

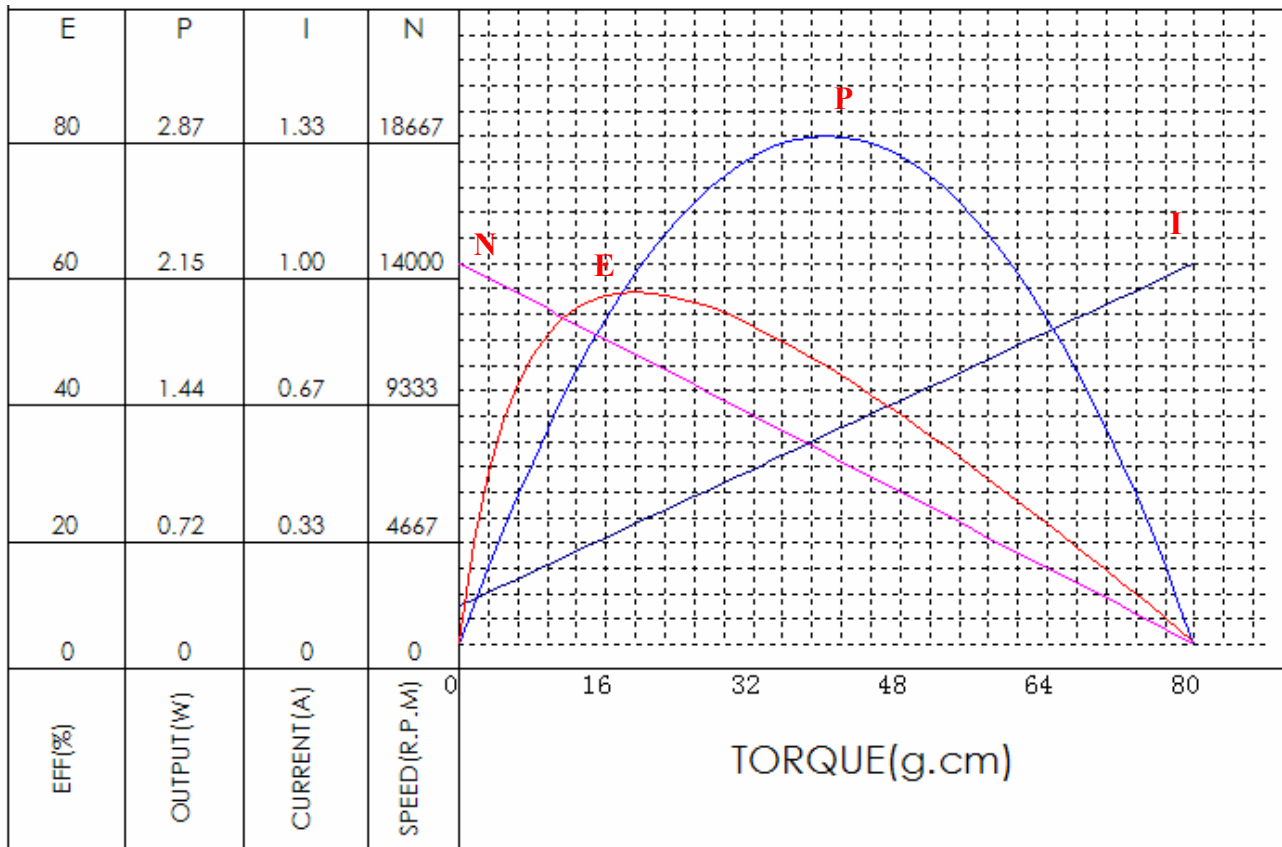
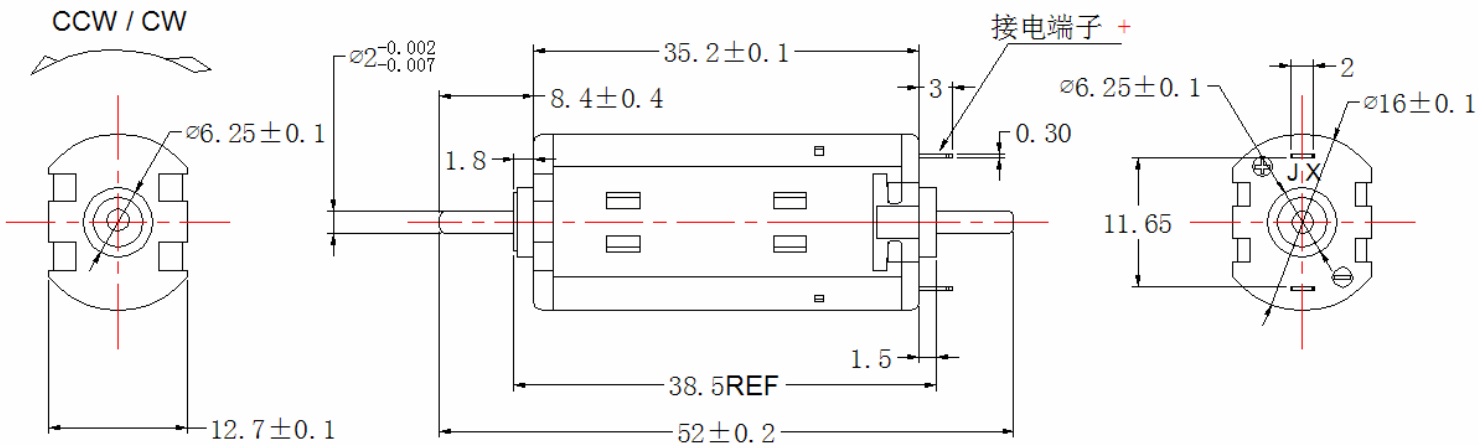
HO Motor

MODEL:1443-E1294-52 (5 POLES)



Typical Applications: Toy train, Train Model.

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
14000	100	320	10500	20	2.15	80	1.0	75	2.0
± 10%	120MAX	REF	REF	REF	REF	75min	0.9MIN	70max	3.0MAX

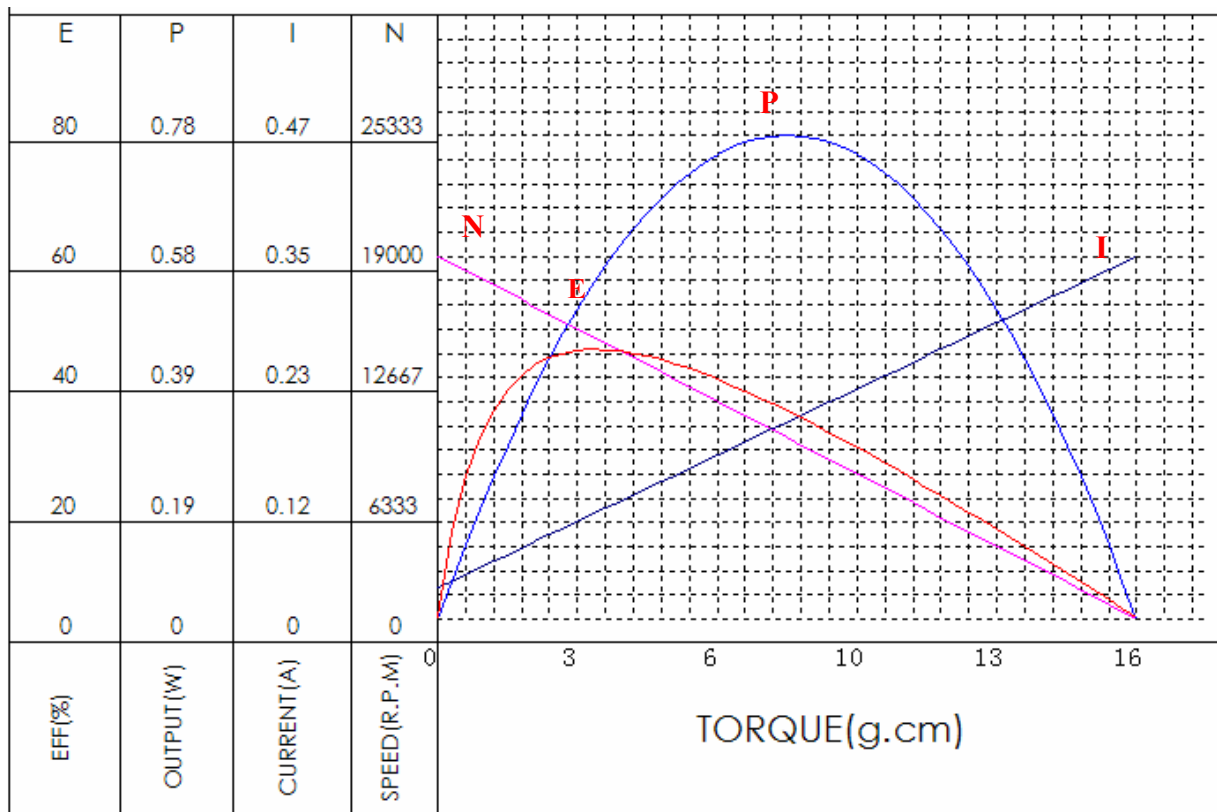
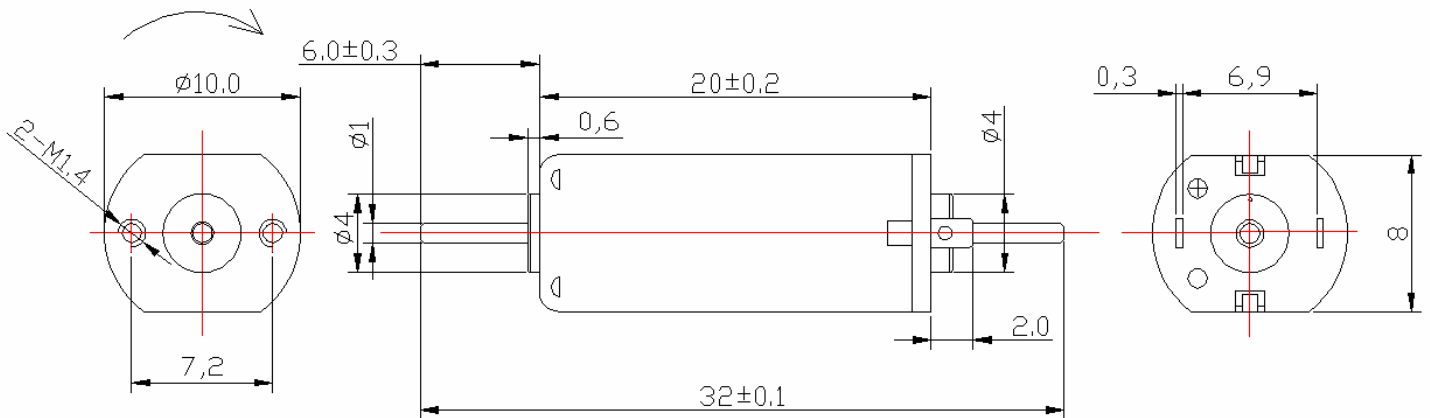


N MOTOR



MODEL: FF1020-32A (3 POLES) N

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
19000	30	100	14250	4	0.58	16	0.35	75	2.0
±10%	≤40							≤78	≤2.0

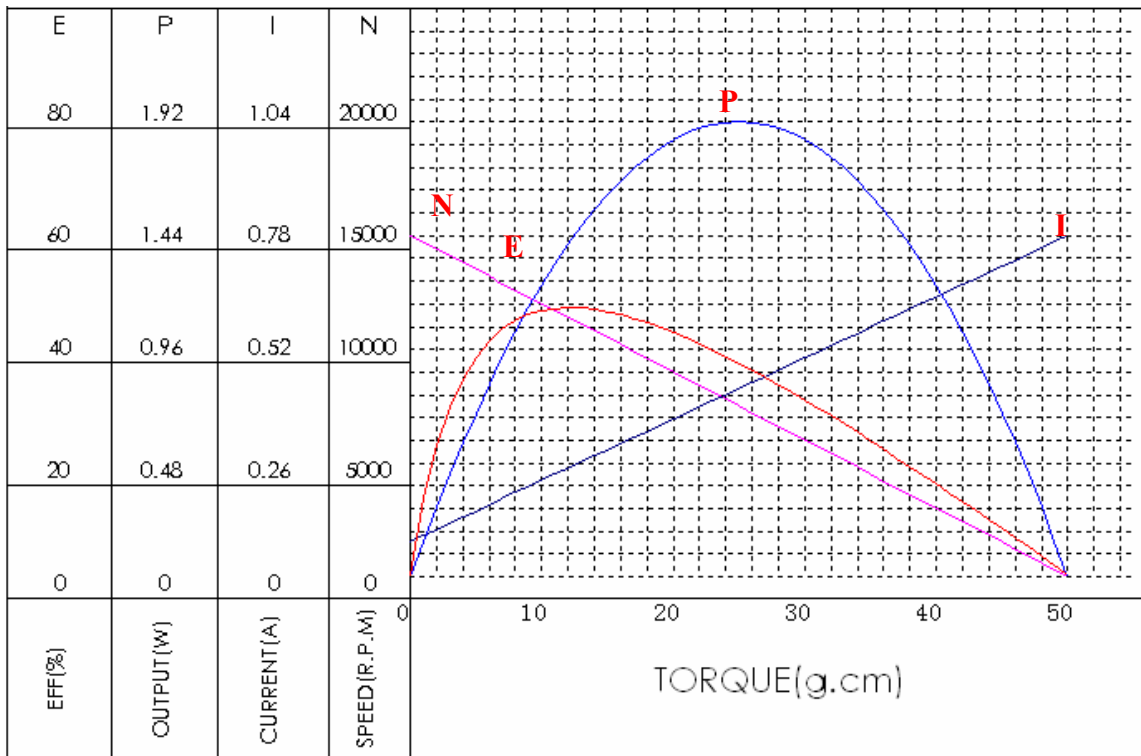
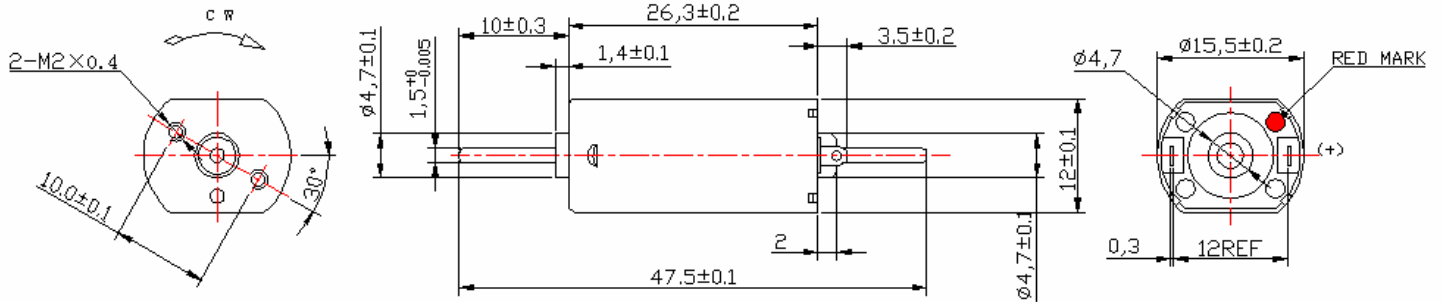


HO 马达

MODEL: FK055-47.5 (5 POLES)



C 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
14000	70	250	11400	12	1.4	50	0.78	75	2.0



HO MOTOR

诺高: 2019-5-7

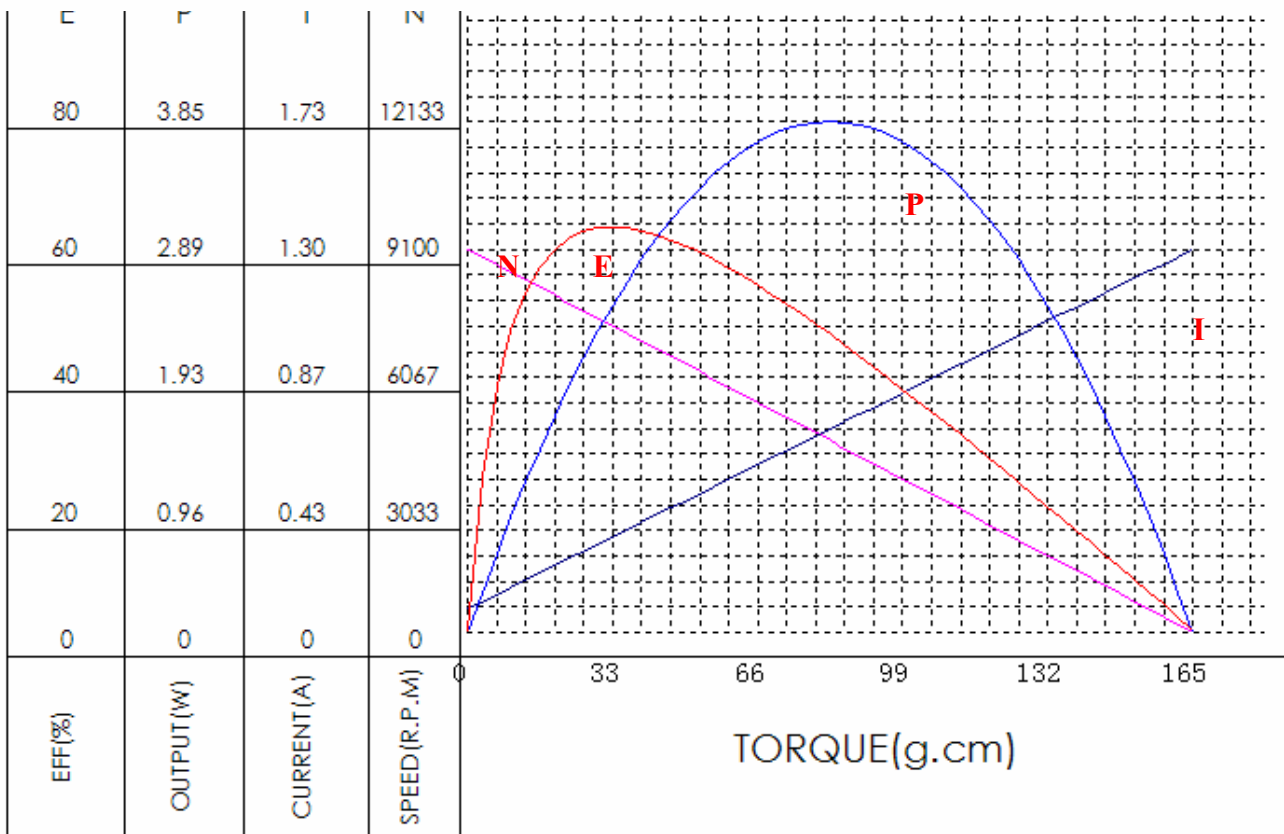
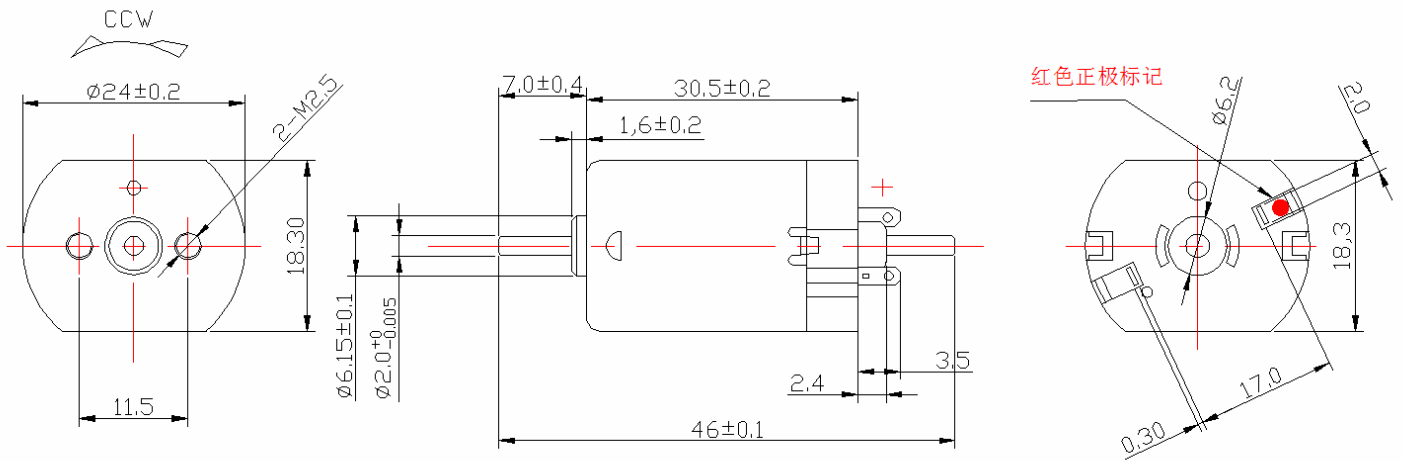
两边波形杯士

Typical Applications: Toy train, Train Model

MODEL: FK285-14123-46BB(5 POLES)



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
9100	100	320	7335	32	2.41	165	1.30	72	1.5
±10%	125MAX	ref	ref	ref	ref	150MIN	1.15 MIN	75MAX	2.0MAX



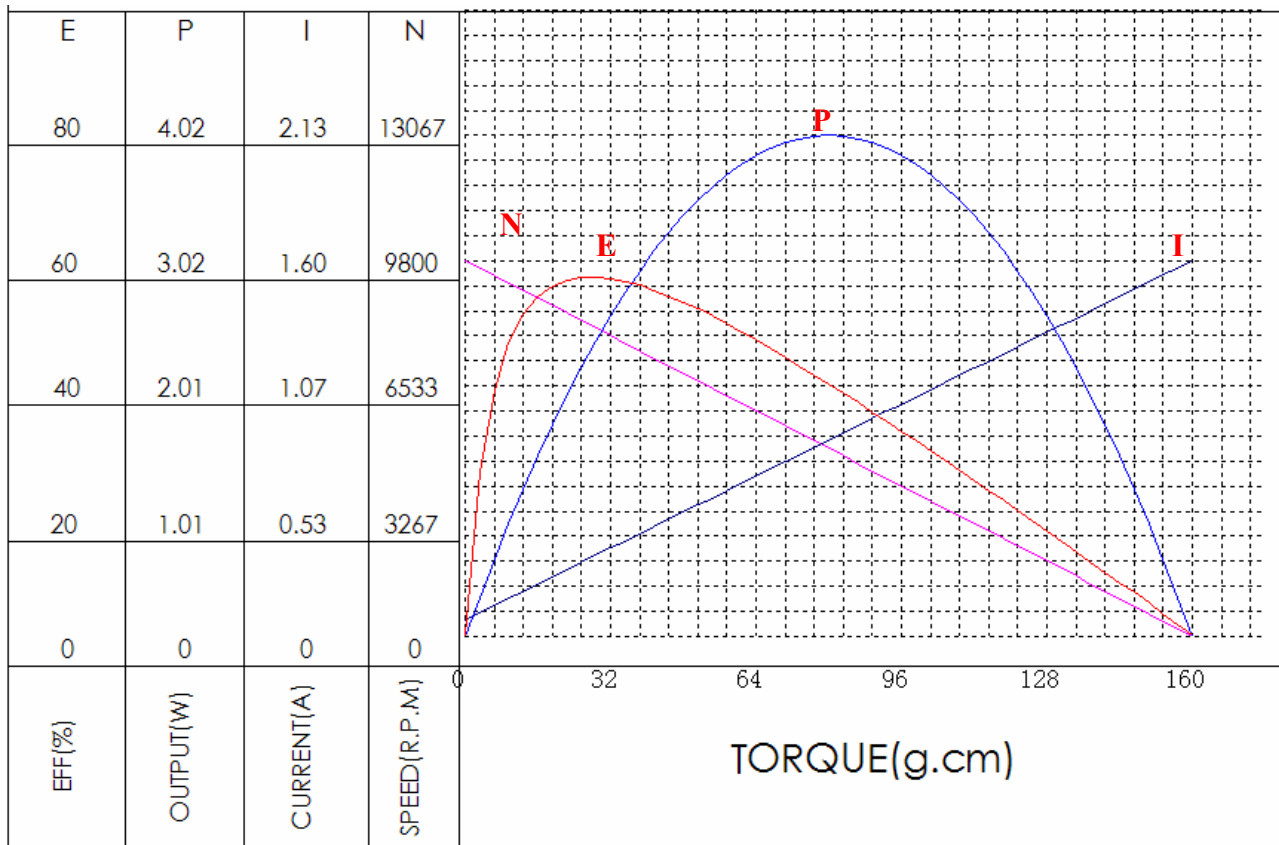
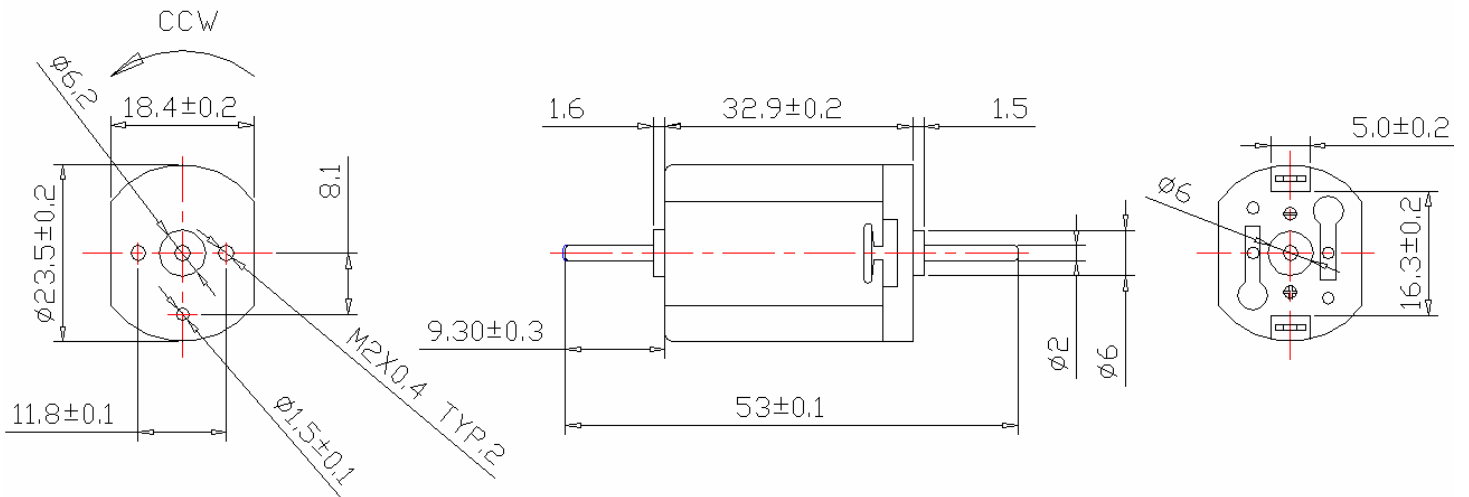
HO MOTOR

Typical Applications: Toy train, Train Model

MODEL: 300-E14103-53 (5 POLES)



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
9800	80	330	8146	27	2.26	160	1.60	68	1.0
±10%	100Max	ref	ref	ref	ref	155Min	1.55Min	70Max	1.2Max

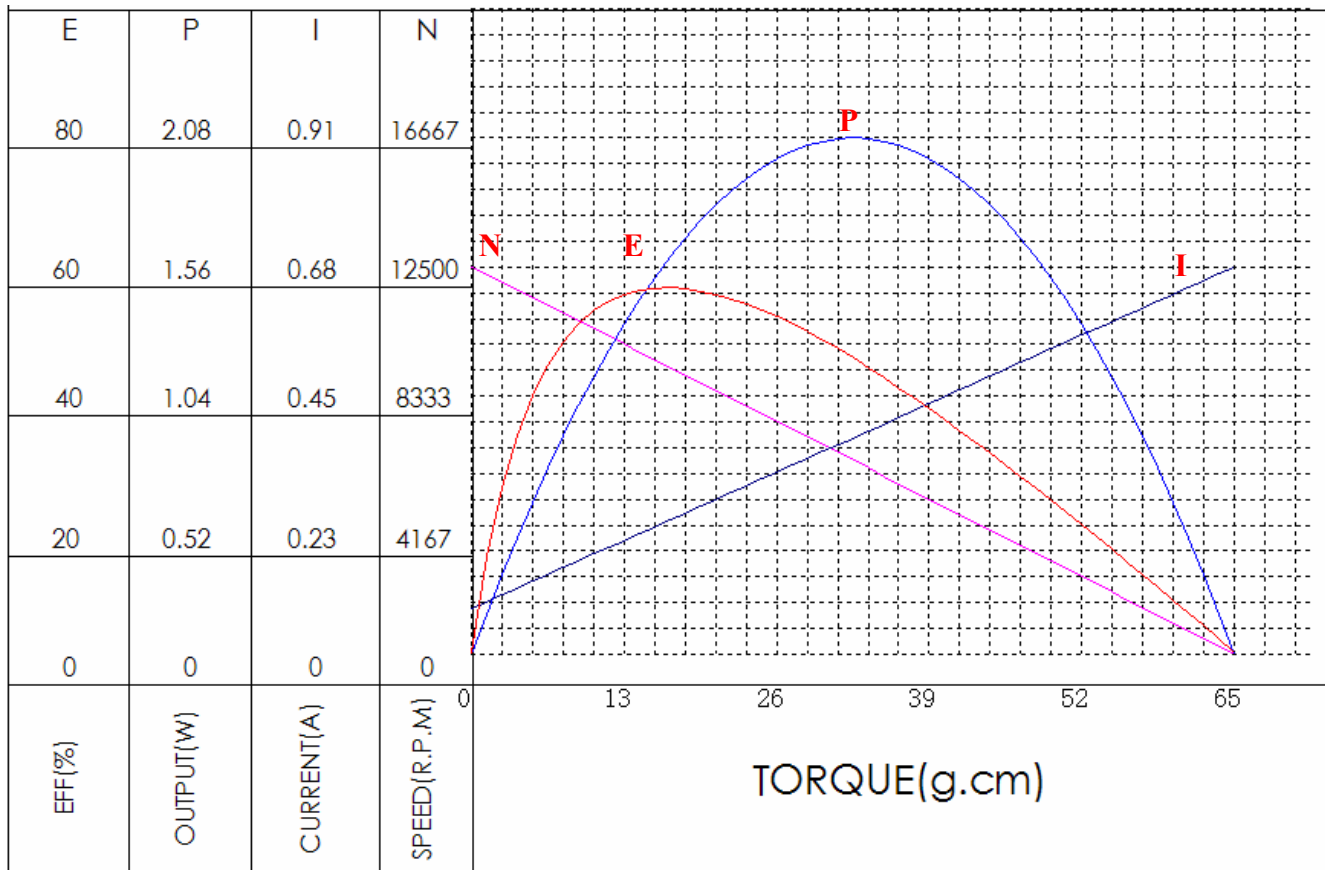
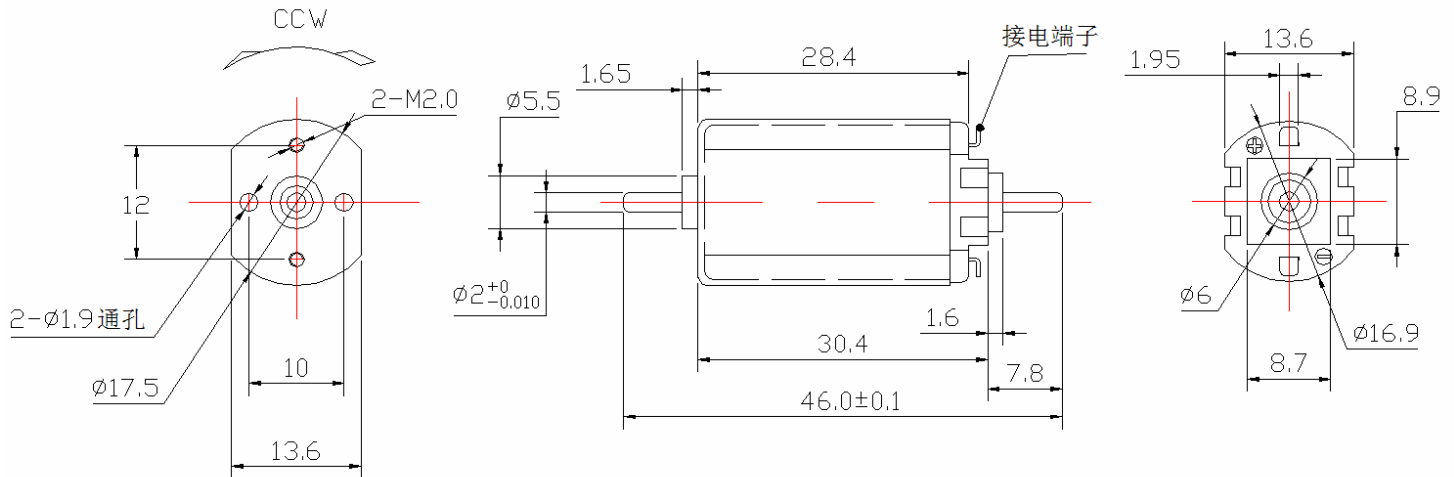


HO MOTOR

Typical Applications: Toy train, Train Model

MODEL: UM1730-10120-46 (5 POLES)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
12500	80	230	9423	16	1.55	65	0.70	66	1.8
±10%	100Max	ref	ref	ref	ref	60Min	0.65Min	70Max	2.0Max

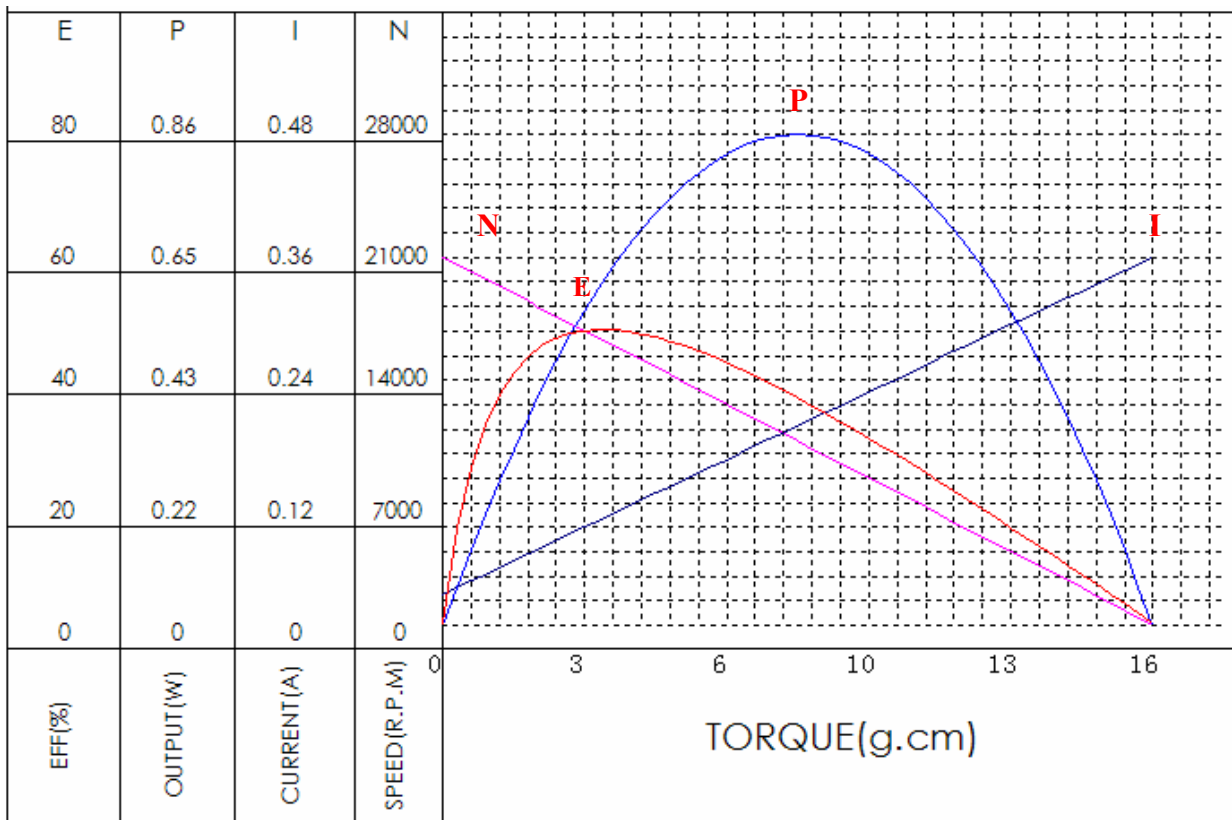
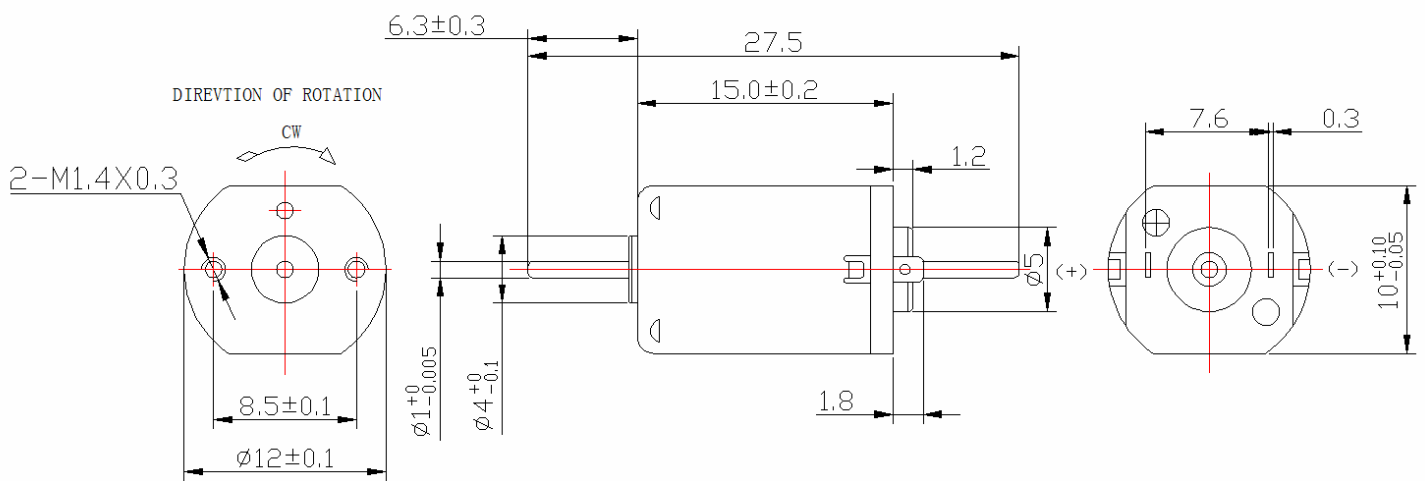


N MOTOR



MODEL: FF1215-27.5V (3 POLES) N

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dB(A)	V
21000	30	100	17063	3	0.53	16	0.36	70	1.5



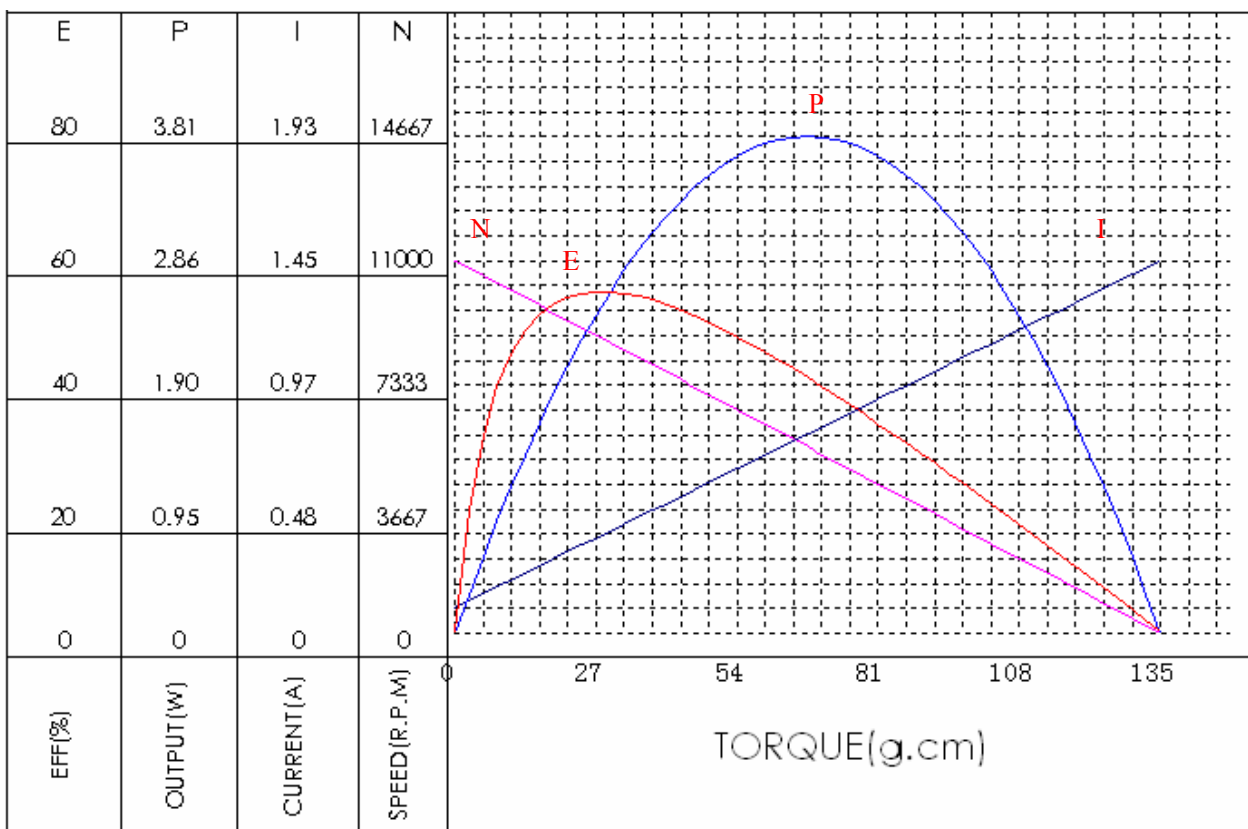
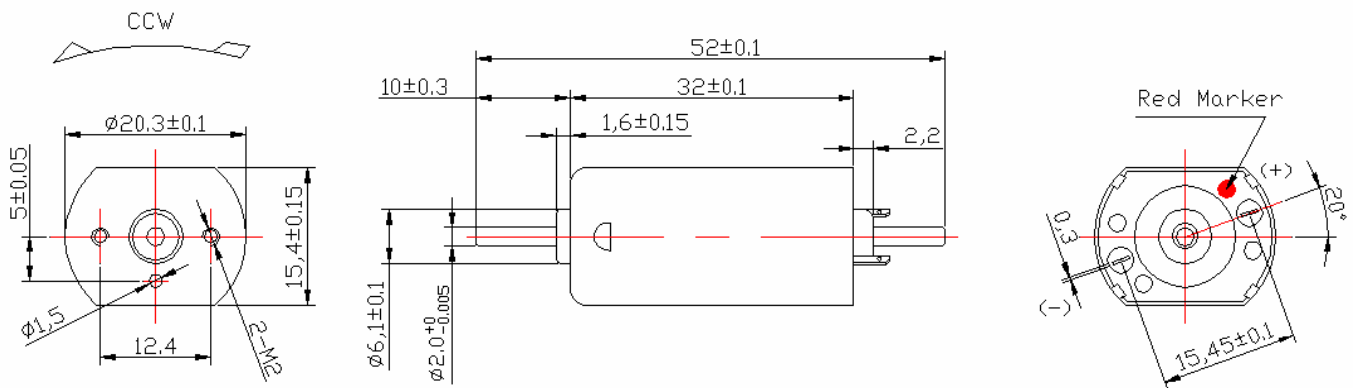
H O MOTOR

Typical Applications: Toy train, Train Model

MODEL: FC185-14118-52 (5 POLES)



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
10000	100	380	8719	28	2.5	135	1.45	72	1.0



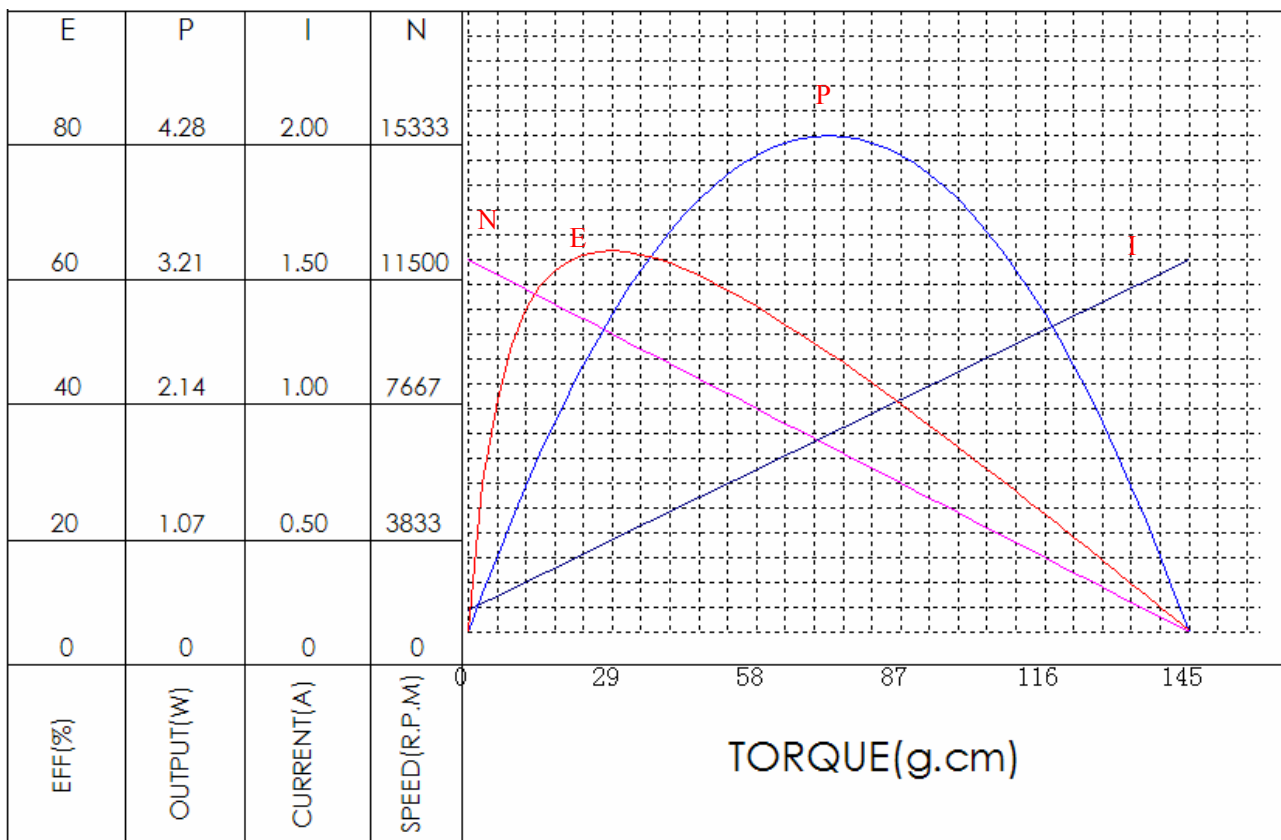
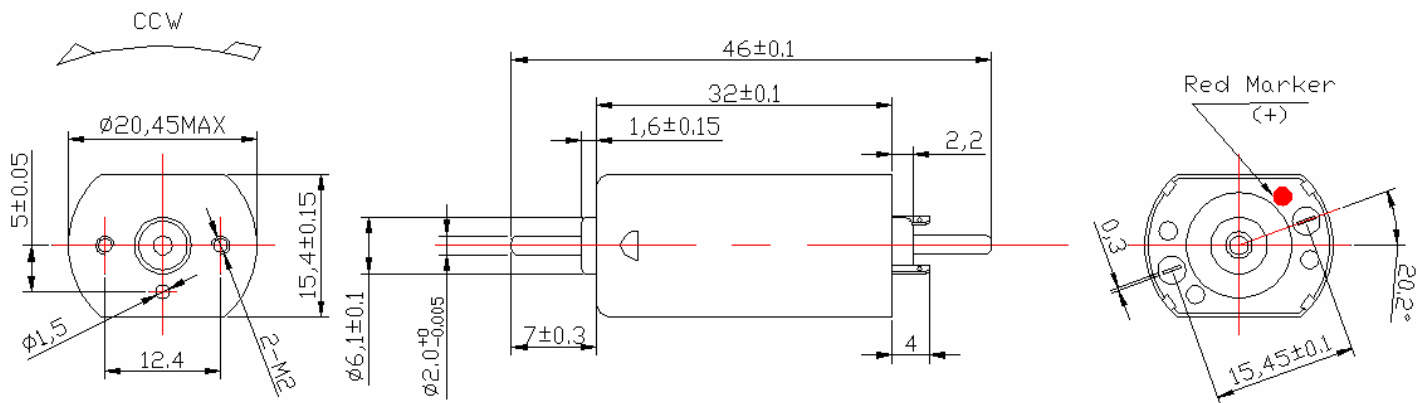
H O MOTOR

Typical Applications: Toy train, Train Model

MODEL: FC185-15100-46V (5 POLES)



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
11500	110	370	9200	29	2.74	145	1.50	72	1.0

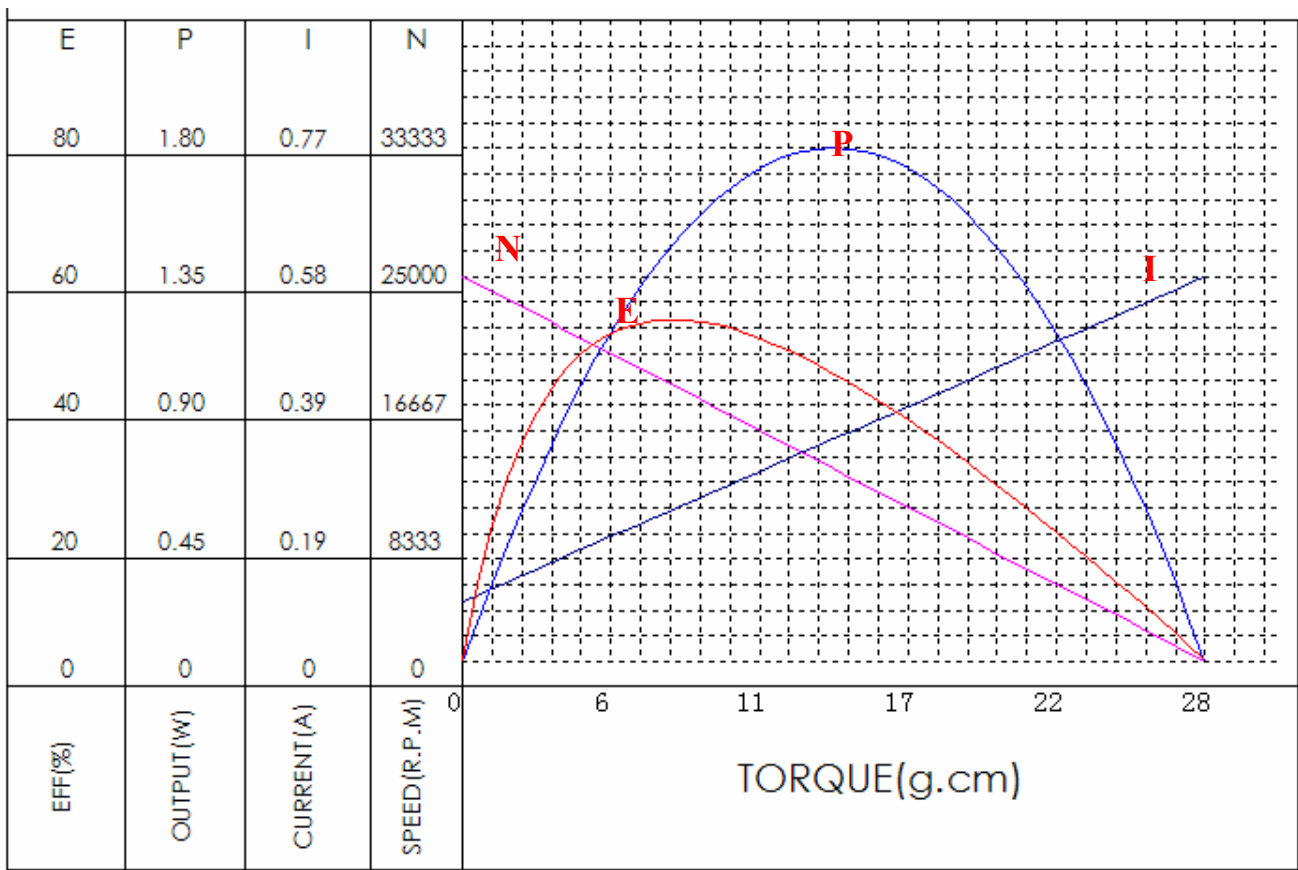
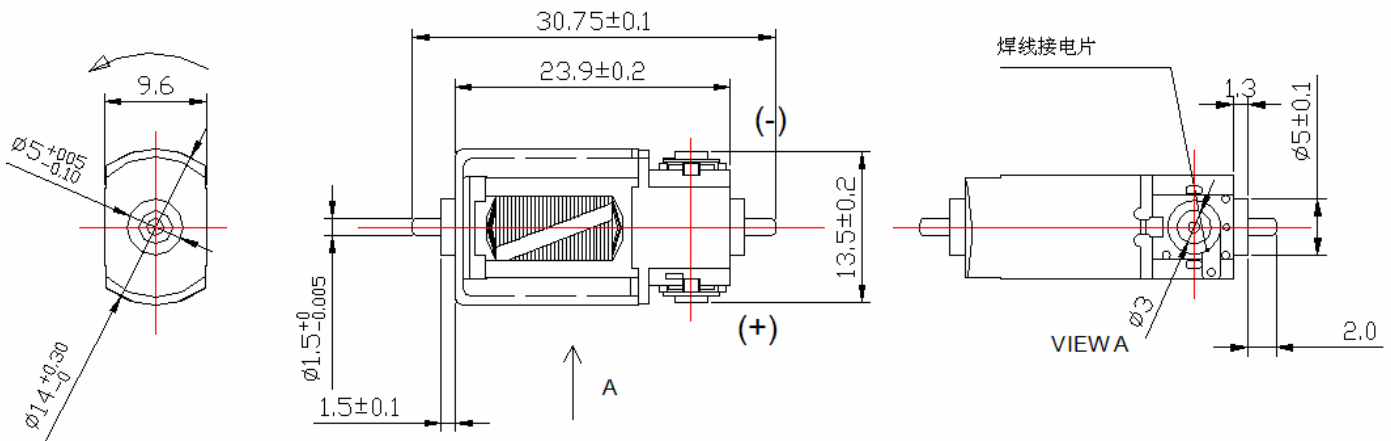


N Motor

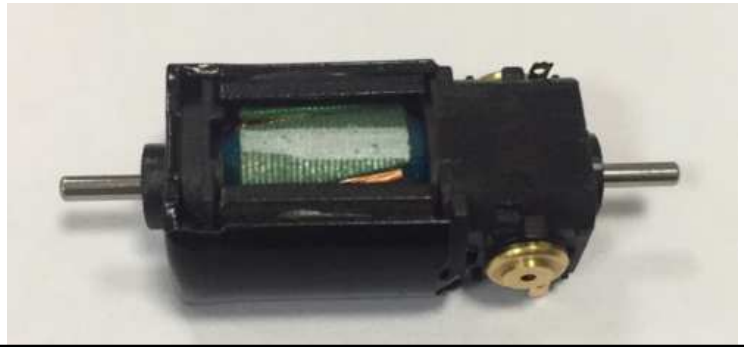


MODEL: 302-E09130-30.75 (5 Poles)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
25000	100	230	17857	8.0	1.47	28	0.58	75	3.0

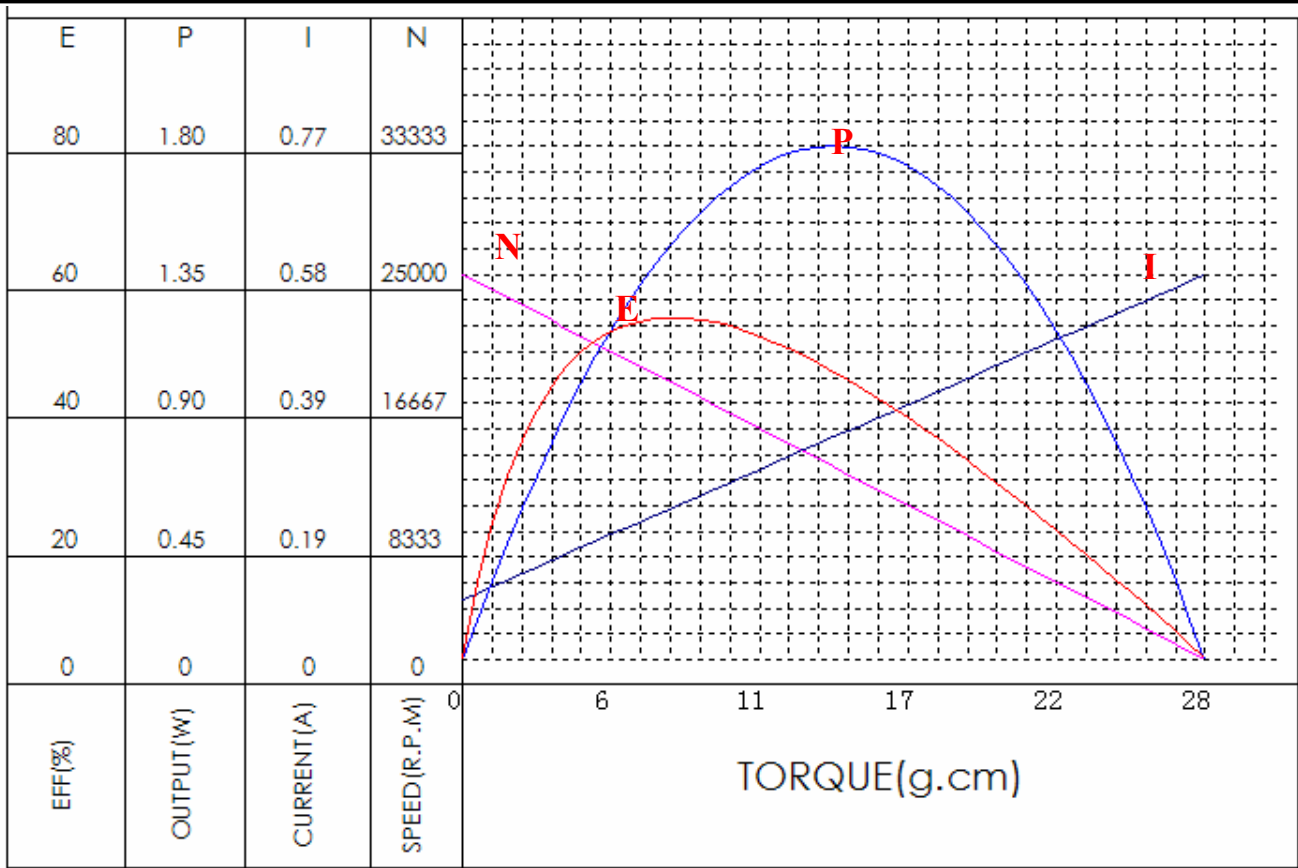
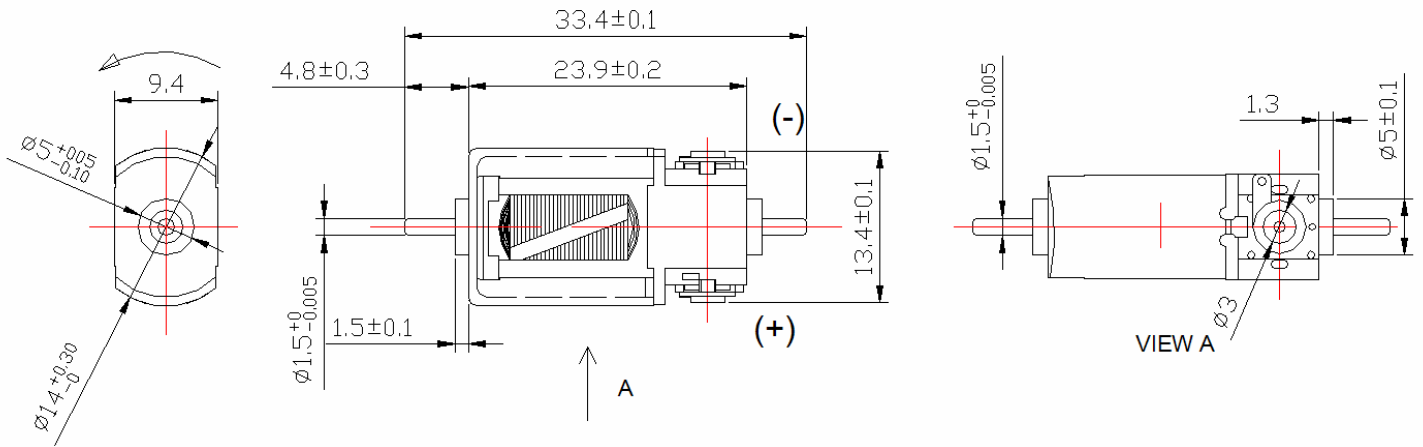


N Motor

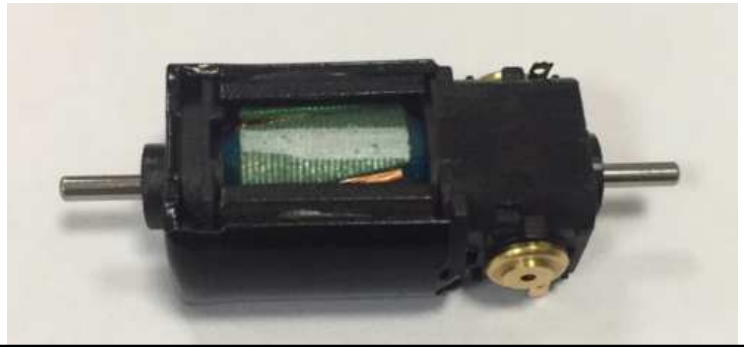


MODEL: 302-E09130-33.4(5 Poles)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
25000	100	230	17857	8.0	1.47	28	0.58	75	3.0

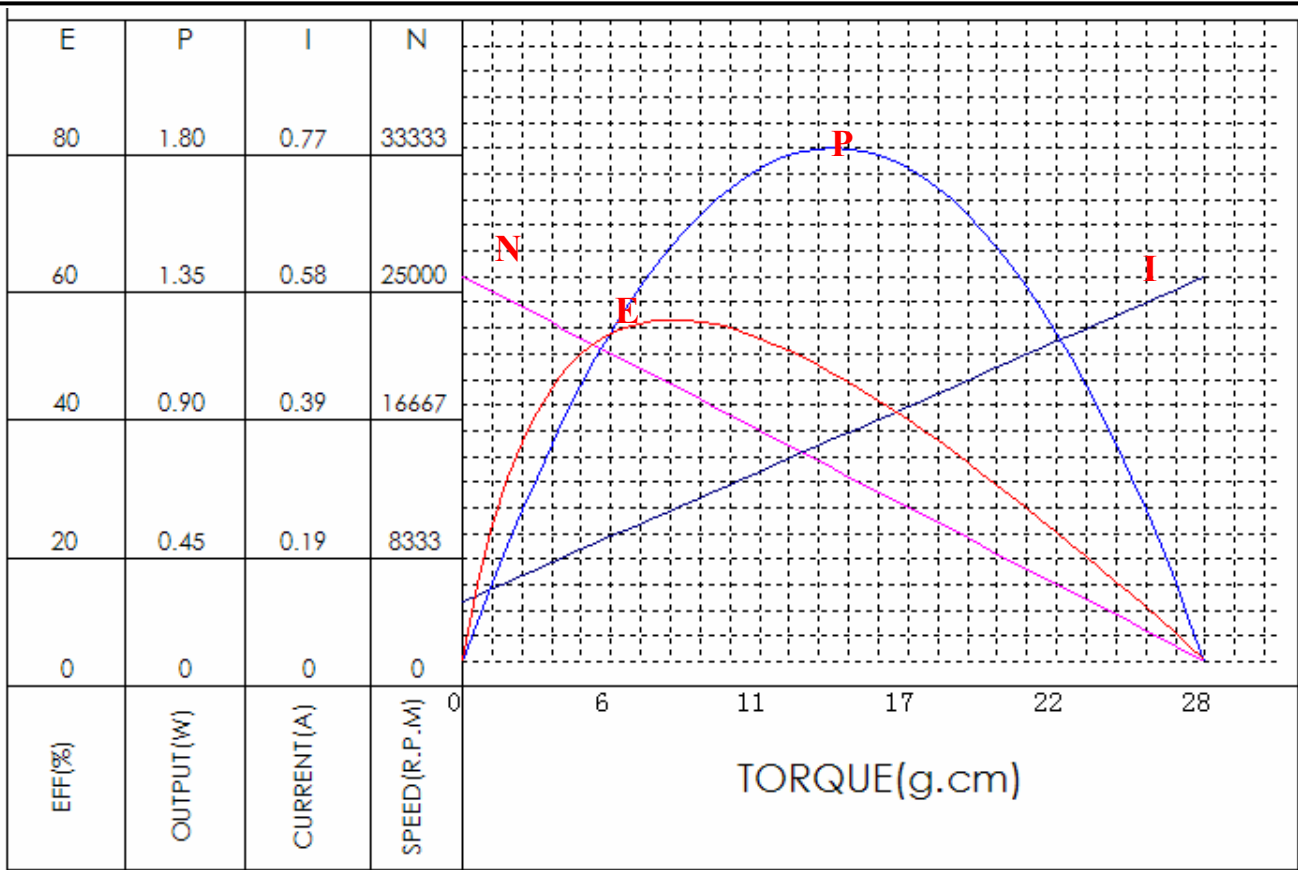
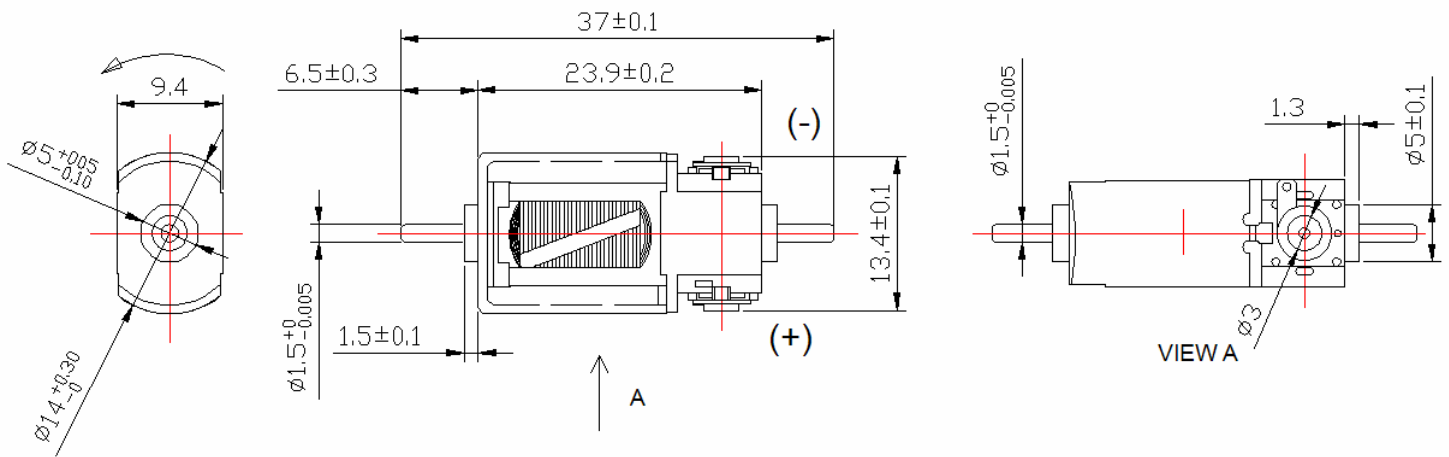


N Motor



MODEL: 302-E09130-37 (5 Poles)

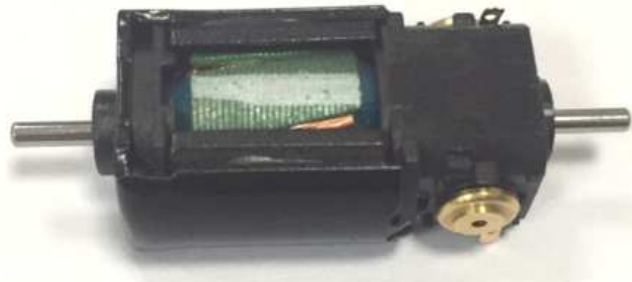
DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
25000	100	230	17857	8.0	1.47	28	0.58	75	3.0



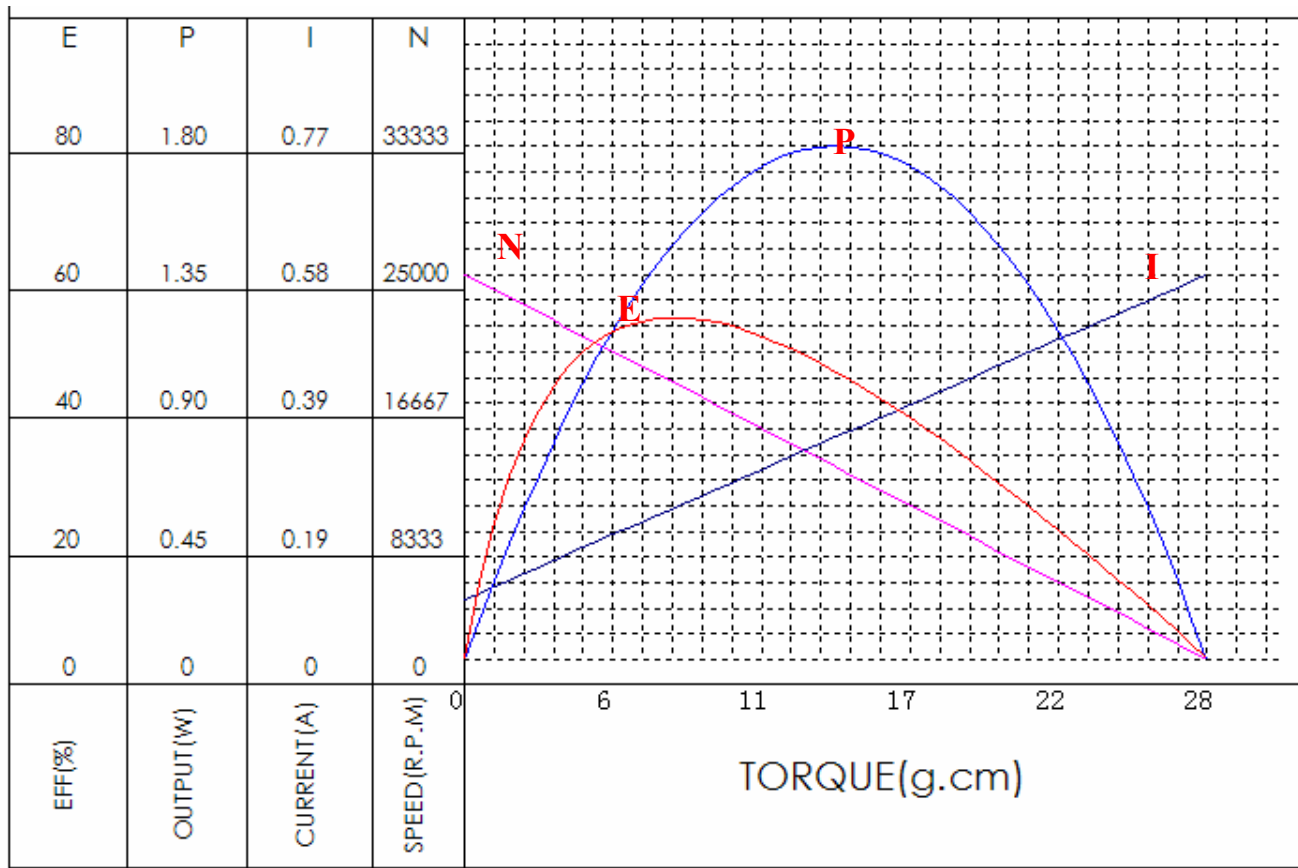
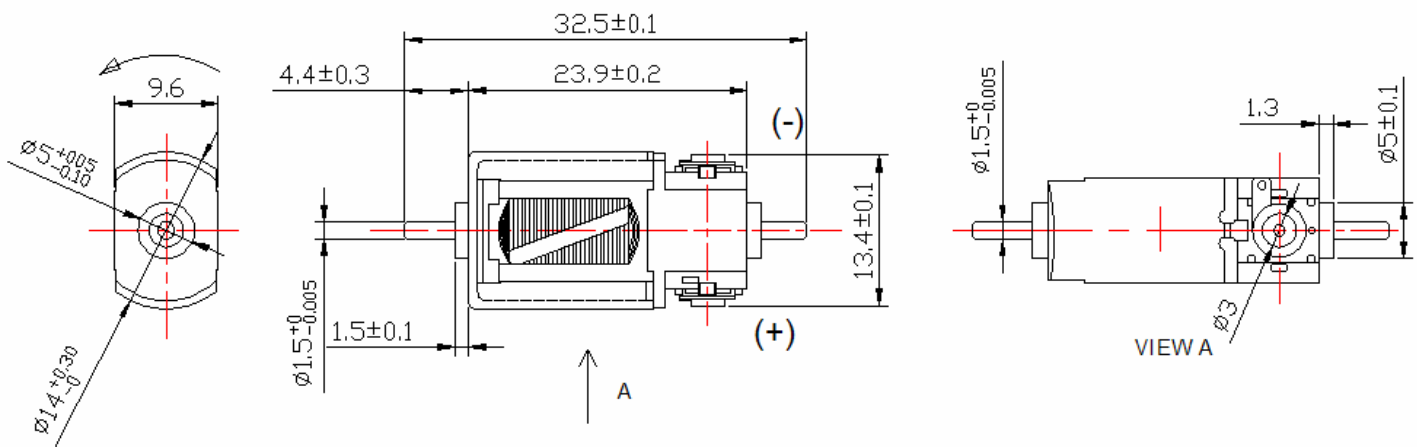
N Motor

2018-3-27

MODEL: 302-E09130-32.5(5 Poles)



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
25000	110	230	17857	8.0	1.47	28	0.58	75	3.0

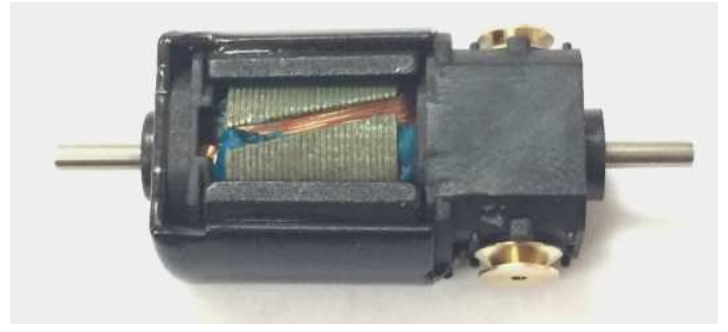


N/HO Motor With Rare Earth Magnets

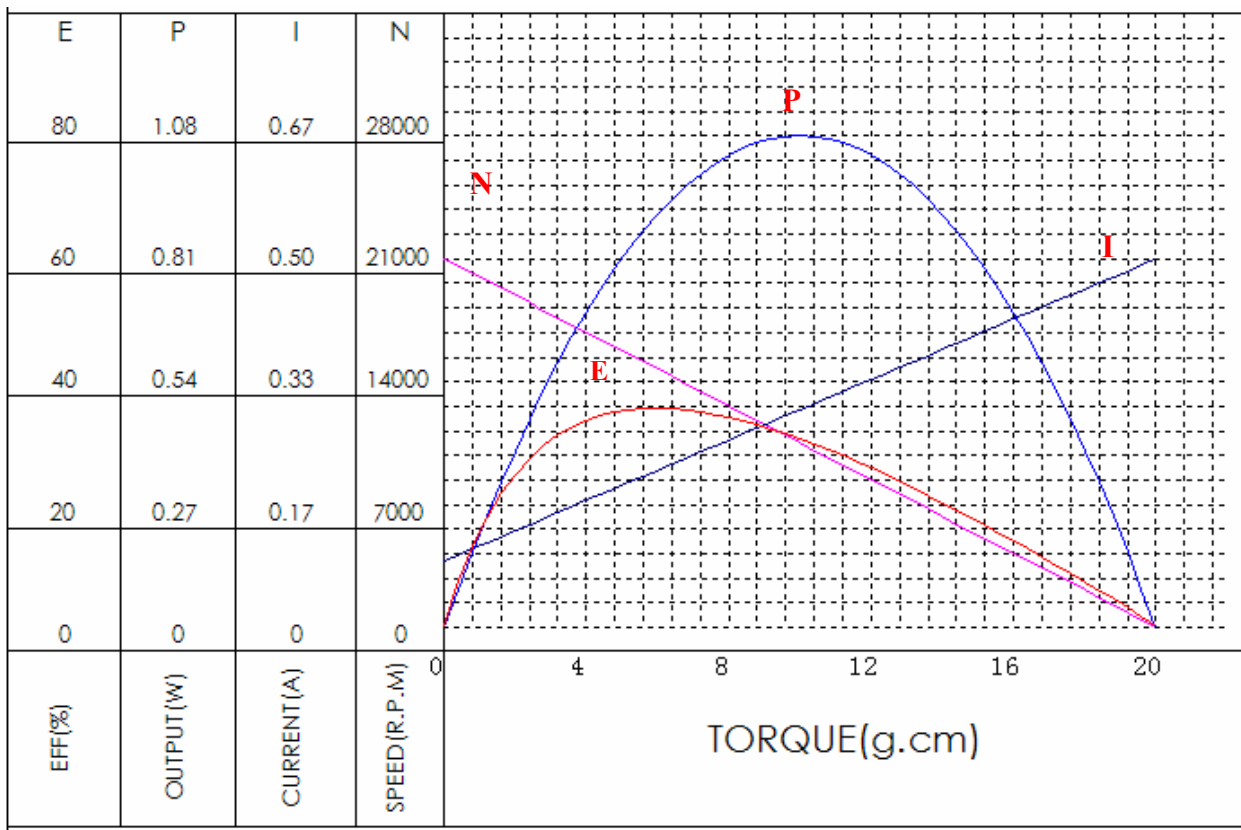
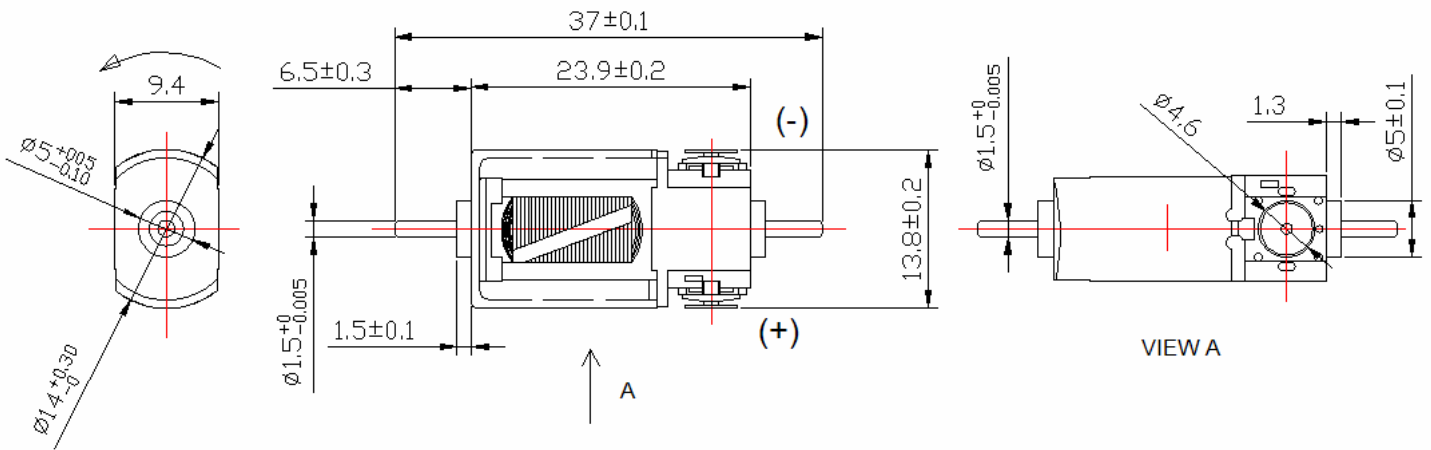
Model Number: 302-E-37 (5 Poles).

Characteristic: High Power Density, High Quality,
Stable Performance, Reliable Operation,
Energy-saving, Eco-friendly.

Typical Applications: Locomotives, Toy train, Toy.



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
21000	90	210	14700	6.0	0.90	20	0.50	75	3.0



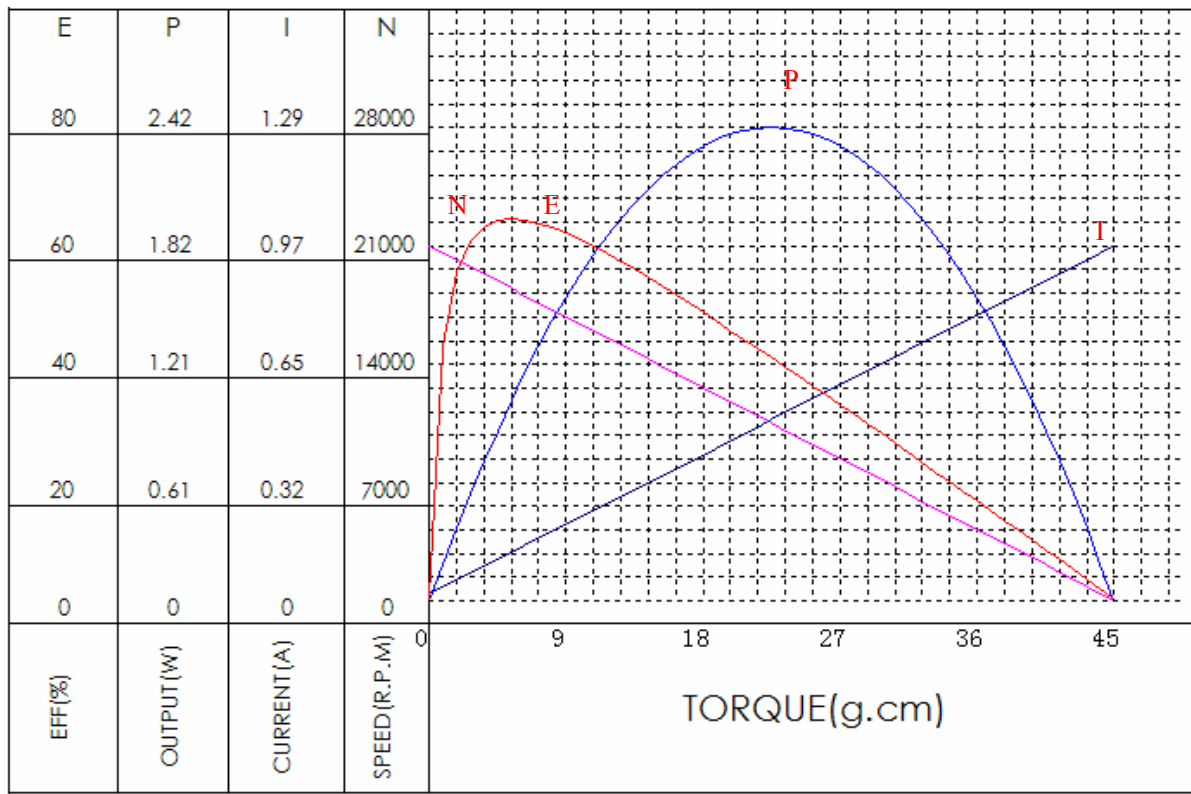
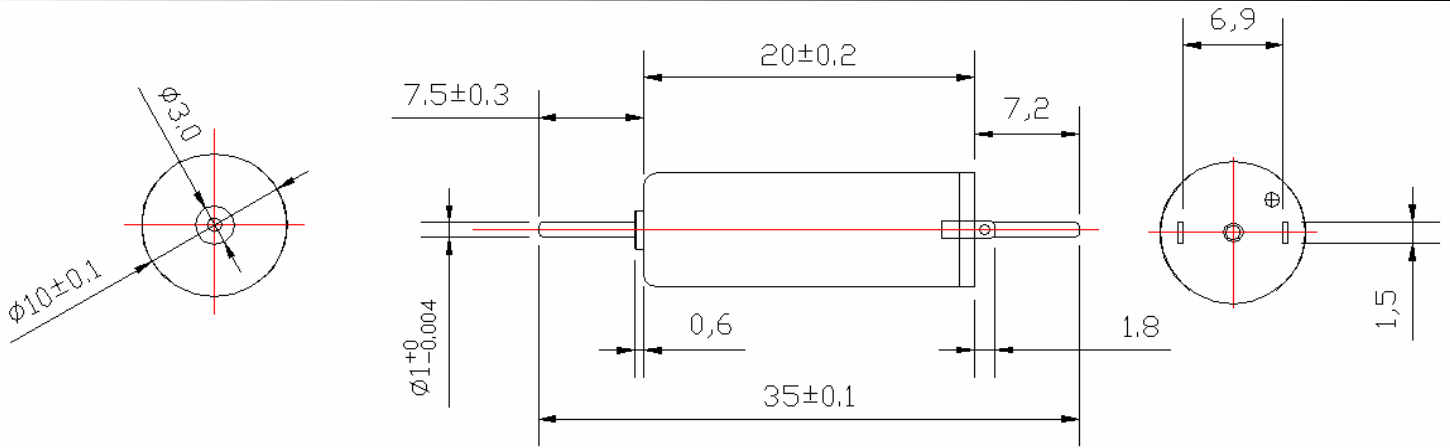
N MOTOR

Typical Applications: Toy train, Train Model

MODEL: 1020- 35



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
21000	19	130	18667	5	0.96	45	0.97	65	1.0



HO Motor With Rare Earth Magnets

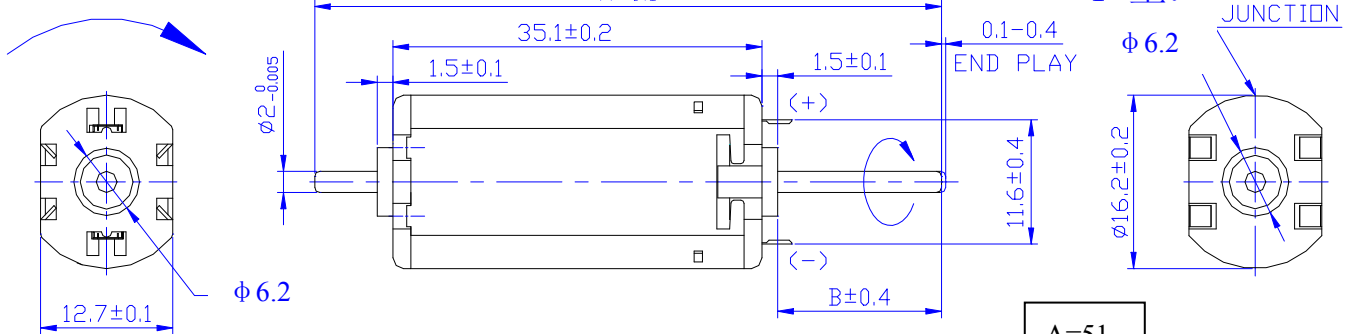
MODEL: 1445-11115-51 (5 POLES)



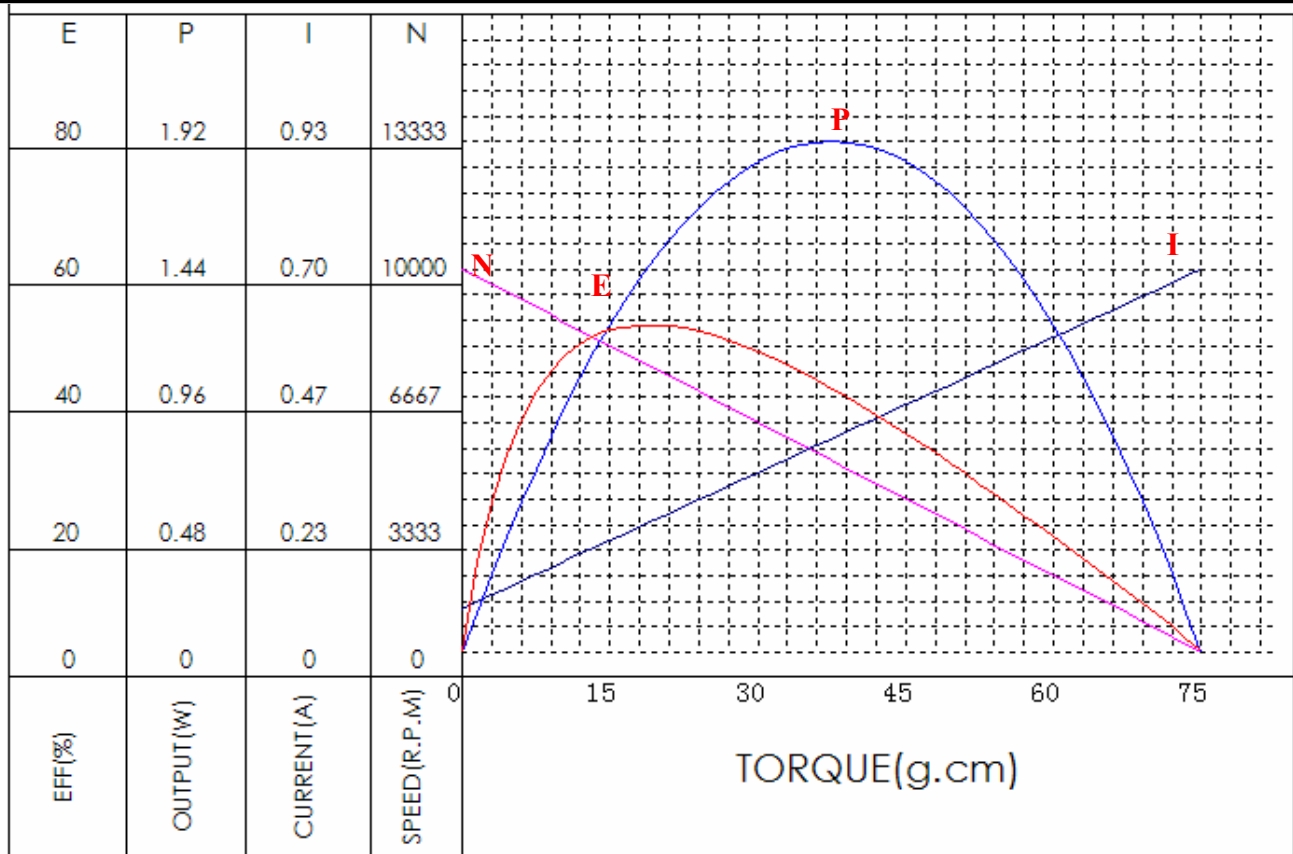
Typical Applications: Toy train, Train Model.

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
10000	80	240	7467	19	1.46	75	0.70	75	3.0

DIRECTION OF ROTATION



A=51
B=8



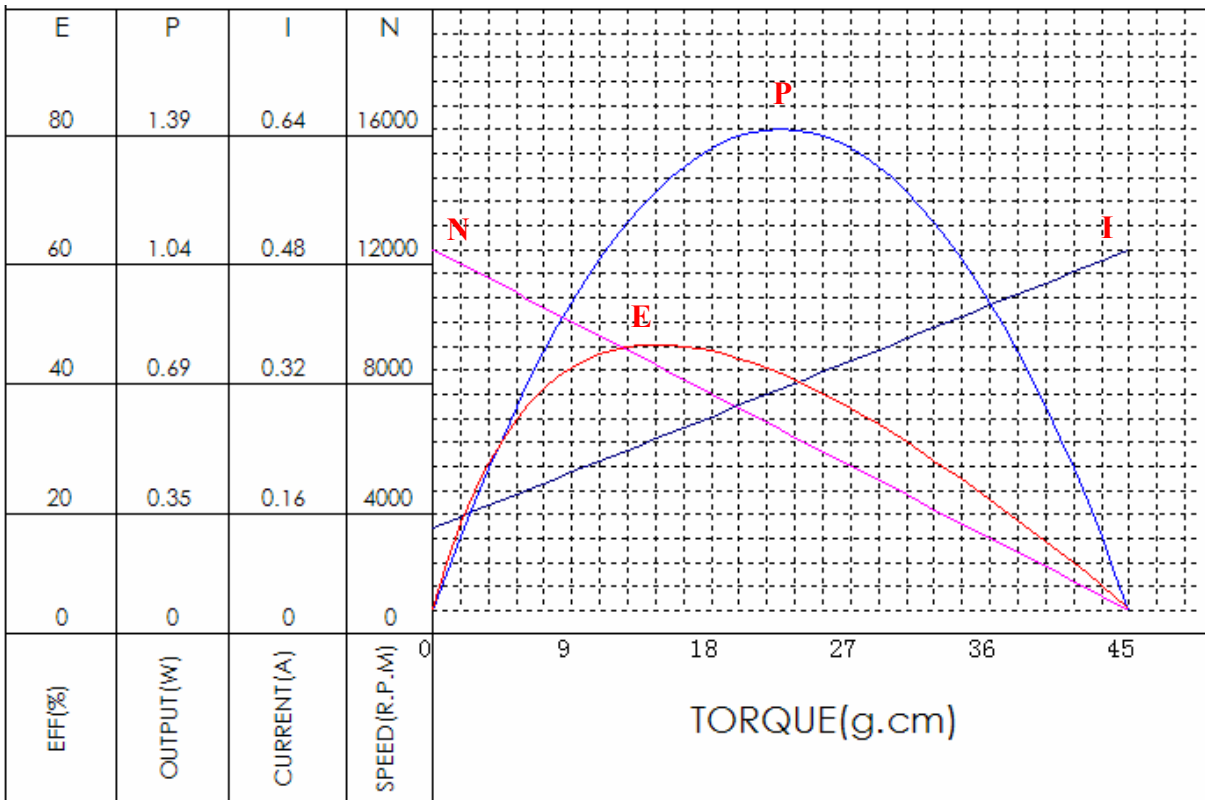
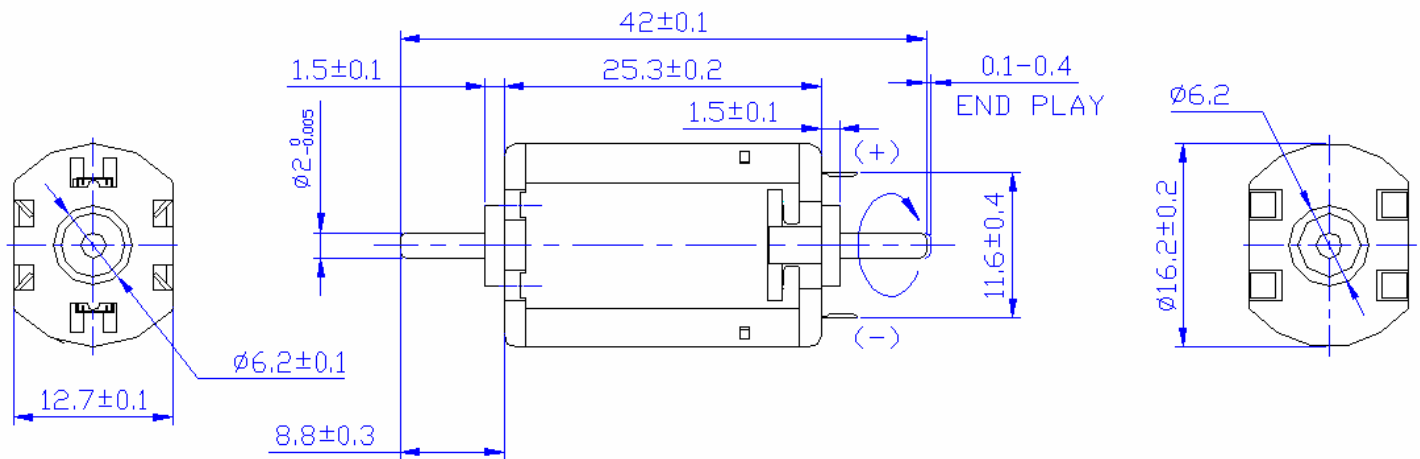
HO Motor With Rare Earth Magnets

MODEL: 1445-42 (5 POLES)



Typical Applications: Toy train, Train Model.

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY ()				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
12000	110	230	8000	15	1.23	45	0.48	75	3.0

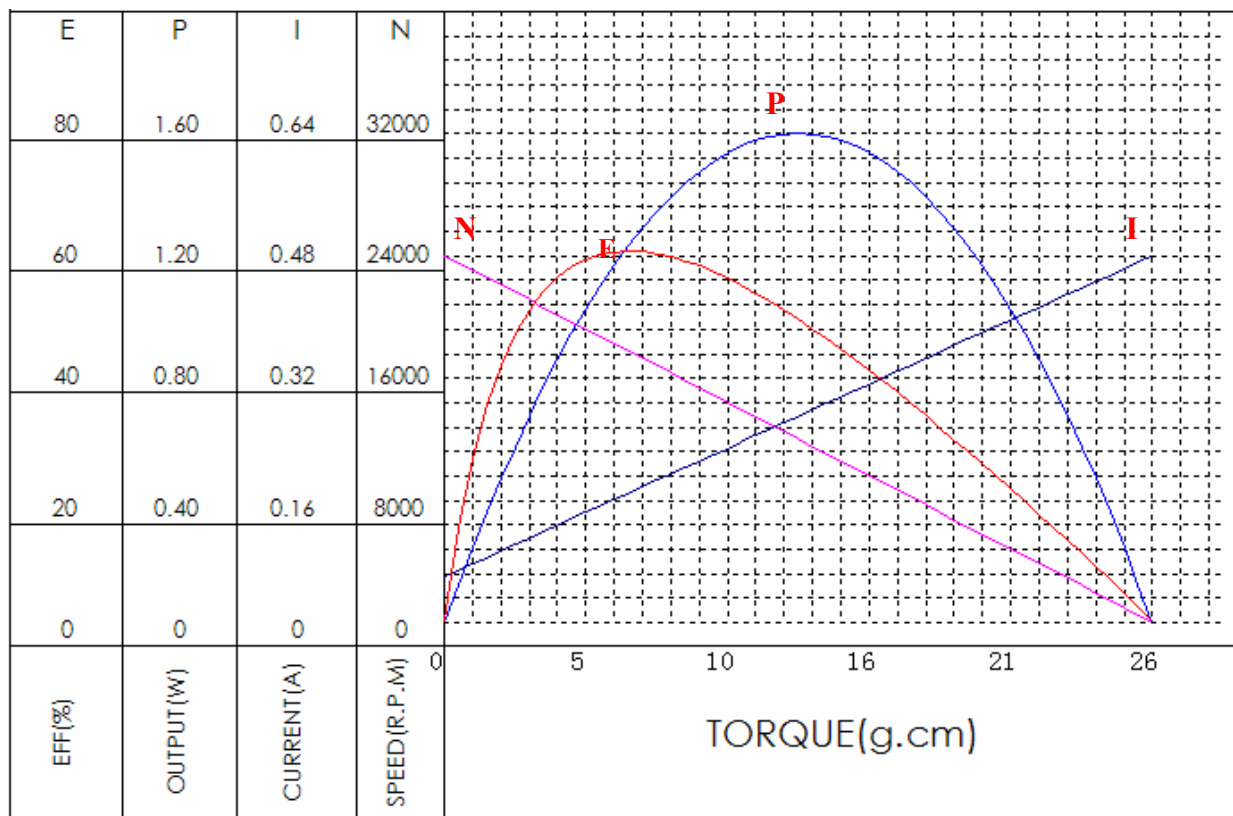
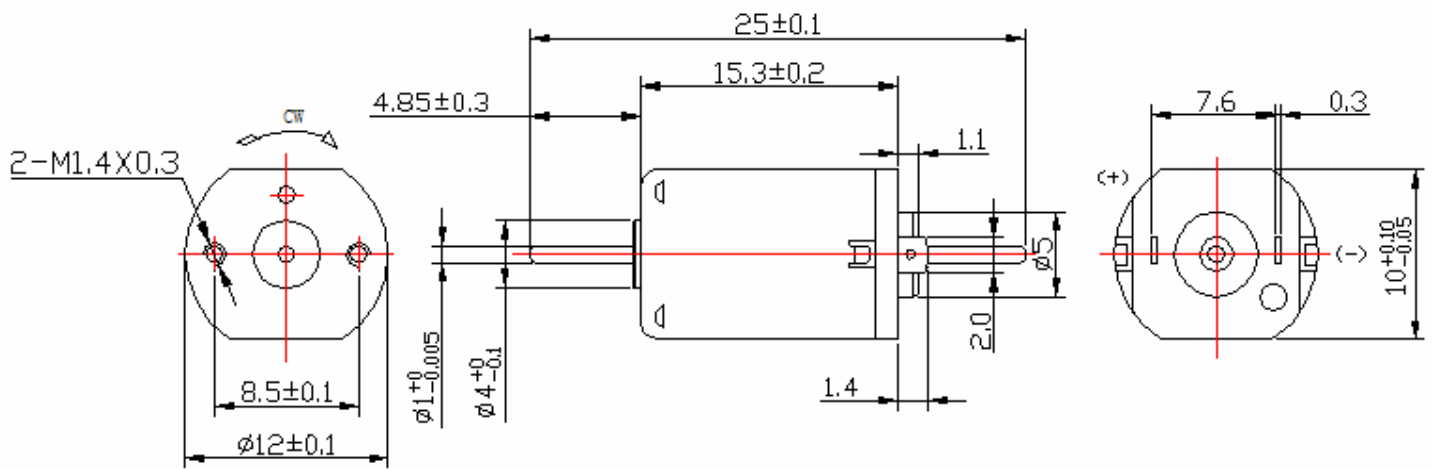


N MOTOR



MODEL: FC1215-06300-25 (3 POLES) N

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dB(A)	V
24000	60	170	17538	7	1.26	26	0.46	75	1.5

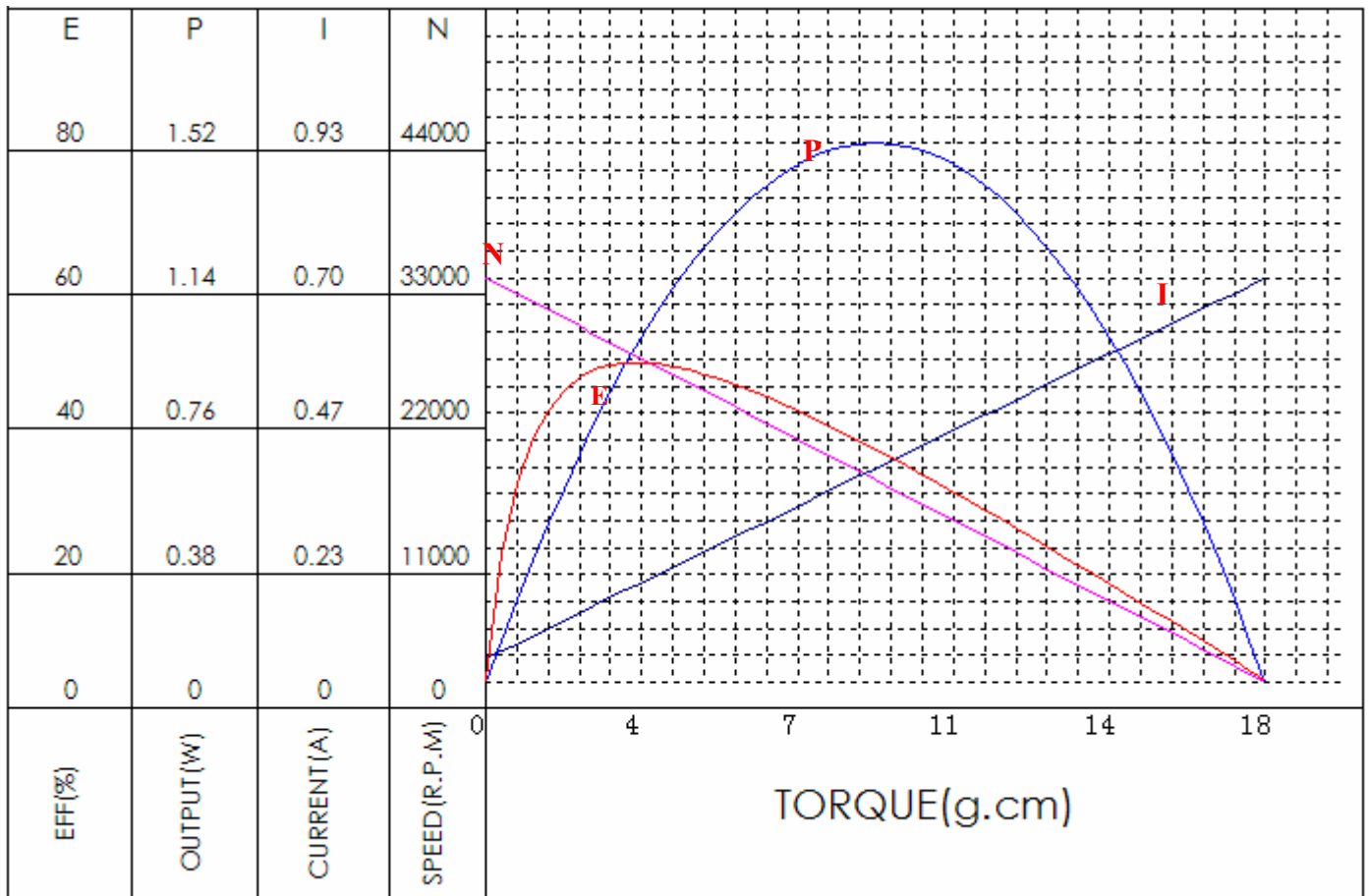
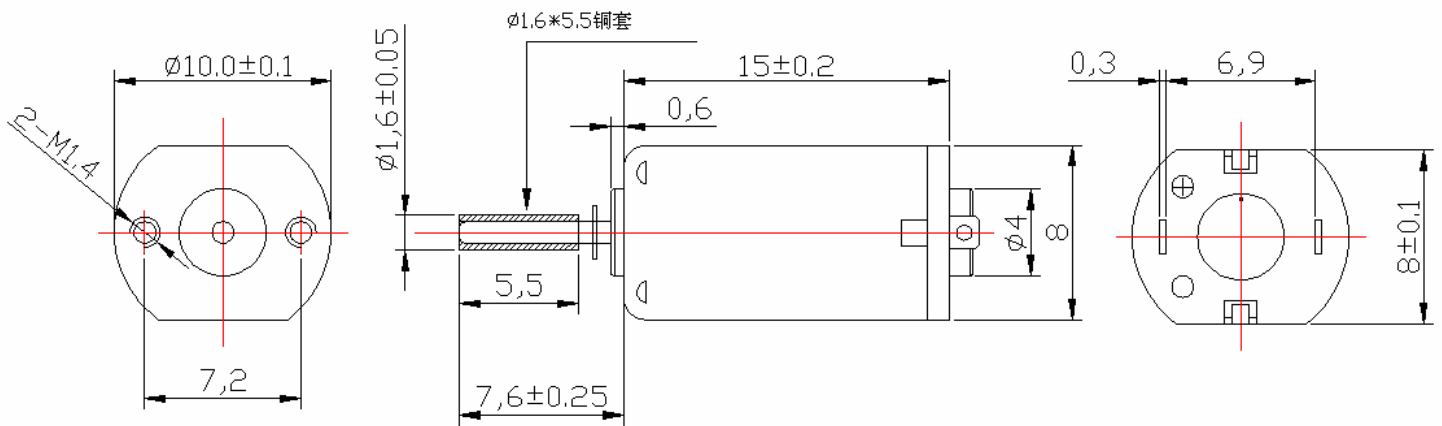


N MOTOR

MODEL: FF1015-23A (3 POLES) N



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dB(A)	V
32000	50	120	25160	3.9	0.84	18	0.75	75	1.5
±10%	≤60							≤78	≤1.5

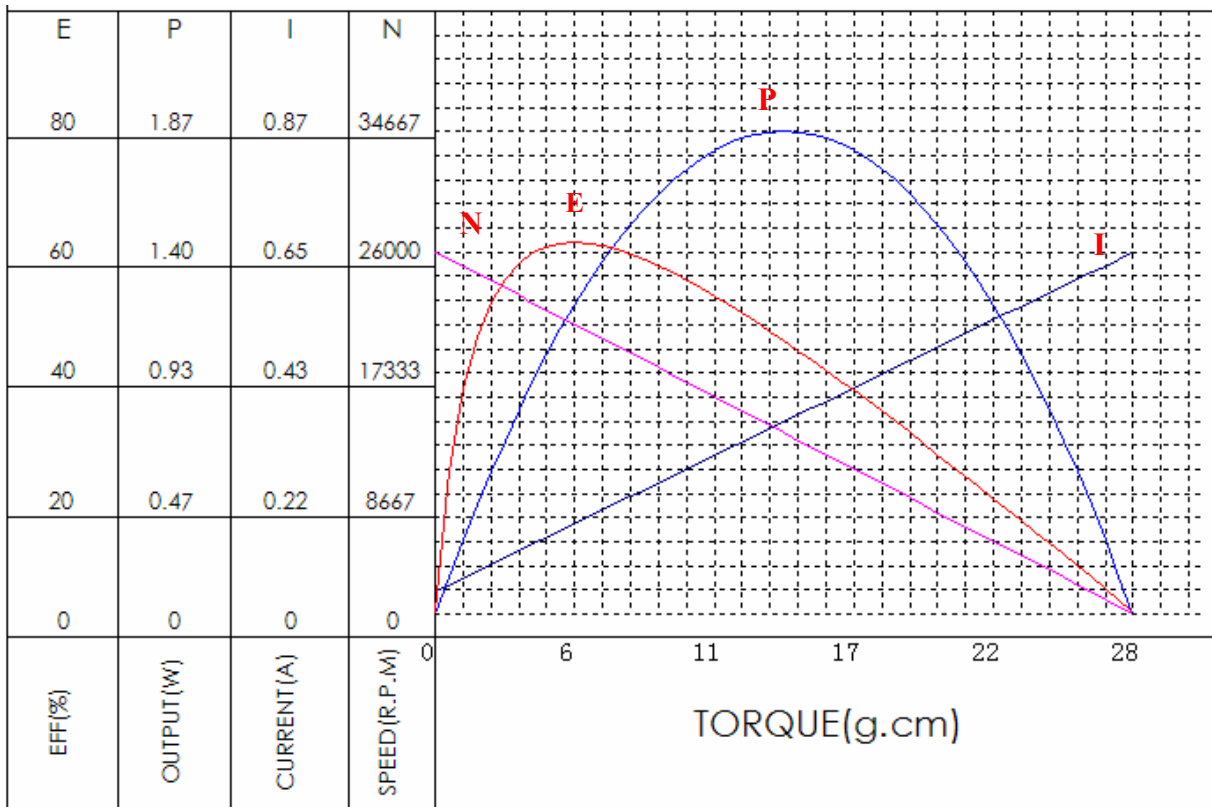
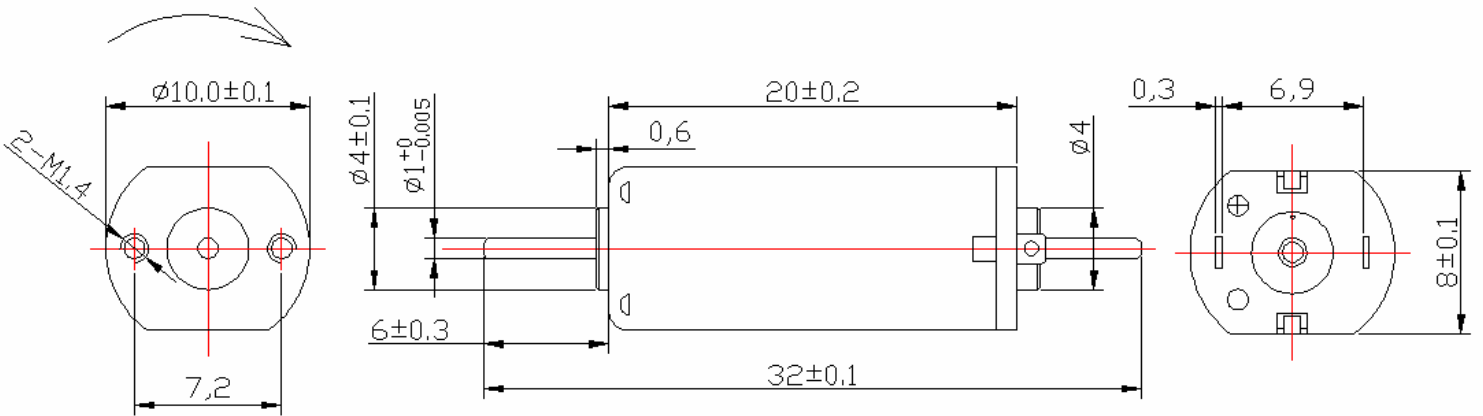


N MOTOR



MODEL: FF1020-32A (3 POLES) N

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
26000	40	160	20429	6	1.26	28	0.65	75	1.5
±10%	≤60							≤78	≤1.5

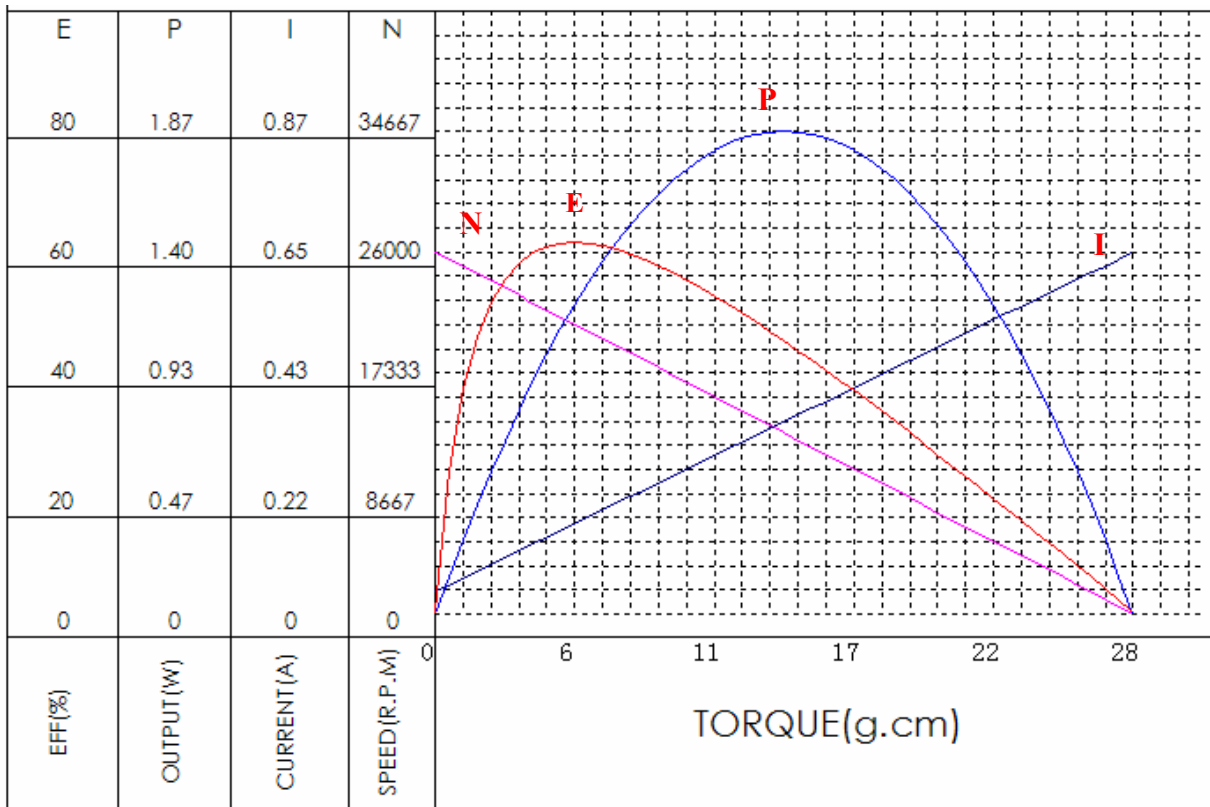
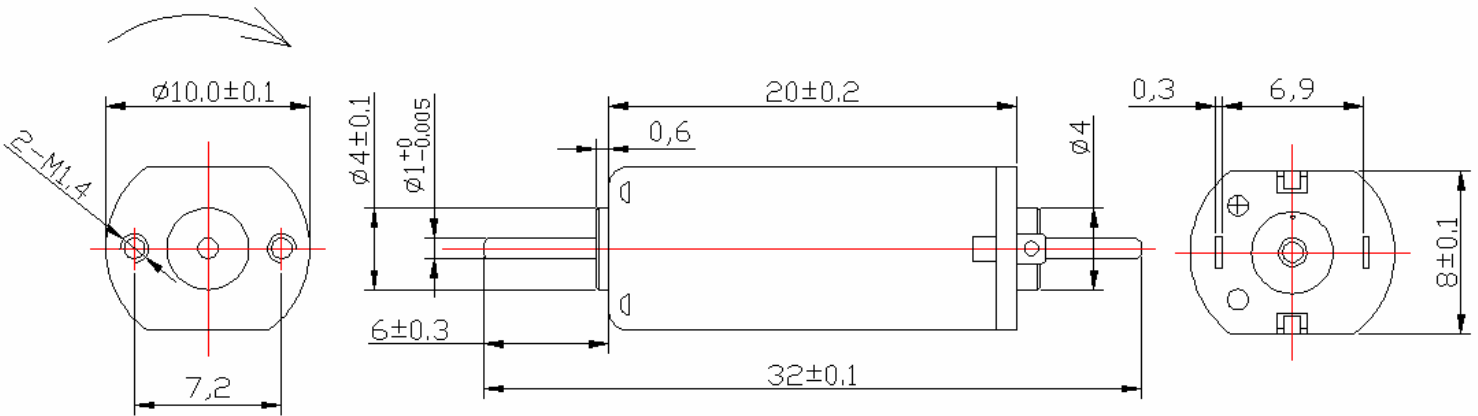


N MOTOR



MODEL: FF1020-32A (07190) (3 POLES) N

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
26000	40	160	20429	6	1.26			75	1.5
±10%	≤60							≤78	≤1.5



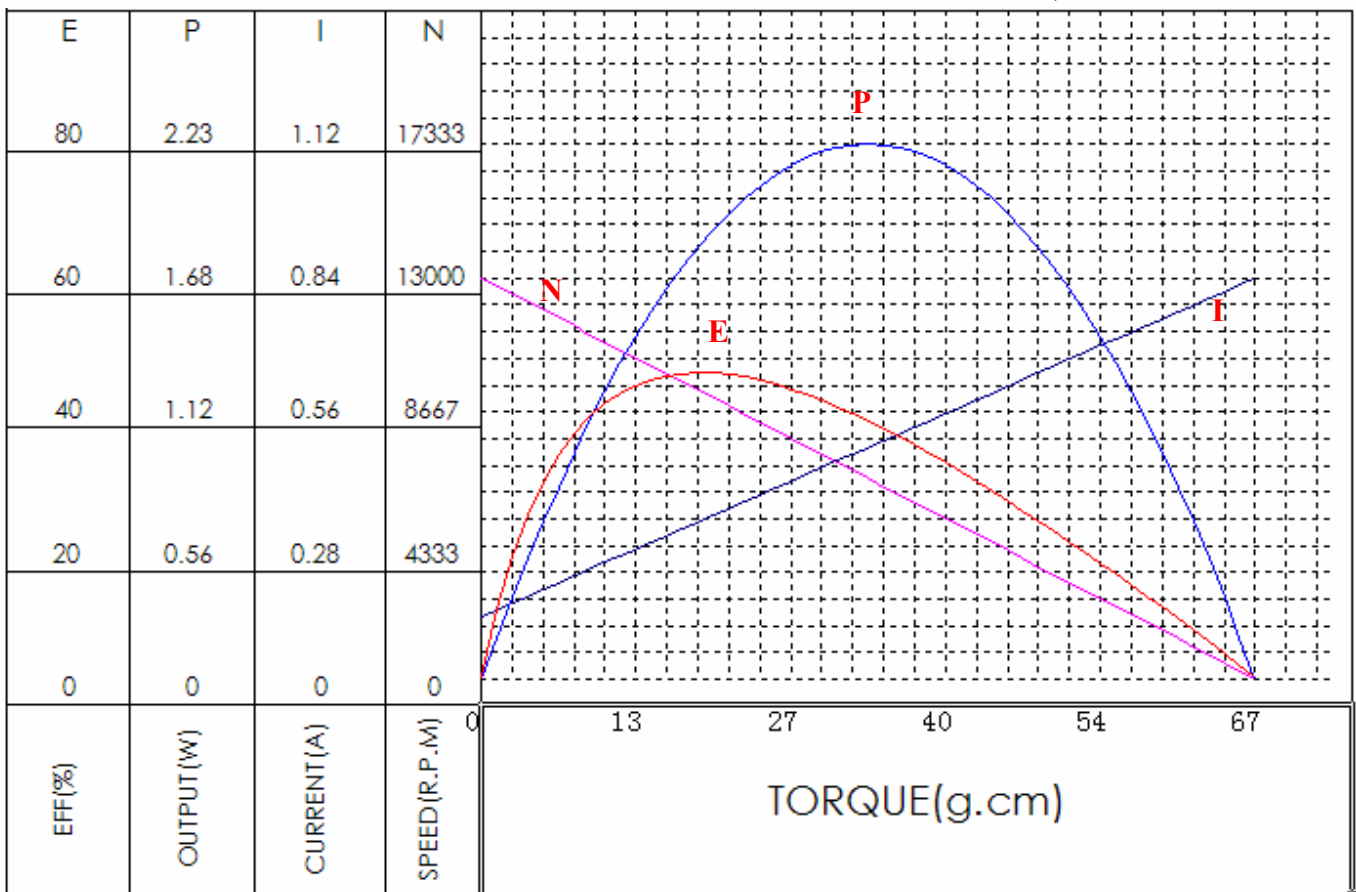
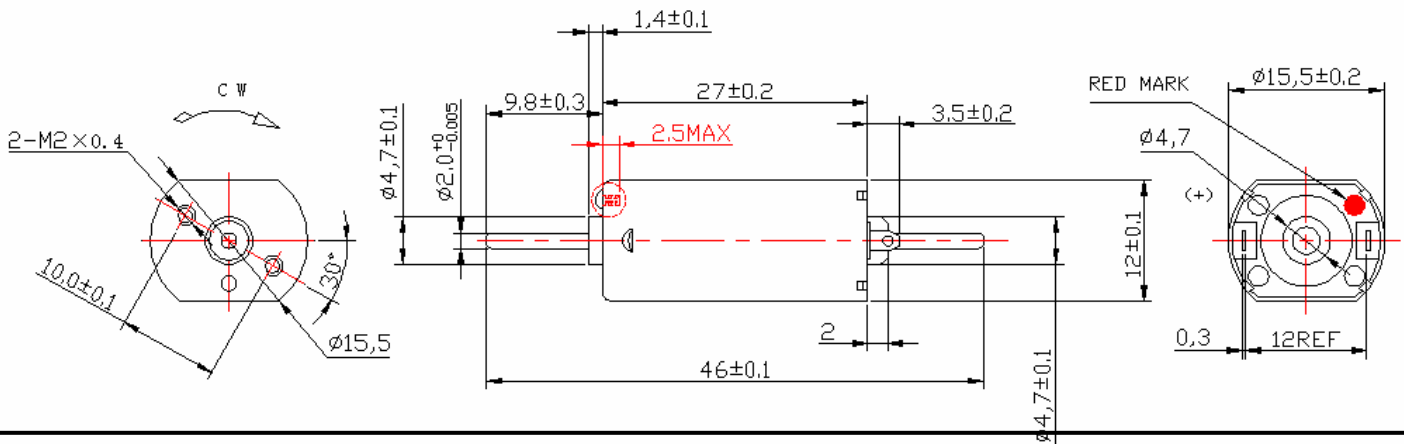
HO Motor With Rare Earth Magnets

MODEL: FK055-10115-46 (5 POLES)



Typical Applications: Toy train, Train Model.

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
13000	130	330	9313	18	1.82	67	0.84	75	3.0



H O MOTOR

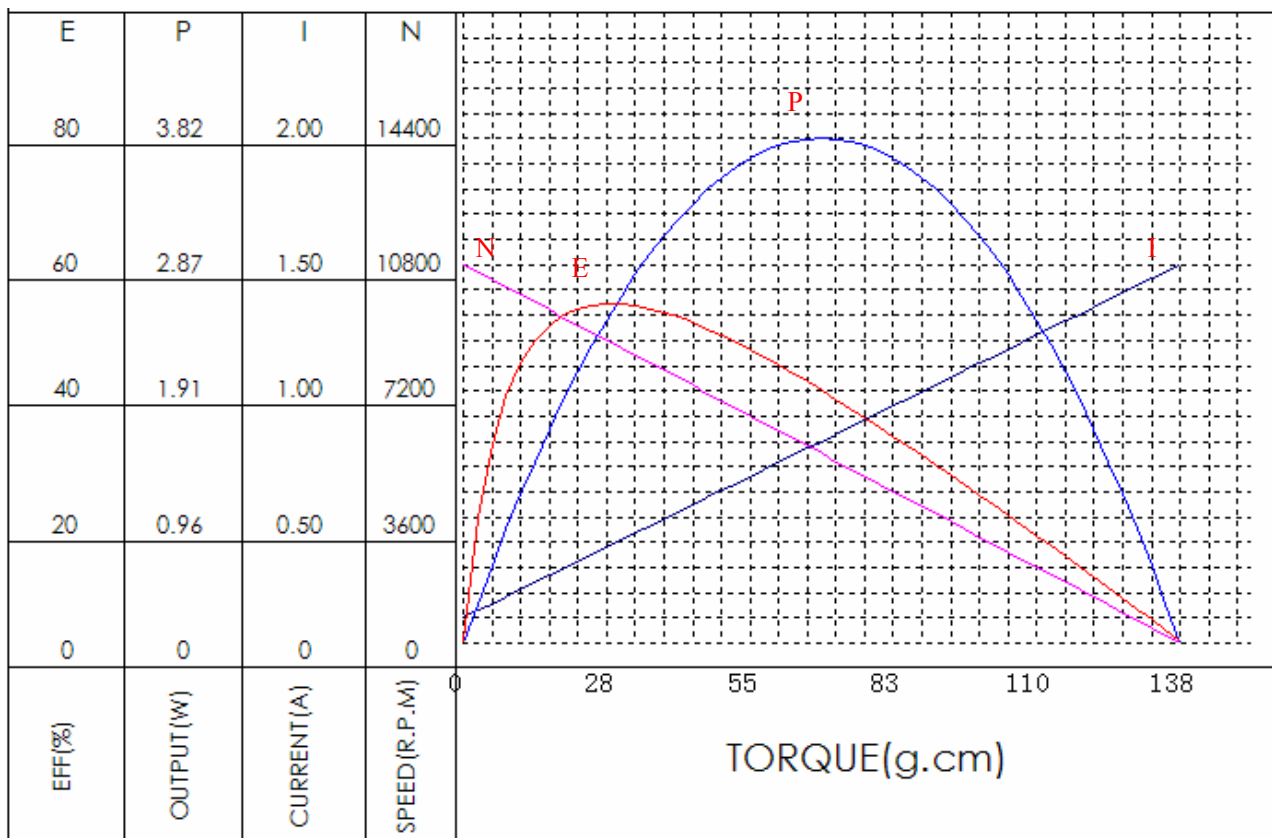
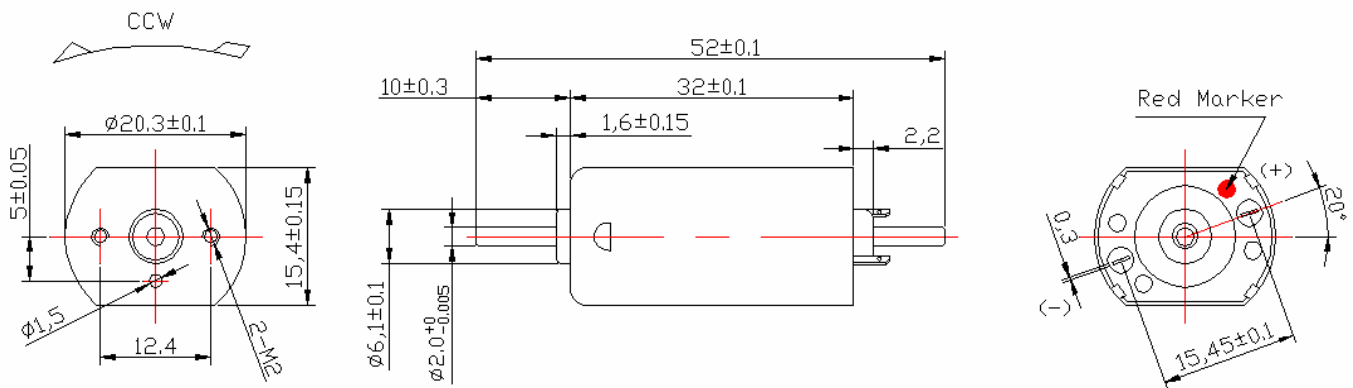
UPDATA: 2018-2-1 (HANXIN)

Typical Applications: Toy train, Train Model

MODEL: FK185-14105-52 (5 POLES)



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
10800	110	390	8530	29	2.54	138	1.50	72	1.0



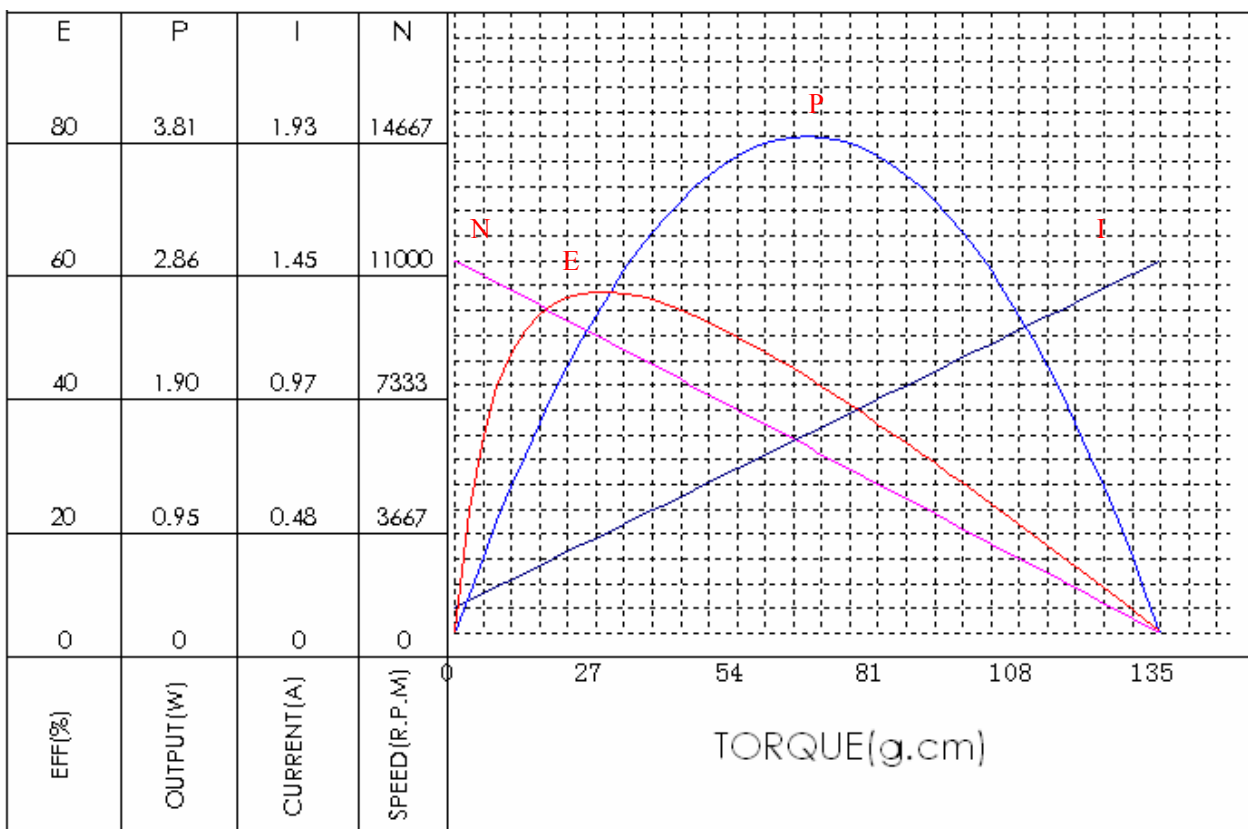
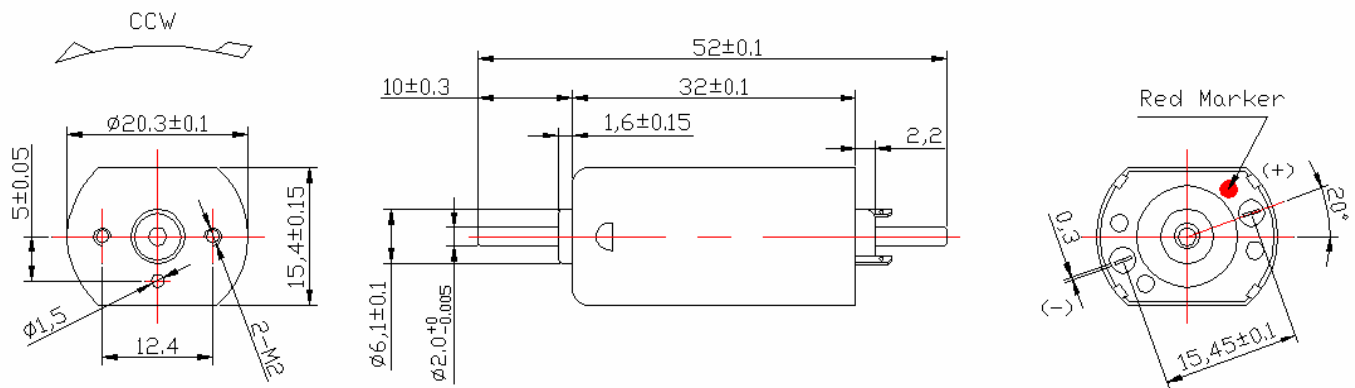
H O MOTOR

Typical Applications: Toy train, Train Model

MODEL: FC185-14115-52 (5 POLES)

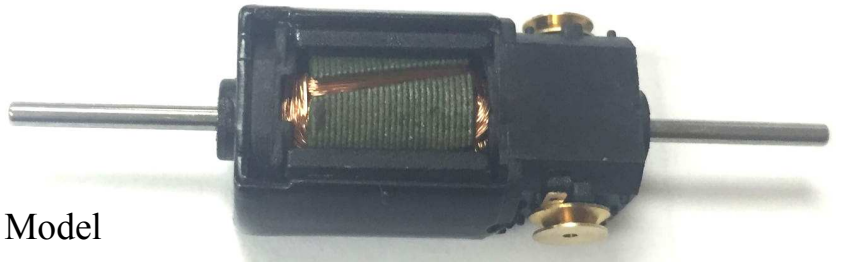


DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
10000	85	380	8719	28	2.5	135	1.45	72	1.0



N MOTOR

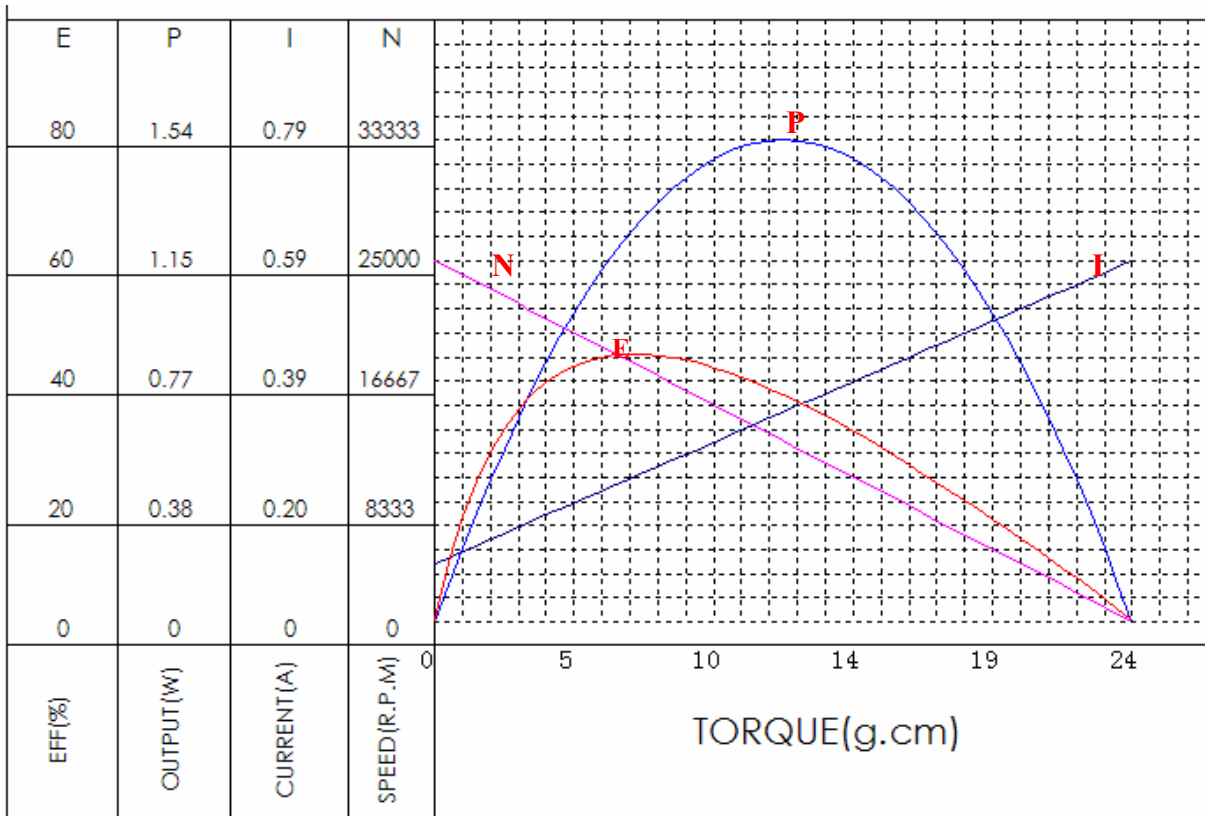
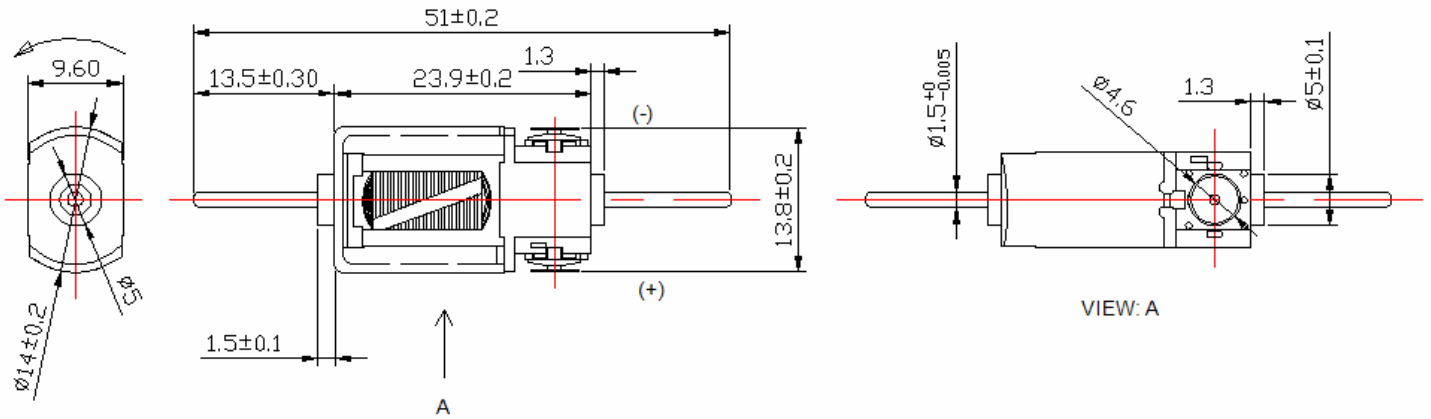
With Rare Earth Magnets



Typical Applications: Toy train, Train Model

MODEL: 302-E-51 (5 POLES)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
24000	95	240	17857	7.0	1.28	24	0.60	75	3.0



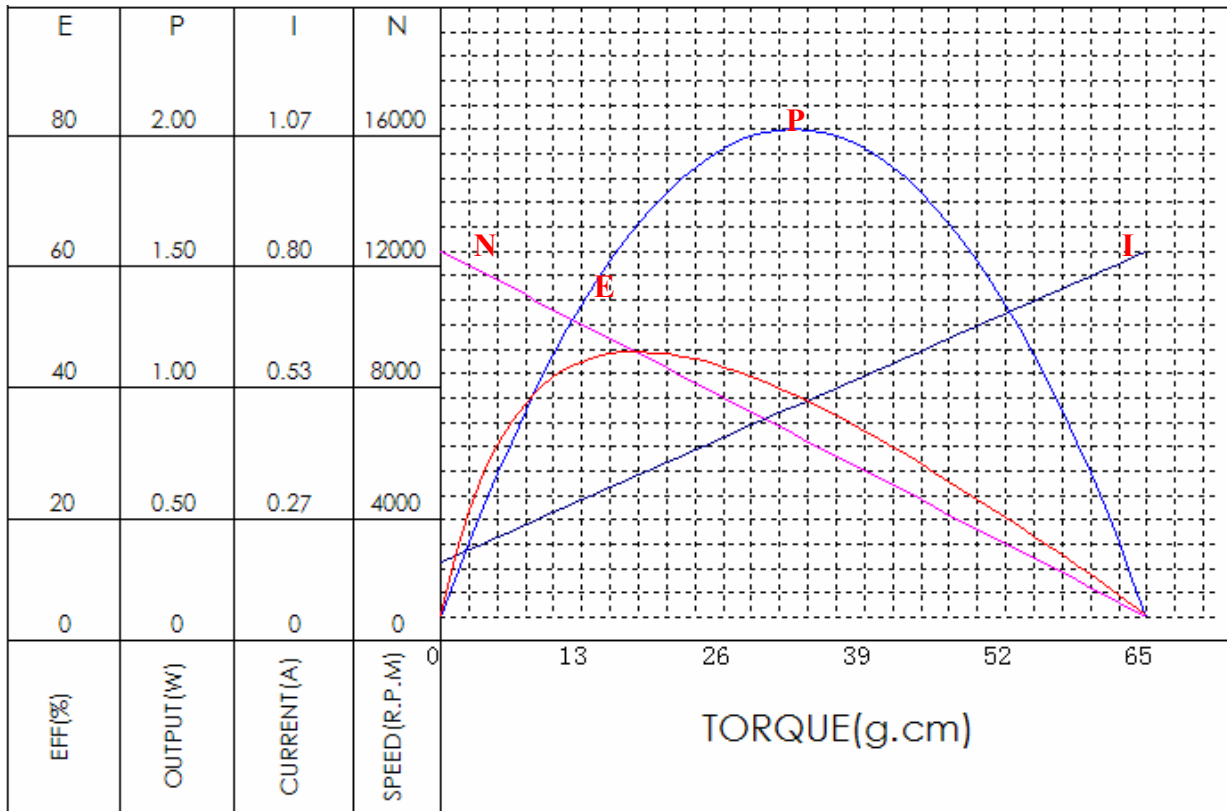
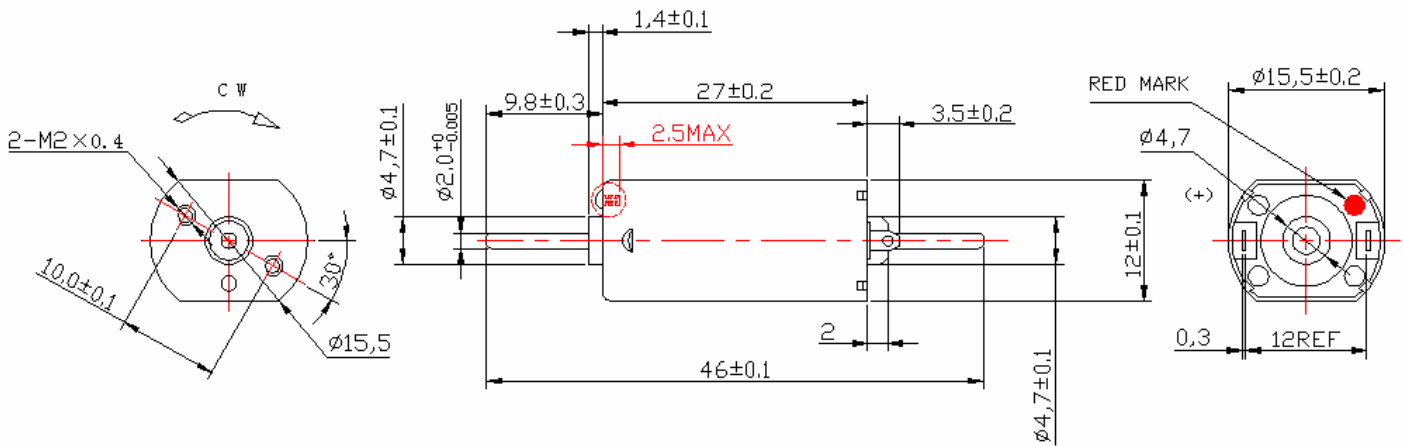
HO Motor With Rare Earth Magnets

MODEL: FK055-10120-46 (5 POLES)



Typical Applications: Toy train, Train Model.

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
12000	120	310	8677	18	1.6	65	0.80	75	2.5



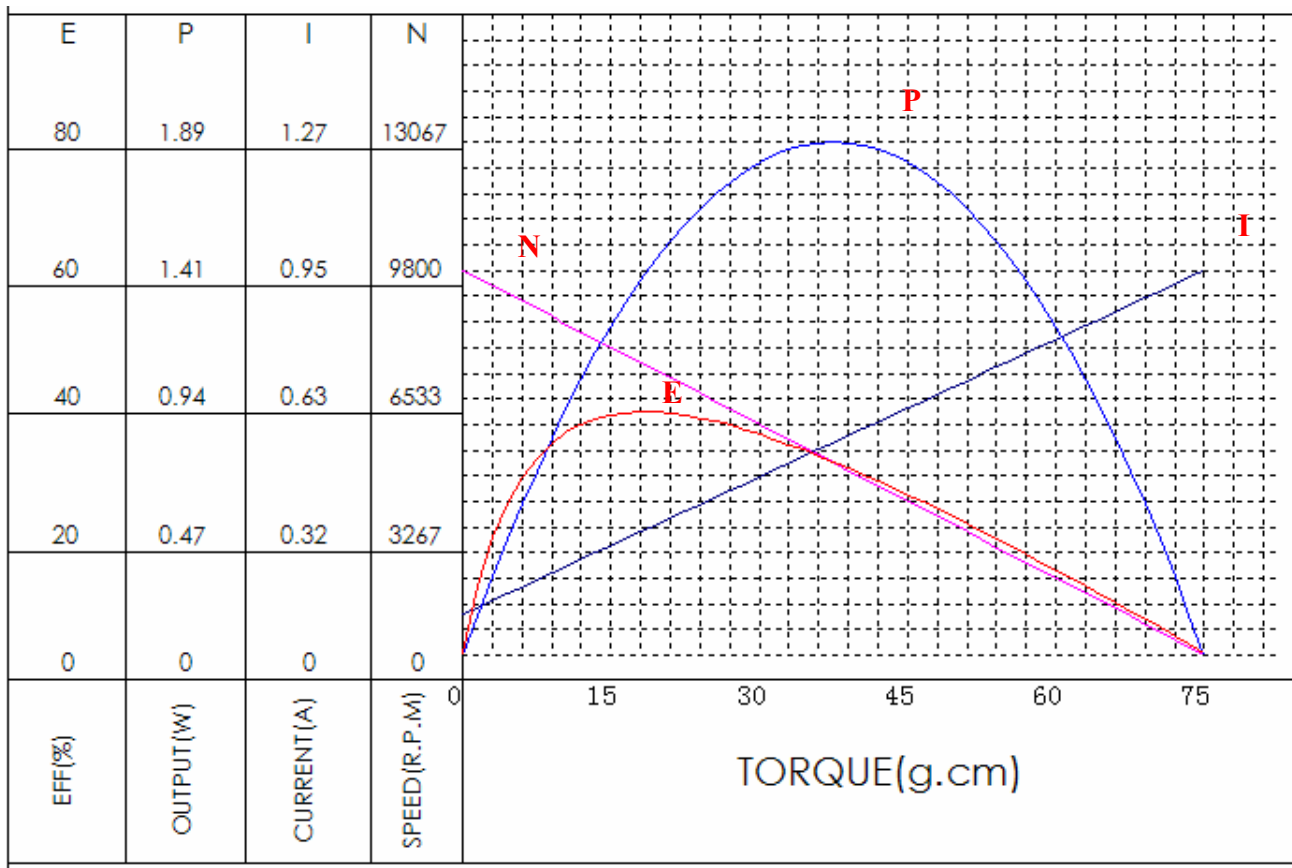
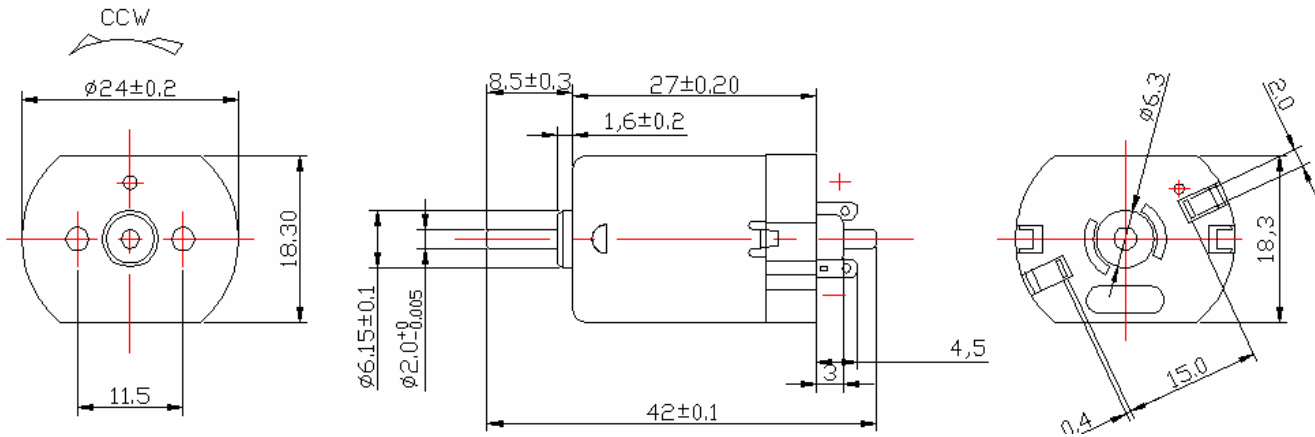
HO MOTOR



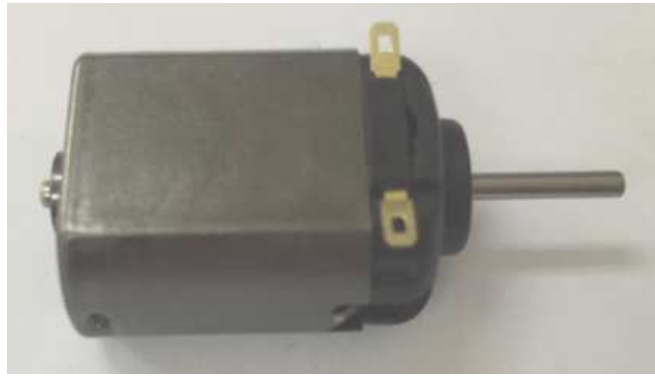
Typical Applications: Toy train, Train Model

MODEL: FK265-12140-42V (5 POLES) HO

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
9800	100	310	7317	19	1.43	75	0.95	70	1.5

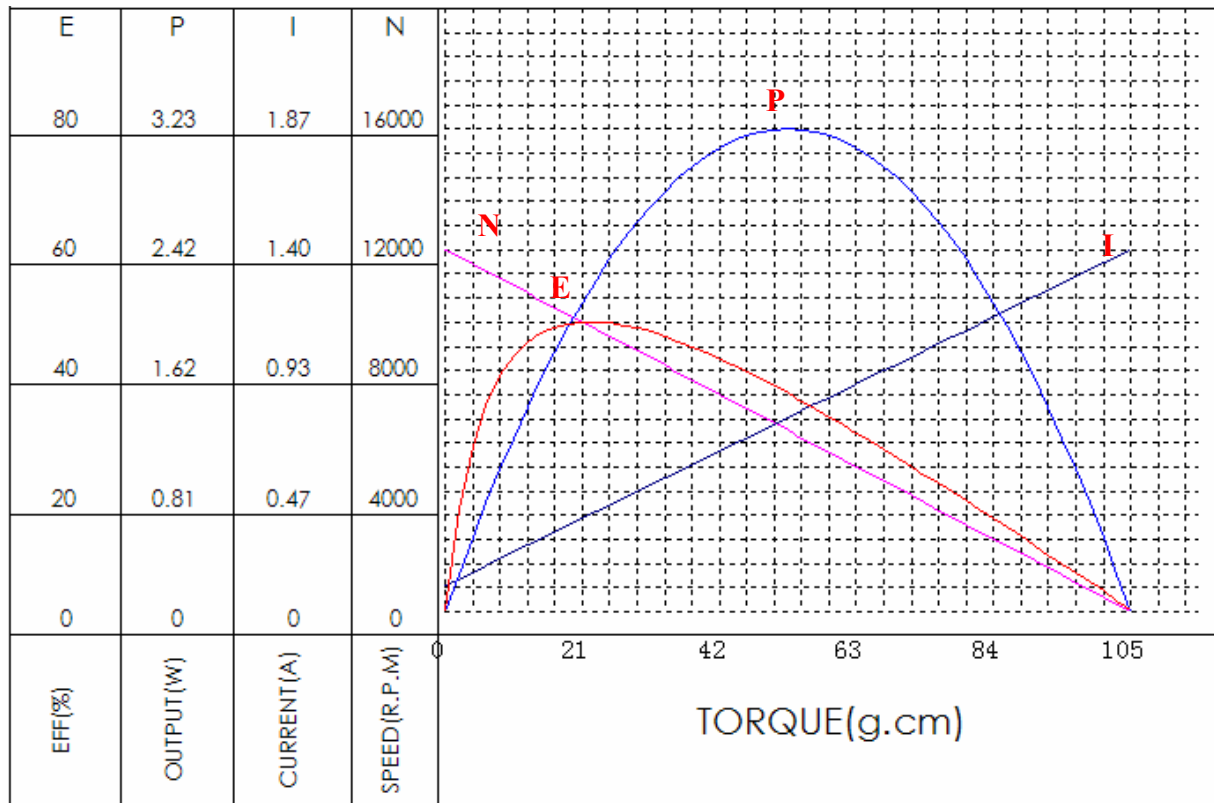
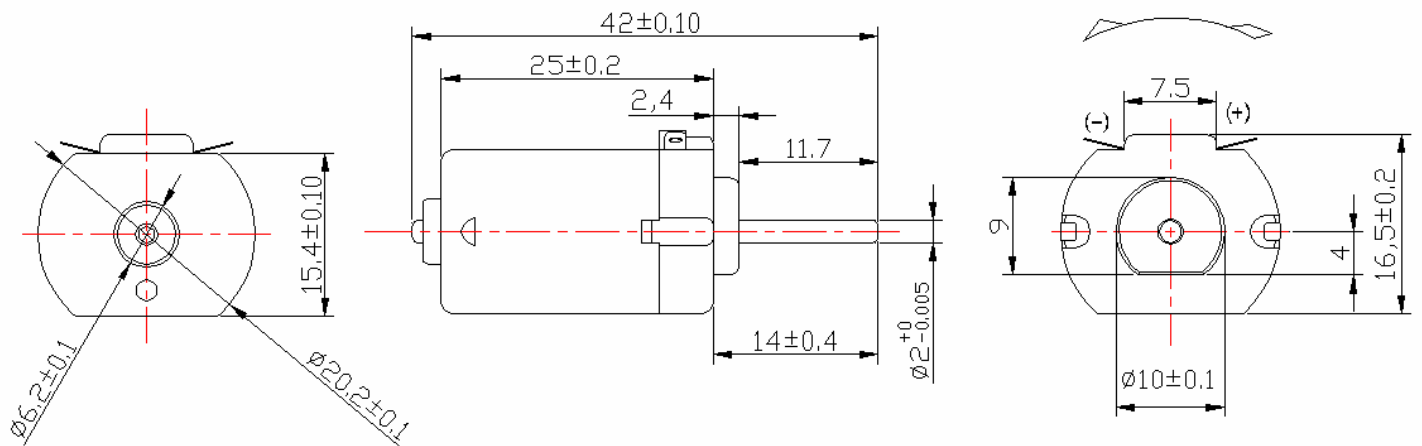


HO MOTOR



MODEL: FC135-14120-42 (5 POLES)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
12000	110	370	9486	22	2.14	105	1.40	80	1.8
±10%	130MAX	400MIN	±10%			±10%	1.45Min	≤80	≤1.8



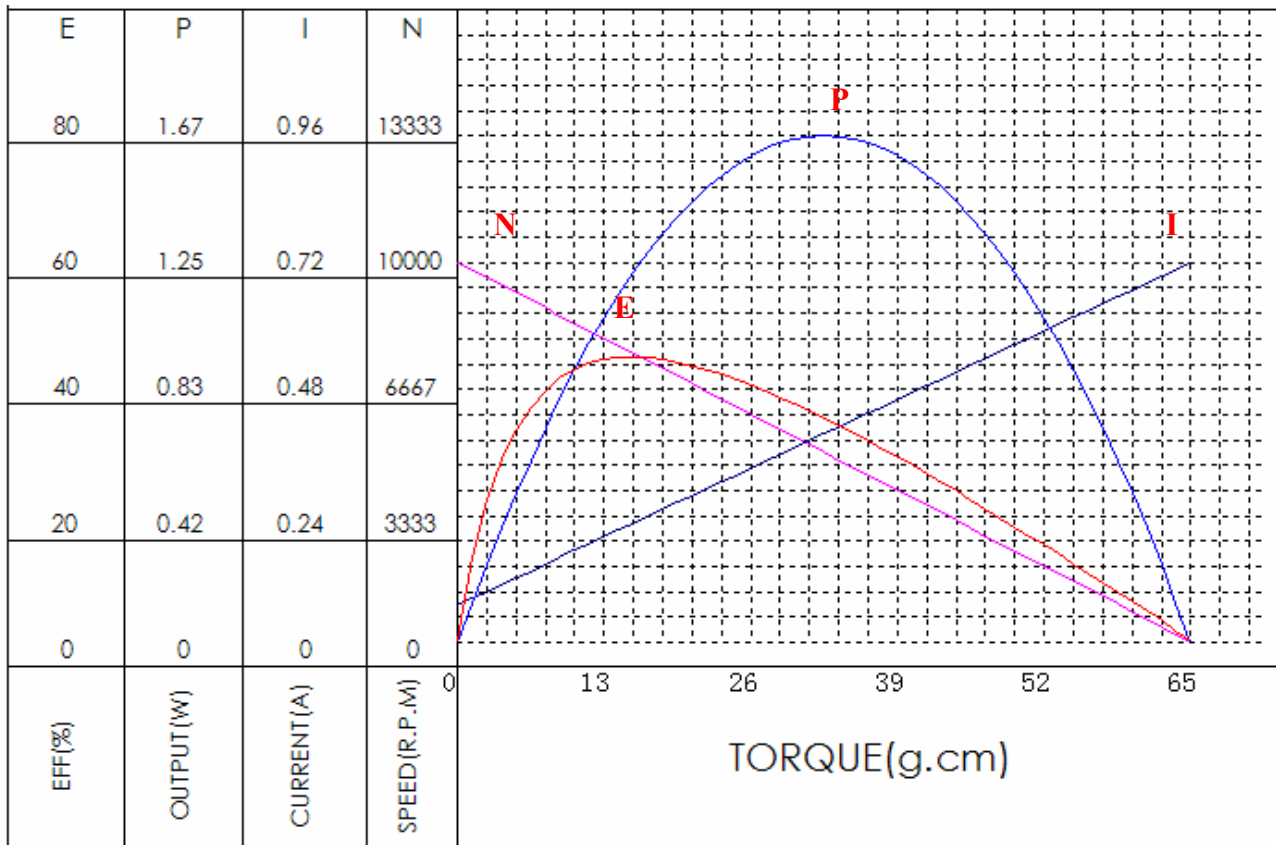
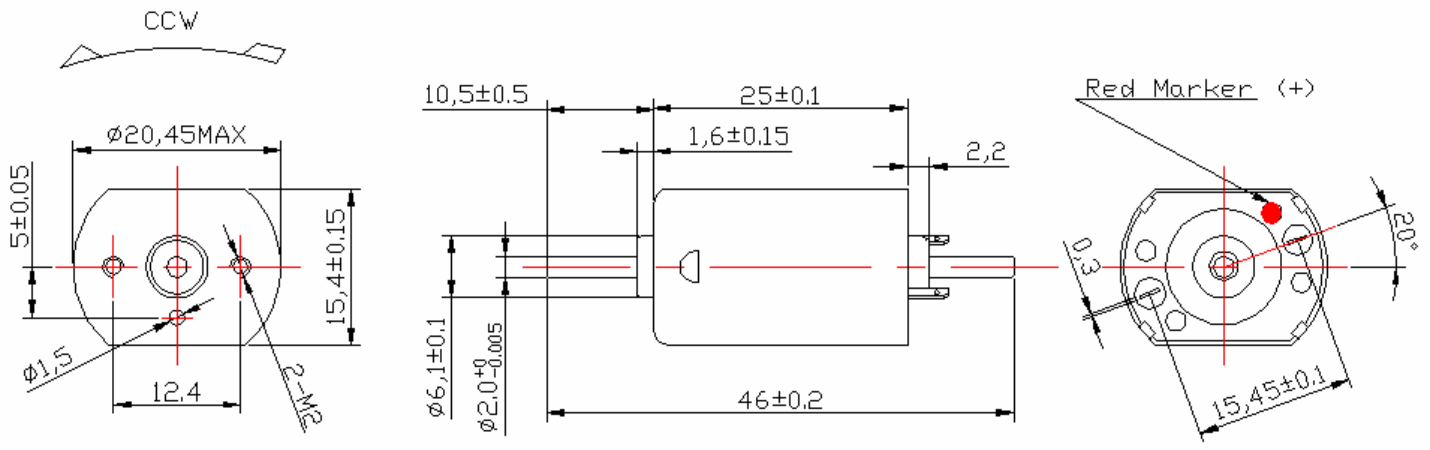
HO MOTOR



Typical Applications: Toy train, Train Model

MODEL: FK135-11170-46 (5 POLES)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
9000	90	220	7692	15	1.18	65	0.72	70	1.8
±10%	105Max	ref	ref	ref	ref	60 min	0.68 min	70Max	2.0Max



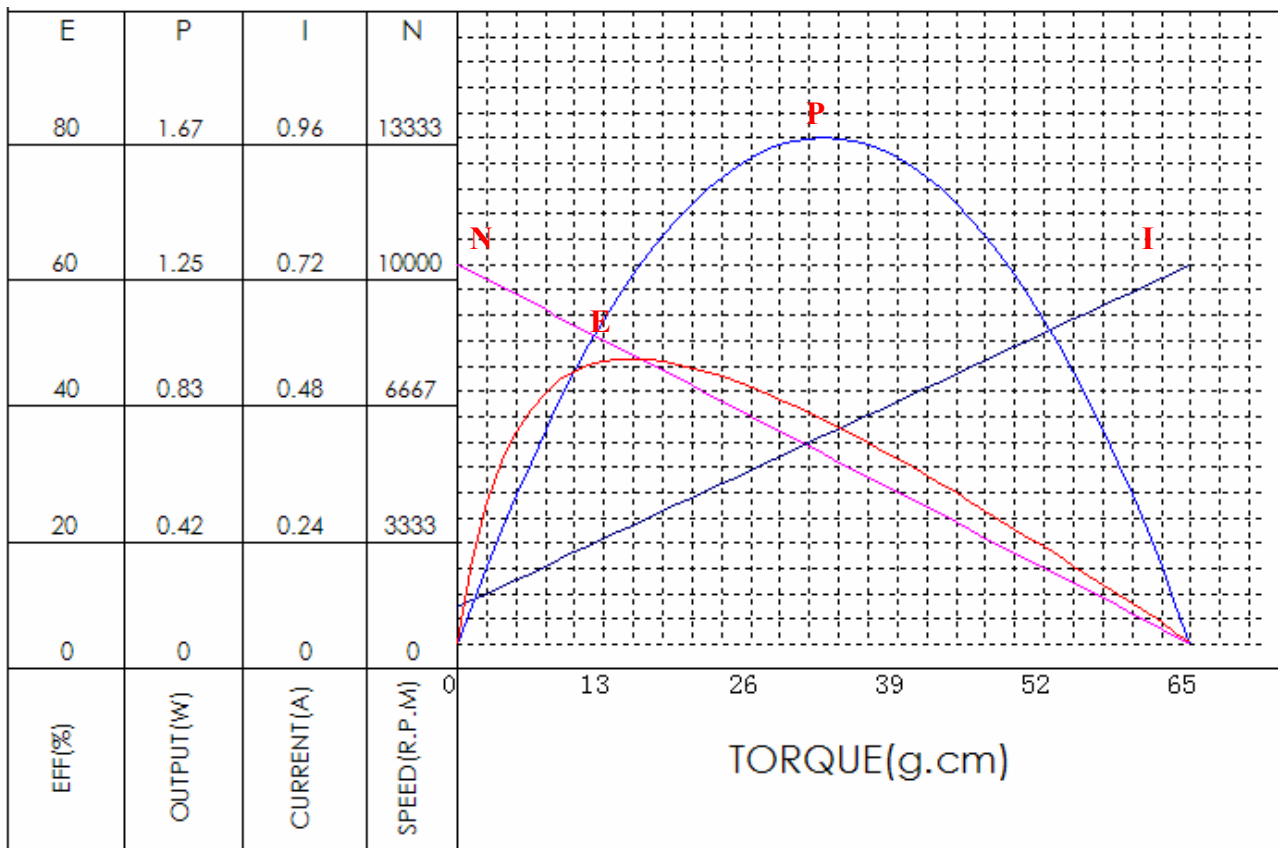
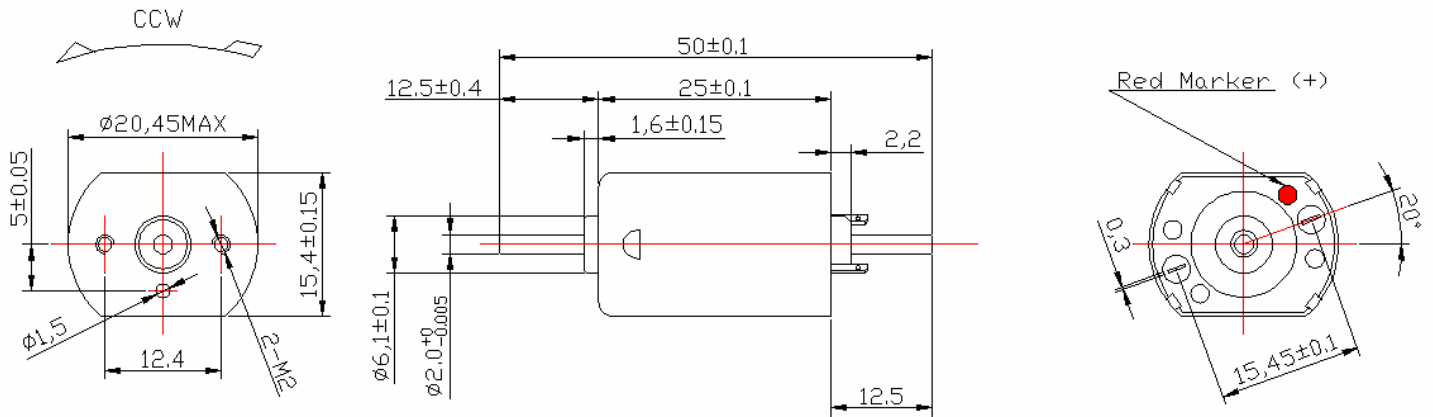
HO MOTOR

Typical Applications: Toy train, Train Model

MODEL: FK135-11170-50 (5 POLES)



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
10000	70	220	7692	15	1.18	65	0.72	70	1.5
±10%	105Max	ref	ref	ref	ref	60 min	0.68 min	70Max	2.0Max



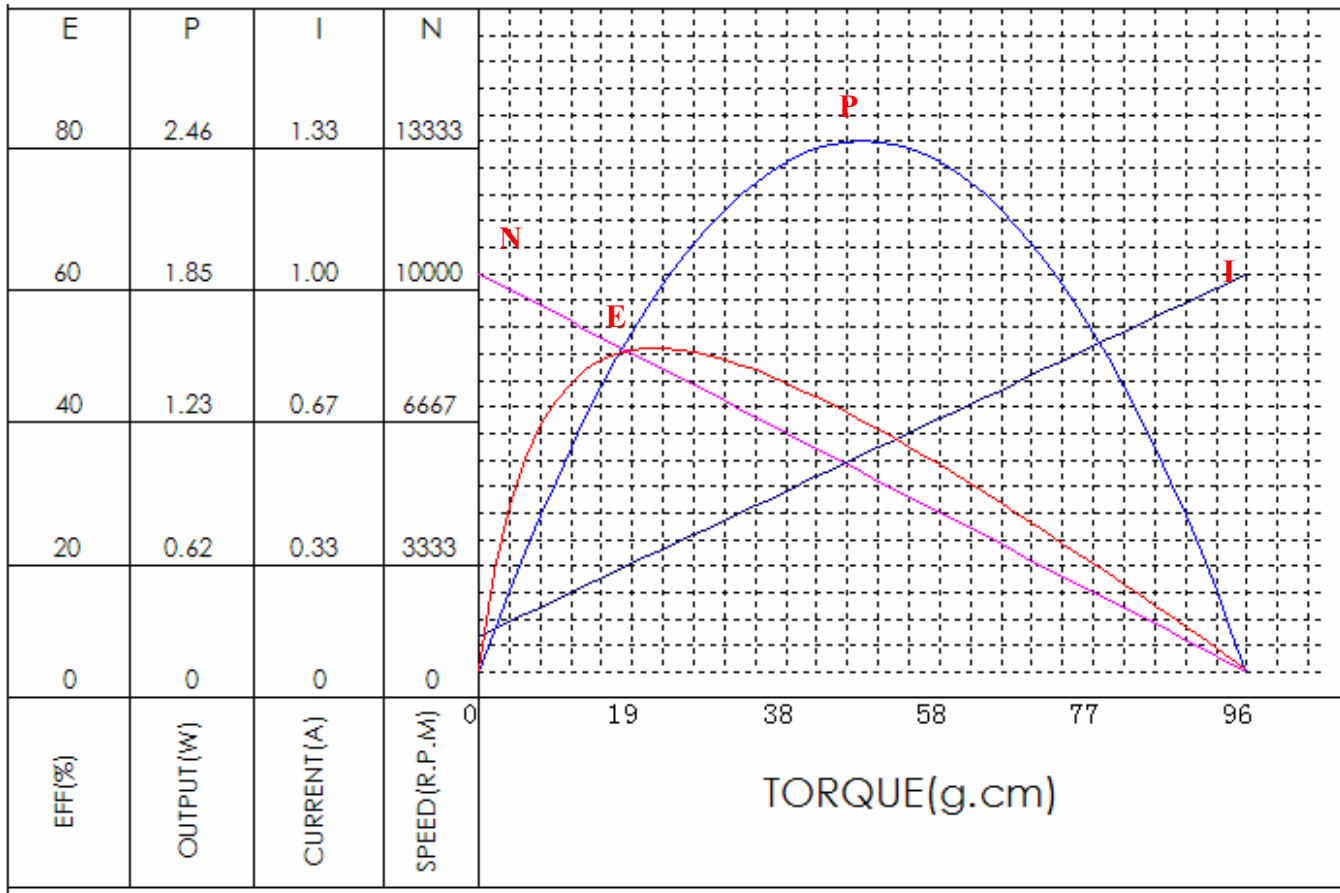
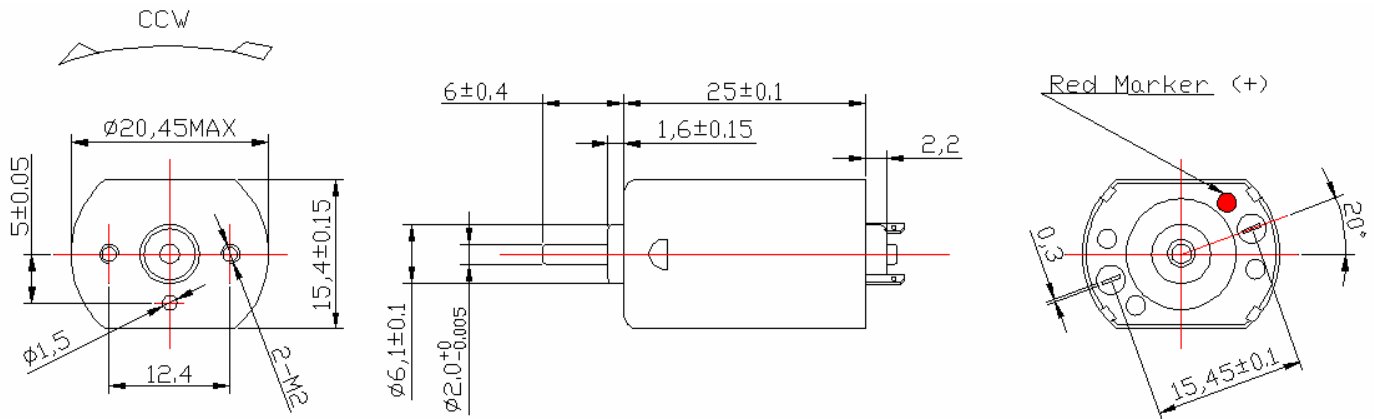
HO Motor With Rare Earth Magnets



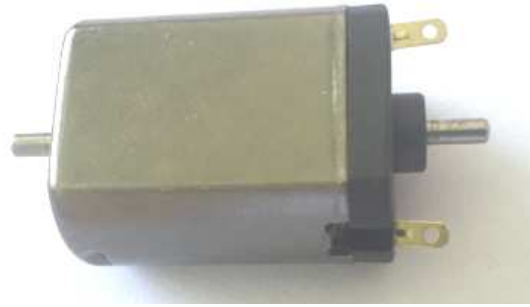
Typical Applications: Toy train, Train Model

MODEL: FK135-12135-36V (5 POLES)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
10000	90	300	7708	22	1.34	96	1.0	72	2.0



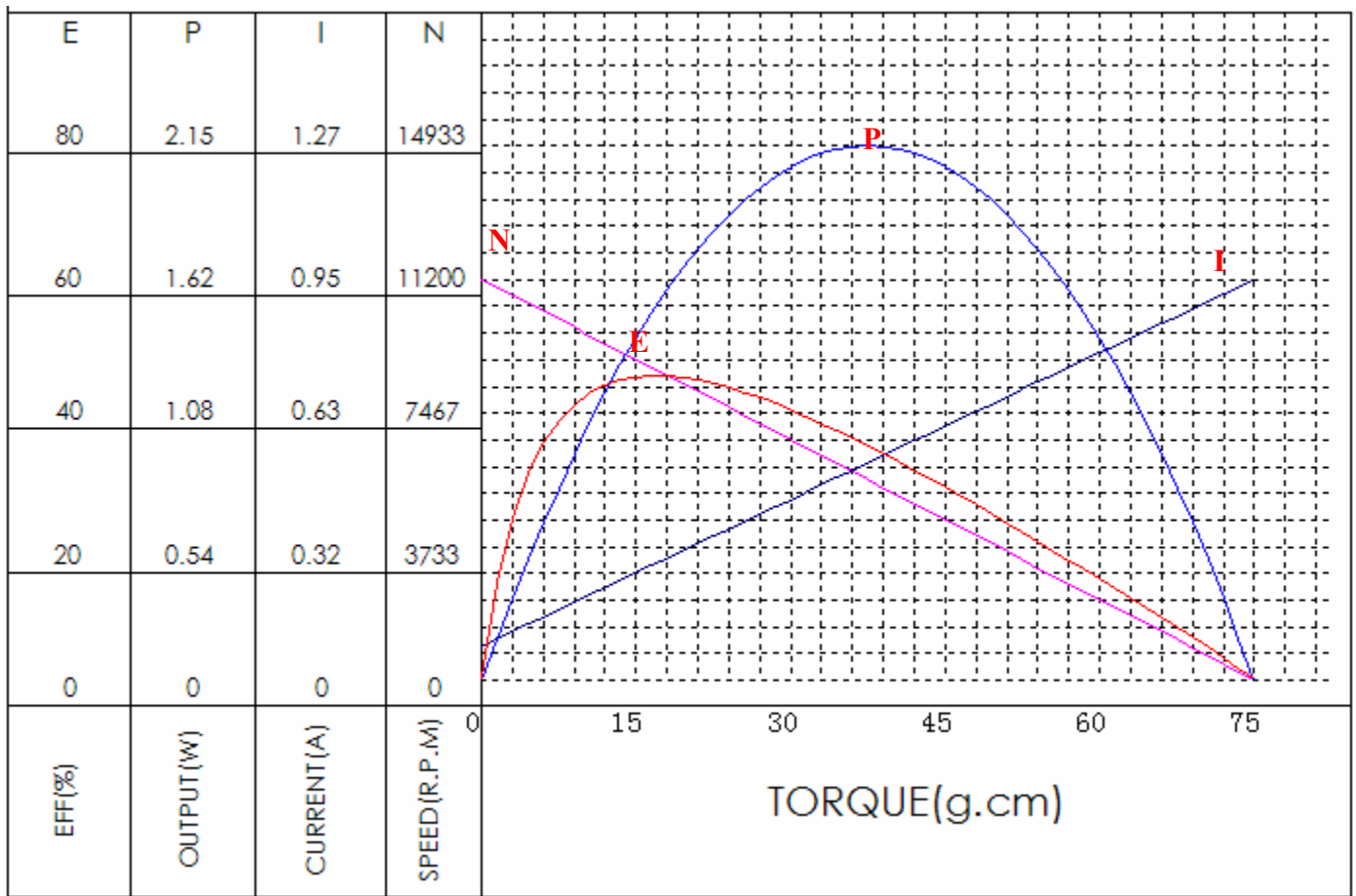
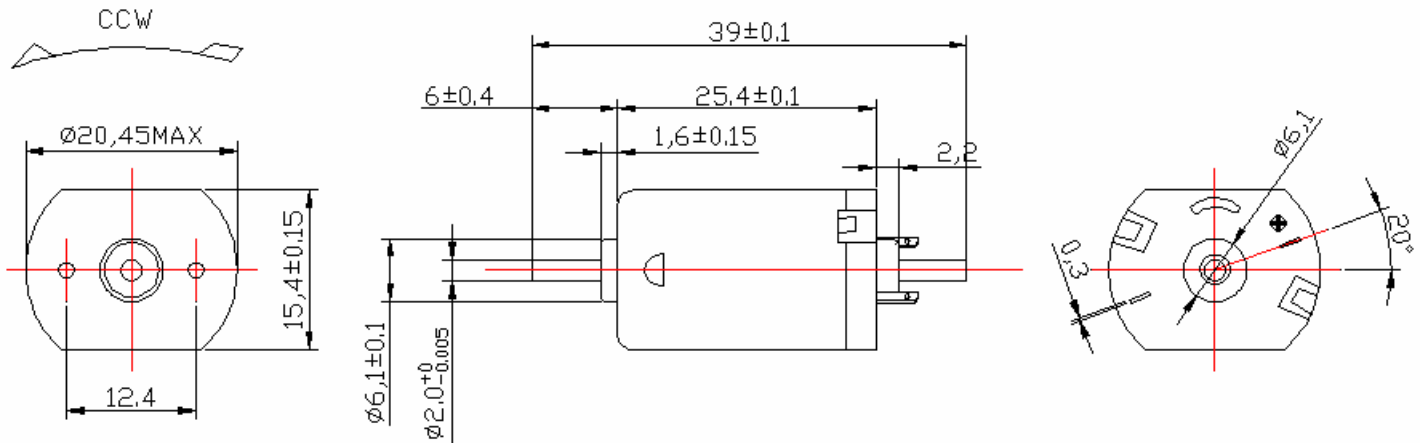
Ho Motor



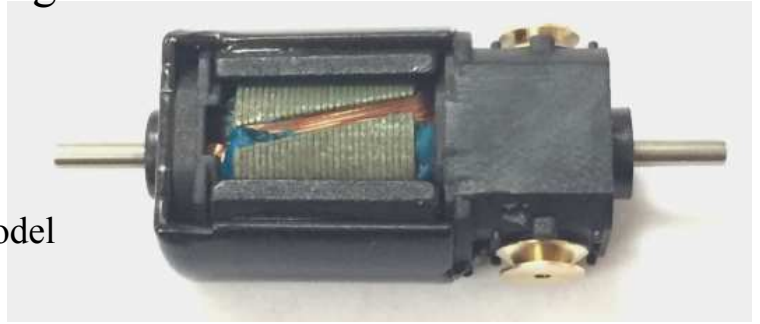
Typical Applications: Toy train, Train Model

MODEL: FK135-12150-39V (5 POLES)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
11200	90	280	8661	17	1.51	75	0.95	72	1.50



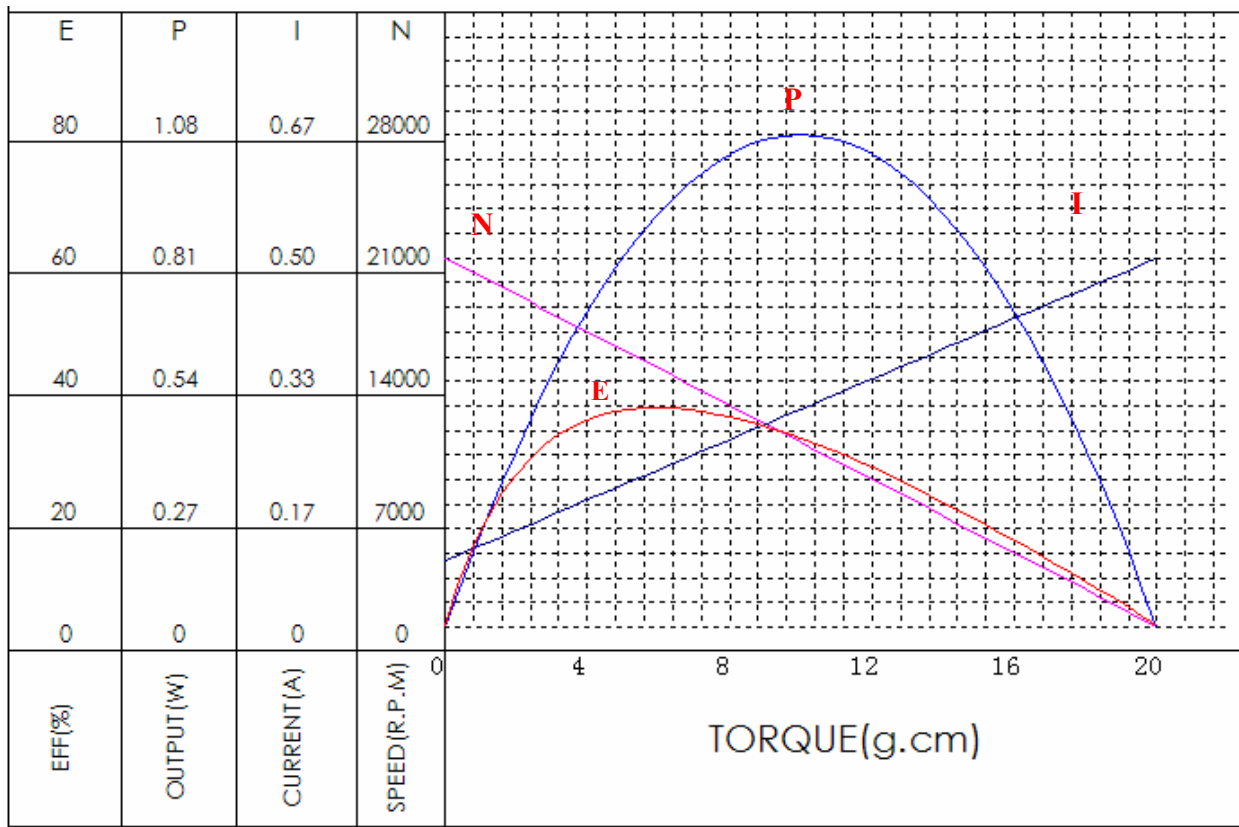
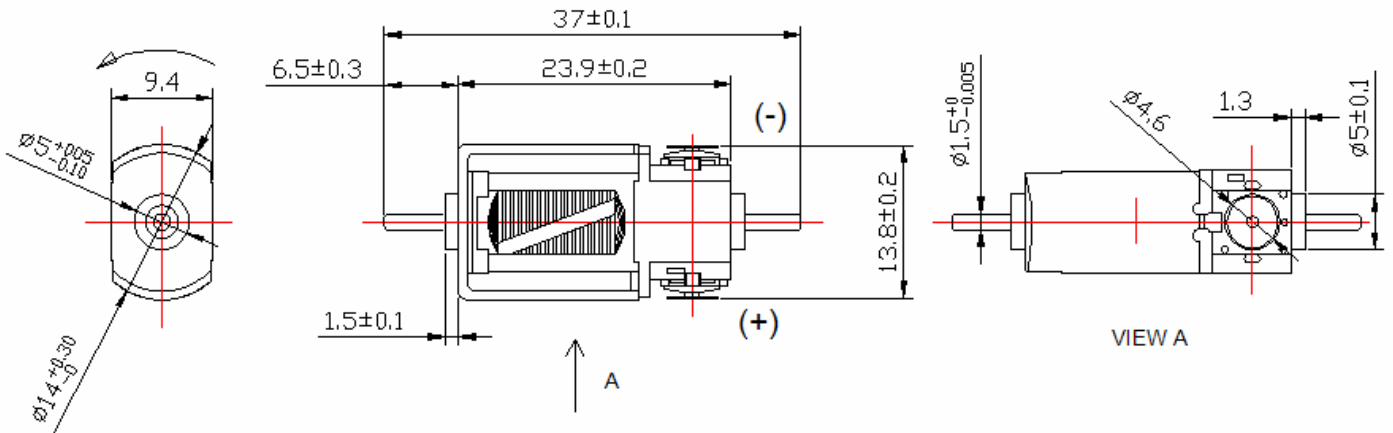
N MOTOR With Rare Earth Magnets



Typical Applications: Toy train, Train Model

MODEL: 302-E-37 (5 POLES)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
21000	90	210	14700	6.0	0.90	20	0.50	75	2.5



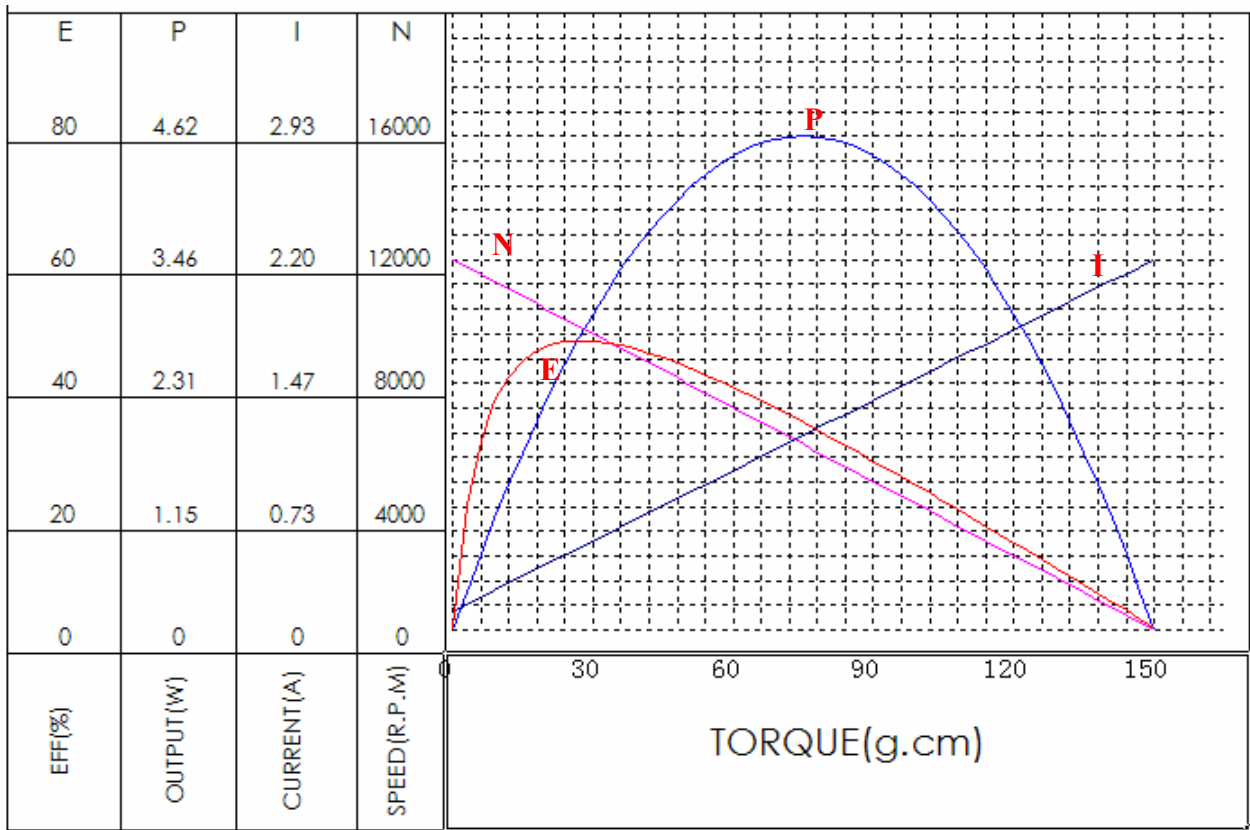
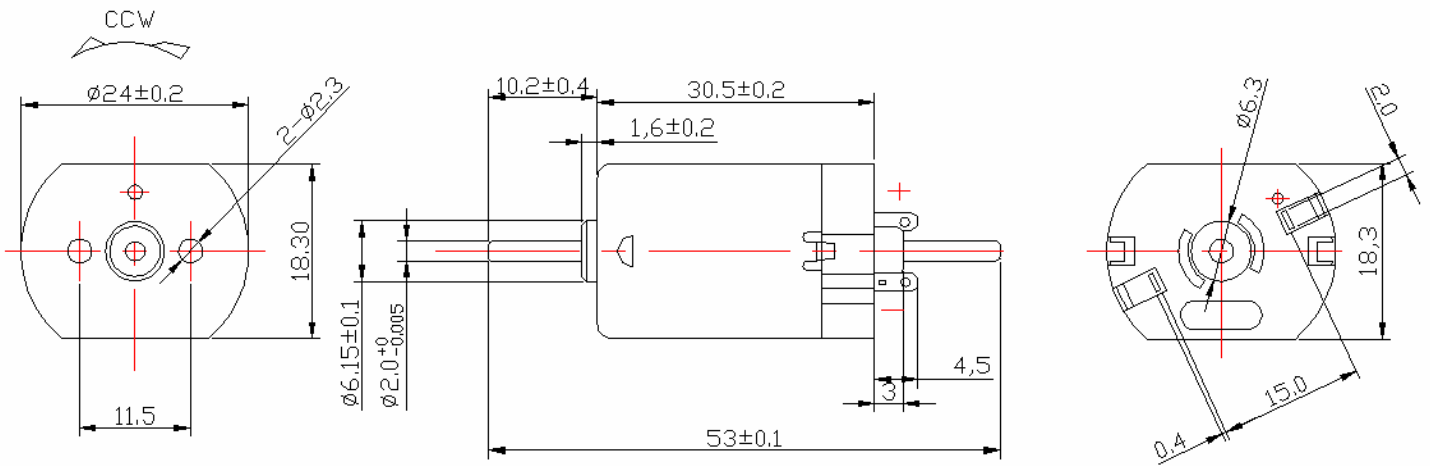
HO MOTOR

Typical Applications: Toy train, Train Model

MODEL: FK285-16100-53 (5 POLES)



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
12000	110	490	9840	27	2.73	150	2.2	75	1.5



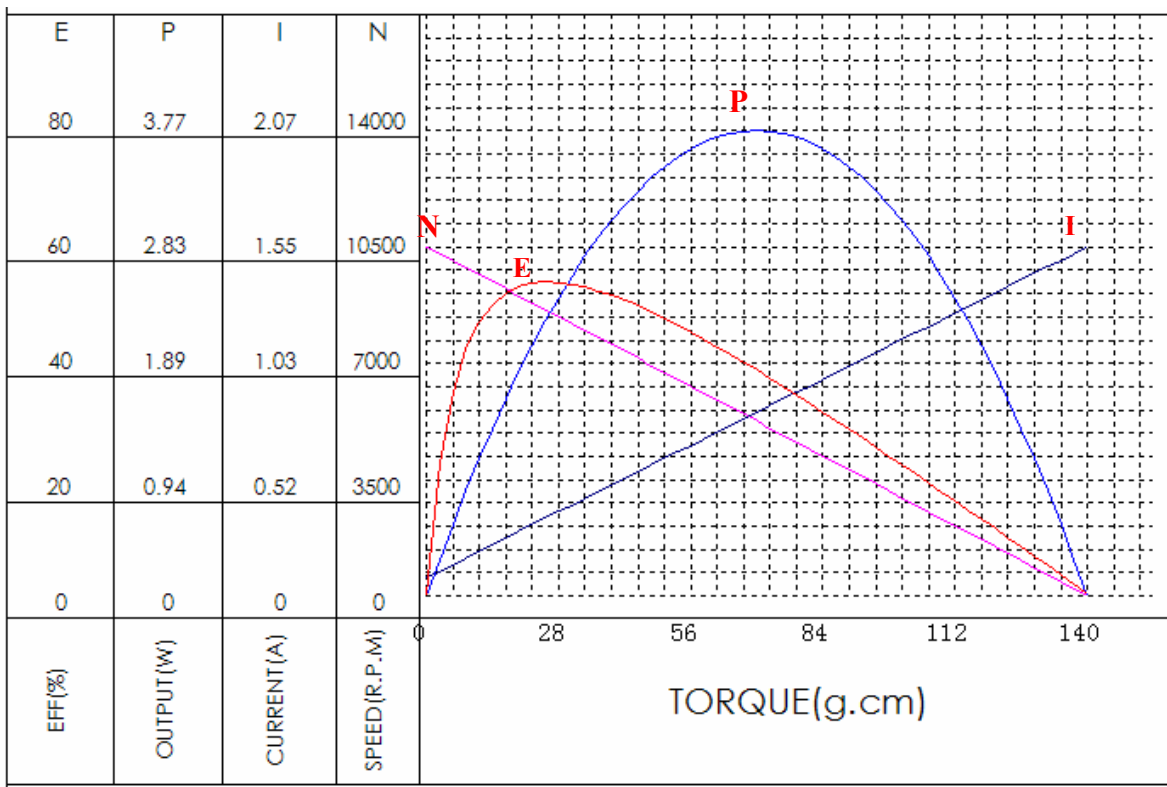
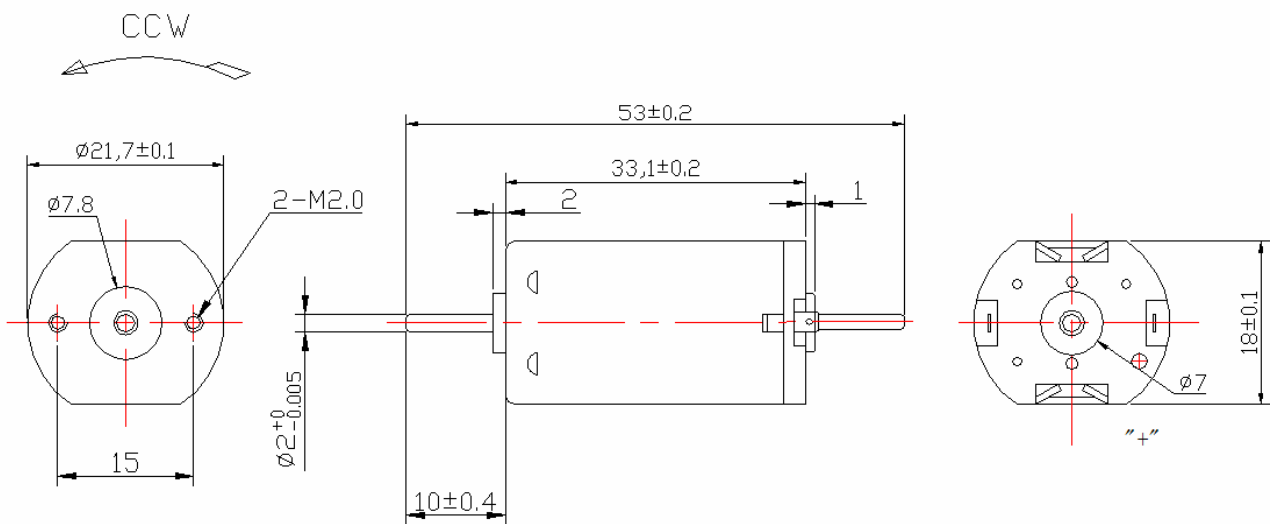
HO MOTOR



Typical Applications: Toy train, Train Model

MODEL: FC285-15115-53 (5 POLES)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
10500	90	350	8550	26	2.28	140	1.50	72	1.5



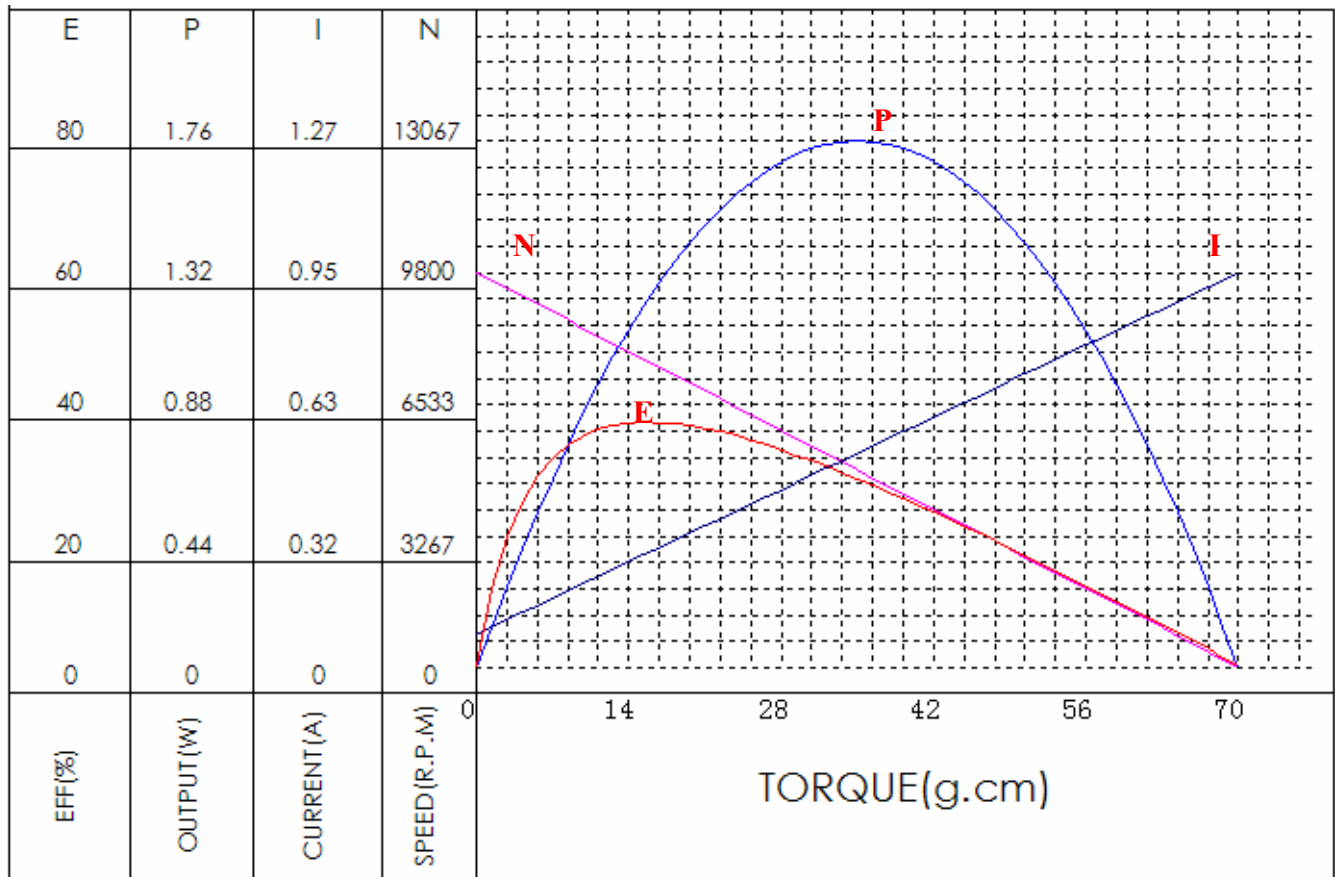
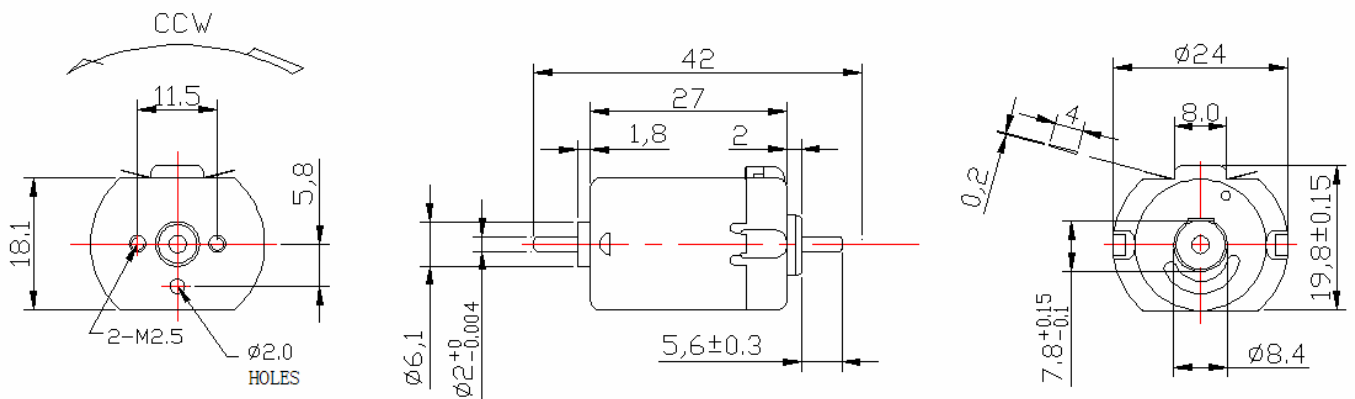
HO MOTOR



Typical Applications: Toy train, Train Model

MODEL: FC265-12143-42 (5 POLES) HO

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
9800	90	280	7560	16	1.24	70	0.95	73	1.50



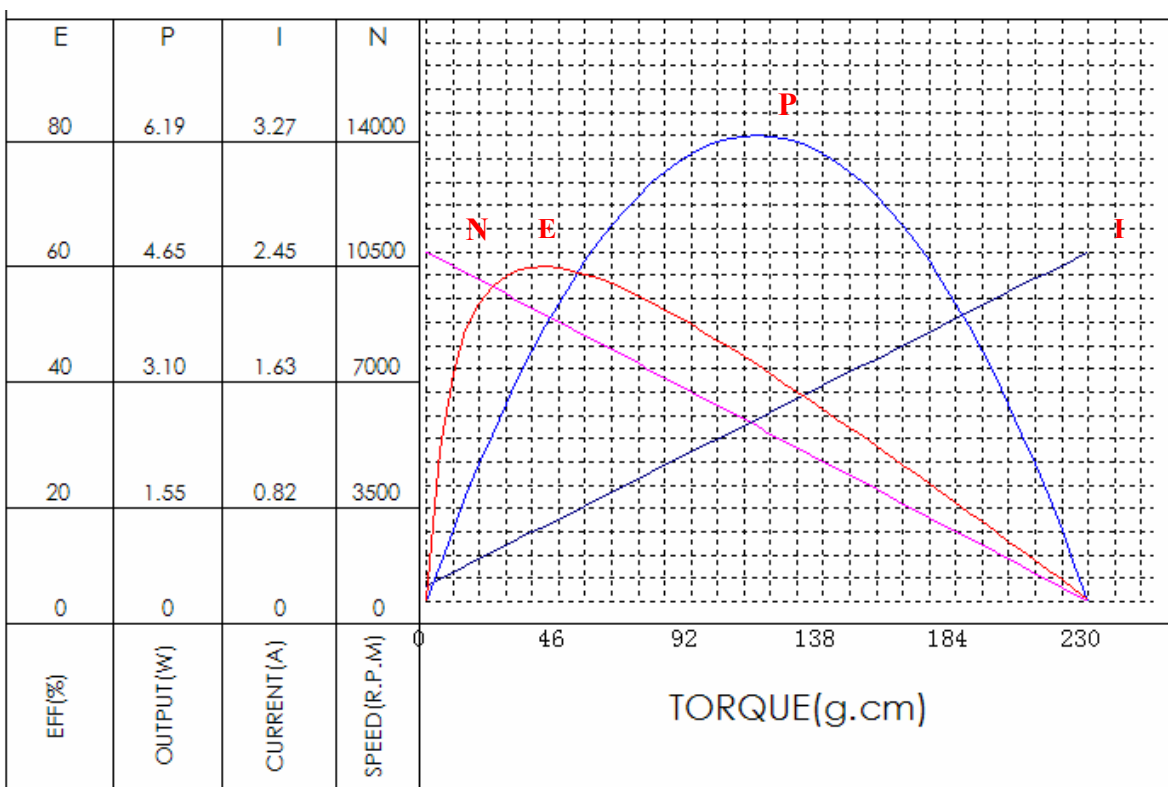
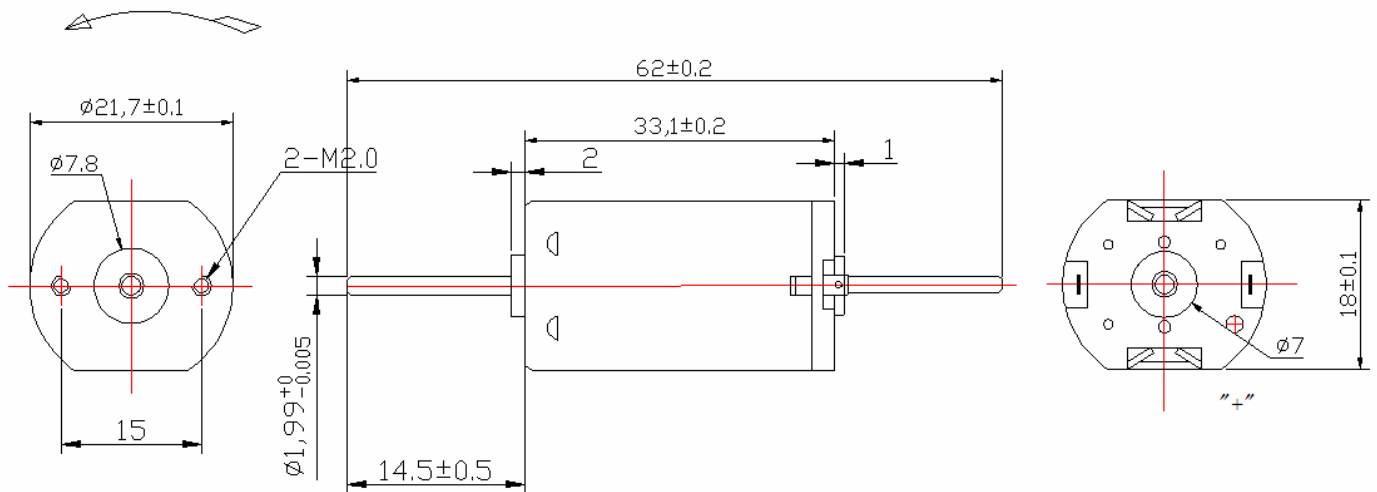
HO MOTOR With Rare Earth Magnets



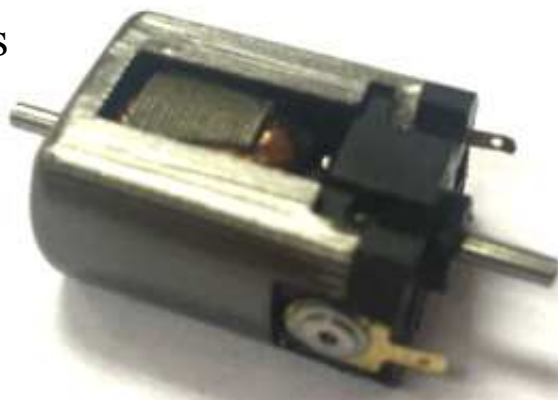
Typical Applications: Toy train, Train Model.

MODEL: FC285-1790-62 (5 POLES)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
10500	110	520	8674	40	3.56	230	2.45	73	1.5



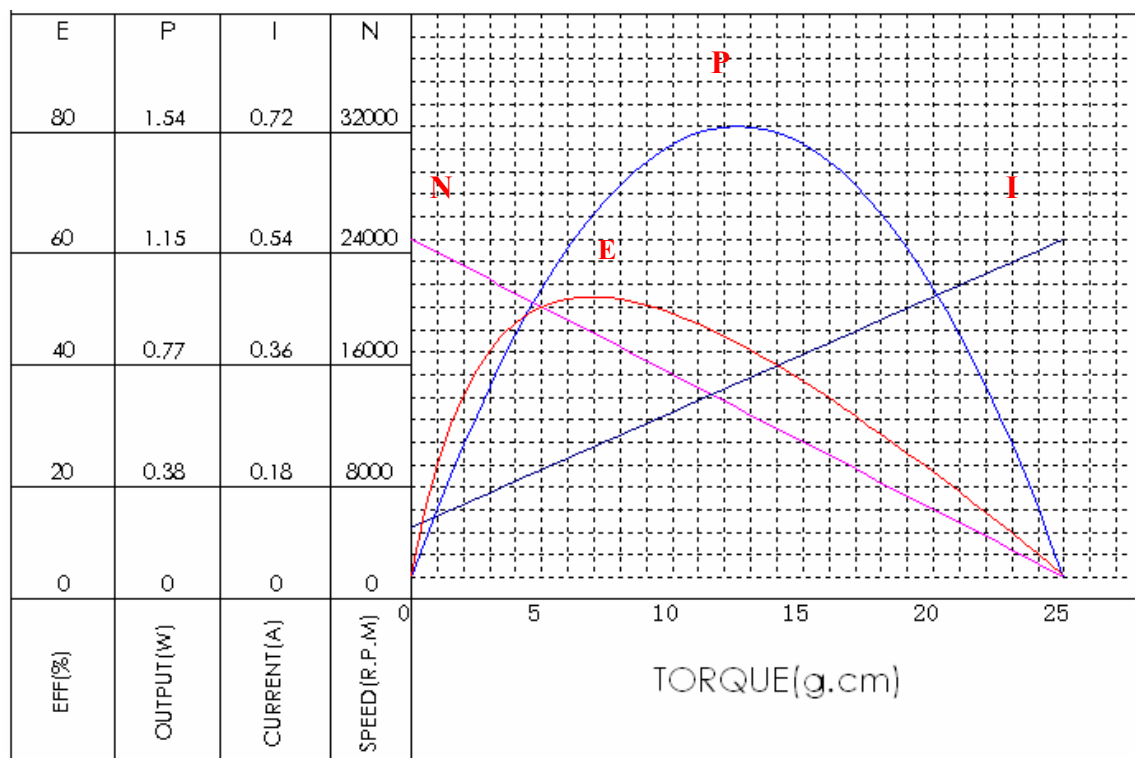
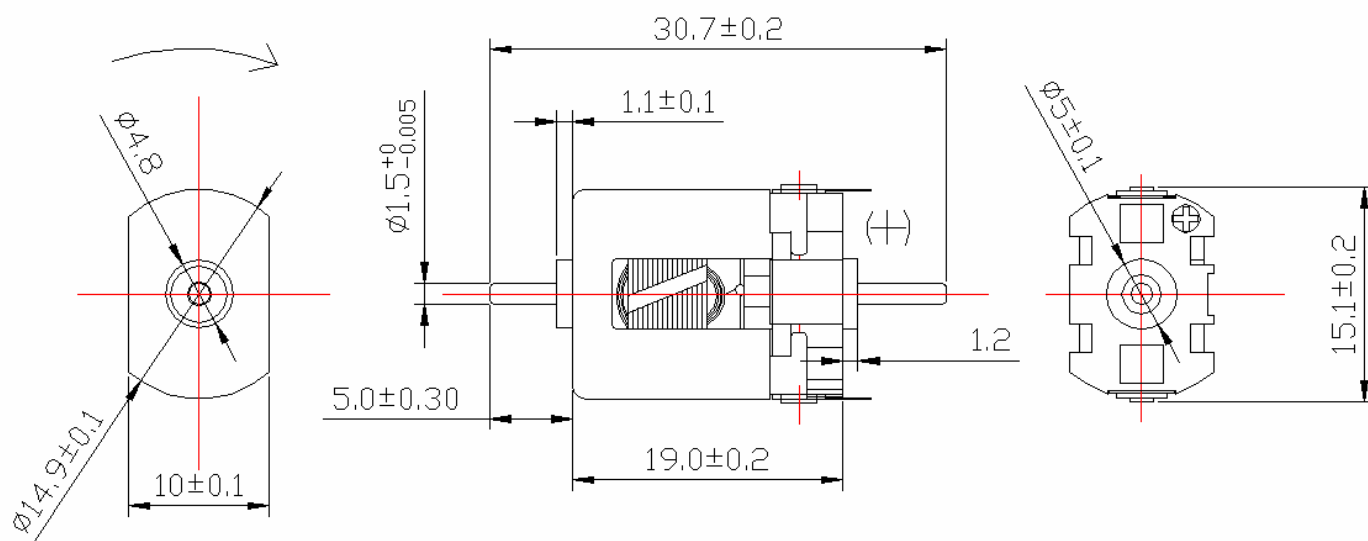
N MOTOR With Rare Earth Magnets



Typical Applications: Toy train, Train Model

MODEL: 847-E003G-30.7 (3or 5 POLES)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
23000	80	210	17450	6	1.24	22	0.50	78	2.0



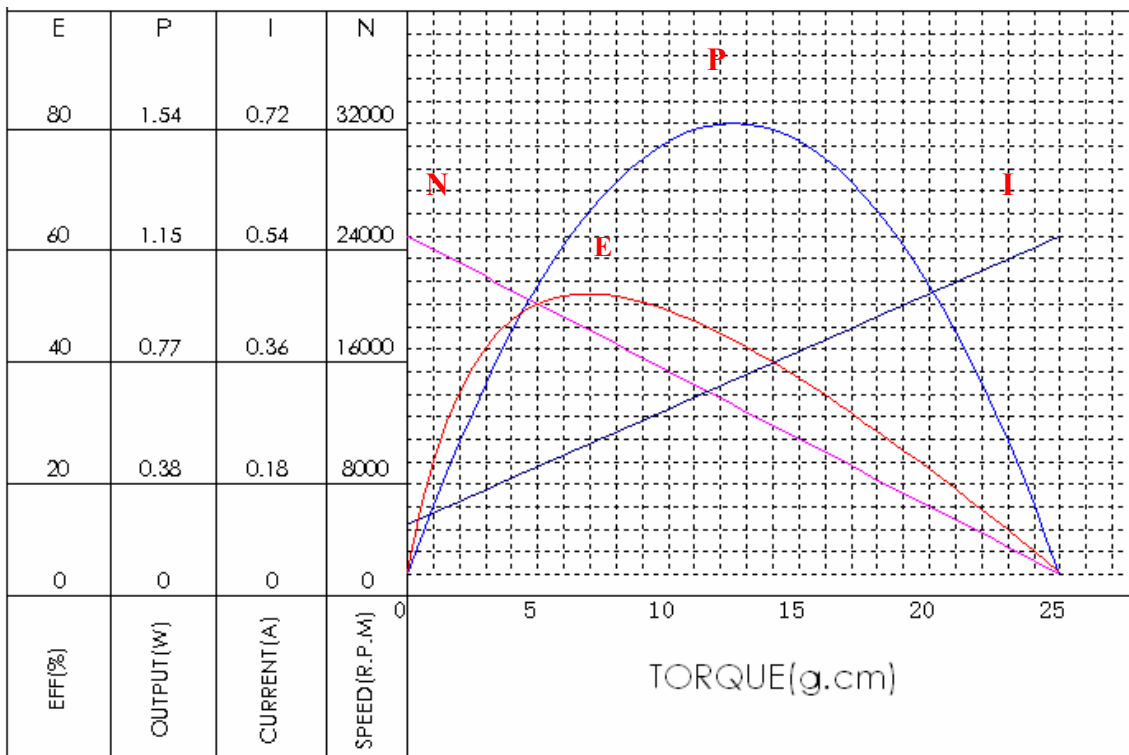
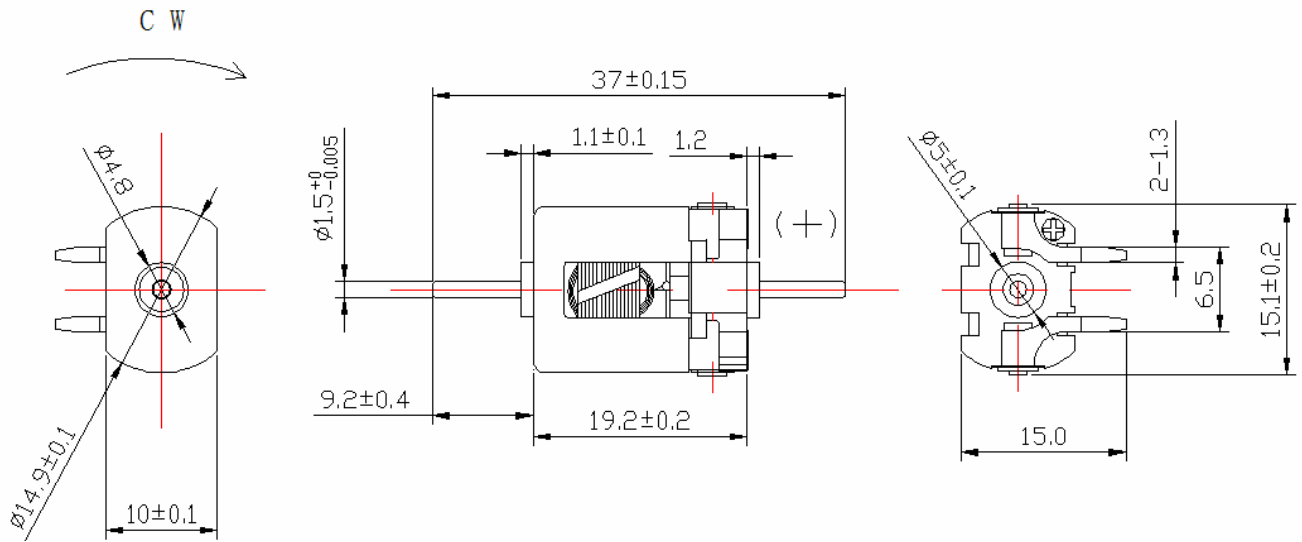
N MOTOR With Rare Earth Magnets



Typical Applications: Toy train, Train Model

MODEL: 847-E003-37 (3or 5 POLES)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
23000	80	210	17450	6	1.24	22	0.50	78	2.0



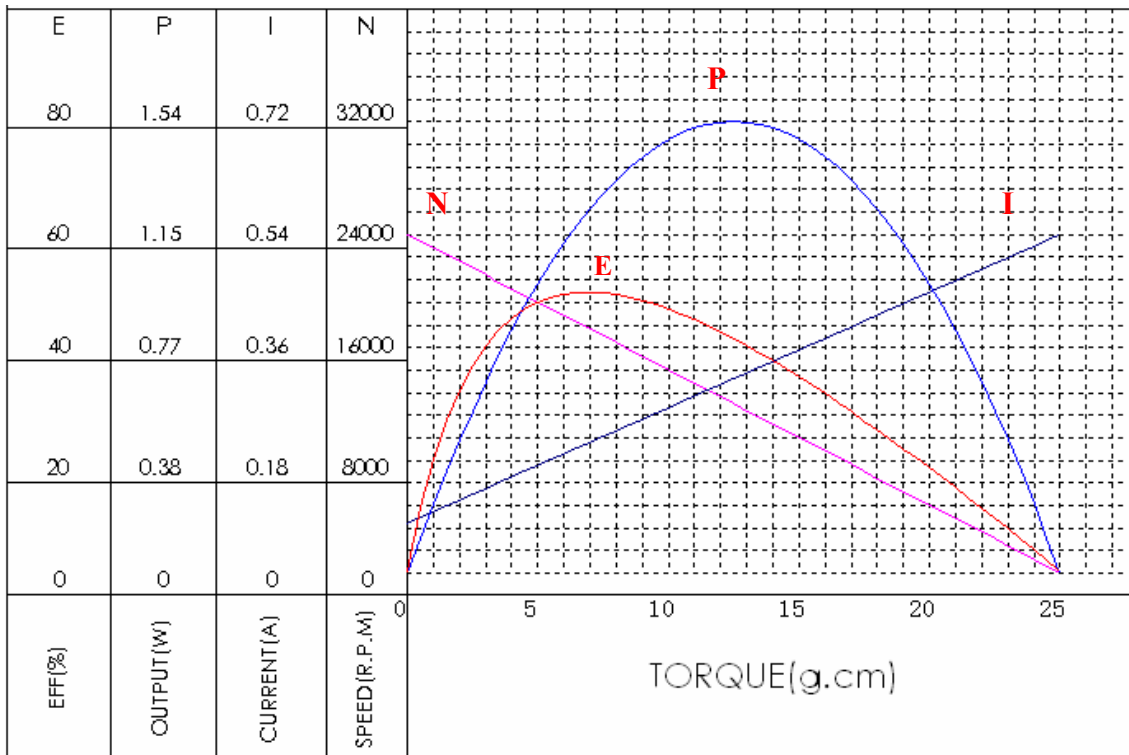
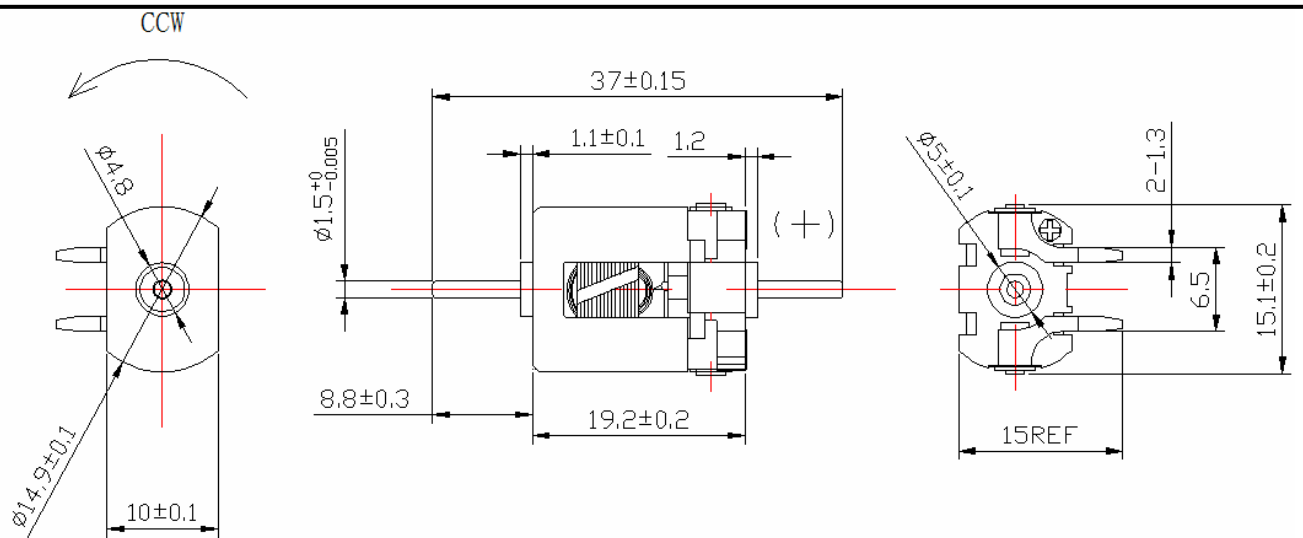
N MOTOR With Rare Earth Magnets



Typical Applications: Toy train, Train Model

MODEL: 847-E003-37

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
23000	70	210	17450	6	1.24	22	0.50	72	2.3



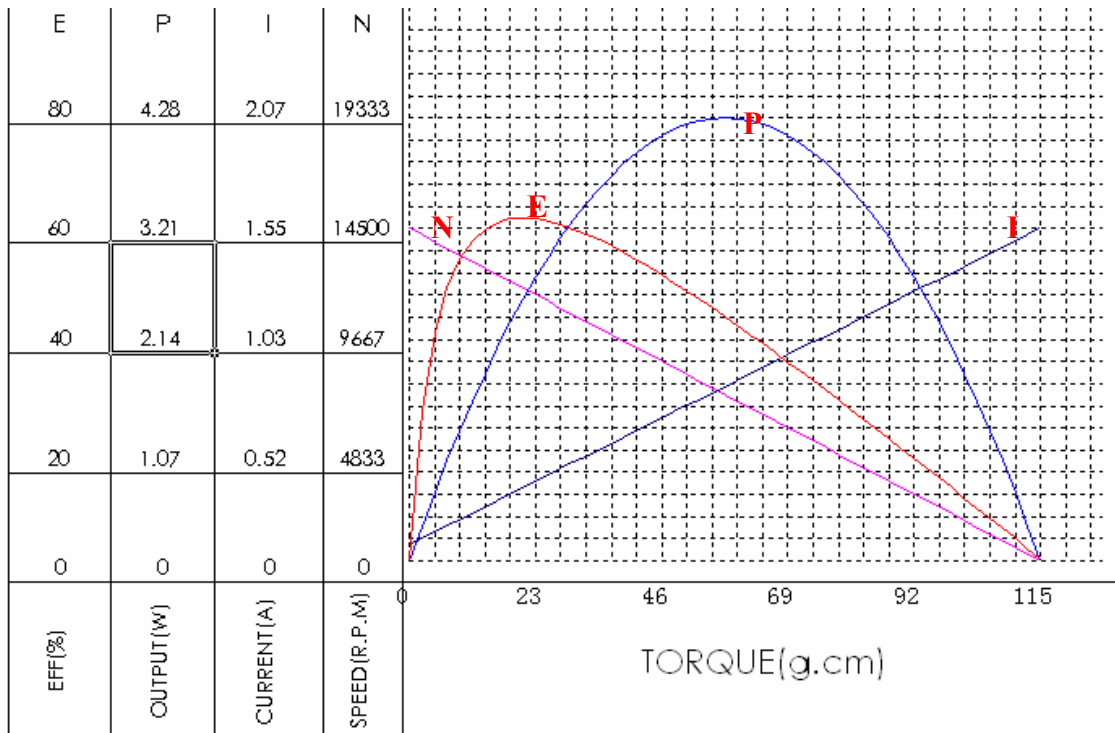
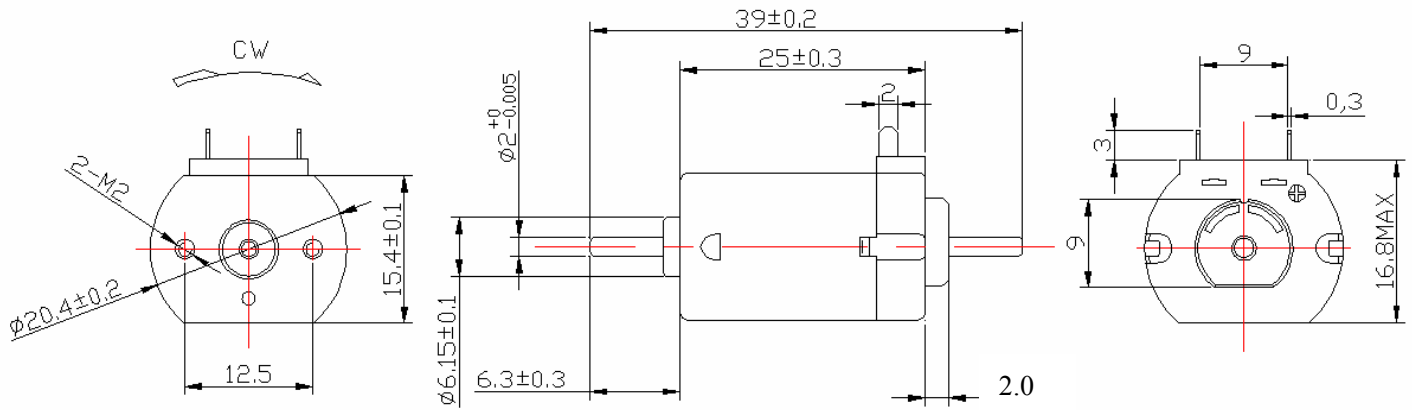
HO MOTOR



Typical Applications: Toy train, Train Model

MODEL: FC135-14120-39 (5 POLES) HO

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
14000	80	300	11800	21	2.55	110	1.40	75	1.5



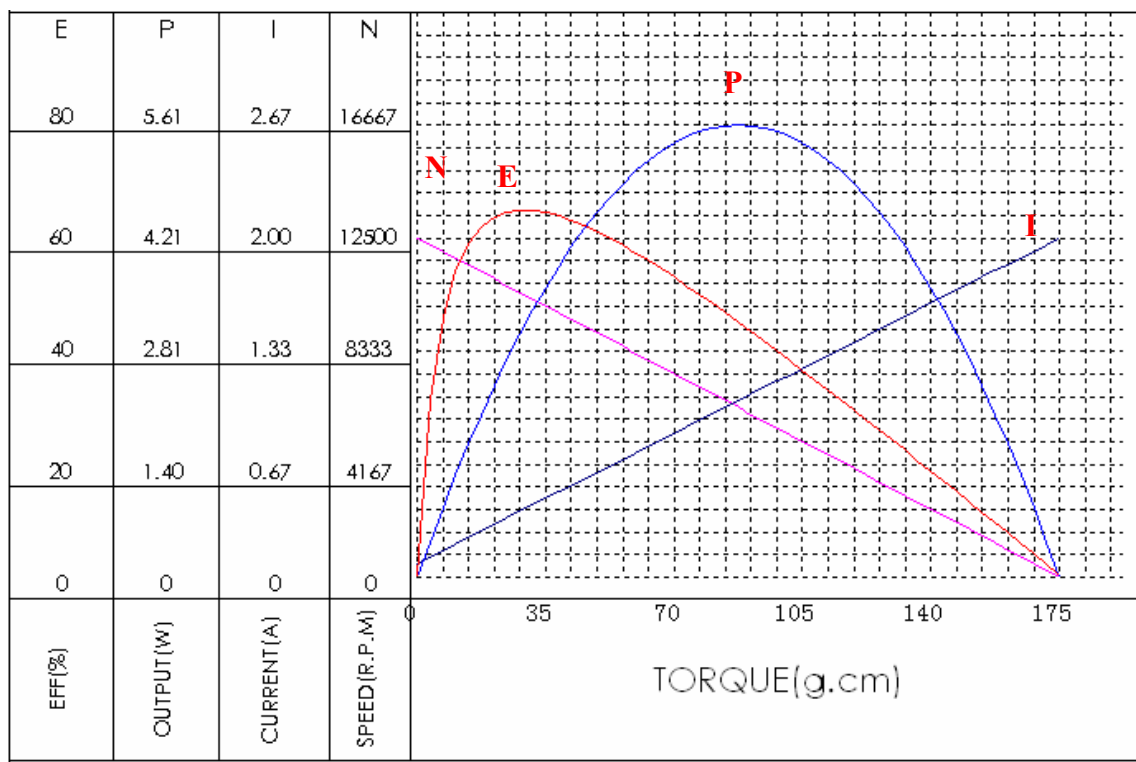
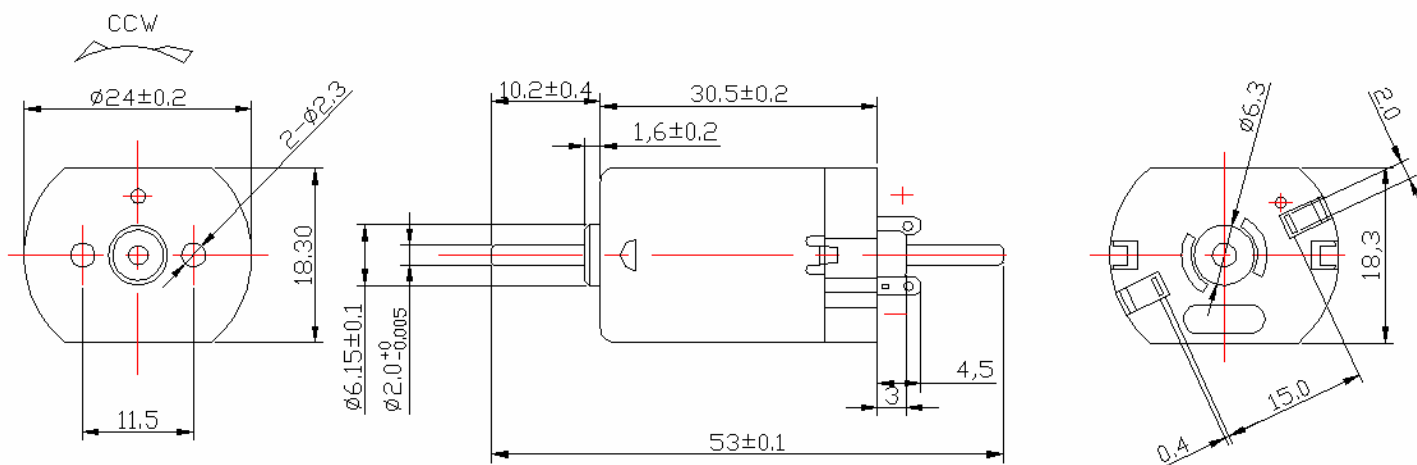
HO MOTOR

Typical Applications: Toy train, Train Model

MODEL: FK285-1790-53 (5 POLES)



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
12500	100	420	10350	30	3.2	175	2.0	75	1.5

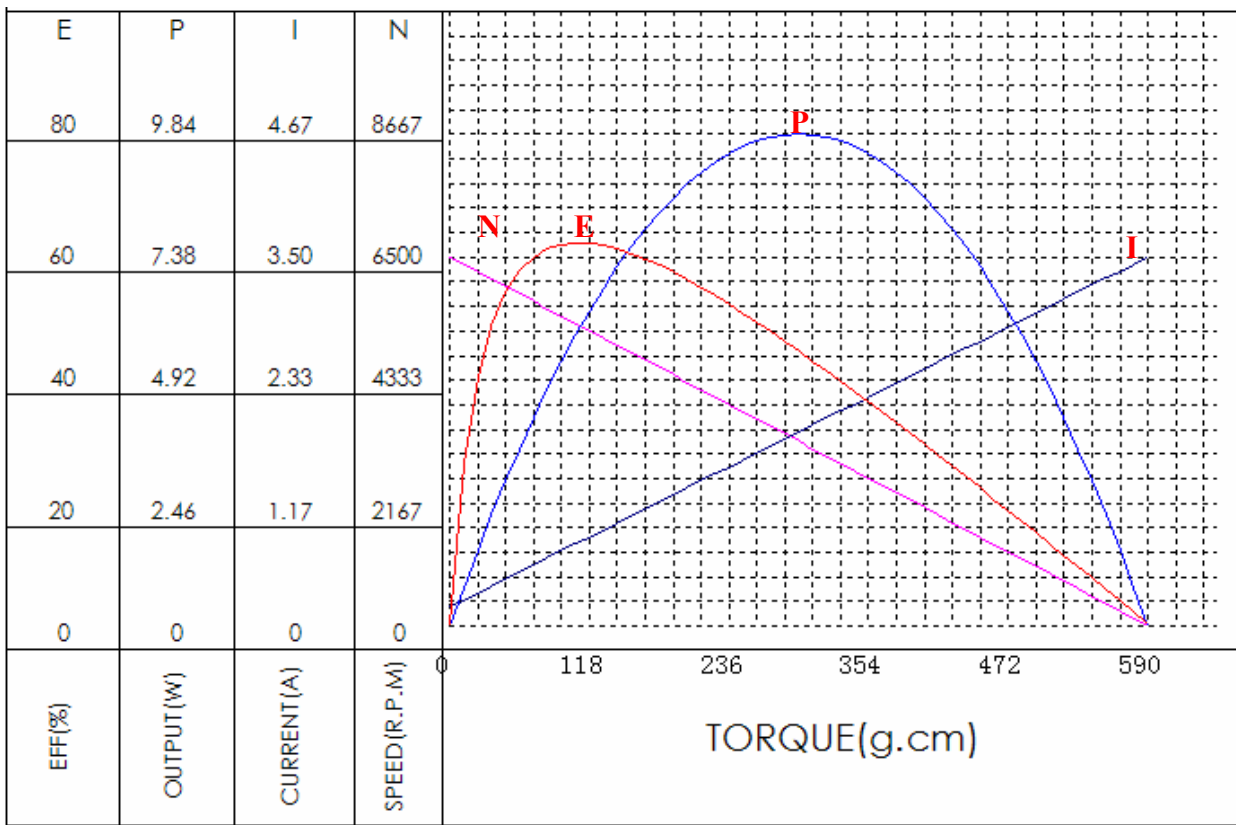
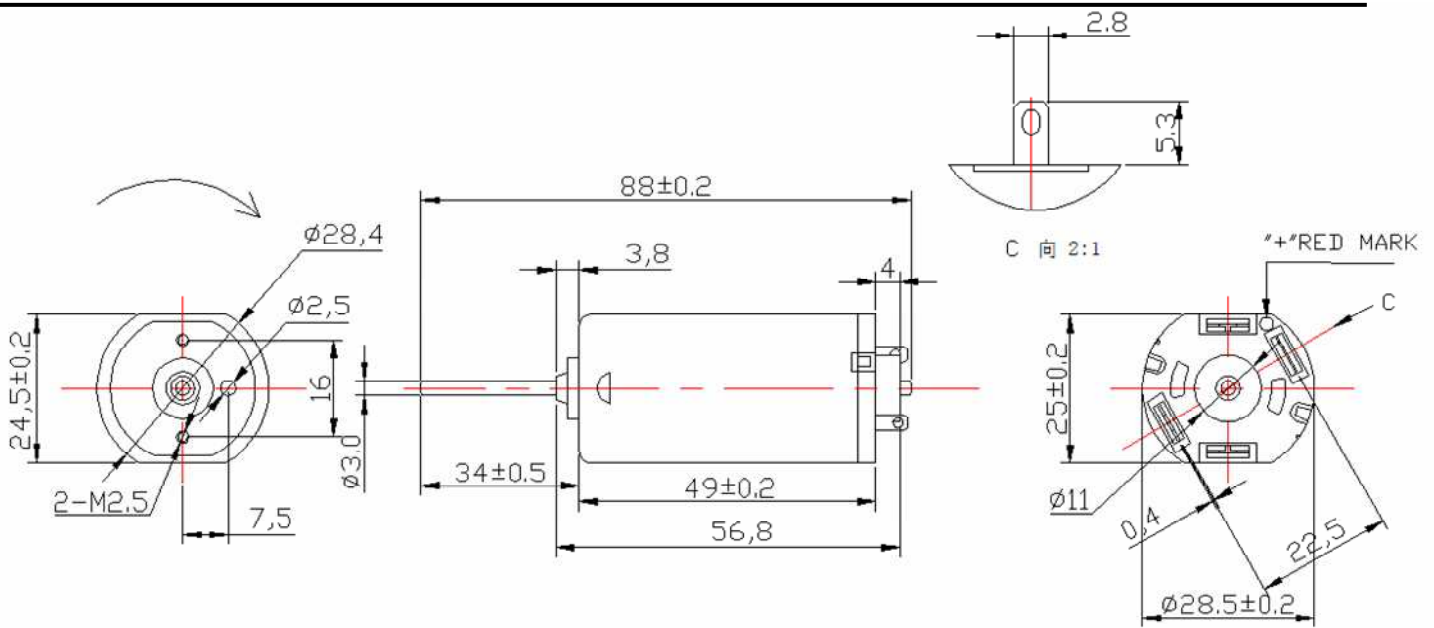


MOTOR



MODEL: FK395-2362-88

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY					STALL	
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	EFFICIENCY	TORQUE	CURRENT
RPM	mA	mA	RPM	g.cm	W	%	g.cm	A
6500	200	790	5310	108	5.88	65.38	590	3.5



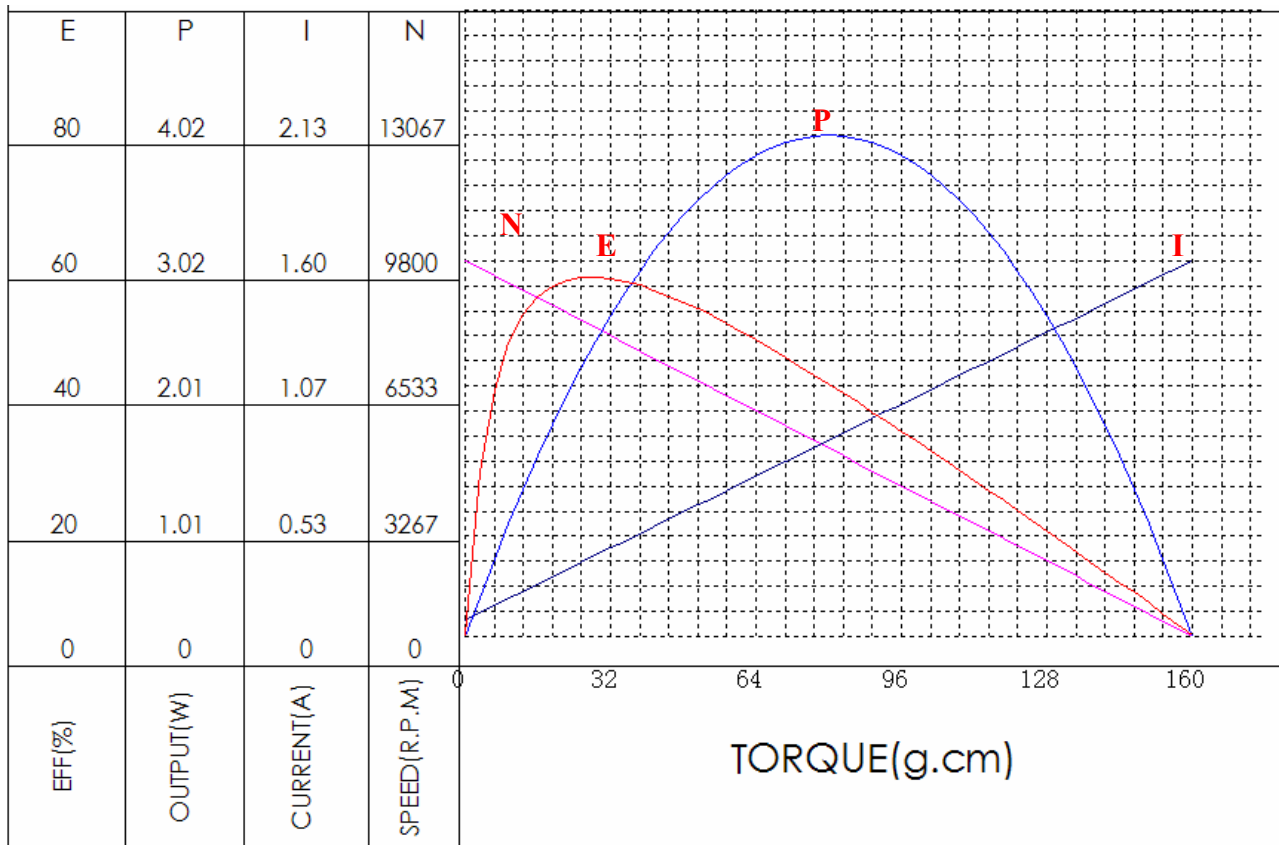
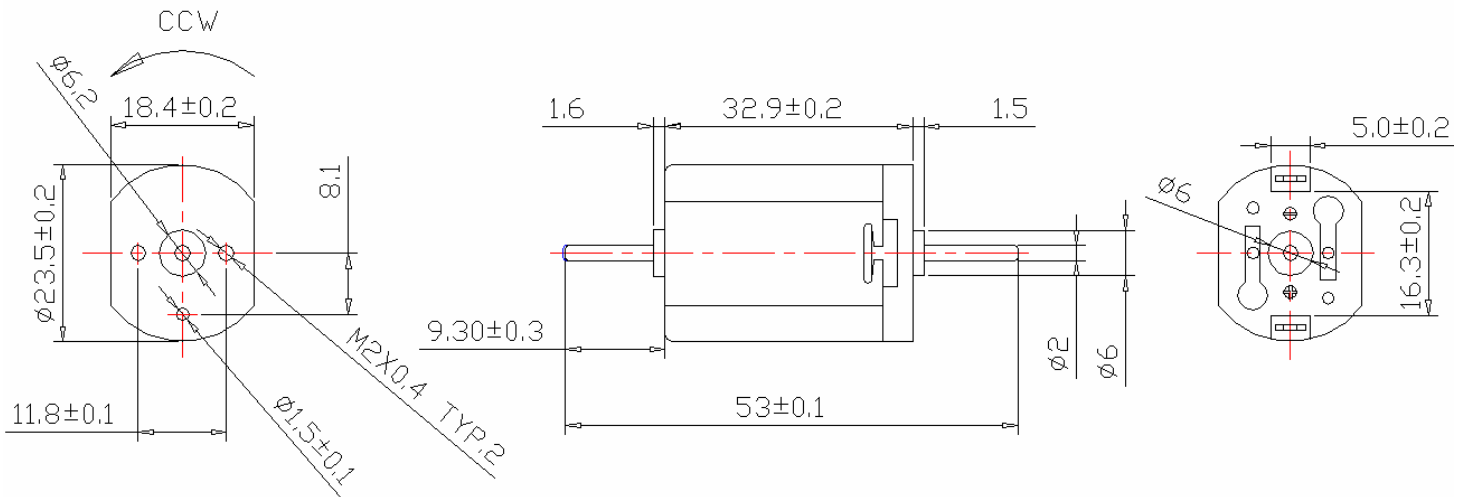
HO MOTOR

Typical Applications: Toy train, Train Model

MODEL: 300-E14103-53 (5 POLES)



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
9800	80	330	8146	27	2.26	160	1.60	68	1.0
±10%	100Max	ref	ref	ref	ref	155Min	1.55Min	70Max	1.2Max



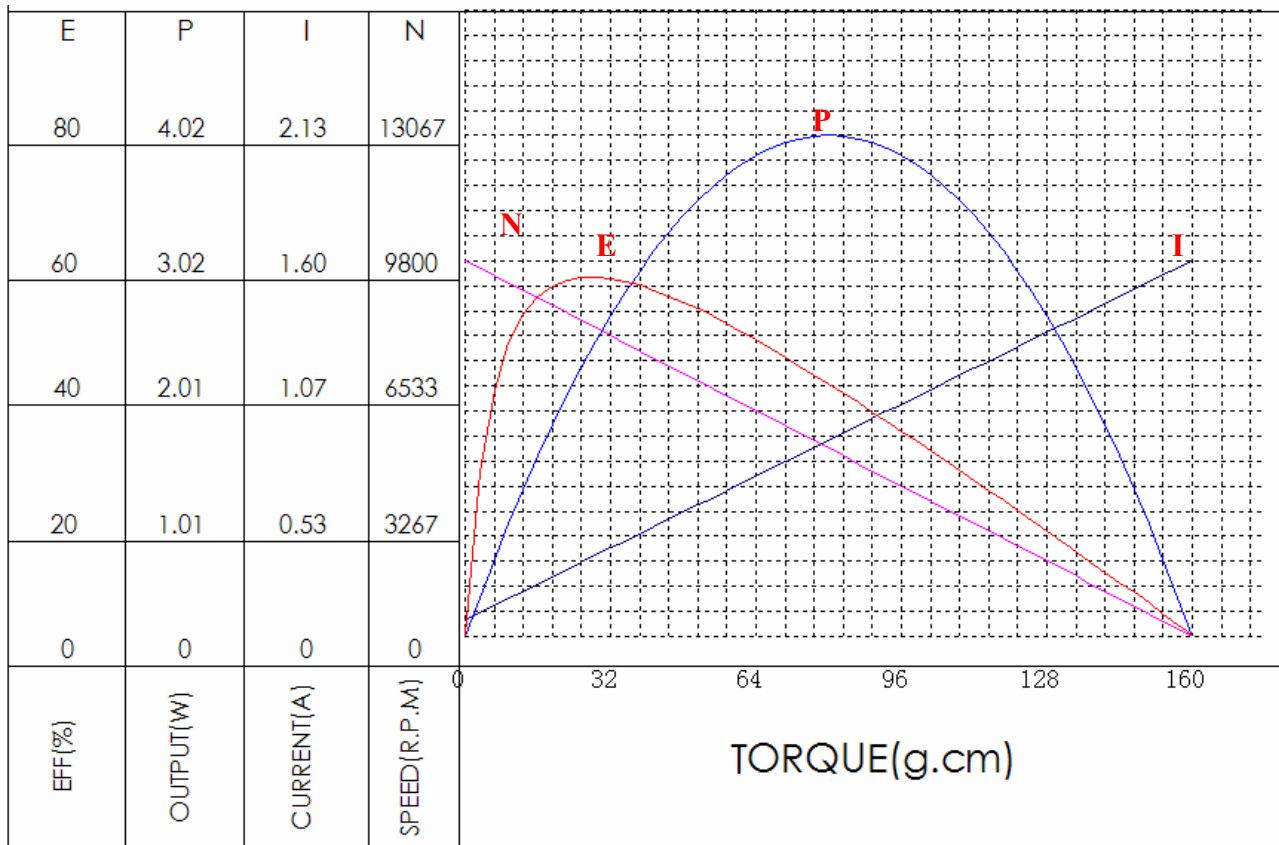
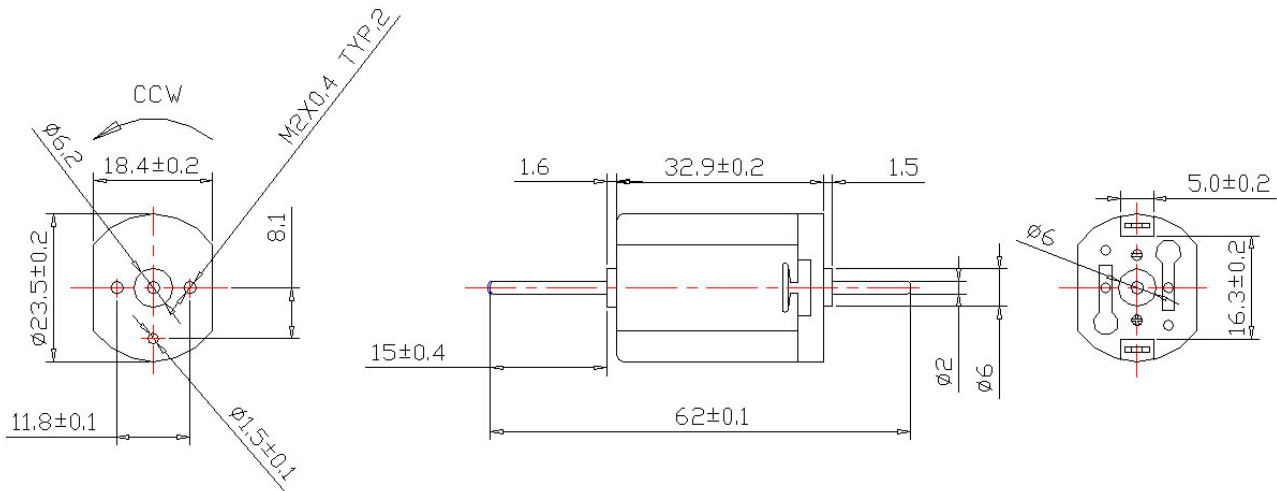
HO MOTOR

Typical Applications: Toy train, Train Model

MODEL: 300-E14103-62 (5 POLES)



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
9800	80	330	8146	27	2.26	160	1.60	68	1.0
±10%	100Max	ref	ref	ref	ref	155Min	1.55Min	70Max	1.2Max



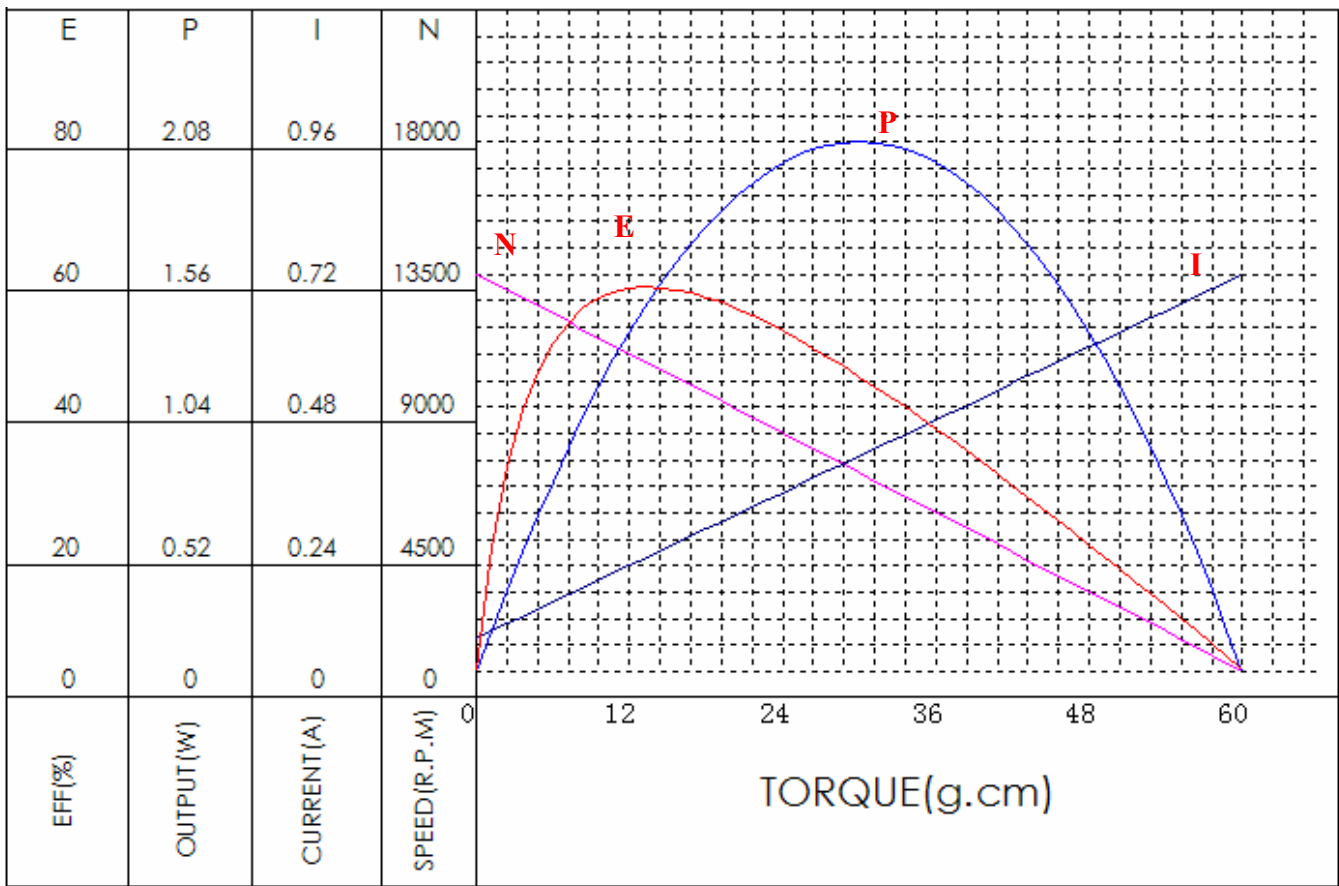
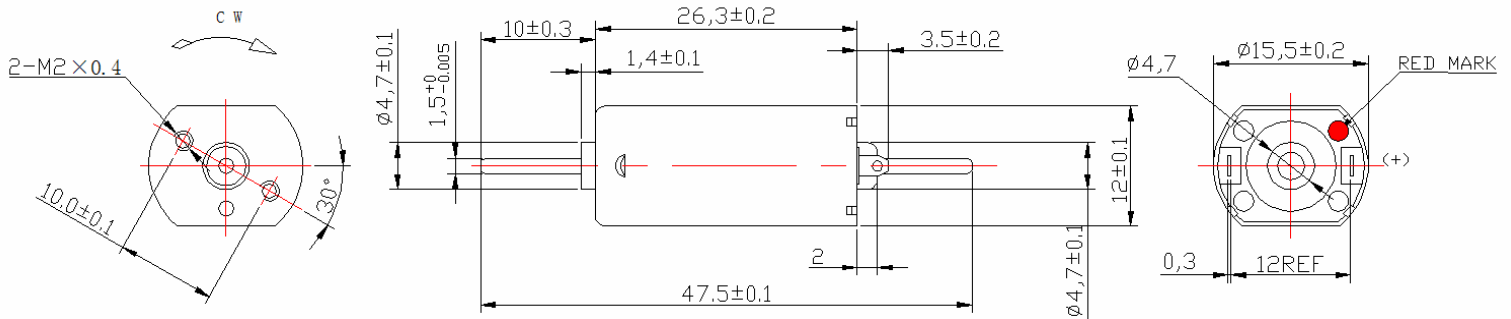
Ho Motor

MODEL: FK055-10120-47.5V (5 POLES)



Typical Applications: Toy train, Train Model.

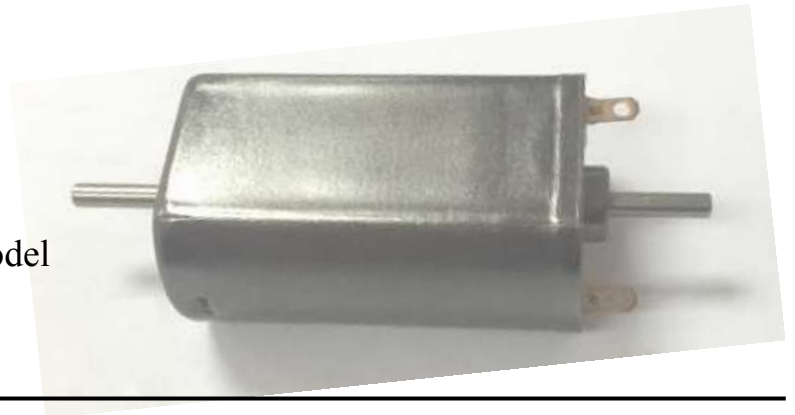
DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBA	V
14000	60	210	10350	14	1.49	60	0.72	65	2.0



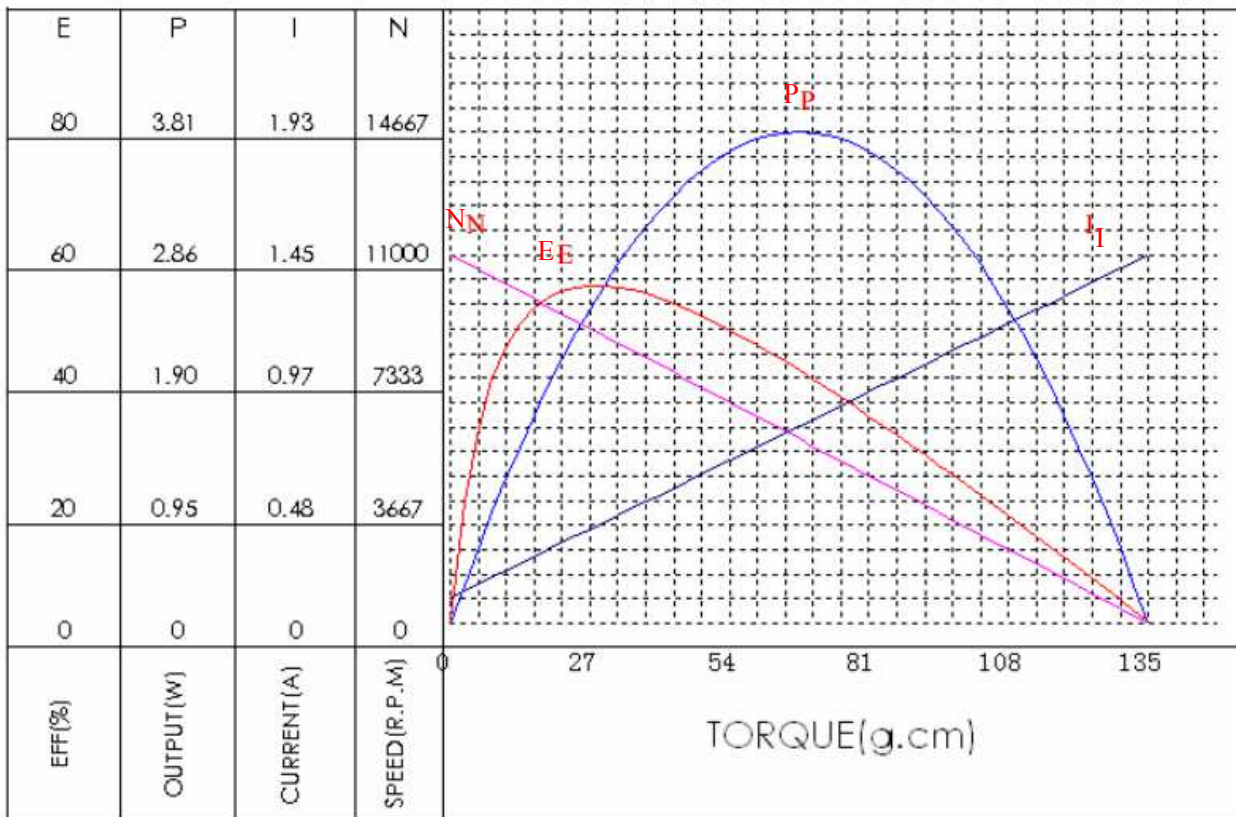
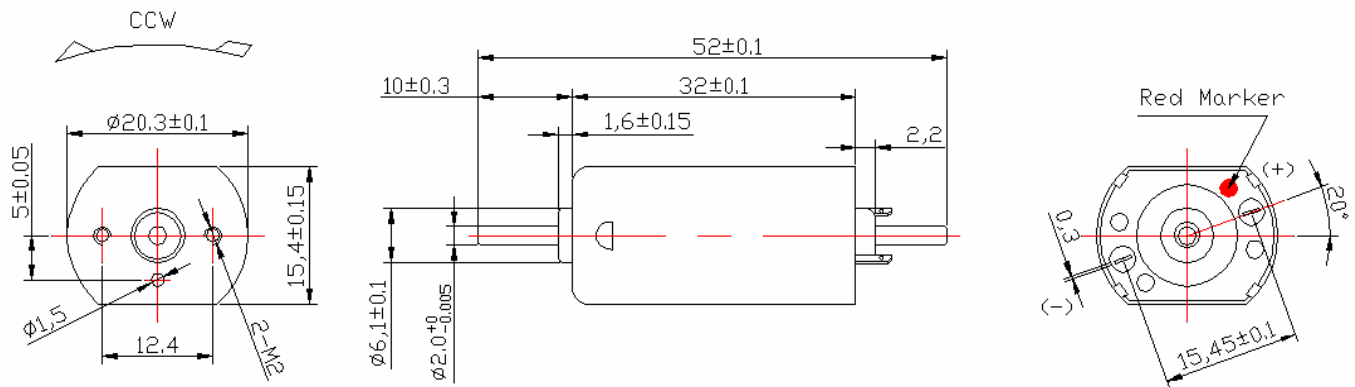
H O MOTOR

Typical Applications: Toy train, Train Model

MODEL: FK185-14118-52 (5 POLES)



DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
10000	100	380	8719	25	2.5	135	1.45	68	1.5
± 10%	110MAX	REF	REF	REF	REF	130MIN	1.30MIN	70MAX	2.0max



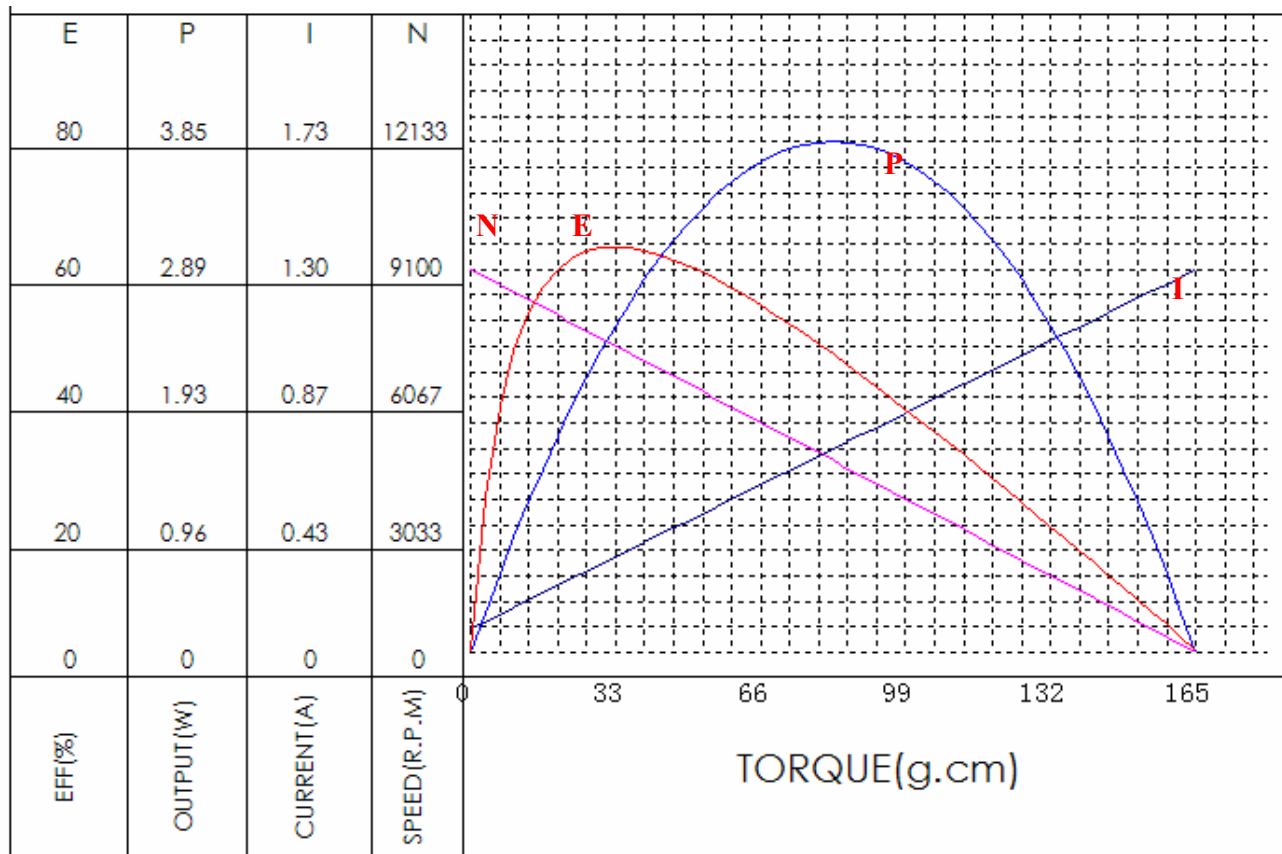
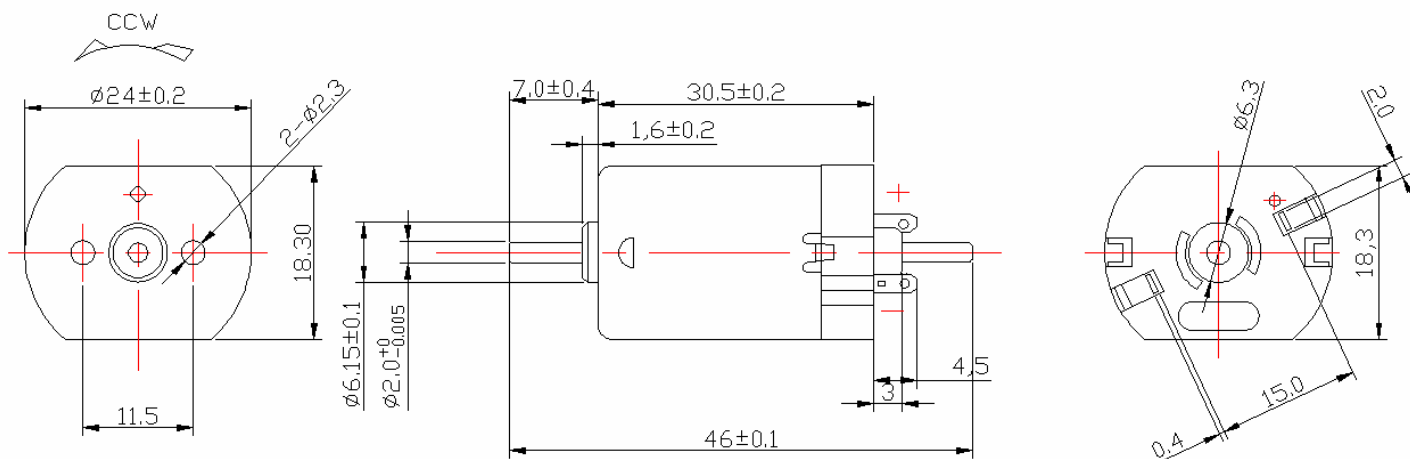
HO MOTOR



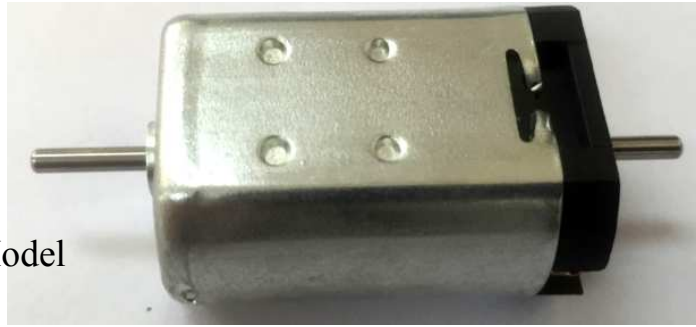
Typical Applications: Toy train, Train Model

MODEL: FK285-14123-46 (5 POLES)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
9100	80	320	7335	32	2.41	165	1.30	72	1.5



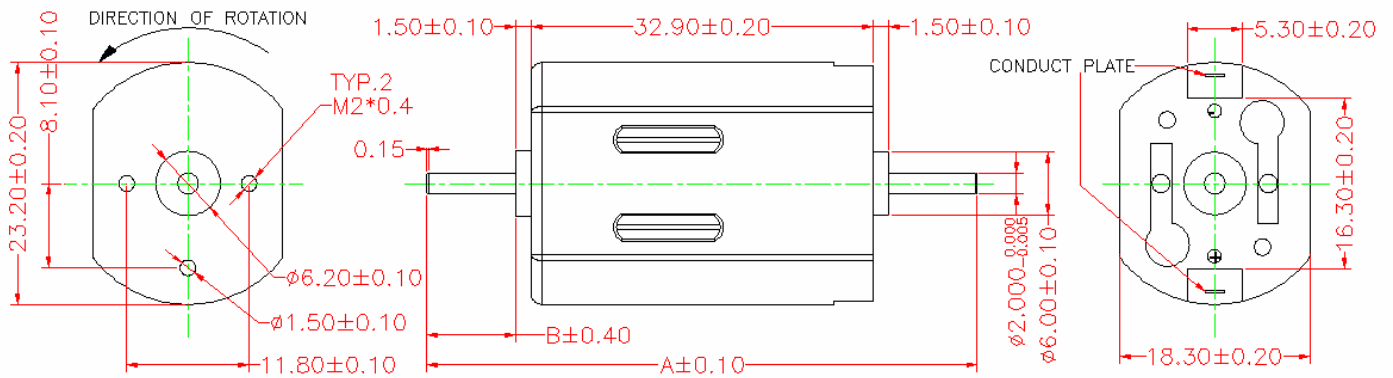
HO MOTOR



Typical Applications: Toy train, Train Model

MODEL: FK285-15103-53 (5 POLES)

DC 12V NO LOAD		AT MAXIMUM EFFICIENCY				STALL		NOISE	START
SPEED	CURRENT	CURRENT	SPEED	TORQUE	OUTPUT	TORQUE	CURRENT	30mm	VOLTAGE
RPM	mA	mA	RPM	g.cm	W	g.cm	A	dBa	V
9800	70	320	8156	26	2.18	155	1.60	72	1.0



A=53, B=9.5

