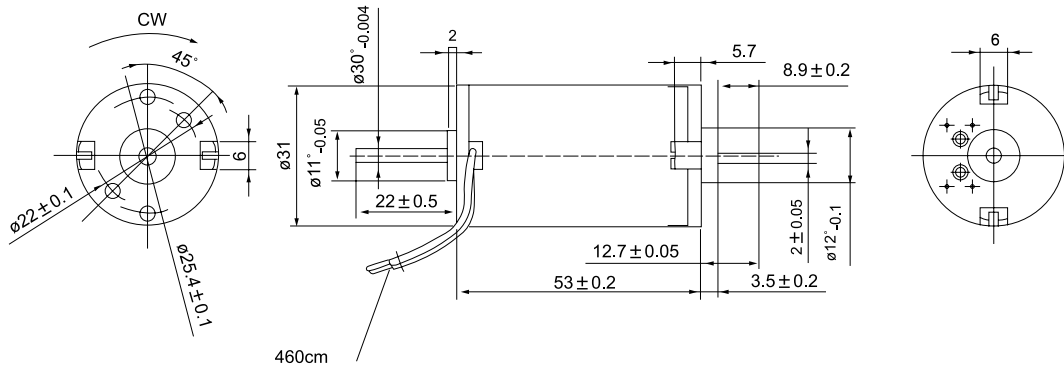


31SYT005

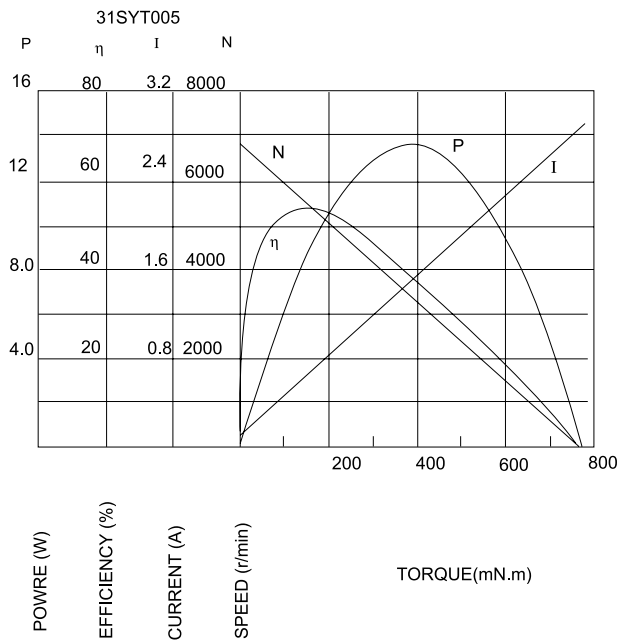
Electrical Specifications:

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
31SYT005	15~35	24	7000	0.095	5980	0.462	9.8	6.14	55.4	75.4	2.87

Dimensions:



Speed-Torque Curve:

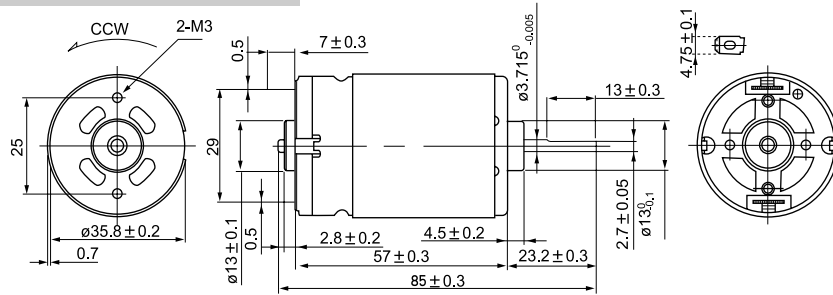


36ZYT001, 36ZYT003

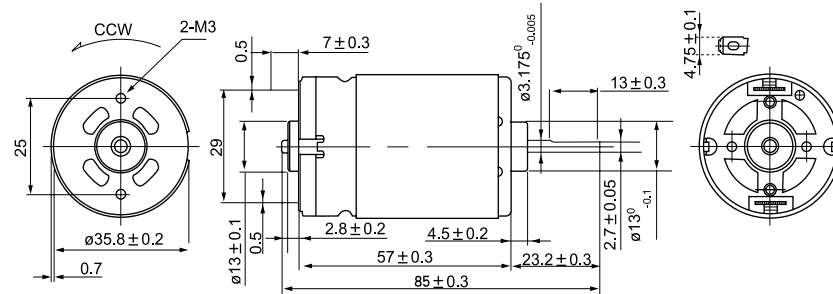
Electrical Specifications:

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
36ZYT001	9-15	13	7000	0.26	5886	1.67	24.5	15.1	69.7	157.1	9.1
36ZYT003	15-30	24	3400	0.07	2870	0.37	19.5	5.89	66.3	125.8	1.99

Dimensions:



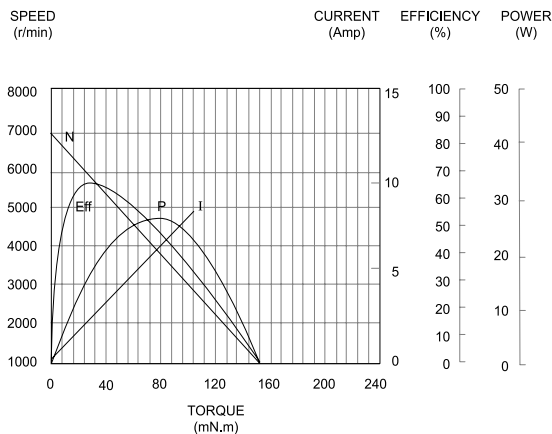
36ZYT001



36ZYT003

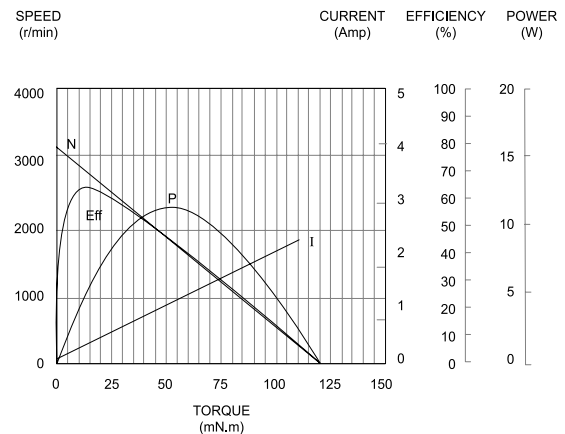
Speed-Torque Curve:

36ZYT001 13V DC



36ZYT001

36ZYT003 13V DC



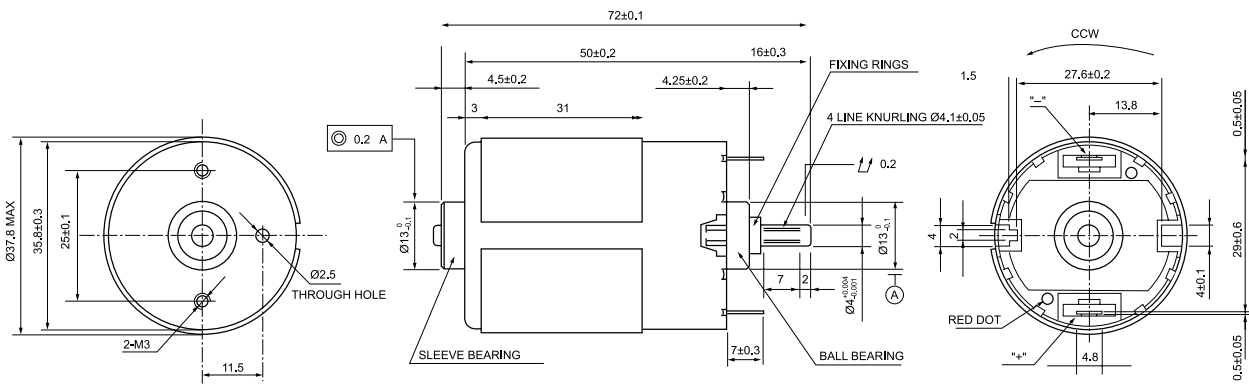
36ZYT003

36ZYT008-3B

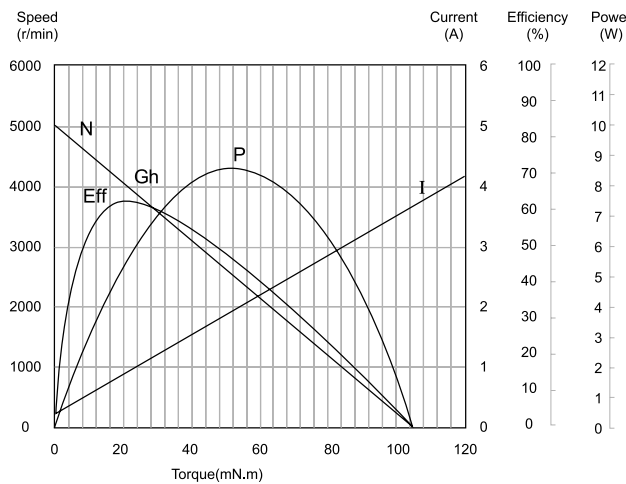
Electrical Specifications:

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
36ZYT008-3B	9-15	12	5000	0.25	4055	0.85	21	8.73	62.3	105	3.65

Dimensions:



Speed-Torque Curve:

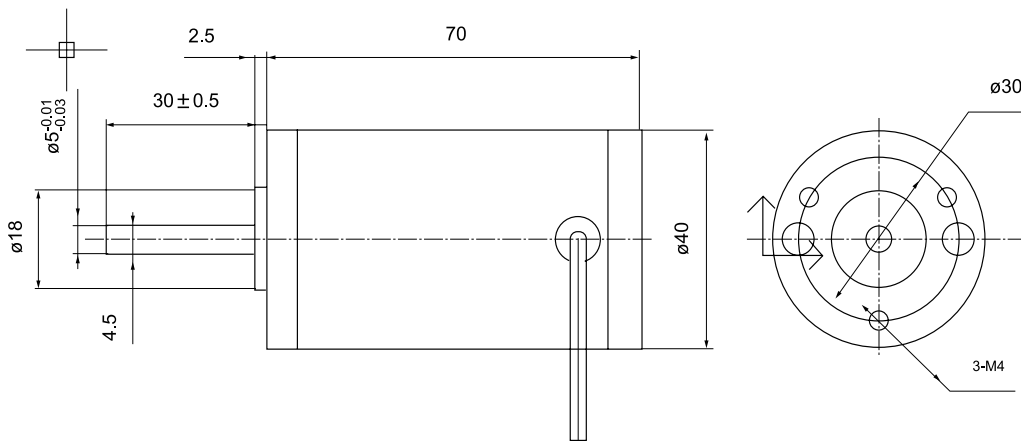


40ZYN001

Electrical Specifications:

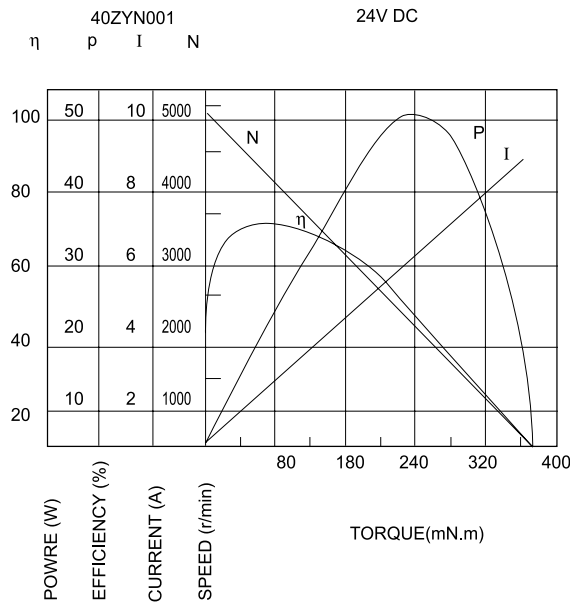
MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
40ZYN001	18~25	24	5235	0.24	2960	3.6	49	23.28	68.1	368.8	9.12

Dimensions:



40ZYN001

Speed-Torque Curve:



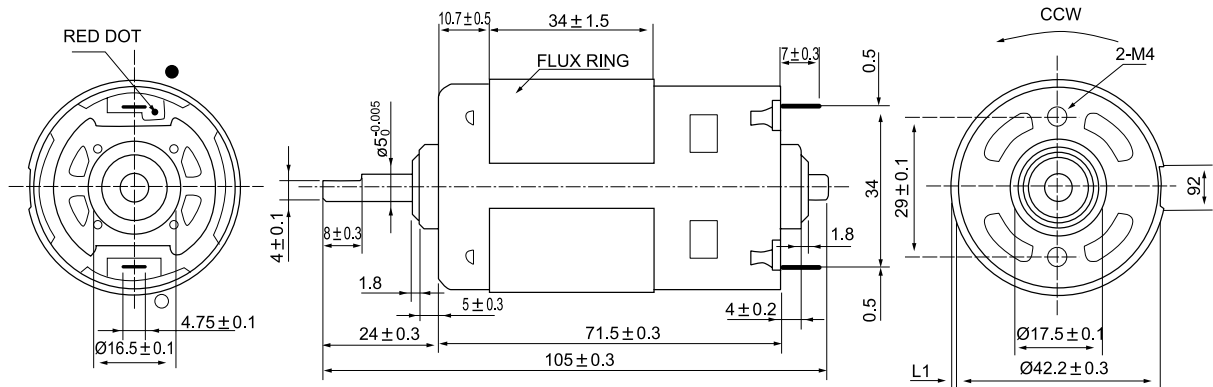
40ZYN001

42ZYT002

Electrical Specifications:

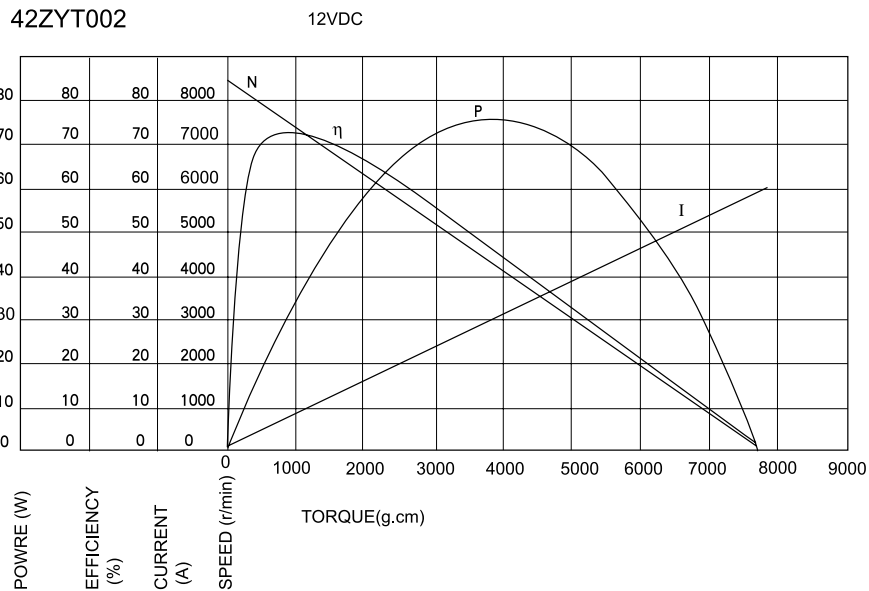
MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
42ZYT002	9-15	12	8500	1.1	7481	7.8	88.5	70	72	760	60

Dimensions:



42ZYT002

Speed-Torque Curve:

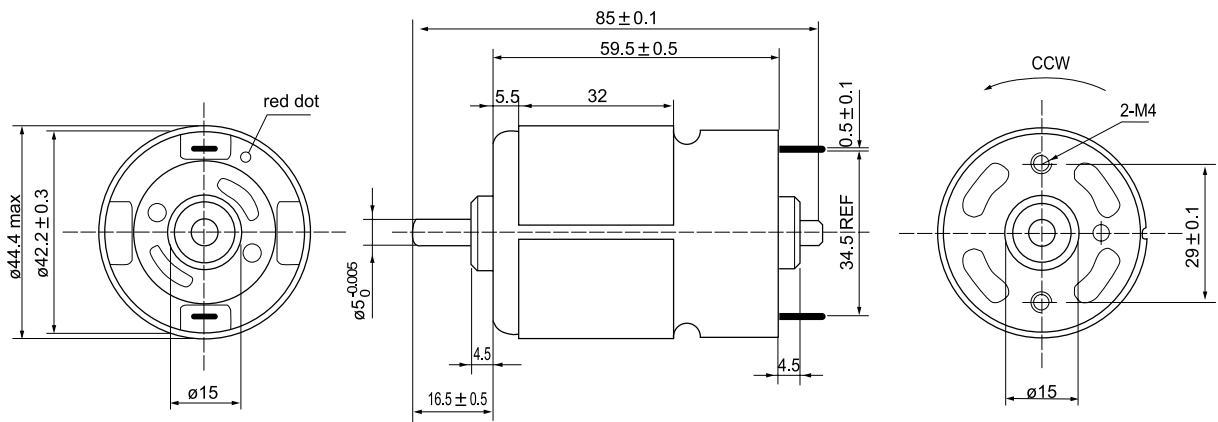


42ZYT006

Electrical Specifications:

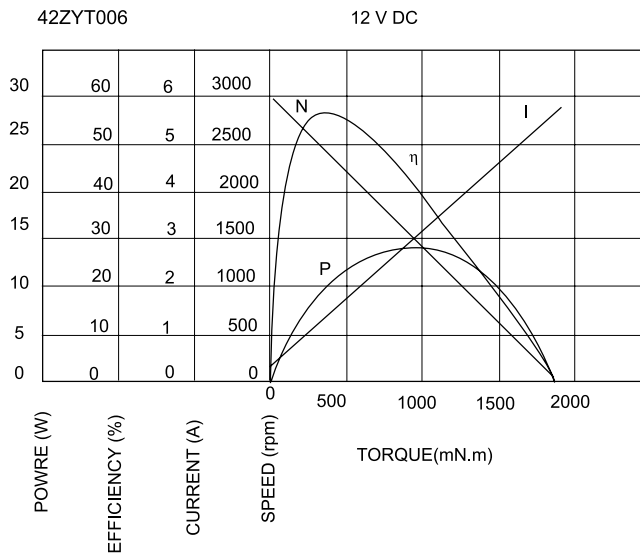
MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	v	v	r/min	A	r/min	A	mN.m	W	%	mN.m	A
42ZYT006	9~15	12	3000	0.34	2402	1.36	36.6	9.2	56.4	184	5.8

Dimensions:



42ZYT006

Speed-Torque Curve:



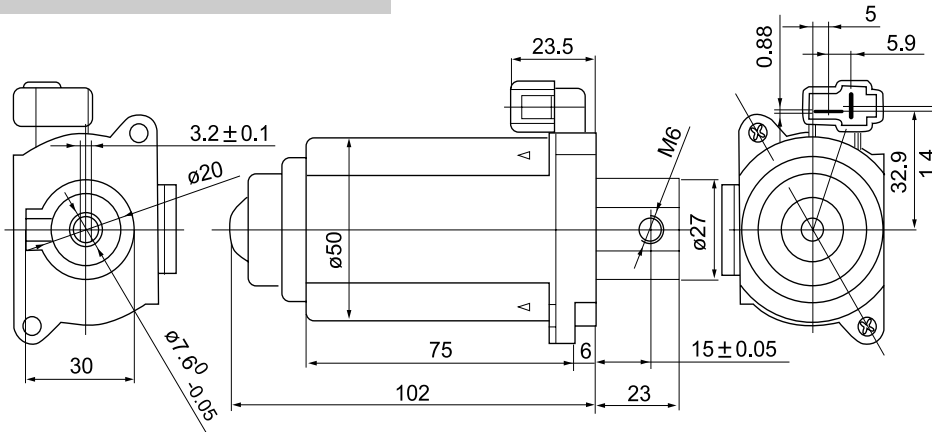
42ZYT006

50ZYT001

Electrical Specifications:

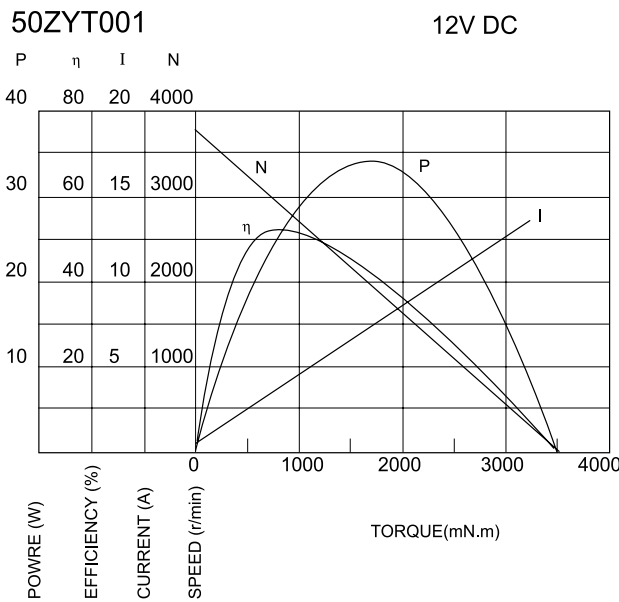
MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
50ZYT001	9-15	12	3758	1	2960	3.6	74	22.70	52.8	346	13.16

Dimensions:



50ZYT001

Speed-Torque Curve:



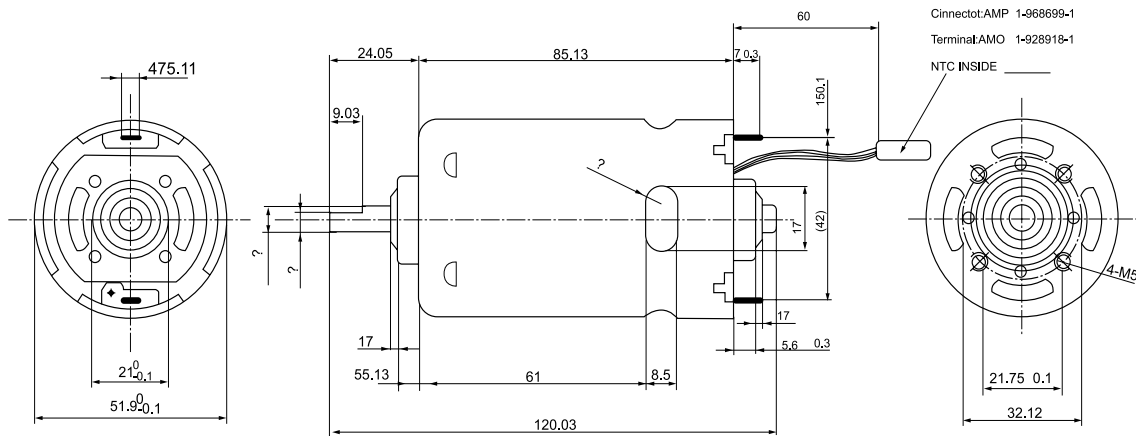
50ZYT001

52ZYT001

Electrical Specifications:

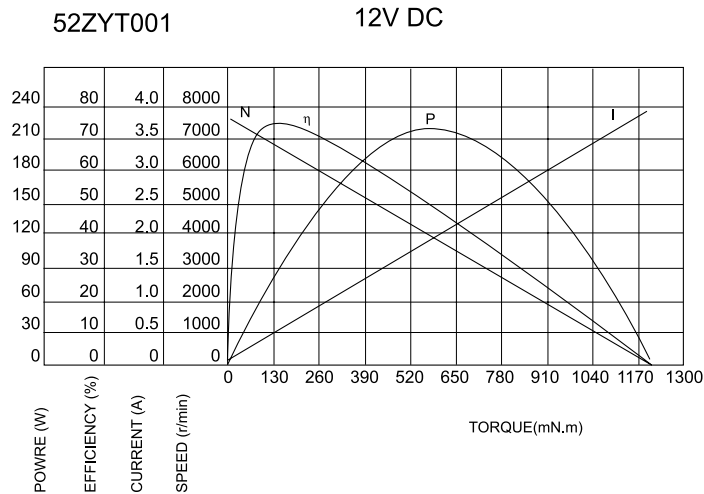
MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
52ZYT001	9-15	12	7600	1.3	6700	11.63	150	103	75	1170	83

Dimensions:



52ZYT001

Speed-Torque Curve:



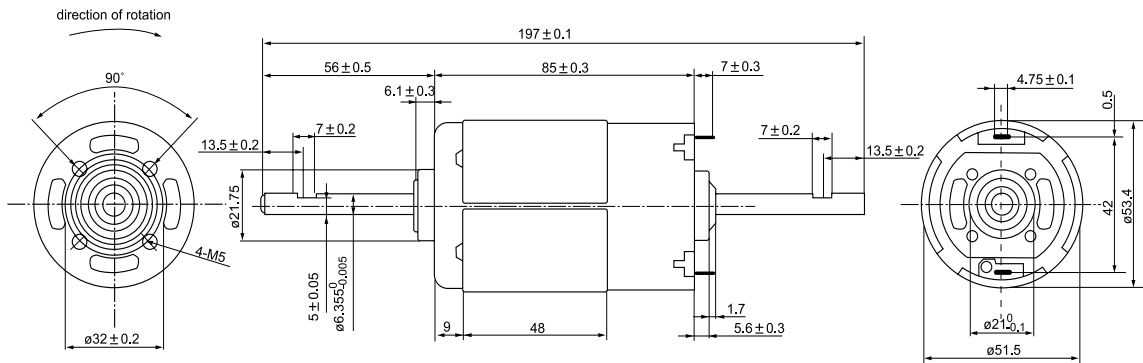
52ZYT001

52ZYT003

Electrical Specifications:

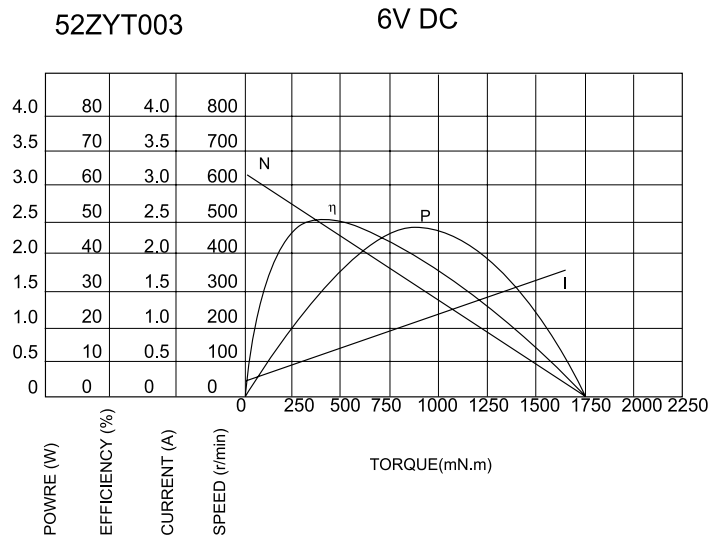
MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
52ZYT003	3-20	6	630	0.22	480	0.82	49	2.36	52	184	1.8

Dimensions:



52ZYT003

Speed-Torque Curve:



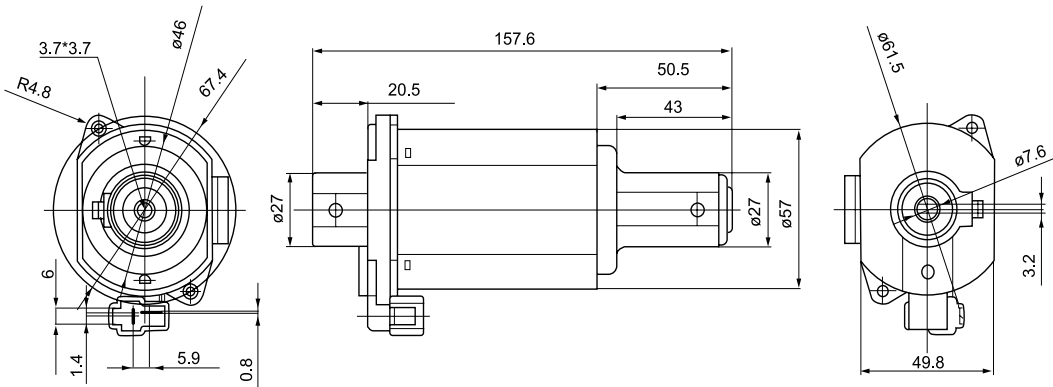
52ZYT003

57ZYT001

Electrical Specifications:

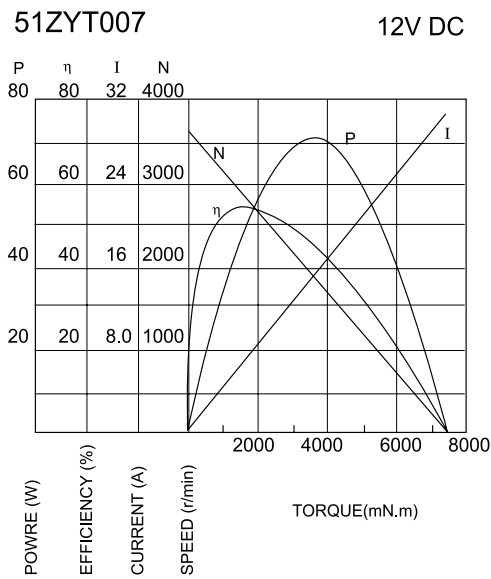
MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
57ZYT001	9-15	12	3630	1.3	3027	6.26	127.5	40.35	53.7	740	30

Dimensions:



57ZYT001

Speed-Torque Curve:



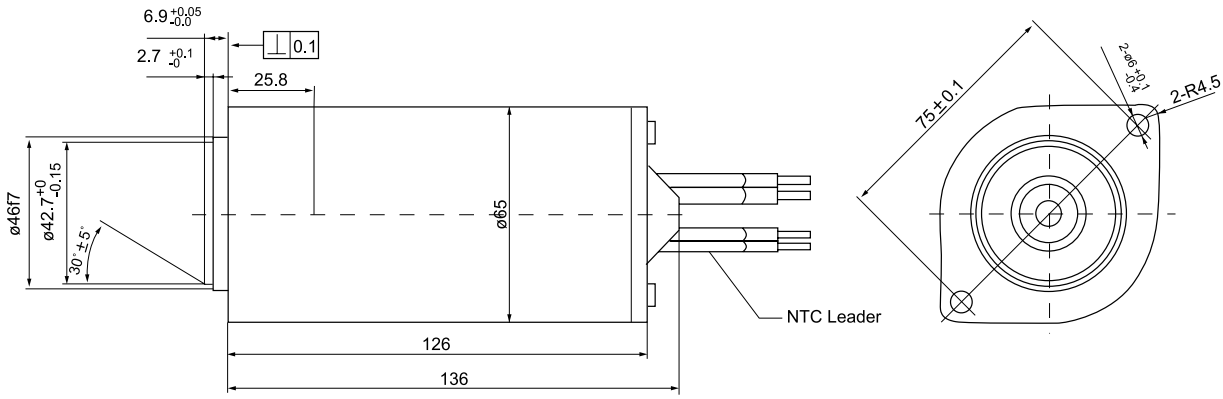
57ZYT001

63ZYT003

Electrical Specifications:

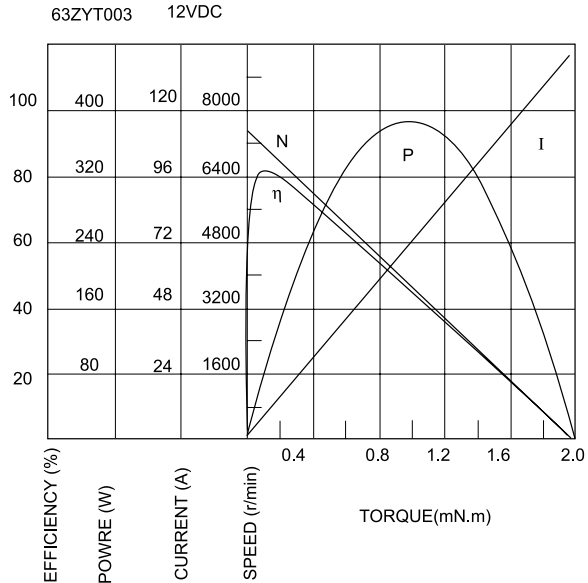
MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
63ZYT003	3-15	12	7500	5	6700	16	200	145	75	1900	140

Dimensions:



63ZYT003

Speed-Torque Curve:



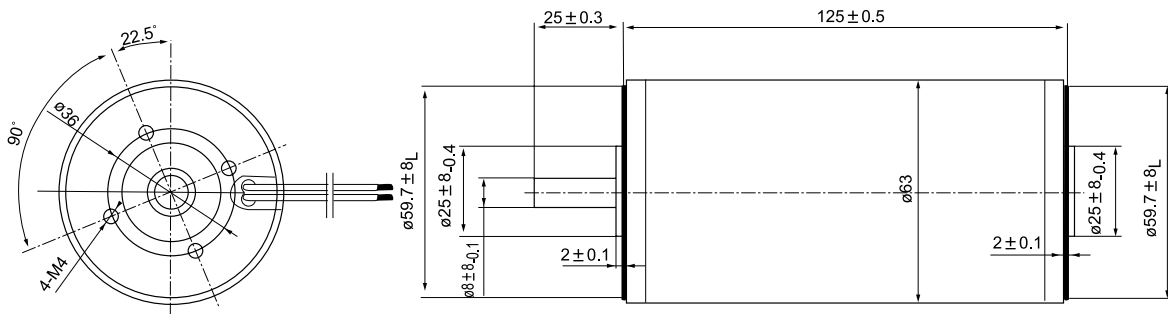
63 ZYT003

63ZYT004

Electrical Specifications:

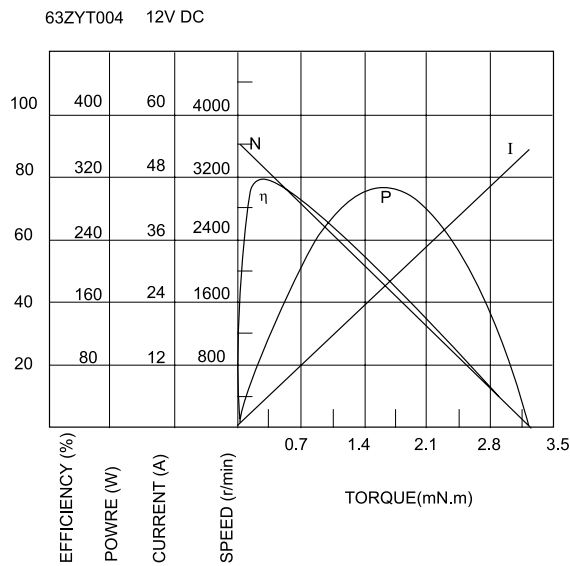
MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
63ZYT004	18-30	24	3600	0.5	3300	4.9	270	95	79	3240	53.3

Dimensions:



63ZYT004

Speed-Torque Curve:



63ZYT004

X63ZYT001

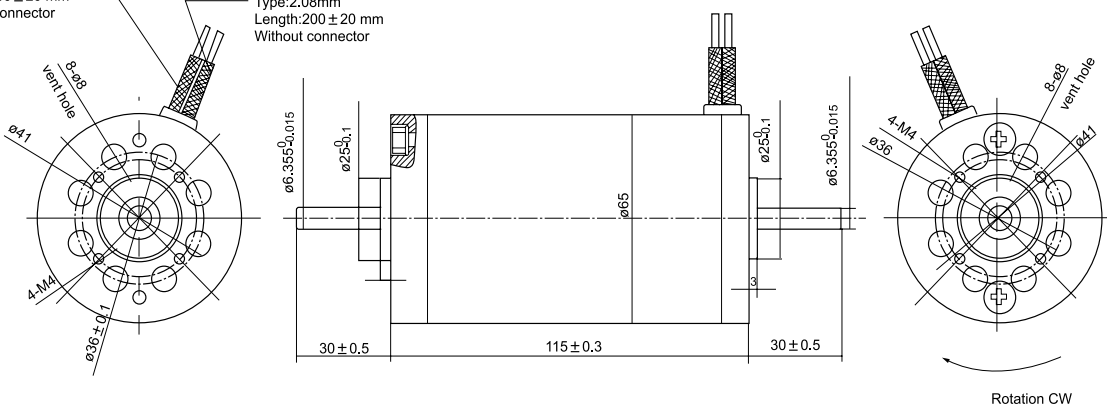
Electrical Specifications:

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
X63ZYT001	15~26	24	6000	2	4900	8	260	135	70	1420	35

Dimensions:

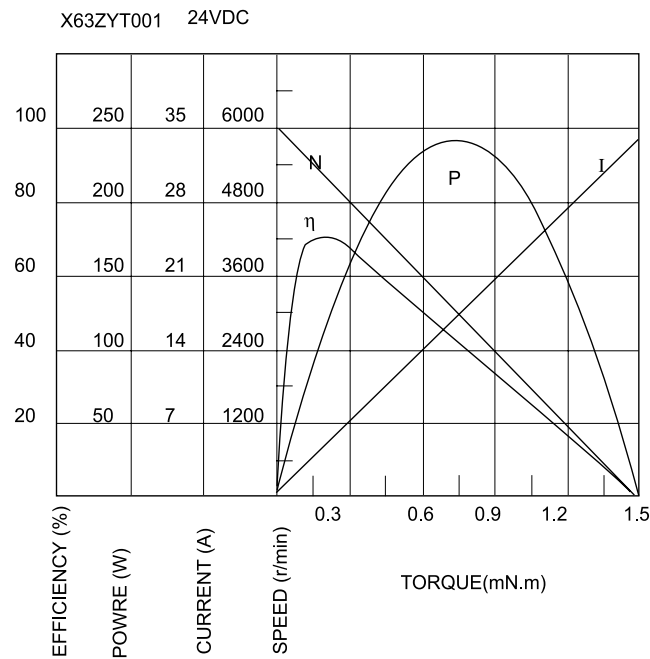
Color:red
Polarity:negative
Type:2.08mm
Length:200±20 mm
Without connector

Color:red
Polarity:positive
Type:2.08mm
Length:200±20 mm
Without connector



X63ZYT001

Speed-Torque Curve:



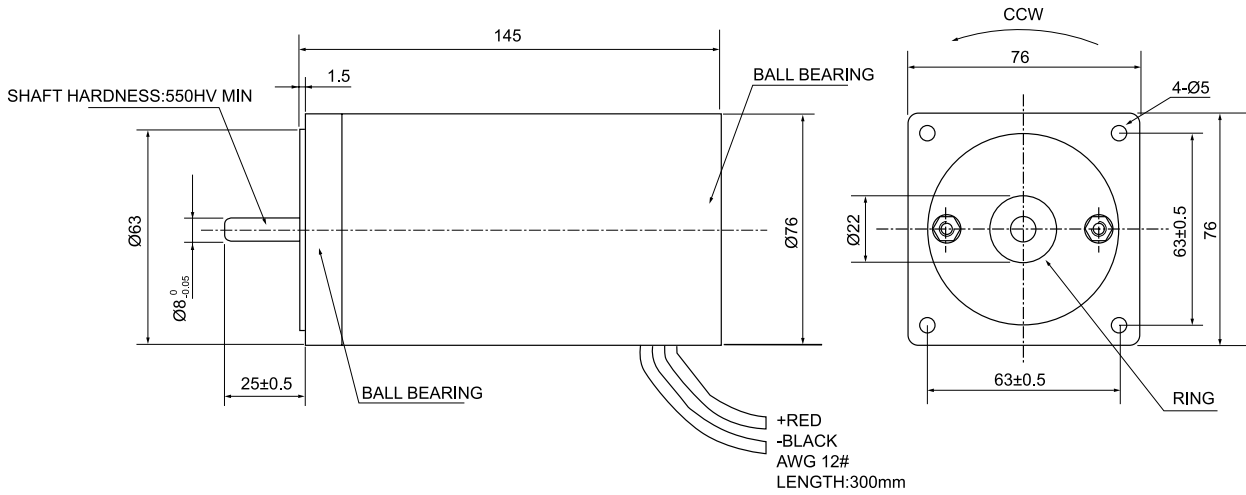
X63ZYT001

76ZYT016

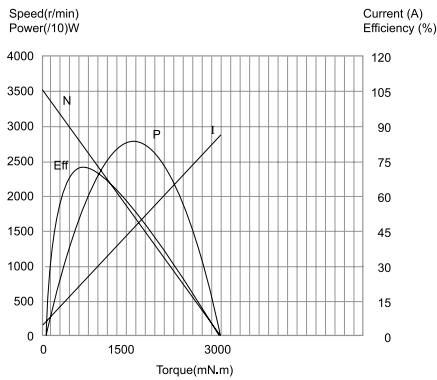
Electrical Specifications:

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL		AT MAXIMUM OUTPUT				
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A	r/min	A	mN.m	W	%
76ZYT016	9-15	12	3450	6	2714	21.8	640	178	68	3000	80	1725	43	1500	265.8	/

Dimensions:



Speed-Torque Curve:



Motor tested rapidly to prevent significant temperature rise

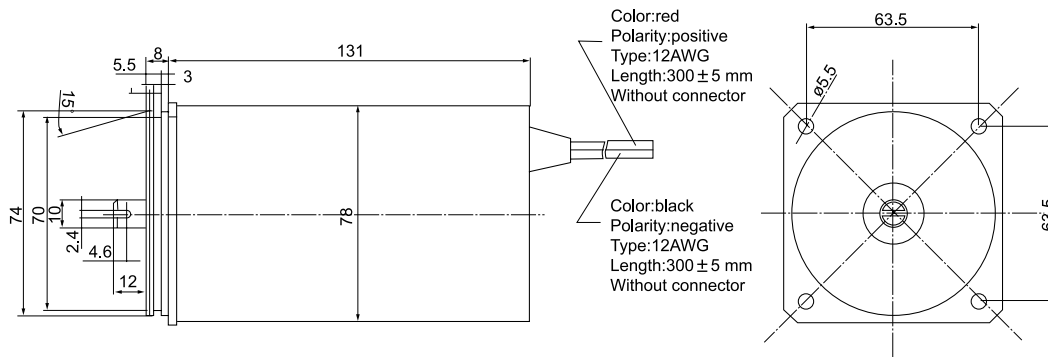
At a constant voltage of	12 V
With a circuit resistance	0 Ω
At No Load	
Speed	3450 r/min
Current	6 A
At Stall	
Torque	3000 mN.m
Current	80 A
At Maximum Efficiency	
Efficiency	68 %
Torque	640 mN.n
Speed	2714 r/min
Current	21.8 A
Output	178 W
At Maximum Power	
Torque	1500 mN.n
Speed	1725 r/min
Current	43 A
Output	265.8 W

78ZYT001

Electrical Specifications:

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
78ZYT001	18~30	24	3500	3	2800	121	700	205.25	70.68	3500	48.5

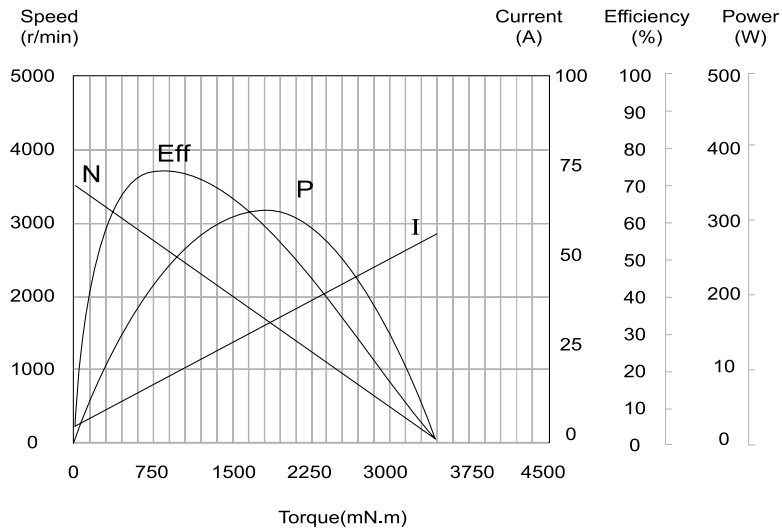
Dimensions:



78ZYT001

Speed-Torque Curve:

78ZYT001 24V DC

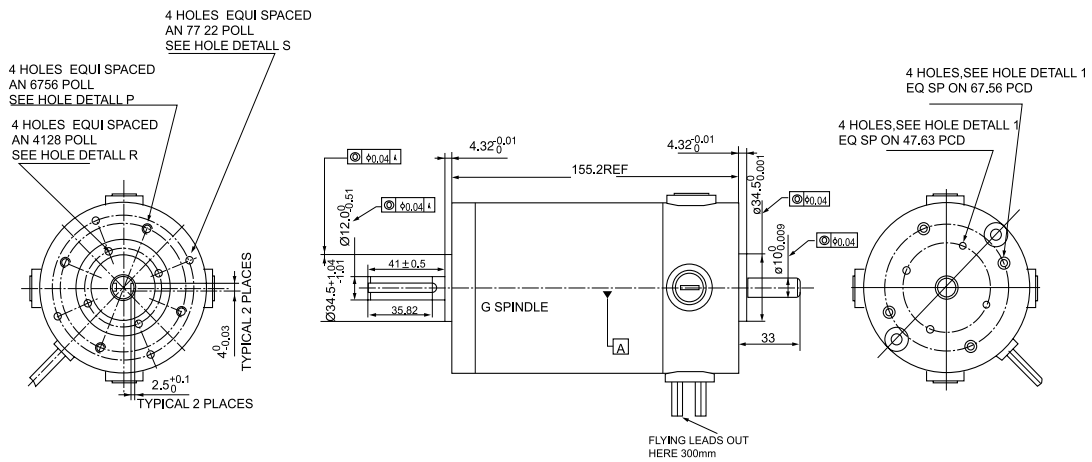


PM90

Electrical Specifications:

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	v	v	r/min	A	r/min	A	mN.m	W	%	mN.m	A
PM90	18~30	24	4200	3	3783	33.2	1500	594.3	74.5	15120	307.5

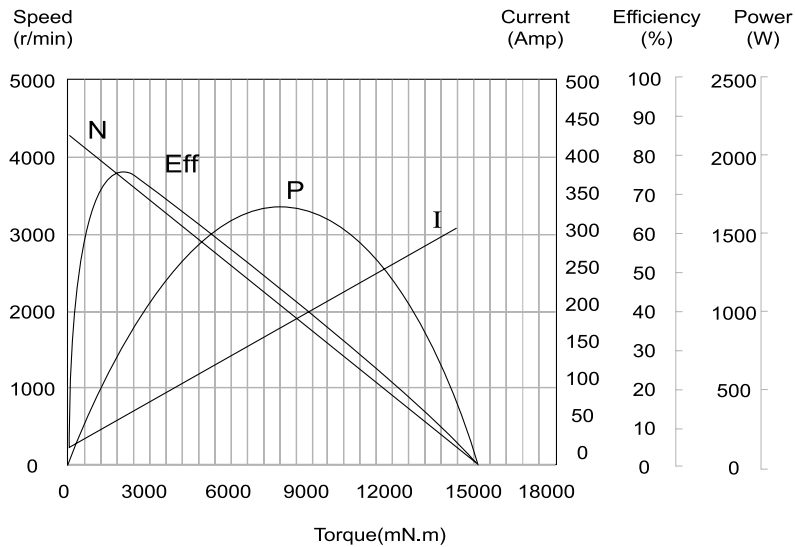
Dimensions:



PM90

Speed-Torque Curve:

PM90 24V DC

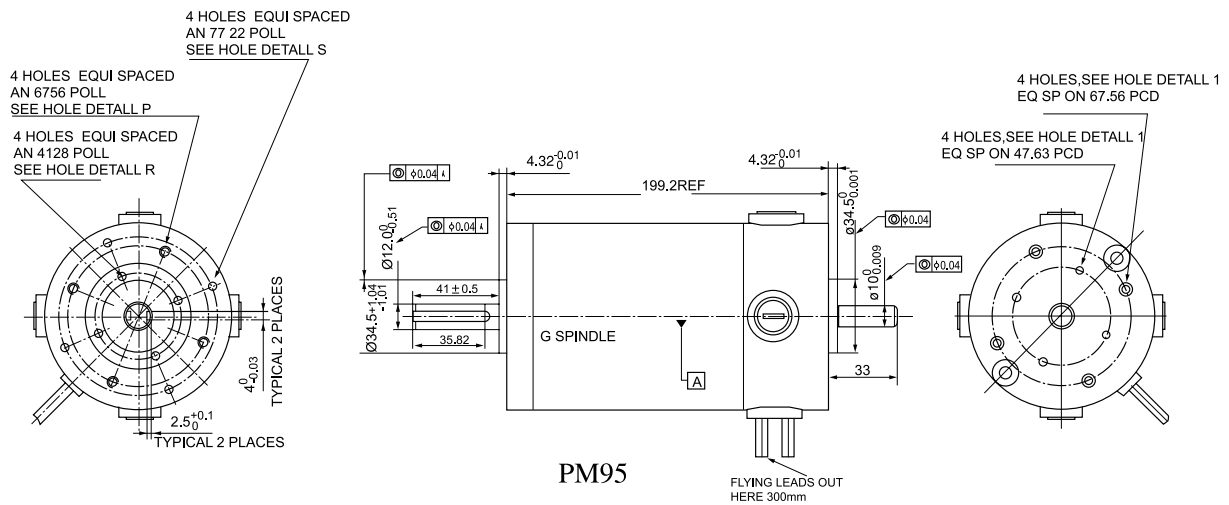


PM95

Electrical Specifications:

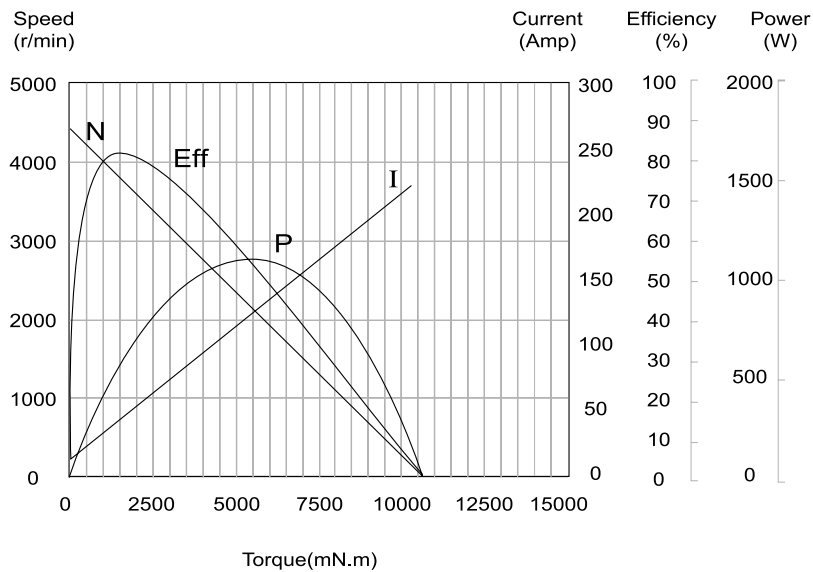
MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
PM95	18~30	24	4450	3	4033	20.86	1000	422.4	84.3	10680	193.75

Dimensions:



Speed-Torque Curve:

PM95 24V DC

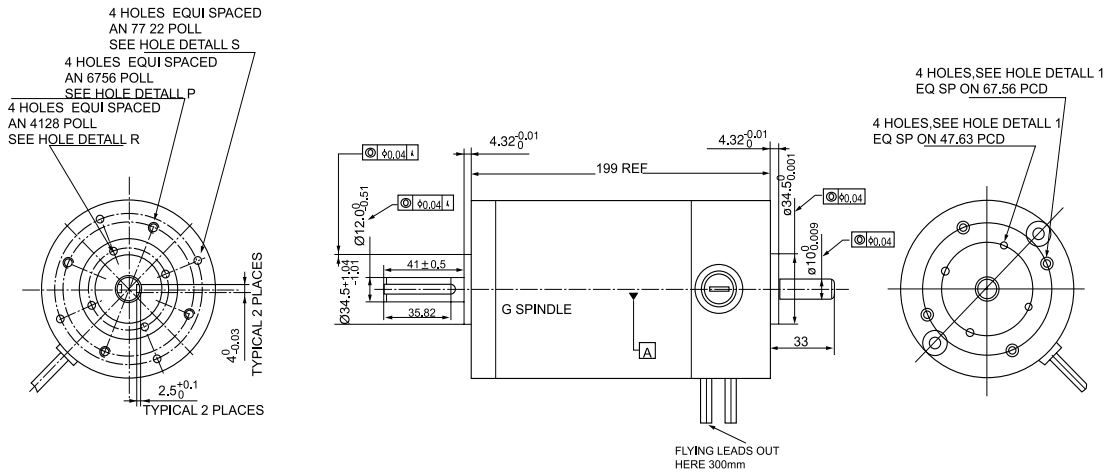


PM110

Electrical Specifications:

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
	V	V	r/min	A	r/min	A	mN.m	W	%	mN.m	A
PM110	18~30	24	4200	5	3700	87.87	3000	1214	84	37800	701

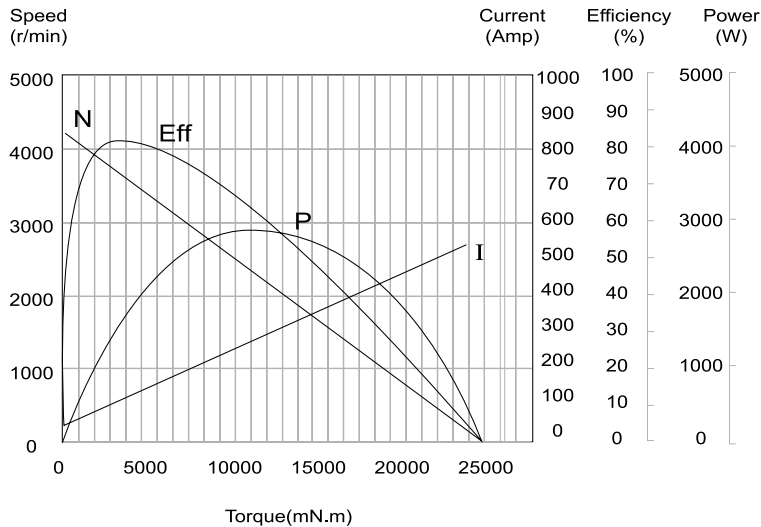
Dimensions:



PM110

Speed-Torque Curve:

PM110 24V DC



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