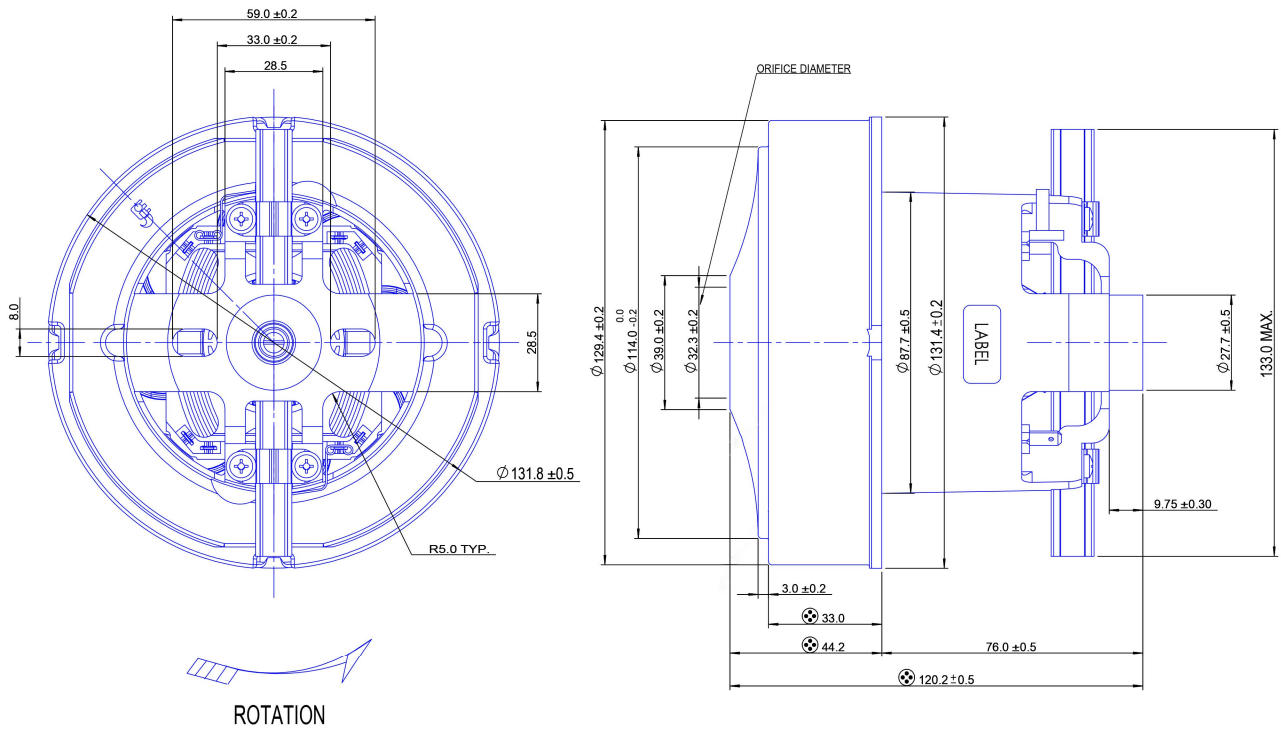
Performance Data:

	No Load	Typical Loading	Maximum Efficiency	Maximum Power
Current (A)	4.70	-	4.50	3.20
Efficiency (%)	8	-	40	-
Output Power (W)	1078.00	-	1034.00	739.00
Speed (rpm)	30870	-	31949	40364
Torque (mNm)	-	-	-	-

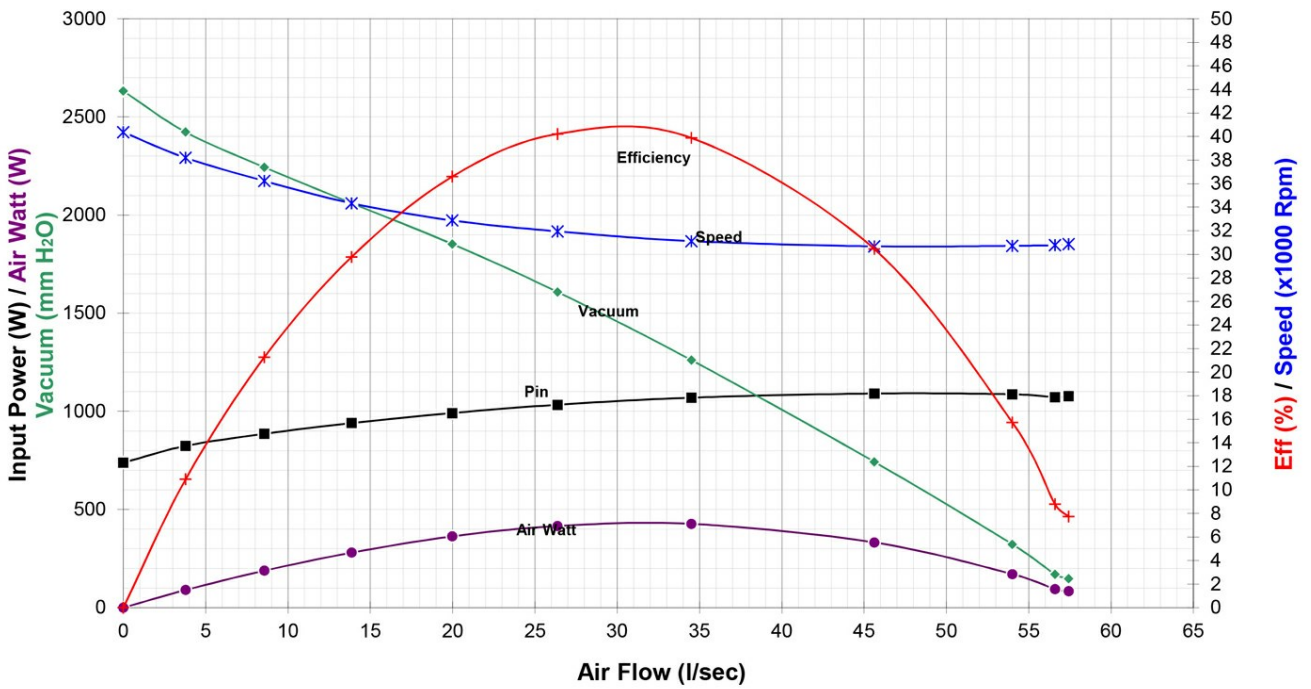
Application Examples:

Hand Dryers

Outline Drawing:



Performance Curves:



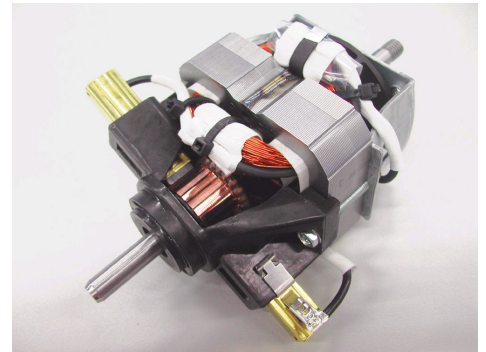
Units in Metric

Characteristics:

High Power Density

Specifications:

Dimensions : Ø 88.0 X 160.5 mm
 Shaft Diameter : Ø 8.000 mm
 Input Voltage : 230.0 V AC , 50 Hz
 Maximum Efficiency : 53 %
 Torque at Maximum Efficiency : 196.00 mNm
 Speed at Maximum Efficiency : 9220 rpm
 Weight : 920 g
 Operation Temperature : -10 to 55 °C
 Storage Temperature : -20 to 100 °C
 Electrical Connection : Leadwire
 Certification : UL, CE, RoHs



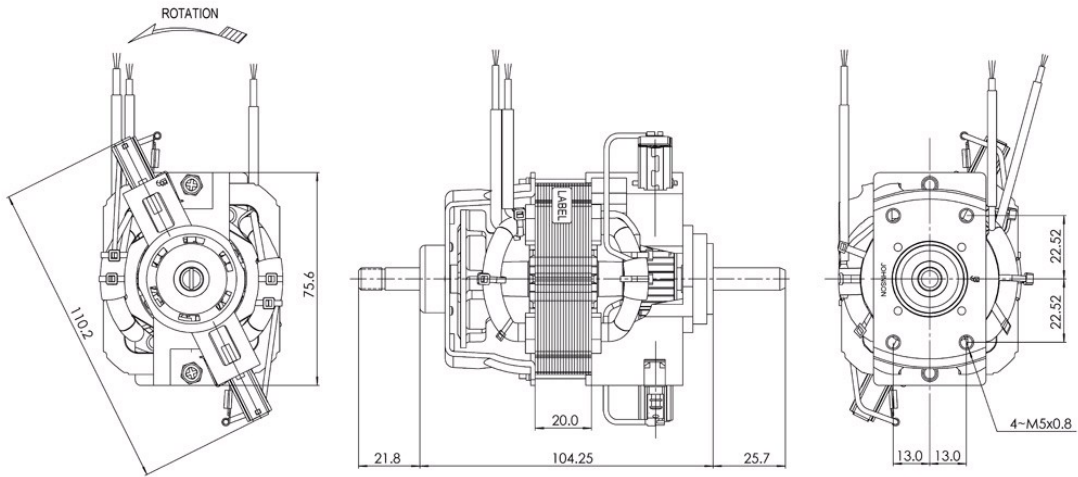
Performance Data:

	No Load	Typical Loading	Max Efficiency
Current (A)	0.57	1.43	1.66
Efficiency (%)	-	53	53
Output Power (W)	-	161.94	193.77
Speed (rpm)	17779	10374	10374
Torque (mNm)	-	150.00	150.00

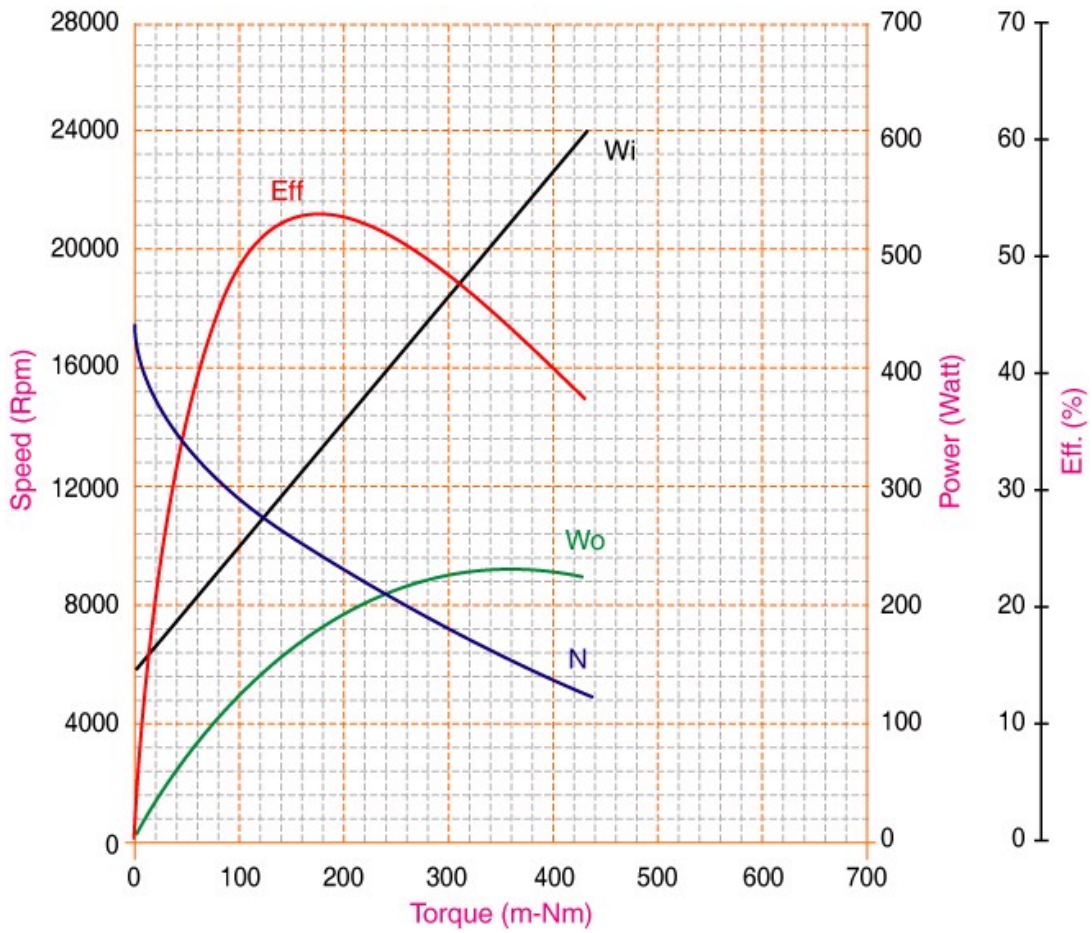
Application Examples:

Food Processors

Drawing:



Performance Curves:



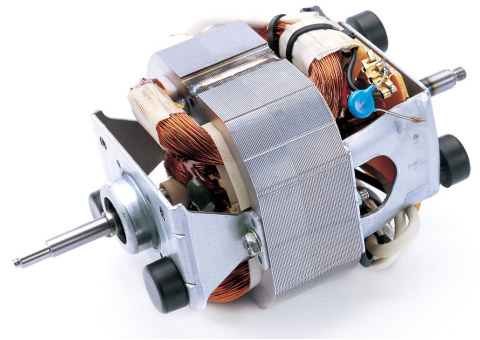
Units in Metric

Characteristics:

High Power

Specifications:

Dimensions : Ø 88.0 X 161.5 mm
 Shaft Diameter : Ø 8.000 mm
 Input Voltage : 230.0 V AC , 50 Hz
 Maximum Efficiency : 59 %
 Torque at Maximum Efficiency : 59.20 mNm
 Speed at Maximum Efficiency : 9100 rpm
 Weight : 1100 g
 Operation Temperature : -10 to 55 °C
 Storage Temperature : -20 to 100 °C
 Electrical Connection : Terminal
 Certification : CE



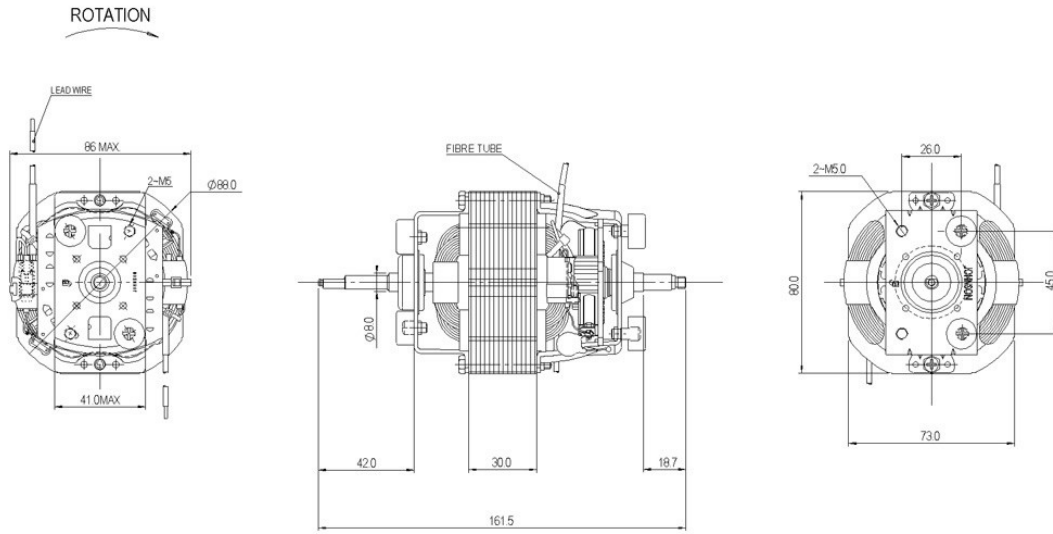
Performance Data:

	No Load	Typical Loading	Max Efficiency
Current (A)	0.57	2.00	2.44
Efficiency (%)	-	59	59
Output Power (W)	-	-	305.00
Speed (rpm)	22900	11000	9100
Torque (mNm)	-	200.00	200.00

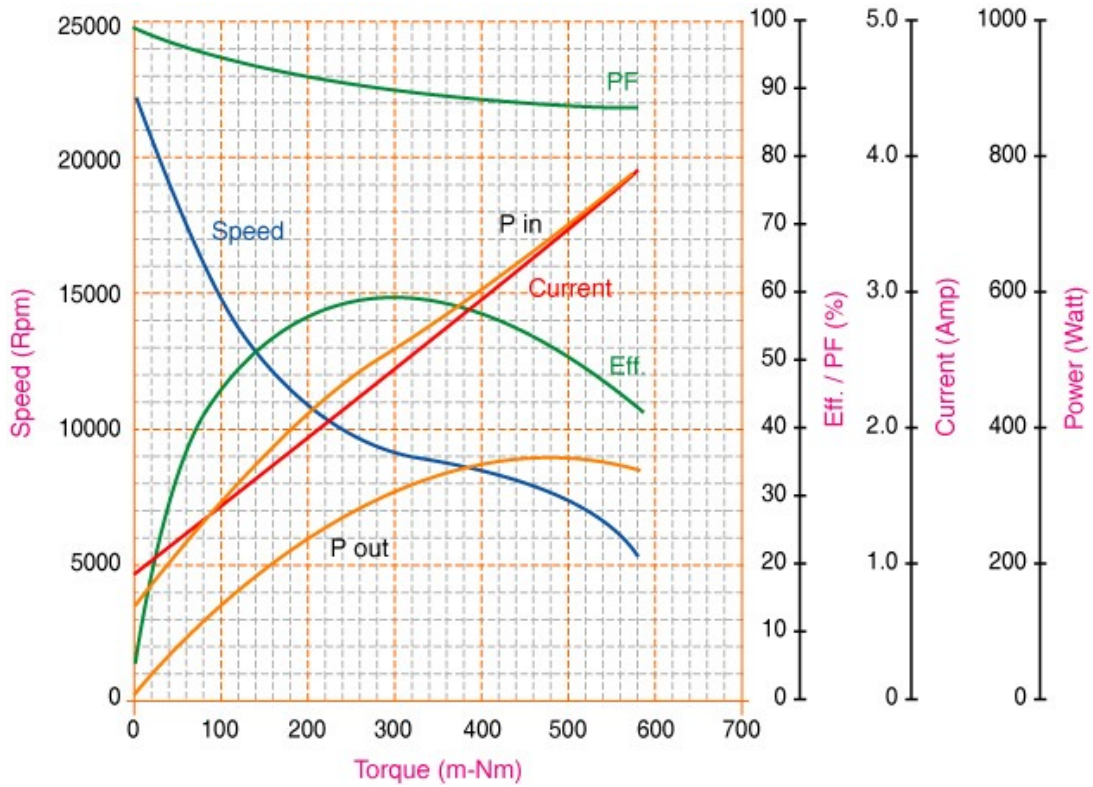
Application Examples:

Food Processors, Stand Mixers

Drawing:



Performance Curves:



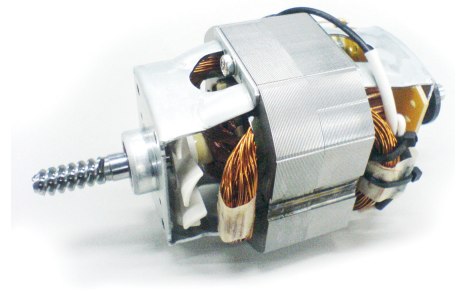
Units in Metric

Characteristics:

High Power

Specifications:

Shaft Diameter : Ø 10.000 mm
 Maximum Efficiency : 61 %
 Torque at Maximum Efficiency : 320.90 mNm
 Speed at Maximum Efficiency : 7994 rpm
 Output Power at Maximum Efficiency : 283 W
 Weight : 1490 g
 Electrical Connection : Leadwire
 Certification : RoHs



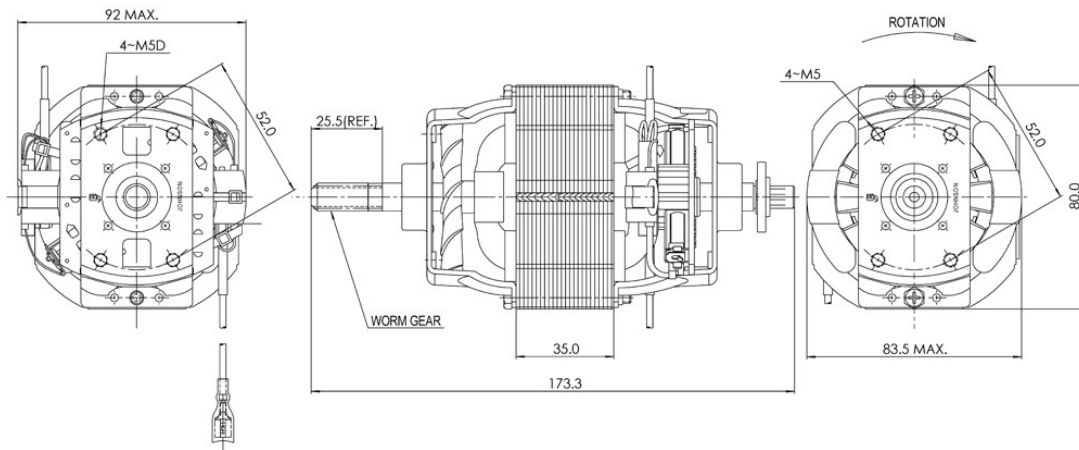
Performance Data:

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	1.71	2.70	5.18	7.09
Efficiency (%)	-	33	61	55
Output Power (W)	-	90.00	282.80	327.50
Speed (rpm)	22386	15000	7994	6341
Torque (mNm)	-	70.00	320.90	517.10

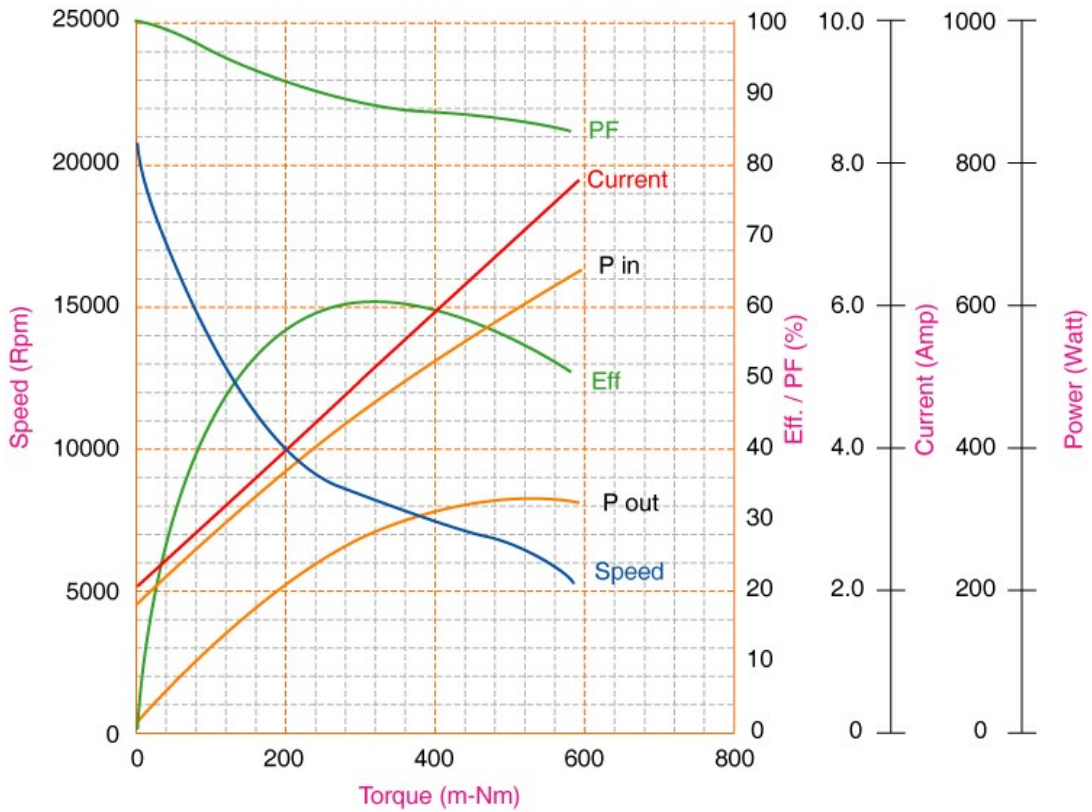
Application Examples:

Blenders, Commercial Blenders, Bar Blenders, Table Blenders

Drawing:



Performance Curves:



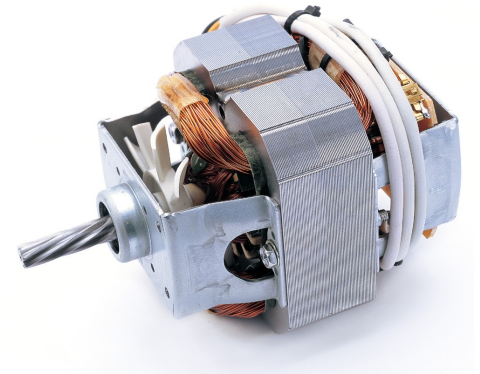
Units in Metric

Characteristics:

High Power

Specifications:

Dimensions : Ø 98.0 X 147.0 mm
 Shaft Diameter : Ø 8.000 mm
 Input Voltage : 230.0 V AC , 50 Hz
 Maximum Efficiency : 64 %
 Torque at Maximum Efficiency : 379.10 mNm
 Speed at Maximum Efficiency : 9529 rpm
 Weight : 1015 g
 Operation Temperature : -10 to 55 °C
 Storage Temperature : -20 to 100 °C
 Certification : CE



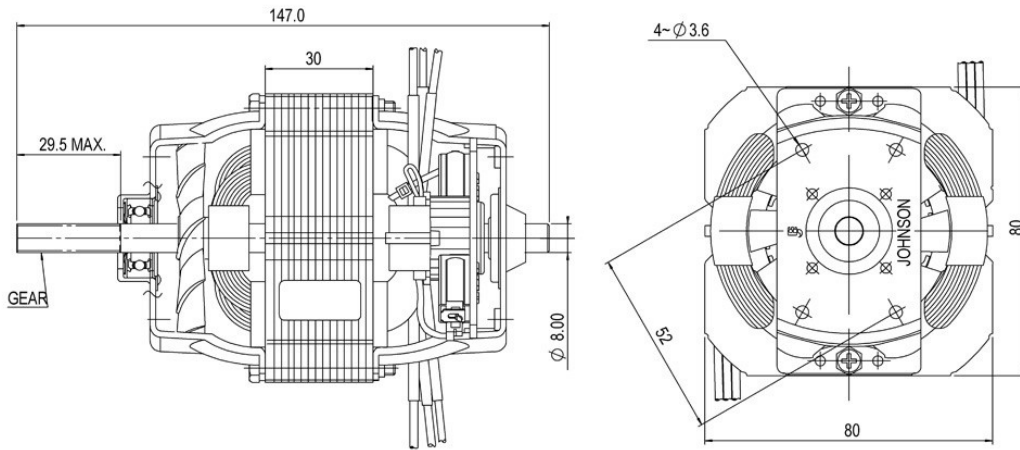
Performance Data:

	No Load	Typical Loading	Max Efficiency
Current (A)	0.76	2.05	2.84
Efficiency (%)	-	-	64
Output Power (W)	-	349.90	379.10
Speed (rpm)	21800	11000	9259
Torque (mNm)	-	301.10	391.00

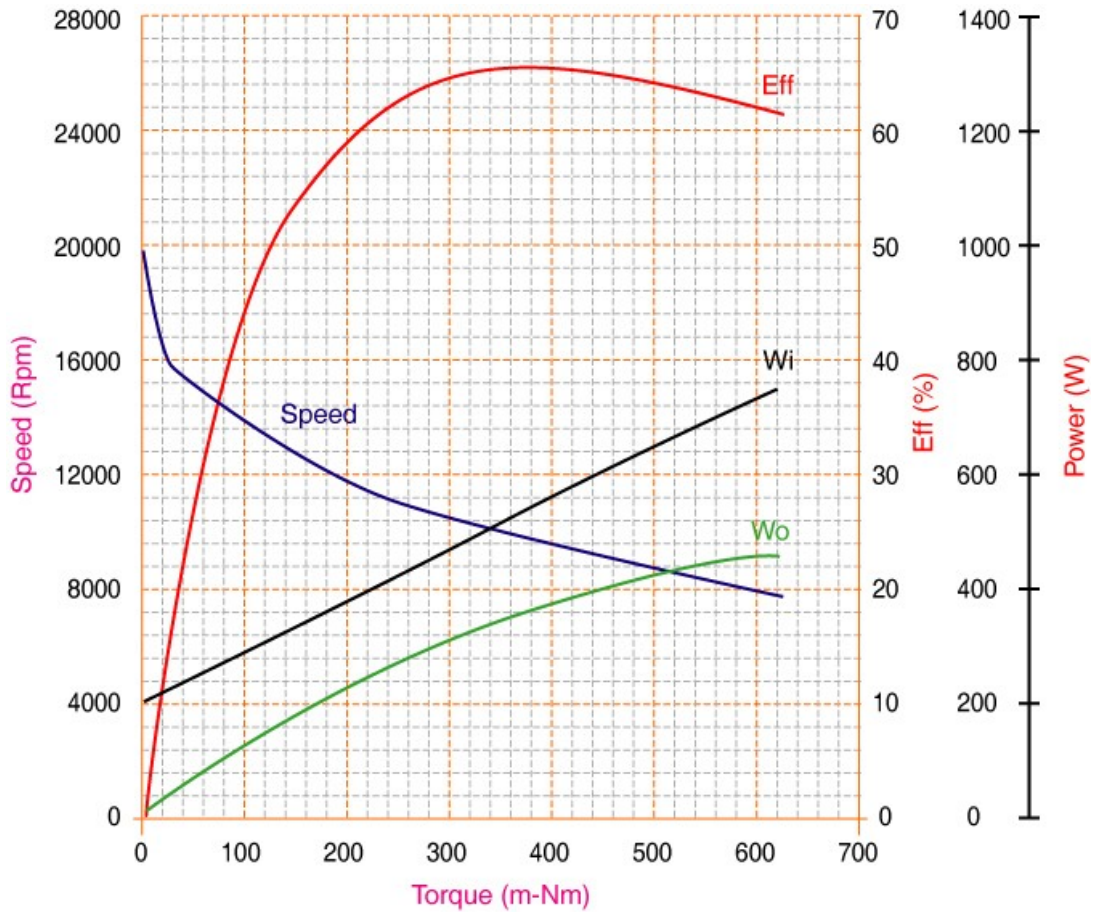
Application Examples:

Blenders, Commercial Blenders, Bar Blenders, Table Blenders

Drawing:



Performance Curves:



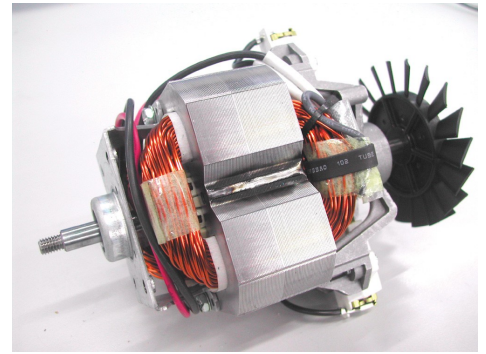
Units in Metric

Characteristics:

High Power

Specifications:

Dimensions : Ø 98.0 X 166.0 mm
 Shaft Diameter : Ø 8.000 mm
 Input Voltage : 120.0 V AC , 120 Hz
 Maximum Efficiency : 66 %
 Torque at Maximum Efficiency : 586.34 mNm
 Speed at Maximum Efficiency : 12701 rpm
 Weight : 1680 g
 Operation Temperature : -10 to 55 °C
 Storage Temperature : -20 to 100 °C
 Certification : UL



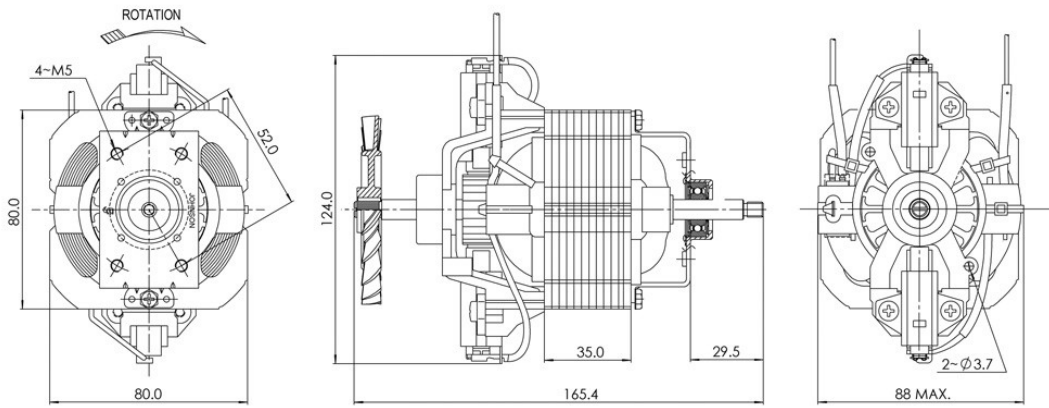
Performance Data:

	No Load	Typical Loading	Max Efficiency
Current (A)	3.96	9.50	10.59
Efficiency (%)	-	65	66
Output Power (W)	-	678.10	781.90
Speed (rpm)	21780	13000	12701
Torque (mNm)	-	542.10	542.10

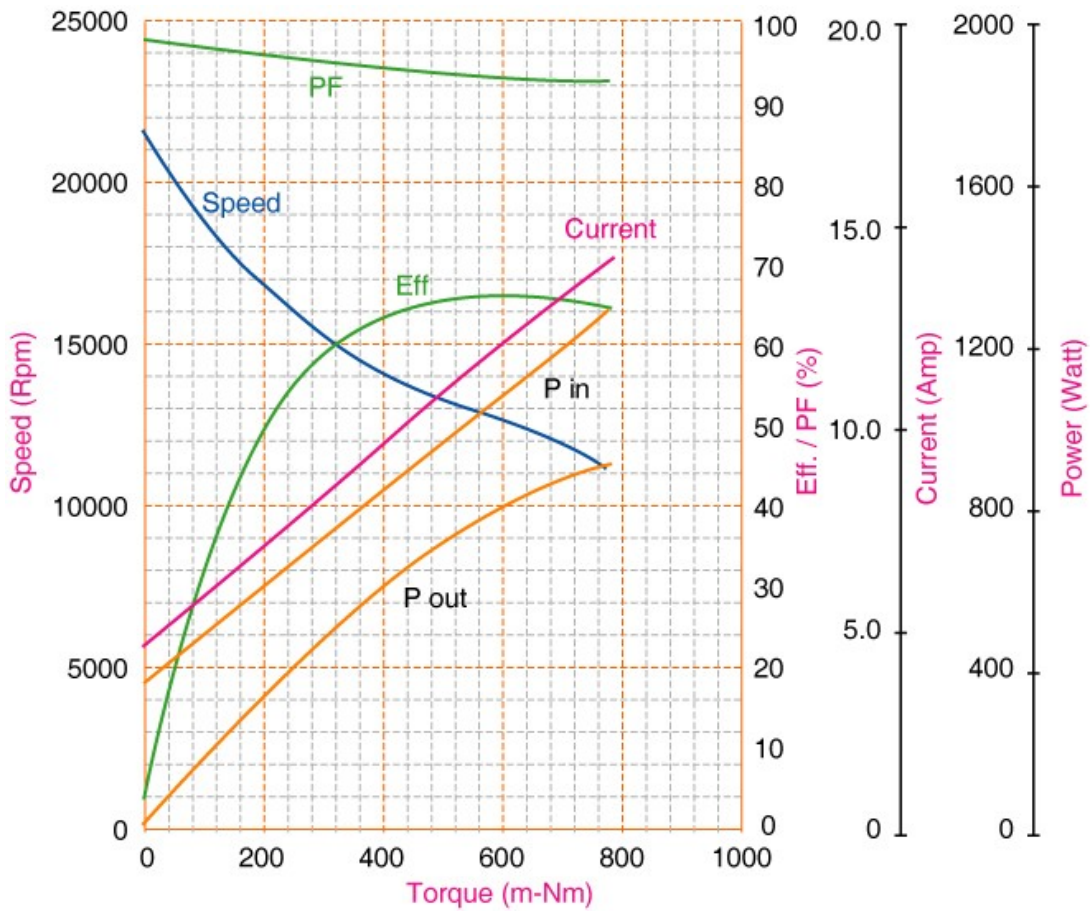
Application Examples:

Blenders, Commercial Blenders, Bar Blenders, Table Blenders

Drawing:



Performance Curves:



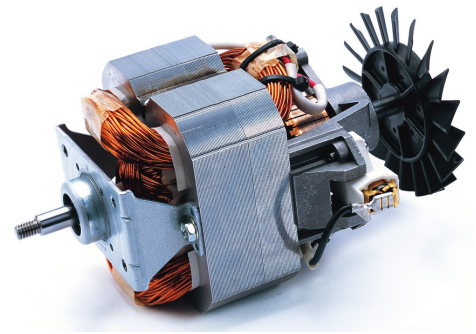
Units in Metric

Characteristics:

High Power

Specifications:

Dimensions	: Ø 98.0 X 166.0 mm
Shaft Diameter	: Ø 8.000 mm
Input Voltage	: 240.0 V AC , 50 Hz
Maximum Output Power	: 847.48 W
Maximum Efficiency	: 63 %
Torque at Maximum Efficiency	: 562.35 mNm
Speed at Maximum Efficiency	: 12488 rpm
Output Power at Maximum Efficiency	: 734 W
Weight	: 1683 g
Operation Temperature	: -10 to 55 °C
Storage Temperature	: -20 to 80 °C
Electrical Connection	: Lead Wire
Certification	: CE, RoHS



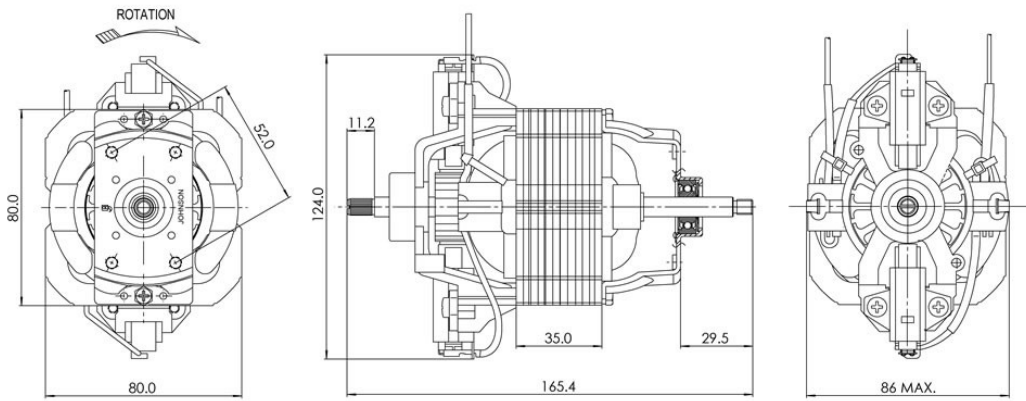
Performance Data:

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	2.02	4.20	5.09	6.23
Efficiency (%)	-	60	63	61
Output Power (W)	-	609.10	733.65	847.58
Speed (rpm)	22141	12892	12488	10325
Torque (mNm)	-	542.10	562.35	800.00

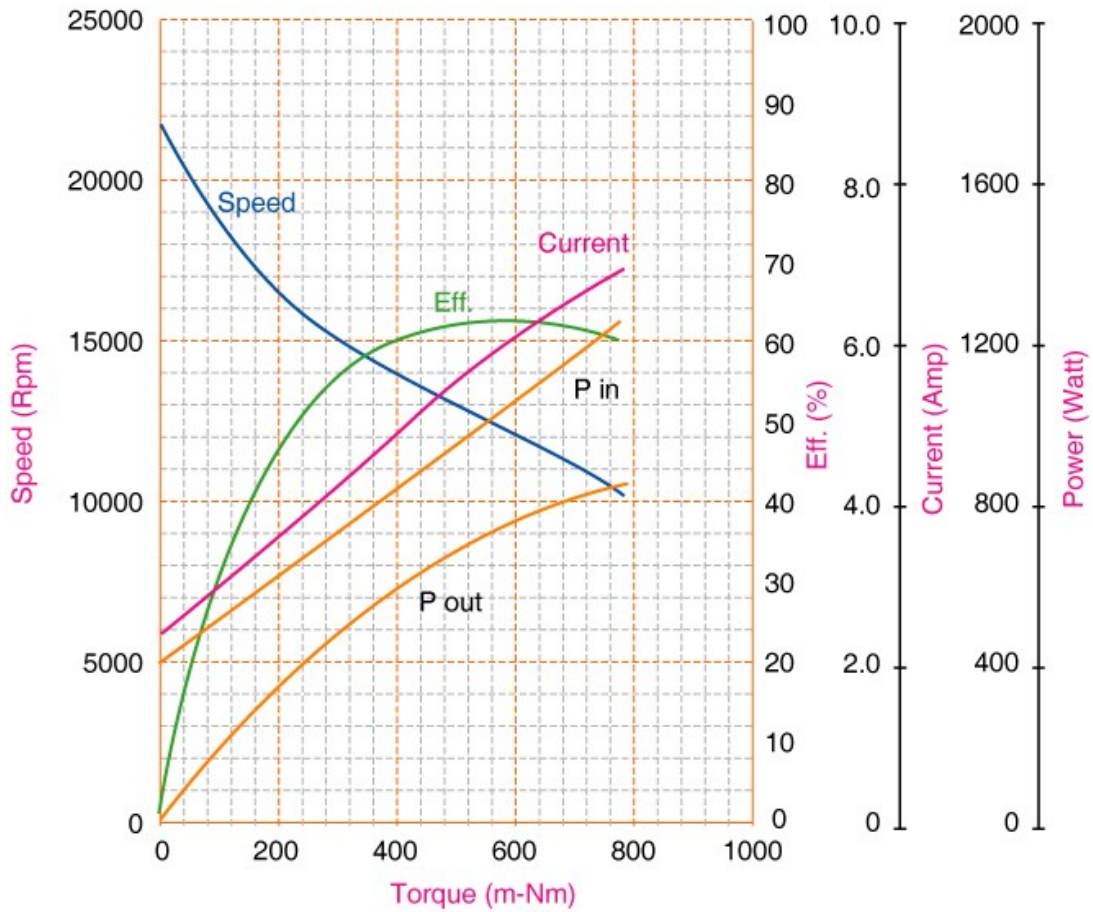
Application Examples:

Blenders, Commercial Blenders, Bar Blenders, Table Blenders, Stand Mixer

Drawing:



Performance Curves:



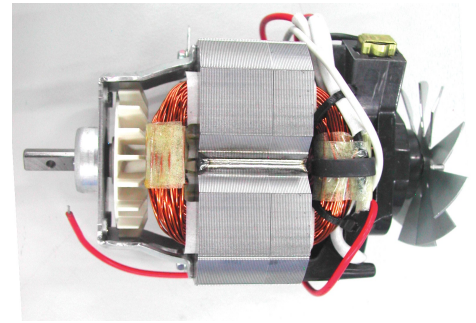
Units in Metric

Characteristics:

High Power

Specifications:

Shaft Diameter : Ø 8.000 mm
 Maximum Efficiency : 65 %
 Torque at Maximum Efficiency : 412.00 mNm
 Speed at Maximum Efficiency : 9363 rpm
 Output Power at Maximum Efficiency : 416 W
 Weight : 1690 g
 Electrical Connection : Leadwire
 Certification : UL, RoHs



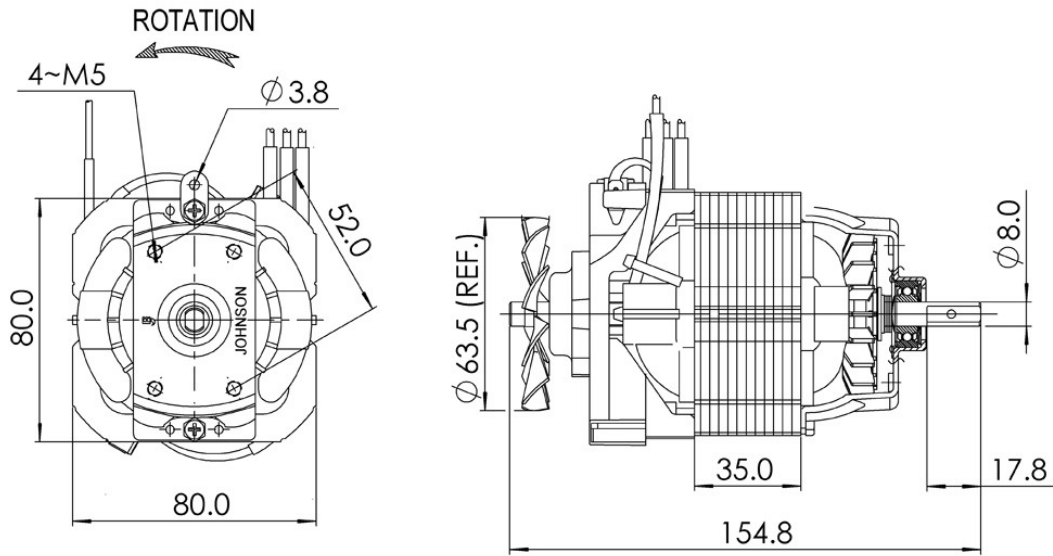
Performance Data:

	No Load	Typical Loading	Max Efficiency	Max Power
Current (A)	2.18	5.57	5.74	8.44
Efficiency (%)	-	65	65	57
Output Power (W)	-	400.50	415.63	506.00
Speed (rpm)	19736	9746	9363	6824
Torque (mNm)	-	400.00	412.00	721.00

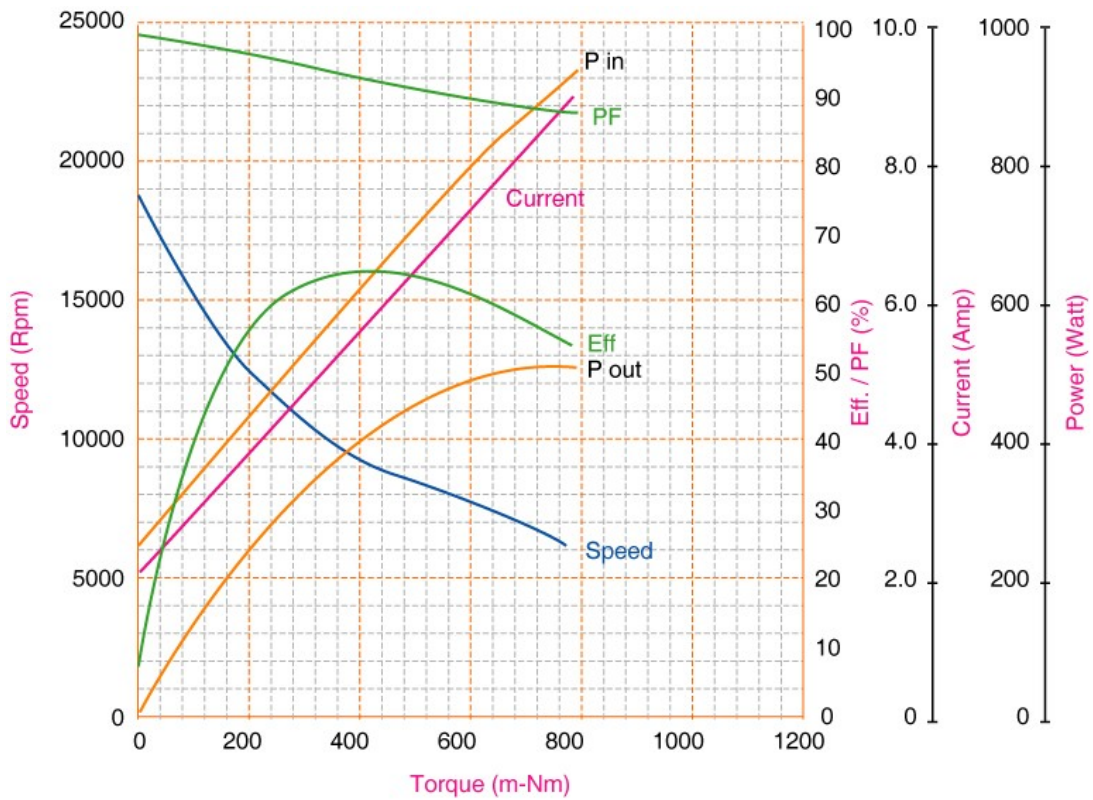
Application Examples:

Commercial Blenders, Table Blenders, Bar Blenders

Drawing:



Performance Curves:



Units in Metric