



Weight: 24g (approx.)

Dia 20.4mm Flat DC Micro Motor

Model No.:KLS23-DBM7-FF/FK-130H

1 Typical Applications: Air Conditioning Damper Actuator
Electric Shaver
RC Model/Toy
Tooth Brush

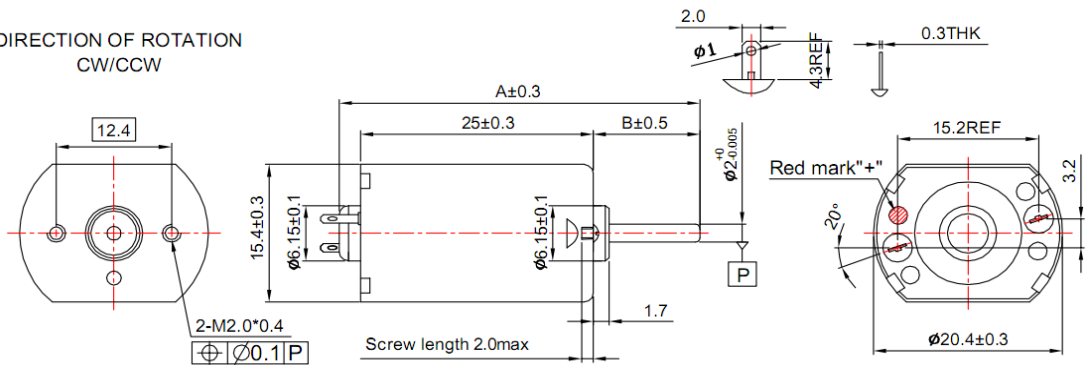
2 KEY FEATURES

- Metal End Cap
- Carbon Steel/Stainless Steel Shaft
- Permanent Magnet
- Precision Metal Brush/Carbon Brush

3 DIMENSIONS(MM)

Customization:
a.Length A, B
b.Technical Data
c.Varistor for option

DIRECTION OF ROTATION
CW/CCW



4 TECHNICAL DATA

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL			
	OPERATING RANGE	NOMINAL V	SPEED r/min	CURRENT A	SPEED r/min	CURRENT A	TORQUE		OUTPUT W	TORQUE		CURRENT A	
							mNm	g.cm		mNm	g.cm		
FF-130PA	16155	2.0-3.0	2.3	4000	0.07	2500	0.3	1.32	13.5	13.8	3.92	40	0.76
	17145	3.0-6.0	6	11500	0.1	10000	0.39	1.27	13	1.33	10	102	2.3
FF-130SH	2356	1.5-3.0	3	12800	0.27	10337	1.13	1.9	19.4	2.08	10	102	4.75
FK-130PH	07555	6.0-9.0	7.19	2700	0.02	1999	0.05	0.8	8.16	0.17	3	30.6	0.15

Remarks

1. All values approximate.
2. Customized electric performance on request by using suitable windings.
3. Available with required cables, eccentric wheel and accessories after evaluation.



Weight: 32g (approx.)

Dia 20.4mm Flat Micro RC Motor

Model No.:KLS23-DBM7-FF/FK-180H

1 Typical Applications:

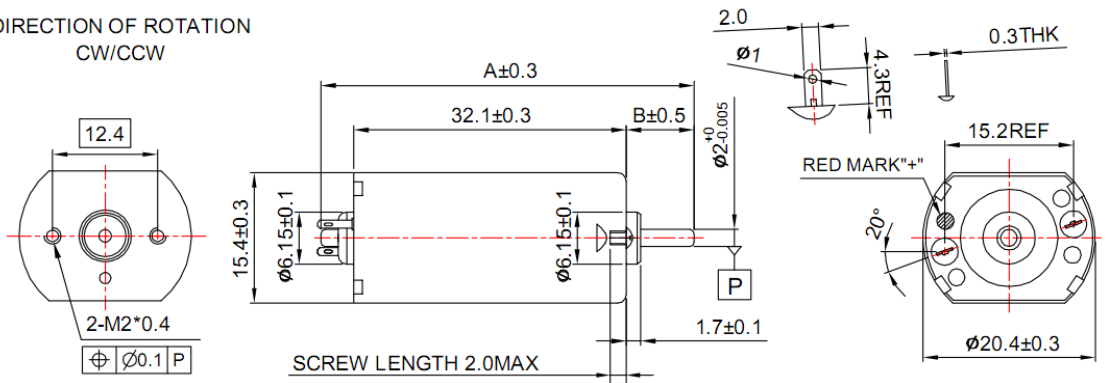
- Mini Printer
- Electric Shaver
- RC Model/Toy
- Tooth Brush

2 KEY FEATURES

- Metal End Cap
- Carbon Steel/Stainless Steel Shaft
- Permanent Magnet
- Precision Metal/Carbon Brush

3 DIMENSIONS(MM)

DIRECTION OF ROTATION
CW/CCW



Customization:

- a.Length A, B
- b.Technical Data
- c.Varistor for option

4 TECHNICAL DATA

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL			
	OPERATING	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	TORQUE	CURRENT			
	RANGE	V	r/min	A	r/min	A	mNm	g.cm	W	mNm	g.cm	A	
FF-180PA	3036	1.0-2.0	1.2	5600	0.22	4100	1.1	1.86	19	0.8	6.9	70	3
	2950	2.0-3.0	2.4	8000	0.16	7400	0.49	0.98	10	0.76	11.8	120	4.5
FF-180SH	17157	3.0-9.0	6	7500	0.07	6289	0.36	2.3	23.5	1.49	14	143	1.89
FF-180PH	3334	3.0-7.5	7	33000	0.65	28062	3.7	6.2	63.2	18.11	41.2	420	21

Remarks

1. All values approximate.
2. Customized electric performance on request by using suitable windings.
3. Available with required cables, eccentric wheel and accessories after evaluation.